

UNIVERSAL ELECTRONICS INC

Form 10-K

March 09, 2017

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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

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FORM 10-K  
FOR ANNUAL AND TRANSITION REPORTS  
PURSUANT TO SECTIONS 13 OR  
15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2016

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF  
1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number: 0-21044

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UNIVERSAL ELECTRONICS INC.  
(Exact Name of Registrant as Specified in its Charter)

Delaware 33-0204817  
(State or Other Jurisdiction of (I.R.S. Employer  
Incorporation or Organization) Identification No.)

201 E. Sandpointe Avenue, 8<sup>th</sup> Floor 92707  
Santa Ana, California  
(Address of Principal Executive Offices) (Zip Code)

Registrant's telephone number, including area code: (714) 918-9500

Securities registered pursuant to Section 12(b) of the Act:

Common Stock, par value \$.01 per share The NASDAQ Stock Market LLC  
(Title of Class) (Name of each exchange on which registered)

Securities registered pursuant to Section 12(g) of the Act:

None

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Indicate by check mark if whether the registrant is a well-known seasoned issuer (as defined in Rule 405 of the Securities Act). Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes  No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months, and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, any Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

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Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of the Form 10-K or any amendment to this Form 10-K. "

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer", "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer "

Accelerated filer

ý

Non-accelerated filer " (Do not check if a smaller reporting company) Smaller reporting company "

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes " No ý

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant on June 30, 2016, the last business day of the registrant's most recently completed second fiscal quarter was \$566,737,072 based upon the closing sale price as reported on the NASDAQ Stock Market for that date.

On March 6, 2017, 14,390,071 shares of Common Stock, par value \$.01 per share, of the registrant were outstanding.

**DOCUMENTS INCORPORATED BY REFERENCE:**

Portions of the registrant's notice of annual meeting of shareowners and proxy statement to be filed pursuant to Regulation 14A within 120 days after registrant's fiscal year end of December 31, 2016 are incorporated by reference into Part III of this Form 10-K. The Proxy Statement will be filed with the Securities and Exchange Commission no later than May 1, 2017.

Except as otherwise stated, the information contained in this Form 10-K is as of December 31, 2016.

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 For the Fiscal Year Ended December 31, 2016  
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PART I

ITEM 1. BUSINESS

Business of Universal Electronics Inc.

Universal Electronics Inc. ("UEI") was incorporated under the laws of Delaware in 1986 and began operations in 1987. The principal executive offices are located at 201 E. Sandpointe Avenue, 8th Floor, Santa Ana, California 92707. As used herein, the terms "we", "us" and "our" refer to UEI and its subsidiaries unless the context indicates to the contrary.

Additional information regarding UEI may be obtained at [www.uei.com](http://www.uei.com). Our website address is not intended to function as a hyperlink and the information available at our website address is not incorporated by reference into this Annual Report on Form 10-K. We make our periodic and current reports, together with amendments to these reports, available on our website, free of charge, as soon as reasonably practicable after such material is electronically filed with, or furnished to, the U.S. Securities and Exchange Commission ("SEC"). The SEC maintains a website at [www.sec.gov](http://www.sec.gov) that contains the reports, proxy and other information that we file electronically with the SEC.

Business Segment

Overview

Universal Electronics Inc. develops control and sensor technology solutions and manufactures a broad line of pre-programmed and universal remote control products, audio-video ("AV") accessories, and intelligent wireless security and automation components dedicated to redefining the home entertainment and security experience. Our offerings include the following:

- easy-to-use, pre-programmed universal infrared ("IR") and radio frequency ("RF") remote controls that are sold primarily to subscription broadcasting providers (cable, satellite and Internet Protocol television ("IPTV")), original equipment manufacturers ("OEMs"), retailers, and private label customers;
- integrated circuits, on which our software and universal device control database is embedded, sold primarily to OEMs, subscription broadcasting providers, and private label customers;
- software, firmware and technology solutions that can enable devices such as TVs, set-top boxes, stereos, smart phones, tablets, gaming controllers and other consumer electronic devices to wirelessly connect and interact with home networks and interactive services to control and deliver digital entertainment and information;
- intellectual property which we license primarily to OEMs, software development companies, private label customers, and subscription broadcasting providers;
- proprietary and standards-based RF sensors designed for residential security, safety and automation applications; and
- AV accessories sold, directly and indirectly, to consumers.

Our business is comprised of one reportable segment.

Principal Products and Markets

Our principal markets are the subscription broadcast, consumer and mobile electronics and residential security markets where our customers include subscription broadcasters, OEMs, international retailers, private label brands, pro-security dealers and companies in the computing industry.

We provide subscription broadcasting providers, both domestically and internationally, with our universal remote control devices and integrated circuits, on which our software and device code database library is embedded. We also sell integrated circuits, on which our software and IR device control code database is embedded, and license our IR device control database to OEMs that manufacture televisions, digital audio and video players, streamer boxes, cable converters, satellite receivers, set-top boxes, room air conditioning equipment, game consoles, and wireless mobile phones and tablets.

We continue to place significant emphasis on expanding our sales and marketing efforts to subscription broadcasters and OEMs in Asia, Latin America and Europe. Owning and operating our own factories in the People's Republic of China ("PRC") has enhanced our ability to compete in the OEM and subscription broadcasting markets. In addition, we have subsidiaries in Brazil and Mexico, which have allowed us to increase our reach and better compete in the Central and Latin American subscription broadcast market. We plan to continue to add new sales and administrative personnel to support anticipated sales growth in international markets over the next few years.

We continue to pursue further penetration of the more traditional OEM consumer electronics markets as well as newer product categories in the mobile electronics markets such as smart phones, tablets and other mobile smart devices. Customers in these

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markets integrate our products and technology into their products to simplify and expand the universal control capabilities of home entertainment ecosystems. Growth in these markets has been driven by the increasing complexity of home entertainment, emerging digital technology, multimedia and interactive internet applications, and the increasing proliferation of connected smart devices offered by OEMs.

In 2015, we acquired Ecolink Intelligent Technology, Inc. ("Ecolink"), a leading developer of smart home technology. Ecolink provides a wide range of intelligent wireless security and automation components dedicated to redefining the home security experience. Ecolink has over 20 years of wireless engineering expertise in the home security and automation market and holds more than 25 related pending and issued patents. UEI's current subscription broadcasting customers are adding home security and automation to their list of service offerings. Our acquisition of Ecolink, a premise equipment supplier to this market, enables us to broaden our design expertise and product portfolio to add home security and automation sensors to our capabilities.

For the years ended December 31, 2016 and 2015, our sales to Comcast Corporation accounted for 22.9% and 21.5% of our net sales, respectively. For the years ended December 31, 2016, 2015, and 2014, our sales to DIRECTV and its sub-contractors collectively accounted for 10.5%, 12.4%, and 10.4% of our net sales, respectively.

Our One For All® brand name remote controls and accessories sold within the international retail markets accounted for 7.2%, 8.1%, and 9.2% of our total net sales for the years ended December 31, 2016, 2015, and 2014, respectively. Financial information relating to our international operations for the years ended December 31, 2016, 2015, and 2014 is included in "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA - Notes to Consolidated Financial Statements - Note 15".

### Intellectual Property and Technology

We hold a number of patents in the United States and abroad related to our products and technology, and have filed domestic and foreign applications for other patents that are pending. At the end of 2016, we had over 400 issued and pending United States patents related to remote control, home security, safety and automation as well as hundreds of foreign counterpart patents and applications in various territories around the world.

Our patents have remaining lives ranging from one to 18 years. We have also obtained copyright registration and claim copyright protection for certain proprietary software and libraries of IR codes. Additionally, the names of many of our products are registered, or are being registered, as trademarks in the United States Patent and Trademark Office and in most of the other countries in which such products are sold. These registrations are valid for terms ranging up to 20 years and may be renewed as long as the trademarks continue to be used and are deemed by management to be important to our operations. While we follow the practice of obtaining patent, copyright and trademark registrations on new developments whenever advisable, in certain cases we have elected common law trade secret protection in lieu of obtaining such other protection.

A key factor in creating products and software for control of entertainment devices is the device control code database. Since our beginning in 1986, we have compiled an extensive device control code database library that covers nearly one million individual device functions and approximately 7,900 individual consumer electronic equipment brand names, including virtually all IR controlled set-top boxes, televisions, audio components, DVD players, Blu-Ray players, CD players, other remote controlled home entertainment devices and home automation control modules, and wired Consumer Electronics Control ("CEC") and wireless Internet Protocol ("IP") control protocols commonly found on many of the latest HDMI and internet connected devices. Our proprietary software automatically detects, identifies and enables the appropriate control commands for any given home entertainment, automation and air conditioning device in the home. Our library is continuously updated with device control codes used in newly introduced AV and Internet of Things ("IoT") devices. These control codes are captured directly from the remote control devices or the manufacturer's written specifications to ensure the accuracy and integrity of the database. Our proprietary software and know-how permit us to offer a device control code database that is more robust and efficient than similarly priced products of our competitors.

Our goal is to provide universal control solutions that require minimal or no user set-up and deliver consistent and intuitive one-touch control of all connected content sources and devices. QuickSet® is a software application that is currently embedded in millions of devices worldwide. QuickSet may be embedded in an AV device, set-top box, or other host device, or delivered as a Cloud-based service to enable universal remote setup and control. QuickSet

enables universal remote control set-up using automated and guided on-screen instructions and a wireless two-way communication link between the remote and the QuickSet enabled device. The two-way connection allows device control code data and configuration settings to be sent to the remote control from the device and greatly simplifies the universal remote control set-up process and can enable other time saving features. QuickSet utilizes data transmitted over HDMI or IP networks to automatically detect various attributes of the connected device and downloads the appropriate control codes and functions into the remote control without the need for the user to enter any additional information. The user does not need to know the brand or model number to set up the device in the remote. Any compatible new device that is

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connected is recognized. Consumers can quickly and easily set up their remotes to control multiple devices. Recently added features in QuickSet address common consumer challenges in universal device control, such as mode confusion and input switching. With QuickSet consumers switch easily between activities and reliably view their chosen content source with a single touch. QuickSet handles the device-specific control requirements. Licensees of QuickSet include service providers such as Comcast, DIRECTV and Echostar Technologies; smart TV manufacturers such as Sony and Samsung; leading game console manufacturer Microsoft on their Xbox One game system; and mobile and tablet device manufacturers Samsung, LG, OPPO, Huawei and LeTV on some of their mobile handset platforms. Smart devices are becoming a more prevalent part of the home entertainment experience, and UEI offers several solutions to enable entertainment device control with a smart phone, tablet or smart TV. In its smart device control solutions, UEI offers all of the elements needed for device control from the IR microcontroller to the device control database to the user interface for the touchscreen. Nevo® is a UEI-designed and developed universal control suite of applications designed for Android and iOS tablets and smart phones that UEI has released and that is currently available for download at Google Play and the Apple App Store.

Methods of Distribution

Our distribution methods for our remote control devices are dependent on the sales channel. We distribute remote control devices, sensors and AV accessories directly to subscription broadcasters and OEMs, both domestically and internationally. We currently also distribute home security sensors to pro-security installers in the United States through a network of dealers. Outside of North America, we sell our wireless control devices and AV accessories under the One For All® and private label brand names to retailers through our international subsidiaries. We utilize third-party distributors for the retail channel in countries where we do not have subsidiaries.

We have developed a broad portfolio of patented technologies and the industry's leading database of device control codes. We ship integrated circuits, on which our software and control code database are embedded, directly to manufacturers for inclusion in their products. In addition, we license our software and technology to manufacturers. Licenses are delivered upon the transfer of a product master or on a per unit basis when the software or technology is used in a customer device.

We provide domestic and international consumer support to our various universal remote control marketers, including manufacturers, cable and satellite providers, retail distributors, and audio and video OEMs through our live and automated call centers. We also make available a web-based support resource, [www.urcsupport.com](http://www.urcsupport.com), designed specifically for subscription broadcasters. This solution offers videos and online tools to help users easily set up their universal remote, and as a result reduce call volume at customer support centers. Additionally, the UEI Technical Support Services call center provides customer interaction management services from technical service and support to customer retention. Services include pre-repair calls, post-install surveys, and inbound calls for cable customers to provide greater bottom-line efficiencies.



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Our 23 international subsidiaries are the following:

- C.G. Development Ltd., established in Hong Kong;
- CG Mexico Remote Controls, S. de R.L. de C.V., established in Mexico;
- Enson Assets Ltd., established in the British Virgin Islands;
- Gemstar Polyfirst Ltd., established in Hong Kong;
- Gemstar Technology (China) Co. Ltd., established in the PRC;
- Gemstar Technology (Qinzhou) Co. Ltd., established in the PRC;
- Gemstar Technology (Yangzhou) Co. Ltd., established in the PRC;
- Guangzhou Universal Electronics Service Co., Ltd., established in the PRC;
- One For All Argentina S.R.L., established in Argentina;
- One For All France S.A.S., established in France;
- One For All GmbH, established in Germany;
- One for All Iberia S.L., established in Spain;
- One For All UK Ltd., established in the United Kingdom;
- UE Japan Ltd., established in Japan;
- UE Singapore Pte. Ltd., established in Singapore;
- UEI Cayman Inc., established in the Cayman Islands;
- UEI do Brasil Controles Remotos Ltda., established in Brazil;
- UEI Electronics Pte. Ltd., established in India;
- UEI Hong Kong Pte. Ltd., established in Hong Kong;
- Universal Electronics B.V., established in the Netherlands;
- Universal Electronics Italia S.R.L., established in Italy;
- Universal Electronics Trading Co., Ltd., established in the PRC; and
- Universal Electronics Yangzhou Co. Ltd., established in the PRC;

### Raw Materials and Dependence on Suppliers

We utilize our own manufacturing plants and third-party manufacturers and suppliers primarily located within the PRC to produce our remote control and sensor products. In 2016, Texas Instruments provided 11.7% of our total inventory purchases. In 2015, no single supplier provided more than 10% of our total inventory purchases. In 2014, Maxim Integrated Products International Limited provided 10.7% of our total inventory purchases.

Even though we operate three factories in the PRC and assembly plants in Brazil and Mexico, we continue to evaluate additional contract manufacturers and sources of supply. During 2016, we utilized multiple contract manufacturers and maintained duplicate tooling for certain of our products. Where possible we utilize standard parts and components, which are available from multiple sources.

We continually seek additional sources to reduce our dependence on our integrated circuit suppliers. To further manage our integrated circuit supplier dependence, we include flash microcontroller technology in most of our products. Flash microcontrollers can have shorter lead times than standard microcontrollers and may be reprogrammed, if necessary. This allows us flexibility during any unforeseen shipping delays and has the added benefit of potentially reducing excess and obsolete inventory exposure. This diversification lessens our dependence on any one supplier and allows us to negotiate more favorable terms.

### Seasonality

Historically, our business has been influenced by the retail sales cycle, with increased sales in the second half of the year. We expect this pattern to be repeated during 2017.

See "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 23" for further details regarding our quarterly results.

### Competition

Our principal competitors in the subscription broadcasting market are Remote Solutions, Omni Remotes (formerly Philips Home Control Singapore PTE, Ltd.), SMK, and Universal Remote Control. In the international retail and private label markets for wireless



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controls we compete with Logitech, Omni Remotes, Ruwido and Sony, as well as various manufacturers of wireless controls in Asia. Our primary competitors in the OEM market are the original equipment manufacturers themselves and wireless control manufacturers in Asia. In home security, safety and automation, we offer universal sub-gigahertz products that are compatible with the top security panel manufacturers, such as Honeywell, GE, Tyco/DSC and 2GIG. We compete in our markets on the basis of product quality, features, price, intellectual property and customer support. We believe that we will need to continue to introduce new and innovative products and software solutions to remain competitive and to recruit and retain competent personnel to successfully accomplish our future objectives.

**Engineering, Research and Development**

During 2016, our engineering efforts focused on the following:

- broadening our product portfolio;
- launching new embedded software solutions designed to simplify set-up and control features;
- modifying existing products and technologies to improve features and lower costs;
- formulating measures to protect our proprietary technology and general know-how;
- improving our control solutions software;
- updating our library of device codes to include codes for new features and devices introduced worldwide; and
- creating innovative products that address consumer challenges in home entertainment control and security sensing.

During 2016, our advanced engineering efforts focused on further developing our existing products, services and technologies. We released software updates to our embedded QuickSet application, and continued development initiatives around emerging RF technologies, such as RF4CE, Bluetooth, and Bluetooth Smart. Additionally, we released several new advanced remote control products that incorporate voice search capabilities in our subscription broadcast and OEM channels.

Our personnel are involved with various industry organizations and bodies, which are in the process of setting standards for IR, RF, power line, telephone and cable communications and networking in the home. Because of the nature of research and development activities, there can be no assurance that any of our research and development projects will be successfully completed or ultimately achieve commercial success.

Our expenditures on engineering, research and development were:

(In millions):	2016	2015	2014
Research and development	\$19.9	\$18.1	\$17.0
Engineering <sup>(1)</sup>	10.5	9.5	9.8
Total engineering, research and development	\$30.4	\$27.6	\$26.8

(1) Engineering costs are included in selling, general and administrative expenses.

**Environmental Matters**

Many of our products are subject to various federal, state, local and international laws governing chemical substances in products, including laws regulating the manufacture and distribution of chemical substances and laws restricting the presence of certain substances in electronics products. We may incur substantial costs, including cleanup costs, fines and civil or criminal sanctions, third-party damages or personal injury claims, if we were to violate or become liable under environmental laws or if our products become non-compliant with environmental laws. We also face increasing complexity in our product design and procurement operations as we adjust to new and future requirements relating to the materials composition of our products.

We may also face significant costs and liabilities in connection with product take-back legislation. The European Union's Waste Electrical and Electronic Equipment Directive ("WEEE") makes producers of electrical goods financially responsible for specified collection, recycling, treatment and disposal of past and future covered products. Our European subsidiaries are WEEE compliant. Similar legislation has been or may be enacted in other jurisdictions, including in the United States, Canada, Mexico, the PRC and Japan.

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We believe that we have materially complied with all currently existing international and domestic federal, state and local statutes and regulations regarding environmental standards and occupational safety and health matters to which we are subject. During the years ended December 31, 2016, 2015 and 2014, the amounts incurred in complying with federal, state and local statutes and regulations pertaining to environmental standards and occupational safety and health laws and regulations did not materially affect our earnings or financial condition. However, future events, such as changes in existing laws and regulations or enforcement policies, may give rise to additional compliance costs that may have a material adverse effect upon our capital expenditures, earnings or financial condition.

Employees

At December 31, 2016, we employed 3,103 employees, of which 512 worked in engineering and research and development, 106 in sales and marketing, 71 in consumer service and support, 2,096 in operations and warehousing and 318 in executive and administrative functions. In addition, our factories in the PRC and our Asian operations employed an additional 6,921 staff contracted through agency agreements.

Labor unions represent approximately 13.8% of our 3,103 employees. Some unionized workers, employed in Manaus, Brazil, are represented under contract with the Sindicato dos Trabalhadores nas Industrias Metalurgicas, Mecanicas e de Materiais Eletricos de Manaus. Other unionized workers, employed in Monterrey, Mexico, are represented under contract with the Sindicato Industrial de Trabajadores de Nuevo León adherido a la Federación Nacional de Sindicatos Independientes. Our business units are subject to various laws and regulations relating to their relationships with their employees. These laws and regulations are specific to the location of each business unit. We believe that our relationships with employees and their representative organizations are good.

International Operations

Financial information relating to our international operations for the years ended December 31, 2016, 2015 and 2014 is incorporated by reference to "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 15".

Executive Officers of the Registrant<sup>(1)</sup>

The following table sets forth certain information concerning our executive officers on March 9, 2017:

Name	Age	Position
Paul D. Arling	54	Chairman of the Board and Chief Executive Officer
David Chong	55	Executive Vice President, Asia
Louis S. Hughes	52	Chief Operating Officer
Richard A. Firehammer, Jr.	59	Senior Vice President, General Counsel and Secretary
Bryan M. Hackworth	47	Senior Vice President and Chief Financial Officer
Menno V. Koopmans	41	Executive Vice President, Managing Director, Europe

<sup>(1)</sup> Included pursuant to Instruction 3 to Item 401(b) of Regulation S-K.

Paul D. Arling is our Chairman and Chief Executive Officer. He joined us in May 1996 as Chief Financial Officer and was named to our Board of Directors in August 1996. He was appointed President and Chief Operating Officer in September 1998, was promoted to Chief Executive Officer in October 2000 and appointed as Chairman in July 2001. At the 2016 Annual Meeting of Stockholders, Mr. Arling was re-elected as our Chairman to serve until the 2017 Annual Meeting of Stockholders. From 1993 through May 1996, he served in various capacities at LESCO, Inc. (a manufacturer and distributor of professional turf care products). Prior to LESCO, he worked for Imperial Wall coverings (a manufacturer and distributor of wall covering products) as Director of Planning, and The Michael Allen Company (a strategic management consulting company) where he was employed as a management consultant. David Chong is our Executive Vice President, Asia. He is responsible for general management of our Asia region and Global Operations. Mr. Chong joined us in January 2009 as Senior Vice President of Global OEM. Prior to joining us, Mr. Chong served as Senior Vice President at Philips Consumer Electronics Division and as the Chief Marketing Officer of the business group Philips Display (Philips TV and Computer Monitor business). At Philips Display, he led the re-engineering of the Product Creation, Marketing and Sales Organization to compete successfully in the LCD TV space. Prior to this, he also served as Vice President and General Manager of the Audio Video Business in Asia, Vice

President and Global Business Line Manager for Audio and various senior management positions at Philips' CE Division. Mr. Chong started at Philips Research Lab in 1984 as a research

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scientist working in the area of VLSI design methodologies. He also served as Managing Director for Asia at InVue Security Product before joining us at the present position. Mr. Chong had his senior education in The United Kingdom, holding a B.S. in Electrical and Electronics Engineering with High Honors from University of Nottingham. Louis S. Hughes is our Executive Vice President, Americas. He joined us in 2004 as General Manager of Simple Devices as part of our acquisition of Simple Devices, Inc. in that same year. From 2008 to 2011, he was our Vice President Corporate Development. From 2011 to 2014, he was our Senior Vice President - Americas and was promoted to his current position in 2015. Prior to joining us, Mr. Hughes co-founded SimpleDevices, Inc. (a company that pioneered local area network digital media distribution to a wide variety of consumer electronics devices) and Supplybase (a company that provided enterprise wide, web-based supply chain management systems and information). He also held various positions with General Electric Company over a ten-year period.

Richard A. Firehammer, Jr., Esq. is our Senior Vice President, General Counsel and Secretary. He joined us in October 1993 as General Counsel. He became our Secretary in February 1994. He was our Vice President from May 1997 until August 1998, and served as counsel to us from September 1998 until February 1999 at which time he was promoted to his current position. From November 1992 to September 1993, he was associated with the Chicago, Illinois law firm, Shesky & Froelich, Ltd. From 1987 to 1992, he was with the law firm Vedder, Price, Kaufman & Kammholz in Chicago, Illinois.

Bryan M. Hackworth is our Senior Vice President and Chief Financial Officer. He was promoted to Chief Financial Officer in August 2006. Mr. Hackworth joined us in June 2004 as Corporate Controller and subsequently assumed the role of Chief Accounting Officer in May 2006. Before joining us in 2004, he spent five years at Mars, Inc., a privately held international manufacturer and distributor of consumer products and served in several financial and strategic roles (Controller — Ice Cream Division; Strategic Planning Manager for the WHISKAS® Brand) and various other financial management positions. Prior to joining Mars, Inc., Mr. Hackworth spent six years at Deloitte & Touche LLP as an auditor, specializing in the manufacturing and retail industries.

Menno V. Koopmans is our Senior Vice President and Managing Director, Europe. From 2014 to the end of 2016, he was our Senior Vice President for subscription broadcasting business in Europe and India where he led the customer transition into smart remote controls. From 2005 until 2013, he was the head of our worldwide consumer business and its One For All® brand. Prior to joining us, Mr. Koopmans worked at Mars, Sony Europe and Royal Philips Electronics in different product, marketing and sales management roles in both fast-moving consumer goods and durable consumer goods categories. Mr. Koopmans received his Masters in Science of Business Administration from Erasmus University in Rotterdam, The Netherlands.

## ITEM 1A. RISK FACTORS

### Forward-Looking Statements

We make forward-looking statements in Management's Discussion and Analysis of Financial Condition and Results of Operations and elsewhere in this report based on the beliefs and assumptions of our management and on information currently available to us. Forward-looking statements include information about our possible or assumed future results of operations, which follow under the headings "Business", "Liquidity and Capital Resources", and other statements throughout this report preceded by, followed by or that include the words "believes", "expects", "anticipates", "intends", "plans", "estimates" or similar expressions.

Any number of risks and uncertainties could cause actual results to differ materially from those we express in our forward-looking statements, including the risks and uncertainties we describe below and other factors we describe from time to time in our periodic filings with the U.S. Securities and Exchange Commission (the "SEC"). We therefore caution you not to rely unduly on any forward-looking statement. The forward-looking statements in this report speak only as of the date of this report, and we undertake no obligation to update or revise any forward-looking statement, whether as a result of new information, future developments, or otherwise.

### Risks and Uncertainties

We are subject to various risks that could have a negative effect on us or on our financial condition. You should understand that these risks could cause results to differ materially from those we express in forward-looking statements contained in this report or in other Company communications. Because there is no way to determine in advance whether, or to what extent, any present uncertainty will ultimately impact our business, you should give equal weight to each of the following:

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### Risks Related to Doing Business in the PRC

We manufacture a majority of our products in our factories in the PRC. Additionally, many of our contract manufacturers are located in the PRC. Doing business in the PRC carries a number of risks including the following: Changes in the policies of the PRC government may have a significant impact upon the business we may be able to conduct in the PRC and the profitability of such business.

Our business operations may be adversely affected by the current and future political environment in the PRC. The government of the PRC has exercised and continues to exercise substantial control over virtually every sector of the Chinese economy, through regulation and state ownership. Our ability to operate in the PRC may be adversely affected by changes in Chinese laws and regulations, including those relating to taxation, labor and social insurance, import and export tariffs, raw materials, environmental regulations, land use rights, property and other matters. The PRC laws and regulations governing our current business operations are sometimes vague and uncertain. Any changes in such PRC laws and regulations may harm our business.

There are substantial uncertainties regarding the interpretation and application of PRC laws and regulations, including but not limited to the laws and regulations governing our business, or the enforcement and performance of our arrangements with customers in the event of the imposition of statutory liens, death, bankruptcy and criminal proceedings. We cannot predict what effect the interpretation of existing or new PRC laws or regulations may have on our business. If the relevant authorities find that we are in violation of PRC laws or regulations, they would have broad discretion in dealing with such a violation, including, without limitation:

- levying fines;
- revoking our business and other licenses;
- requiring that we restructure our ownership or operations; and
- requiring that we discontinue any portion or all of our business.

The fluctuation of the Chinese Yuan Renminbi may harm your investment.

Under Chinese monetary policy, the Chinese Yuan Renminbi is permitted to fluctuate within a managed band against a basket of certain foreign currencies and has resulted in a 16.9% appreciation of the Chinese Yuan Renminbi against the U.S. Dollar through December 31, 2016. While the international reaction to the Chinese Yuan Renminbi revaluation has been positive, there remains international pressure on the PRC government to adopt an even more flexible currency policy, which may result in a further and more significant appreciation of the Chinese Yuan Renminbi against the U.S. Dollar, which could lead to higher manufacturing costs for our products.

The PRC's legal and judicial system may not adequately protect our business and operations and the rights of foreign investors.

The PRC legal and judicial system may negatively impact foreign investors, with enforcement of existing laws inconsistent. In addition, the promulgation of new laws, changes to existing laws and the pre-emption of local regulations by national laws may adversely affect foreign investors.

#### Availability of adequate workforce levels

Presently, the vast majority of workers at our PRC factories are obtained from third-party employment agencies. As the labor laws, social insurance and wage levels continue to mature and grow and the workers become more sophisticated, our costs to employ these and other workers in the PRC may grow beyond that anticipated by management. In addition, as the PRC market continues to open up and grow, with the advent of more companies opening plants and businesses in the PRC, we may experience an increase in competition for the same workers, resulting in either an inability to attract and retain an adequate number of qualified workers or an increase in our employment costs to obtain and retain these workers.

#### Expansion in the PRC

As our global business grows, we may decide to expand in China to meet demand. This would be dependent on our ability to locate suitable facilities to support this expansion, to obtain the necessary permits and funding, to attract and retain adequate levels of qualified workers, and to enter into a long-term land lease that is common in the PRC.

#### Sale of Guangzhou factory

On September 26, 2016, we entered into an agreement to sell our Guangzhou manufacturing facility. The sale is expected to close in 2018. In anticipation of a successful closing of the sale, we have been transitioning manufacturing



activities from this factory to our other three China factories. However, if we are unable to successfully complete this transition as anticipated or are unable to obtain necessary personnel at our other factories, this could have a material adverse effect on our results of operations and

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financial condition. Additionally, if the sale does not close, we may incur unexpected costs associated with an unutilized factory, we may incur additional costs to sell the factory to another buyer, and we may be forced to sell the factory at a less favorable price.

**Risks and Uncertainties Associated with Our Expansion Into and Our Operations Outside of the United States May Adversely Affect Our Results of Operations, Cash Flow, Liquidity or Financial Condition**

Net external sales of our consolidated foreign subsidiaries totaled approximately 41.0%, 43.5% and 55.2% of our total consolidated net sales in 2016, 2015 and 2014, respectively. We expect that the international share of our total revenues will continue to make up a significant part of our current business and future strategic plans. Additionally, we operate factories in the PRC, Brazil and Mexico, as well as an engineering center in India. As a result, we are increasingly exposed to the challenges and risks of doing business outside the United States, which could reduce our revenues or profits, increase our costs, result in significant liabilities or sanctions, or otherwise disrupt our business. These challenges include: (1) compliance with complex and changing laws, regulations and policies of governments that may impact our operations, such as foreign ownership restrictions, import and export controls, tariffs, and trade restrictions; (2) compliance with U.S. and foreign laws that affect the activities of companies abroad, such as anti-corruption laws, competition laws, currency regulations, and laws affecting dealings with certain nations; (3) limitations on our ability to repatriate non-U.S. earnings in a tax effective manner; (4) the difficulties involved in managing an organization doing business in many different countries; (5) uncertainties as to the enforceability of contract and intellectual property rights under local laws; (6) rapid changes in government policy, political or civil unrest in the Middle East and elsewhere, acts of terrorism, or the threat of international boycotts or U.S. anti-boycott legislation; and (7) currency exchange rate fluctuations.

We are also exposed to risks relating to U.S. policy with respect to companies doing business in foreign jurisdictions, particularly in light of the new U.S. presidential administration. Legislation or other changes in the U.S. tax laws could increase our U.S. income tax liability and adversely affect our after-tax profitability. For example, U.S. lawmakers are considering several U.S. corporate tax reform proposals, including, among others, proposals which could reduce or eliminate U.S. income tax deferrals on unrepatriated foreign earnings and eliminate tax incentives in exchange for a lower U.S. statutory tax rate. In addition, the new U.S. presidential administration has introduced greater uncertainty with respect to future tax, trade regulations and trade agreements. Changes in tax policy, trade regulations or trade agreements, such as the disallowance of tax deductions on imported merchandise or the imposition of new tariffs on imported products, could have a material adverse effect on our business and results of operations.

**Failure by Our International Operations to Comply With Anti-Corruption Laws or Trade Sanctions Could Increase Our Costs, Reduce Our Profits, Limit Our Growth, Harm Our Reputation, or Subject us to Broader Liability**

We are subject to restrictions imposed by the U.S. Foreign Corrupt Practices Act and anti-corruption laws and regulations of other countries applicable to our operations. Anti-corruption laws and regulations generally prohibit companies and their intermediaries from making improper payments to government officials or other persons in order to receive or retain business. The compliance programs, internal controls and policies we maintain and enforce to promote compliance with applicable anti-bribery and anti-corruption laws may not prevent our associates, contractors or agents from acting in ways prohibited by these laws and regulations. We are also subject to trade sanctions administered by the Office of Foreign Assets Control and the U.S. Department of Commerce. Our compliance programs and internal controls also may not prevent conduct that is prohibited under these rules. The United States may impose additional sanctions at any time against any country in which or with whom we do business. Depending on the nature of the sanctions imposed, our operations in the relevant country could be restricted or otherwise adversely affected. Any violations of anti-corruption laws and regulations or trade sanctions could result in significant civil and criminal penalties, reduce our profits, disrupt our business or damage our reputation. In addition, an imposition of further restrictions in these areas could increase our cost of operations, reduce our profits or cause us to forgo development opportunities that would otherwise support growth.

**Fluctuations in Foreign Currency Exchange Rates May Adversely Affect Our Results of Operations, Cash Flow, Liquidity or Financial Condition.**

Because of our international operations, we are exposed to risk associated with interest rates and value changes in foreign currencies, which may adversely affect our business. Historically, our reported net sales, earnings, cash flow and financial condition have been subjected to fluctuations in foreign exchange rates. Our primary exchange rate exposure is in the Argentinian Peso, Brazilian Real, British Pound, Chinese Yuan Renminbi, Euro, Hong Kong Dollar, Indian Rupee, Japanese Yen and Mexican Peso. While we actively manage the exposure of our foreign currency risk as part of our overall financial risk management policy, we believe we may experience losses from foreign currency exchange rate fluctuations, and such losses may adversely affect our sales, earnings, cash flow, liquidity or financial condition.

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### Risks Relating to Natural or Man-made Disasters, Contagious Disease, Terrorist Activity, and War May Adversely Affect Our Business, Financial Condition and Results of Operations

Our ability, including manufacturing or distribution capabilities, and that of our suppliers, business partners and contract manufacturers, to make, move and sell products is critical to our success. So called “Acts of God,” such as hurricanes, earthquakes, tsunamis, and other natural disasters, as well as the potential spread of contagious diseases such as MERS (Middle East Respiratory Syndrome), Zika virus, and Ebola in locations where we or they own or operate significant operations could cause a disruption in our or our third party’s production and distribution capabilities or a decline in demand for our products and services. In addition, actual or threatened war, terrorist activity, political unrest, or civil strife, such as recent events in Ukraine and Russia, the Middle East, and other geopolitical uncertainty could have a similar effect. Any one or more of these events may reduce our ability to produce or sell our products which may adversely affect our business, financial condition and results of operations, as well as require additional resources to restore our supply chain.

#### Dependence on Foreign Manufacturing

Although we own and operate factories in the PRC, Brazil and Mexico, third-party manufacturers located in Asia continue to manufacture a portion of our products. Our arrangements with these foreign manufacturers are subject to the risks of doing business abroad, such as tariffs, environmental and trade restrictions, intellectual property protection and enforcement, export license requirements, work stoppages, political and social instability, economic and labor conditions, foreign currency exchange rate fluctuations, changes in laws and policies (including fiscal policies), and other factors, which may have a material adverse effect on our business, results of operations and cash flows. We believe that the loss of any one or more of our manufacturers would not have a long-term material adverse effect on our business, results of operations and cash flows, because numerous other manufacturers are available to fulfill our requirements; however, the loss of any of our major manufacturers may adversely affect our business, operating results, financial condition and cash flows until alternative manufacturing arrangements are secured.

#### Dependence upon Key Suppliers

Most of the components used in our products are available from multiple sources. However, we purchase integrated circuits, used principally in our wireless control products, from a small number of key suppliers. To reduce our dependence on our integrated circuit suppliers we continually seek additional sources. We maintain inventories of our integrated circuits, which may be used in part to mitigate, but not eliminate, delays resulting from supply interruptions.

We have identified alternative sources of supply for our integrated circuit, component parts, and finished goods needs; however, there can be no assurance that we will be able to continue to obtain these inventory purchases on a timely basis. Any extended interruption, shortage or termination in the supply of any of the components used in our products, or a reduction in their quality or reliability, or a significant increase in prices of components, would have an adverse effect on our operating results, financial position and cash flows.

#### Patents, Trademarks, and Copyrights

The procedures by which we identify, document and file for patent, trademark, and copyright protection are based solely on engineering and management judgment, with no assurance that a specific filing will be issued, or if issued, will deliver any lasting value to us. Because of the rapid innovation of products and technologies that is characteristic of our industry, there can be no assurance that rights granted under any patent will provide competitive advantages to us or will be adequate to safeguard and maintain our proprietary rights. Moreover, the laws of certain countries in which our products are or may be manufactured or sold may not offer protection on such products and associated intellectual property to the same extent that the United States legal system may offer.

In our opinion, our intellectual property holdings as well as our engineering, production, and marketing skills and the experience of our personnel are of equal importance to our market position. We further believe that our business is not materially dependent upon any single patent, copyright, trademark, or trade secret.

Some of our products include or use technology and/or components of third parties. While it may be necessary in the future to seek or renew licenses relating to various aspects of such products, we believe that, based upon past experience and industry practice, such licenses may be obtained on commercially reasonable terms; however, there

can be no guarantee that such licenses may be obtained on such terms or at all. Because of technological changes in the wireless and home control industry, current extensive patent coverage, and the rapid rate of issuance of new patents, it is possible certain components of our products and business methods may unknowingly infringe upon the patents of others.

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### Potential for Litigation

As is typical in our industry and for the nature and kind of business in which we are engaged, from time to time various claims, charges and litigation are asserted or commenced by third parties against us or by us against third parties, arising from or related to product liability, infringement of patent or other intellectual property rights, breach of warranty, contractual relations or employee relations. The amounts claimed may be substantial, but they may not bear any reasonable relationship to the merits of the claims or the extent of any real risk of court awards assessed against us or in our favor.

### Technology Changes in Wireless Control

We currently derive substantial revenue from the sale of wireless remote controls based on IR and RF and other technologies. Other control technologies exist or may be developed that may compete with this technology. In addition, we develop and maintain our own database of IR and RF codes. There are competing IR and RF libraries offered by companies that we compete with in the marketplace. The advantage that we may have compared to our competitors is difficult to measure. In addition, if other wireless control technology gains acceptance and starts to be integrated into home electronics devices currently controlled through our remote controllers, demand for our products may decrease, resulting in decreased operating results, financial condition, and cash flows.

### Our Technology Development Activities May Experience Delays.

We may experience technical, financial, resource or other difficulties or delays related to the further development of our technologies. Delays may have adverse financial effects and may allow competitors with comparable technology offerings to gain an advantage over us in the marketplace or in the standards setting arena. There can be no assurance that we will continue to have adequate staffing or that our development efforts will ultimately be successful.

Moreover, certain of our technologies have not been fully tested in commercial use, and it is possible that they may not perform as expected. In such cases, our business, financial condition and operating results may be adversely affected, and our ability to secure new licensees and other business opportunities may be diminished.

### Change in Competition and Pricing

Even with having our own factories located in the PRC, Brazil and Mexico, we will continue to rely on third-party manufacturers to build a portion of our universal wireless control products. Price is always an issue in winning and retaining business. If customers become increasingly price sensitive, new competition may arise from manufacturers who decide to go into direct competition with us or from current competitors who perform their own manufacturing. If such a trend develops, we may experience downward pressure on our pricing or lose sales, which may have a material adverse effect on our operating results, financial condition and cash flows.

### Risks Related to Adverse Changes in General Business and Economic Conditions

Adverse changes in general business and economic conditions in the United States and worldwide may reduce the demand for some of our products and adversely affect our results of operations, cash flow, liquidity or financial condition. Higher inflation rates, interest rates, tax rates and unemployment rates, higher labor and health care costs, recessions, changing governmental policies, laws and regulations, increased tariffs, and other economic factors may adversely affect our results of operations, cash flow, liquidity or financial condition. Any such changes may impact our business in a number of ways, including:

Potential deferment of purchases and orders by customers and cyclical nature of portions of our business

Uncertainty about current and future global economic conditions may cause consumers, businesses and governments to defer purchases in response to tighter credit, decreased cash availability and declining consumer confidence.

Accordingly, future demand for our products may differ materially from our current expectations.

In addition, portions of our business involve the sale of products to sectors of the economy that are cyclical in nature, particularly the retail sector. Our sales to these sectors are affected by the levels of discretionary consumer and business spending. During economic downturns, the levels of consumer and business discretionary spending in these sectors may decrease, and the recovery of these sectors may lag behind the recovery of the overall economy. This decrease in spending will likely reduce the demand for some of our products and may adversely affect our sales, earnings, cash flow or financial condition. Although many of our end markets have shown signs of stabilization and modest improvement from the recent global economic downturn, the recovery has been erratic. A worsening in these sectors may cause a reduction in the demand for some of our products and may adversely impact sales, earnings, cash

flow and financial condition.

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Customers' inability to obtain financing to make purchases from us and/or maintain their business

Some of our customers require substantial financing in order to fund their operations and make purchases from us. The inability of these customers to obtain sufficient credit to finance purchases of our products may adversely impact our financial results. In addition, an economic downturn could result in insolvencies for our customers, which may adversely impact our financial results.

Potential impact on trade receivables

Credit market conditions may slow our collection efforts as customers experience increased difficulty in obtaining requisite financing, leading to higher than normal accounts receivable balances and longer days sales outstanding. Continuation of these conditions may limit our ability to collect our accounts receivable, which may result in greater expense associated with collection efforts and increased bad debt expense.

Negative impact from increased financial pressures on third-party dealers, distributors and retailers

We make sales in certain regions of the world through third-party dealers, distributors and retailers. Although many of these third parties have significant operations and maintain access to available credit, others are smaller and more likely to be impacted by a significant decrease in available credit. If credit pressures or other financial difficulties result in insolvency for these third parties and we are unable to successfully transition our end customers to purchase products from other third parties or from us directly, it may adversely impact our financial results.

Negative impact from increased financial pressures on key suppliers

Our ability to meet customers' demands depends, in part, on our ability to obtain timely and adequate delivery of quality materials, parts and components from our suppliers. Certain of our components are available only from a single source or limited sources. If certain key suppliers were to become capacity constrained or insolvent as a result of an economic downturn, it may result in a reduction or interruption in supplies or a significant increase in the price of supplies and adversely impact our financial results. In addition, credit constraints at key suppliers may result in accelerated payment of accounts payable by us, impacting our cash flow.

Potential Fluctuations in Quarterly Results

We may from time to time increase our operating expenses to fund greater levels of research and development, sales and marketing activities, development of new distribution channels, improvements in our operational and financial systems and development of our customer support capabilities, and to support our efforts to comply with various government regulations. To the extent such expenses precede or are not subsequently followed by increased revenues, our business, operating results, financial condition and cash flows will be adversely affected.

In addition, we may experience significant fluctuations in future quarterly operating results that may be caused by many other factors, including demand for our products, introduction or enhancement of products by us and our competitors, the loss or acquisition of any significant customers, market acceptance of new products, price reductions by us or our competitors, mix of distribution channels through which our products are sold, product or supply constraints, level of product returns, mix of customers and products sold, component pricing, mix of international and domestic revenues, foreign currency exchange rate fluctuations and general economic conditions. In addition, as a strategic response to changes in the competitive environment, we may from time to time make certain pricing or marketing decisions or acquisitions that may have a material adverse effect on our business, results of operations or financial condition. As a result, we believe period-to-period comparisons of our results of operations are not necessarily meaningful and should not be relied upon as an indication of future performance.

Due to all of the foregoing factors, it is possible that in some future quarters our operating results will be below the expectations of public market analysts and investors. If this happens the price of our common stock may be materially adversely affected.

**Our Ability to Generate Cash Depends on Many Factors Beyond Our Control. We Also Depend on the Business of Our Subsidiaries to Satisfy Our Cash Needs.**

Our historical financial results have been, and we anticipate that our future financial results will be, subject to fluctuations. Our ability to generate cash is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond our control. We cannot assure you that our business will generate sufficient cash flow from our operations or that future borrowings will be available to us in an amount sufficient to enable us to make payments of our debt, fund our other liquidity needs and make planned capital expenditures.



A significant portion of our operations are conducted through our subsidiaries. As a result, our ability to generate sufficient cash flow for our needs is dependent to some extent on the earnings of our subsidiaries and the payment of those earnings to us in the form of dividends, loans or advances and through repayment of loans or advances from us. Our subsidiaries are separate and distinct legal entities. Our subsidiaries have no obligation to pay any amounts due on our debt or to provide us with funds to meet

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our cash flow needs, whether in the form of dividends, distributions, loans or other payments. In addition, any payment of dividends, loans or advances by our subsidiaries may be subject to statutory or contractual restrictions. Payments to us by our subsidiaries will also be contingent upon our subsidiaries' earnings and business considerations. Our right to receive any assets of any of our subsidiaries upon their liquidation or reorganization will be effectively subordinated to the claims of that subsidiary's creditors, including trade creditors. In addition, even if we are a creditor of any of our subsidiaries, our rights as a creditor would be subordinate to any security interest in the assets of our subsidiaries and any indebtedness of our subsidiaries senior to that held by us. Further, changes in the laws of foreign jurisdictions in which we operate may adversely affect the ability of some of our foreign subsidiaries to repatriate funds to us.

In addition, we may fund a portion of our seasonal working capital needs and obtain funding for other general corporate purposes through short-term borrowings backed by our revolving credit facility and other financing facilities. If any of the banks in these credit and financing facilities are unable to perform on their commitments, which may adversely affect our ability to fund seasonal working capital needs and obtain funding for other general corporate purposes, our cash flow, liquidity or financial condition may be adversely impacted. Although we currently have available credit facilities to fund our current operating needs, we cannot be certain that we will be able to replace our existing credit facilities or refinance our existing or future debt when necessary. Our cost of borrowing and ability to access the capital markets are affected not only by market conditions, but also by our debt and credit ratings assigned by the major credit rating agencies. Downgrades in these ratings will increase our cost of borrowing and may have an adverse effect on our access to the capital markets, including our access to the commercial paper market. An inability to access the capital markets may have a material adverse effect on our results of operations, cash flow, liquidity or financial condition.

**The Price of Our Common Stock is Volatile and May Decline Regardless of Our Operating Performance.**

Historically, we have had large fluctuations in the price of our common stock, and such fluctuations may continue. From January 1, 2012 to March 6, 2017, the trading price of our common stock has ranged from a low of \$11.40 per share to a high of \$80.42 per share. The market price for our common stock is volatile and may fluctuate significantly in response to a number of factors, most of which we cannot control, including:

- the public's response to press releases or other public announcements by us or third parties, including our filings with the SEC and announcements relating to product and technology development, relationships with new and existing customers, litigation and other legal proceedings in which we are involved and intellectual property impacting us or our business;

- announcements concerning strategic transactions, such as spin-offs, joint ventures and acquisitions or divestitures;
- the financial projections we may provide to the public, any changes in these projections or our failure to meet these projections;

- changes in financial estimates or ratings by any securities analysts who follow our common stock, our failure to meet these estimates or failure of those analysts to initiate or maintain coverage of our common stock;

- investor perceptions as to the likelihood of achievement of near-term goals;

- changes in market share of significant customers;

- changes in operating performance and stock market valuations of other technology or content providing companies generally; and

- market conditions or trends in our industry or the economy as a whole.

In the past, stockholders have instituted securities class action litigation following periods of market volatility. If we were involved in securities litigation, we may incur substantial costs and our resources and the attention of management may be diverted from our business.

In addition, our executive officers periodically sell shares of our common stock which they own, often pursuant to trading plans established under Rule 10b5-1 of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Sales of shares by our executive officers may not be indicative of their respective opinions of our performance at the time of sale or of our potential future performance. Nonetheless, the market price of our stock may be affected by such sales of shares by our executive officers.

If Securities or Industry Analysts Fail to Continue Publishing Research About Our Business, Our Stock Price and Trading Volume May Decline.

The trading market for our common stock is influenced by the research and reports that industry or securities analysts publish about us or our business. If one or more of these analysts cease coverage of our company or fail to publish reports on us regularly, we may lose visibility in the financial markets, which in turn may cause our stock price or trading volume to decline.

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### Future Sales of Our Equity May Depress the Market Price of Our Common Stock.

We have several institutional stockholders that own significant blocks of our common stock. If one or more of these stockholders were to sell large portions of their holdings in a relatively short time, for liquidity or other reasons, the prevailing market price of our common stock may be negatively affected. Additionally, in March 2016, we issued common stock purchase warrants to Comcast Corporation ("Comcast") to purchase up to 725,000 shares of our common stock at a price of \$54.55 per share. The right to exercise the warrants is subject to vesting over three successive two-year periods (with the first two-year period commencing on January 1, 2016) based on the level of purchases of goods and services from us by Comcast and its affiliates, as defined in the warrants. To the extent that the warrants vest and Comcast exercises the warrants and sells any of the shares of common stock issuable upon exercise, or the perception that such sales may occur, could adversely affect the market price of our common stock.

### Approved Stock Repurchase Programs May Not Result in a Positive Return of Capital to Stockholders.

Our board-approved stock repurchase programs may not return value to stockholders because the market price of the stock may decline significantly below the levels at which we repurchased shares of stock. Stock repurchase programs are intended to deliver stockholder value over the long term, but stock price fluctuations can reduce the effectiveness of such programs.

### Dependence on Consumer Preference

We are susceptible to fluctuations in our business based upon consumer demand for our products. In addition, we cannot guarantee that increases in demand for our products associated with increases in the deployment of new technology will continue. We believe that our success depends on our ability to anticipate, gauge and respond to fluctuations in consumer preferences. However, it is impossible to predict with complete accuracy the occurrence and effect of fluctuations in consumer demand over a product's life cycle. Moreover, any growth in revenues that we achieve may be transitory and should not be relied upon as an indication of future performance.

### Demand for Consumer Service and Support

We have continually provided domestic and international consumer service and support to our customers to add overall value and to help differentiate us from our competitors. We continually review our service and support group and are marketing our expertise in this area to other potential customers. There can be no assurance that we will be able to attract new customers in the future.

In addition, certain of our products have more features and are more complex than others and therefore require more end-user technical support. In some instances, we rely on distributors or dealers to provide the initial level of technical support to the end-users. We provide the second level of technical support for bug fixes and other issues at no additional charge. Therefore, as the mix of our products includes more of these complex product lines, support costs may increase, which may have an adverse effect on our business, operating results, financial condition and cash flows.

### Dependence upon New Product Introduction

Our ability to remain competitive in the wireless control and AV accessory products market will depend considerably upon our ability to successfully identify new product opportunities, as well as develop and introduce these products and enhancements on a timely and cost effective basis. There can be no assurance that we will be successful at developing and marketing new products or enhancing our existing products, or that these new or enhanced products will achieve consumer acceptance and, if achieved, will sustain that acceptance. In addition, there can be no assurance that products developed by others will not render our products non-competitive or obsolete or that we will be able to obtain or maintain the rights to use proprietary technologies developed by others which are incorporated in our products. Any failure to anticipate or respond adequately to technological developments and customer requirements, or any significant delays in product development or introduction, may have a material adverse effect on our operating results, financial condition and cash flows.

In addition, the introduction of new products may require significant expenditures for research and development, tooling, manufacturing processes, inventory and marketing. In order to achieve high volume production of any new product, we may have to make substantial investments in inventory and expand our production capabilities.

### Dependence on Major Customers

The economic strength and weakness of our worldwide customers affect our performance. We sell our wireless control products, AV accessory products, and proprietary technologies to subscription broadcasters, original

equipment manufacturers, retailers and private label customers. We also supply our products to our wholly owned, non-U.S. subsidiaries and to independent foreign distributors, who in turn distribute our products worldwide, with Europe, Asia and Latin America currently representing our principal foreign markets.

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During the years ended December 31, 2016 and 2015, we had sales in excess of 10% of our net sales to each of Comcast and DIRECTV and its sub-contractors. During the year ended December 31, 2014, we had sales to DIRECTV and its sub-contractors that totaled in excess of 10% of our net sales. The loss of any of these customers or of any other key customer, either in the United States or abroad or our inability to maintain order volume with these customers, may have an adverse effect on our operating results, financial condition and cash flows.

### **Outsourced Labor**

We continue to use outside resources to assist us in the development of some of our products and technologies. While we believe that such outside services will continue to be available to us, if they cease to be available, the development of these products and technologies may be substantially delayed, which may have a material adverse effect on our operating results, financial condition and cash flows.

### **Disruptions Caused by Labor Disputes or Organized Labor Activities Could Materially Harm our Business and Reputation**

Currently, approximately 400 of our Brazil and Mexico employees are represented by labor unions. Disputes with the current labor unions or new union organizing activities could lead to production slowdowns or stoppages and make it difficult or impossible for us to meet scheduled delivery times for product shipments to some of our customers, which could result in a loss of business and material damage to our reputation. In addition, union activity and compliance with international labor standards could result in higher labor costs, which could have a material adverse effect on our financial position and results of operations.

### **Competition**

Competition within the wireless control industry is based primarily on product availability, price, speed of delivery, ability to tailor specific solutions to customer needs, quality, and depth of product lines. Our competition is fragmented across our products, and, accordingly, we do not compete with any one company across all product lines. We compete with a variety of entities, some of which have greater financial resources. Other competitors are smaller and may be able to offer more specialized products. Our ability to remain competitive in this industry depends in part on our ability to successfully identify new product opportunities, develop and introduce new products and enhancements on a timely and cost effective basis, as well as our ability to successfully identify and enter into strategic alliances with entities doing business within the industries we serve. Competition in any of these areas may reduce our sales and adversely affect our earnings or cash flow by resulting in decreased sales volumes, reduced prices and increased costs of manufacturing, distributing and selling our products. There can be no assurance that our product offerings will be, and/or will remain, competitive or that strategic alliances, if any, will achieve the type, extent, and amount of success or business that we expect them to achieve. The sales of our products and technology may not occur or grow in the manner we expect, and thus we may not recoup costs incurred in the research and development of these products as quickly as we expect, if at all.

The home security and automation industry is highly fragmented and subject to significant competition and pricing pressures. In particular, the monitored security industry providers have highly recognized brands which may drive increased awareness of their security/automation offerings rather than ours, have access to greater capital and resources than us, and may spend significantly more on advertising, marketing and promotional resources which could have a material adverse effect on our ability to drive awareness and demand for our products and services. In addition, cable and telecommunications companies have expanded into the monitored security industry and are bundling their existing offerings with monitored security services. We also face competition from Do-It-Yourself (DIY) companies that are increasingly provided products which enable customers to self-monitor and control their environments without third-party involvement. Further, DIY providers may also offer professional monitoring with the purchase of their systems and equipment or new IoT devices and services with automated features and capabilities that may be appealing to customers. Continued pricing pressure, improvements in technology and shifts in customer preferences towards self-monitoring or DIY could adversely impact our customer base and/or pricing structure and have a material adverse effect on our business, financial condition, results of operations and cash flows.

**We are Exposed to Greater Risks of Liability for Omissions or System Failures**

If a customer or third party believes that he or she has suffered harm to person or property due to an actual or alleged security system failure, he or she (or their insurers) may pursue legal action against us, and the cost of defending the legal action and of any judgment against us could be substantial. In particular, because our products and services are intended to help protect lives and real and personal property, we may have greater exposure to litigation risks than businesses that provide other consumer and small business products and services. While our customer contracts contain a series of risk-mitigation provisions that are aimed at limiting our liability and/or limiting a claimant's ability to pursue legal action against us, in the event of litigation with respect to such matters it is possible that these risk-mitigation provisions may be deemed not applicable or unenforceable and, regardless of the ultimate outcome, we may incur significant costs of defense that could materially and adversely affect our business, financial condition, results of operations and cash flows.

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### Our Brand Quality and Reputation

Our business depends on the quality and reputation of our brands, and any deterioration in the quality or reputation of these brands may have an adverse impact on our market share, reputation, business, financial condition or results of operations. Events that may be beyond our control may affect the reputation of one or more of our products or more generally impact the reputation of our brands. If the reputation or perceived quality of our brands declines, our market share, reputation, business, financial condition or results of operations may be affected.

### Unanticipated Changes in Tax and Other Laws and Regulations

Our business is subject to regulation under a wide variety of laws, regulations and policies in jurisdictions around the world. In response to continued economic challenges, we anticipate that many of the jurisdictions in which we do business will continue to review tax and other revenue raising laws, regulations and policies, and any resulting changes may impose new restrictions, costs or prohibitions on our current practices and reduce our profits. In particular, governments may revise tax laws, regulations or official interpretations in ways that may have a significant impact on us, including modifications that may reduce the profits that we can effectively realize from our non-U.S. operations, or that may require costly changes to those operations, or the way in which they are structured. For example, most U.S. company effective tax rates reflect the fact that income earned and reinvested outside the United States is generally taxed at local rates, which are often much lower than U.S. tax rates. If changes in tax laws, regulations or interpretations significantly increase the tax rates on non-U.S. income, our effective tax rate may increase and our profits may be reduced. If such increases resulted from our status as a U.S. company, those changes may place us at a disadvantage to our non-U.S. competitors if those competitors remain subject to lower local tax rates.

In addition, from time to time, we are subject to tax audits in various jurisdictions. Tax authorities may disagree with our intercompany charges or other matters and assess additional taxes. We assess the likely outcomes of these audits in order to determine the appropriateness of the tax provision. However, there can be no assurance that we will accurately predict the outcomes of these audits, and the actual outcomes of these audits may have a material impact on our financial condition, results of operations and cash flows. In addition, our effective tax rate in the future may be adversely affected by changes in the mix of earnings in countries with differing statutory tax rates, changes in the valuation of deferred tax assets and liabilities, changes in tax laws and the discovery of new information in the course of our tax return preparation process. Furthermore, our tax provisions may be adversely affected as a result of any new interpretative accounting guidance related to accounting for uncertain tax positions.

### Environmental Matters

Many of our products are subject to various federal, state, local and international laws governing chemical substances in products, including laws regulating the manufacture and distribution of chemical substances and restricting the presence of certain substances in electronics products. In addition, many of these laws and regulations make producers of electrical goods responsible for collection, recycling, treatment and disposal of recovered products. As a result, we may face significant costs and liabilities in complying with these laws and any future laws and regulations or enforcement policies that may have a material adverse effect upon our operating results, financial condition, and cash flows.

### Leased Property

We lease all of the properties used in our business. We can give no assurance that we will enter into new or renewal leases, or that, if entered into, the new lease terms will be similar to the existing terms or that the terms of any such new or renewal leases will not have a significant and material adverse effect on our operating results, financial condition and cash flows.

### Failure to Recruit, Hire, and Retain Key Personnel

Our ability to achieve growth in the future will depend, in part, on our success at recruiting, hiring, training, developing and retaining highly skilled engineering, managerial, operational, sales and marketing personnel. If our salary and benefits fail to stay competitive it may negatively impact our ability to hire and retain key personnel and we may experience low morale, inefficiency or internal control failures. The inability to recruit, hire, train, develop and retain qualified personnel, or the loss of any key personnel, may make it difficult to meet key objectives, such as



timely and effective product introductions, and also limit our ability to grow and expand our business.

**Transportation Costs, Tariffs, and Impact of Oil Prices**

We ship products from our factories and foreign manufacturers via ocean and air transport. It is sometimes difficult to forecast swings in demand or delays in production and, as a result, products may be shipped via air which is more costly than ocean shipments. We typically cannot recover the increased cost of air freight from our customers.

Additionally, tariffs and other export

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fees may be incurred to ship products from foreign manufacturers to the customer. The inability to predict swings in demand or delays in production may increase the cost of freight which may have a material adverse effect on our product margins.

In addition, we have an exposure to oil prices in two forms. The first is in the prices of oil-based materials in our products, which are primarily the plastics and other components that we include in our finished products. The second is in the cost of delivery and freight, which would be passed on by the carriers that we use in the form of higher rates. We record freight-in as a cost of sales and freight-out in operating expenses. Rising oil prices may have an adverse effect on cost of sales and operating expenses.

### Proprietary Technologies

We produce highly complex products that incorporate leading-edge technology, including hardware, firmware, and software. Firmware and software may contain bugs that may unexpectedly interfere with product operation. There can be no assurance that our testing programs will detect all defects in individual products or defects that may affect numerous shipments. The presence of defects may harm customer satisfaction, reduce sales opportunities, or increase returns. An inability to cure or repair such a defect may result in the failure of a product line, temporary or permanent withdrawal from a product or market, damage to our reputation, increased inventory costs, or product re-engineering expenses, any of which may have a material impact on our operating results, financial condition and cash flows.

### Strategic Business Transactions

We may, from time to time, pursue strategic alliances, joint ventures, business acquisitions, products or technologies ("strategic business transactions") that complement or expand our existing operations, including those that may be material in size and scope. Strategic business transactions involve many risks, including the diversion of management's attention away from day-to-day operations. There is also the risk that we will not be able to successfully integrate the strategic business transaction with our operations, personnel, customer base, products or technologies. Such strategic business transactions may also have adverse short-term effects on our operating results, and may result in dilutive issuances of equity securities, the incurrence of debt, and the loss of key employees. In addition, these strategic business transactions are subject to specific accounting guidelines that may adversely affect our financial condition, results of operations and cash flow.

### Growth Projections

Management has made projections required for the preparation of financial statements in conformity with accounting principles generally accepted in the United States ("GAAP") regarding future events and the financial performance of the company, including those involving:

- the benefits the company expects as a result of the development and success of products and technologies, including new products and technologies;
- the benefits expected by conducting business in Asian and Brazilian markets, without which, we may not be able to recover the costs we incur to enter into such markets;
- new contracts with new and existing customers and new market penetrations;
- the expected continued adoption of the company's technologies in gaming consoles and mobile devices;
- the expected continued growth in digital TVs, DVRs, PVRs and overall growth in the company's industry; and
- the effects we may experience due to current global and regional economic conditions.

Actual events or results may be unfavorable to management's projections, which may have a material adverse effect on our projected operating results, financial condition and cash flows.

Additionally, we have goodwill and intangible assets recorded on our balance sheet. We periodically evaluate the recoverability of the carrying value of our goodwill and intangible assets whenever events or changes in circumstances indicate that such value may not be recoverable. Impairment assessment involves judgment as to assumptions regarding future sales and cash flows and the impact of market conditions on those assumptions. Future events and changing market conditions may impact our assumptions and may result in changes in our estimates of future sales and cash flows that may result in us incurring substantial impairment charges, which would adversely affect our results of operations or financial condition.

Market Projections and Data are Forward-looking in Nature.

Our strategy is based on our own projections and on analyst, industry observer and expert projections, which are forward-looking in nature and are inherently subject to risks and uncertainties. The validity of their and our assumptions, the timing and scope of the markets within which we compete, economic conditions, customer buying patterns, the timeliness of equipment development, pricing of products, and availability of capital for infrastructure improvements may affect these predictions. In addition, market

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data upon which we rely is based on third party reports that may be inaccurate. The inaccuracy of any of these projections and/or market data may adversely affect our operating results and financial condition.

Cybersecurity Issues: Failure to Maintain the Integrity of and Protect Internal or Customer Data May Result in Faulty Business Decisions, Operational Inefficiencies, Damage to our Reputation and/or Subject Us to Costs, Fines, or Lawsuits

Our business requires collection and retention of large volumes of internal and customer data, including personally identifiable information of our customers in various information systems that we maintain and in those maintained by third parties with whom we contract to provide services, including in areas such as customer product servicing, human resources outsourcing, website hosting, and various forms of electronic communications. We and third parties who provide services to us also maintain personally identifiable information about our employees. The integrity and protection of that customer, employee, and company data is critical to us. If that data is inaccurate or incomplete, we may make faulty decisions. Our customers and employees also have a high expectation that we and our service providers will adequately protect their personal information. The information, security and privacy requirements imposed by governmental regulation is also increasingly demanding, in both the United States and other jurisdictions where we operate. Our systems and those of our service providers may be unable to satisfy these changing requirements and employee and customer expectations, or may require significant additional investments or time in order to do so. Efforts to hack or breach security measures, failures of systems or software to operate as designed or intended, viruses, operator error, or inadvertent releases of data may materially impact our and our service providers' information systems and records. Our reliance on computer, Internet-based and mobile systems and communications and the frequency and sophistication of efforts by hackers to gain unauthorized access to such systems have increased significantly in recent years. A significant theft, loss, or fraudulent use of customer, employee, or company data maintained by us or by a service provider could adversely impact our reputation, cause harm to our business generally, and could result in remedial and other expenses, fines, or litigation. Breaches in the security of our information systems or those of our service providers or other disruptions in data services could lead to an interruption in the operation of our systems, resulting in a loss of data, operational inefficiencies and a loss of profits.

Effectiveness of Our Internal Control Over Financial Reporting

Pursuant to Section 404 of the Sarbanes-Oxley Act of 2002, we are required to include in our Annual Report on Form 10-K our assessment of the effectiveness of our internal control over financial reporting. Furthermore, our independent registered public accounting firm is required to audit our internal control over financial reporting and separately report on whether it believes we maintain, in all material respects, effective internal control over financial reporting. Although we believe that we currently have adequate internal control procedures in place, we cannot be certain that future material changes to our internal control over financial reporting will be effective. Additionally, in 2016 we began implementing a new global ERP system which will start to impact our internal controls in 2017 as we begin the process of going live with this new system regionally in phases beginning in early 2017. If we cannot adequately maintain the effectiveness of our internal control over financial reporting, we may be subject to sanctions or investigation by regulatory authorities, such as the SEC. Any such action may adversely affect our financial results and the market price of our common stock.

Delaware Law and Our Governing Corporate Documents Contain, and Our Board of Directors May Implement, Antitakeover Provisions that May Deter Takeover Attempts

Under the Delaware business combination statute, a stockholder holding 15 percent or more of our outstanding voting stock may not acquire us without Board of Director consent for at least three years after the date the stockholder first held 15 percent or more of the voting stock. Our governing corporate documents also, among other things, require super-majority votes in connection with mergers and similar transactions. In addition, our Board of Directors may, without stockholder approval, implement other anti-takeover defenses, such as a stockholder's rights plan.

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Regulations Related to the Use of Conflict-Free Minerals May Increase Our Costs and Expenses, and an Inability to Certify that Our Products are Conflict-Free May Adversely Affect Customer Relationships

The Dodd-Frank Wall Street Reform and Consumer Protection Act contains provisions to improve the transparency and accountability of the use by public companies in their products of minerals mined in certain countries and to prevent the sourcing of such "conflict" minerals. As a result, the SEC enacted new annual disclosure and reporting requirements for public companies that use these minerals in their products, which apply to us. Under the final rules, we are required to conduct due diligence to determine the source of any conflict minerals used in our products and to make annual disclosures in filings with the SEC. Because our supply chain is broad-based and complex, we may not be able to easily verify the origins for all minerals used in our products. In addition, the new rules may reduce the number of suppliers who provide components and products containing conflict-free minerals and thus may increase the cost of the components used in manufacturing our products and the costs of our products to us. Any increased costs and expenses may have a material adverse impact on our financial condition and results of operations. Further, if we are unable to certify that our products are conflict free, we may face challenges with our customers, which may place us at a competitive disadvantage, and our reputation may be harmed.

We are Subject to a Wide Variety of Complex Domestic and Foreign Laws and Regulations.

We are subject to a wide variety of complex domestic and foreign laws and regulations, and legal compliance risks, including securities laws, tax laws, employment and pension-related laws, competition laws, U.S. and foreign export and trading laws, and laws governing improper business practices. We are affected by new laws and regulations, and changes to existing laws and regulations, including interpretations by courts and regulators. From time to time, our Company, our operations and the industries in which we operate are being reviewed or investigated by regulators, which may lead to enforcement actions or the assertion of private litigation claims and damages.

Although we believe that we have adopted appropriate risk management and compliance programs to mitigate these risks, the global and diverse nature of our operations means that compliance risks will continue to exist.

Investigations, examinations and other proceedings, the nature and outcome of which cannot be predicted, will likely arise from time to time. These investigations, examinations and other proceedings may subject us to significant liability and require us to make significant accruals or pay significant settlements, fines and penalties, which may have a material adverse effect on our results of operations, cash flow or financial condition.

We are Required to Comply with Numerous Complex and Increasingly Stringent Domestic and Foreign Health, Safety and Environmental Laws and Regulations, the Cost of Which is Likely to Increase.

Our operations are subject to various domestic and foreign health, safety and environmental laws and regulations. These laws and regulations not only govern our current operations and products, but also impose potential liability on us for our past operations. We expect health, safety and environmental laws and regulations to impose increasingly stringent requirements upon our industry and us in the future. Our costs to comply with these laws and regulations may increase as these requirements become more stringent in the future, and these increased costs may adversely affect our results of operations, cash flow or financial condition.

Changes in Financial Accounting Standards or Policies May Affect Our Reported Financial Condition or Results of Operations.

From time to time the Financial Accounting Standards Board (the "FASB") and the SEC change their guidance governing the form and content of our external financial statements. In addition, accounting standard setters and those who interpret GAAP, such as the FASB and the SEC may change or even reverse their previous interpretations or positions with regard to how these standards should be applied. A change in accounting principles or their interpretation can have a significant effect on our reported results. In certain cases, the company may be required to apply new or revised guidance retroactively or apply existing guidance differently. For example, in May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers", which may impact the timing of revenue recognition for new and existing contracts with customers. This and other potential changes in reporting standards may substantially change our reporting practices in a number of areas, including revenue recognition and recording of assets and liabilities, and affect our reported financial condition or results of operations.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.



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## ITEM 2. PROPERTIES

Our global headquarters is located in Santa Ana, California. We utilize the following facilities:

Location	Purpose or Use	Square Feet	Status
Santa Ana, California	Corporate headquarters, engineering, research and development	36,184	Leased, expires October 31, 2022
Twinsburg, Ohio	Call center	21,509	Leased, expires December 31, 2017
Carlsbad, California	Engineering, research and development	27,141	Leased, expires November 30, 2017
San Mateo, California	Engineering, research and development	5,826	Leased, expires December 31, 2022
Enschede, Netherlands	European headquarters and call center	19,137	Leased, expires February 28, 2019
Bangalore, India	Engineering, research and development	21,326	Leased, expires March 31, 2017
Hong Kong, PRC	Asian headquarters	12,000	Leased, expires June 30, 2019
Suzhou, PRC	Engineering, research and development	4,908	Leased, expires December 31, 2018
Yangzhou, PRC <sup>(1)</sup>	Manufacturing facility	1,204,697	Land leased, expires July 31, 2055
Yangzhou, PRC	Manufacturing facility	77,888	Leased, expires October 31, 2025
Guangzhou, PRC <sup>(1)</sup> <sup>(2)</sup>	Manufacturing facility	710,203	Land leased, expires June 30, 2044
Qinzhou, PRC	Manufacturing facility	321,313	Leased, expires May 31, 2018
Manaus, Brazil	Manufacturing facility	56,657	Leased, expires August 19, 2018
Monterrey, Mexico	Manufacturing facility	50,000	Leased, expires March 31, 2019

Private ownership of land in mainland PRC is not allowed. All land in the PRC is owned by the government and <sup>(1)</sup> cannot be sold to any individual or entity. These facilities were developed on land which we lease from the PRC government.

As discussed in "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA - Notes to

<sup>(2)</sup> Consolidated Financial Statements - Note 13", this facility is subject to a pending sale that is expected to close in 2018.

In addition to the facilities listed above, we lease space in various international locations, primarily for use as sales offices.

Upon expiration of our facilities leases, we believe we will obtain lease agreements under similar terms; however, there can be no assurance that we will receive similar terms or that any offer to renew will be accepted.

See "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 12" for additional information regarding our obligations under leases.

## ITEM 3. LEGAL PROCEEDINGS

We are subject to lawsuits arising out of the conduct of our business. The discussion of our litigation matters in "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 13" is incorporated by reference.

## ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

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## PART II

## ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock trades on the NASDAQ Global Select Market under the symbol UEIC. The closing price of our common stock as reported by NASDAQ on March 6, 2017 was \$68.30. Our stockholders of record on March 6, 2017 numbered 110. We have never paid cash dividends on our common stock, nor do we currently intend to pay any cash dividends on our common stock in the foreseeable future. We intend to retain our earnings, if any, for the future operation and expansion of our business.

The following table sets forth, for the periods indicated, the high and low sale prices for our common stock, as reported by NASDAQ:

	2016		2015	
	High	Low	High	Low
First Quarter	\$65.81	\$45.20	\$66.75	\$54.03
Second Quarter	72.31	58.97	58.98	48.81
Third Quarter	80.42	70.02	52.55	41.61
Fourth Quarter	75.20	52.90	53.67	40.28

## Purchases of Equity Securities

The following table sets forth, for the fourth quarter, our total stock repurchases, average price paid per share and the maximum number of shares that may yet be purchased under our plans or programs:

Period	Total Number of Shares Purchased <sup>(1)</sup>	Weighted Average Price Paid per Share <sup>(2)</sup>	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Maximum Number of Shares that May Yet Be Purchased Under the Plans or Programs <sup>(3)</sup>
October 1, 2016 - October 31, 2016	—	\$ —	—	500,000
November 1, 2016 - November 30, 2016	109,134	66.48	106,354	393,646
December 1, 2016 - December 31, 2016	49,154	65.19	23,081	370,565
Total	158,288	\$ 66.08	129,435	370,565

Of the repurchases in November and December, 2,780 and 26,073 shares, respectively, represent common shares <sup>(1)</sup> of the Company that were owned and tendered by employees to satisfy tax withholding obligations in connection with the vesting of restricted shares.

<sup>(2)</sup> For shares tendered in connection with the vesting of restricted shares, the average price paid per share is an average calculated using the daily high and low of the Company's common stock at the time of vesting.

On November 3, 2016, the Company announced that it may purchase shares from time to time in open market <sup>(3)</sup> purchases or privately negotiated transactions. The Company may make all or part of the purchases pursuant to accelerated share repurchases or Rule 10b5-1 plans.

During the year ended December 31, 2016, we repurchased 197,819 shares of our issued and outstanding common stock for \$12.6 million under the ongoing and systematic programs approved by our Board of Directors. We make stock repurchases to manage the dilution created by shares issued under our stock incentive plans or when we deem a repurchase is a good use of our cash and the price to be paid is at or below a threshold approved by our Board from time to time. On December 31, 2016, we had 370,565 shares available for repurchase under the Board's authorizations.

## Equity Compensation Plans

Information regarding our equity compensation plans, including both stockholder approved plans and plans not approved by stockholders, is incorporated by reference to "ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS" under the caption "Equity Compensation Plan Information" and "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 16".

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## Performance Chart

The following graph and table compares the cumulative total stockholder return with respect to our common stock versus the cumulative total return of the Standard & Poor's Small Cap 600 (the "S&P Small Cap 600"), the NASDAQ Composite Index, and the Peer Group Index for the five year period ended December 31, 2016. The comparison assumes that \$100 was invested on December 31, 2011 in each of our common stock, S&P Small Cap 600, the NASDAQ Composite Index, and the Peer Group Index and that all dividends were reinvested. We have not paid any dividends and, therefore, our cumulative total return calculation is based solely upon stock price appreciation and not upon reinvestment of dividends. The graph and table depicts year-end values based on actual market value increases and decreases relative to the initial investment of \$100, based on information provided for each calendar year by the NASDAQ Stock Market and the New York Stock Exchange.

The comparisons in the graph and table below are based on historical data and are not intended to forecast the possible future performance of our common stock.

	12/31/2011	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016
Universal Electronics Inc.	\$ 100	\$ 115	\$ 226	\$ 385	\$ 304	\$ 383
S&P Small Cap 600	\$ 100	\$ 115	\$ 160	\$ 167	\$ 162	\$ 202
NASDAQ Composite Index	\$ 100	\$ 116	\$ 160	\$ 182	\$ 192	\$ 207
Peer Group Index <sup>(1)</sup>	\$ 100	\$ 97	\$ 152	\$ 185	\$ 157	\$ 198

<sup>(1)</sup> Companies in the Peer Group Index are as follows: TiVo Corporation (formerly Rovi Corporation), Logitech International, Dolby Laboratories, Inc., Harman International Industries, Inc., and VOXX International Corp. DTS Inc. was previously included in the Peer Group Index but has been removed due to its acquisition in December 2016 by Tesser Holding Corporation.

The information presented above is as of December 31, 2011 through December 31, 2016. This information should not be deemed to be "soliciting material" or to be "filed" with the SEC or subject to the liabilities of Section 18 of the Exchange Act nor should this information be incorporated by reference into any prior or future filings under the Securities Act of 1933 or the Exchange Act, except to the extent that we specifically incorporate it by reference into a filing.

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## ITEM 6. SELECTED CONSOLIDATED FINANCIAL DATA

The information below is not necessarily indicative of the results of future operations and should be read in conjunction with "ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS", and the Consolidated Financial Statements and notes thereto included in "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA", of this Form 10-K, which are incorporated herein by reference, in order to further understand the factors that may affect the comparability of the financial data presented below.

(In thousands, except per share data)	Year Ended December 31,					
	2016	2015	2014	2013	2012	
Net sales	\$651,371	\$602,833	\$562,329	\$529,354	\$463,090	
Operating income	\$25,397	\$35,919	\$41,280	\$32,154	\$26,202	
Net income attributable to Universal Electronics Inc.	\$20,354	\$29,174	\$32,534	\$22,963	\$16,553	
Earnings per share attributable to Universal Electronics Inc.:						
Basic	\$1.41	\$1.91	\$2.06	\$1.51	\$1.11	
Diluted	\$1.38	\$1.88	\$2.01	\$1.47	\$1.10	
Shares used in computing earnings per share:						
Basic	14,465	15,248	15,781	15,248	14,952	
Diluted	14,764	15,542	16,152	15,601	15,110	
Cash dividends declared per common share	—	—	—	—	—	
Gross margin	25.2	% 27.7	% 29.7	% 28.6	% 28.8	%
Selling, general, administrative, research and development expenses as a % of net sales	21.3	% 21.8	% 22.4	% 22.5	% 23.2	%
Operating margin	3.9	% 5.9	% 7.3	% 6.1	% 5.6	%
Net income as a % of net sales	3.1	% 4.8	% 5.8	% 4.3	% 3.6	%
Return on average assets	4.0	% 6.1	% 7.3	% 5.7	% 4.4	%

(In thousands, except per share data)	December 31,					
	2016	2015	2014	2013	2012	
Working capital	\$108,291	\$100,200	\$183,600	\$158,548	\$113,488	
Ratio of current assets to current liabilities	1.5	1.5	2.3	2.3	2.0	
Total assets	\$521,036	\$495,220	\$463,070	\$423,733	\$379,324	
Cash and cash equivalents	\$50,611	\$52,966	\$112,521	\$76,174	\$44,593	
Line of credit	\$49,987	\$50,000	\$—	\$—	\$—	
Stockholders' equity	\$280,510	\$257,908	\$315,621	\$291,270	\$250,650	
Book value per share <sup>(1)</sup>	\$19.28	\$17.97	\$19.85	\$18.55	\$16.74	
Ratio of liabilities to liabilities and stockholders' equity	46.2	% 47.9	% 31.8	% 31.3	% 33.9	%

<sup>(1)</sup> Book value per share is defined as stockholders' equity divided by common shares issued less treasury stock. The comparability of information for 2016 and 2015 compared to previous years is affected by the acquisition of the net assets of Ecolink during the third quarter of 2015. See "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 22" for further information.

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ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion should be read in conjunction with the Consolidated Financial Statements and the related notes that appear elsewhere in this document.

Overview

We develop and manufacture a broad line of pre-programmed universal remote control products, AV accessories, software and intelligent wireless automation components dedicated to redefining the home entertainment and automation experience. Our customers operate primarily in the consumer electronics market and include subscription broadcasters, OEMs, international retailers, private label brands, pro-security installers and companies in the computing industry. We also sell integrated circuits, on which our software and device control database is embedded, and license our device control database to OEMs that manufacture televisions, digital audio and video players, streamer boxes, cable converters, satellite receivers, set-top boxes, room air conditioning equipment, game consoles, and wireless mobile phones and tablets.

Since our beginning in 1986, we have compiled an extensive device control database that covers nearly one million individual device functions and approximately 7,900 unique consumer electronic brands. QuickSet®, our proprietary software, can automatically detect, identify and enable the appropriate control commands for home entertainment, automation and appliances like air conditioners. Our library is regularly updated with new control functions captured directly from devices, remote controls and manufacturer specifications to ensure the accuracy and integrity of our database and control engine. Our universal remote control library contains device codes that are capable of controlling virtually all set-top boxes, televisions, audio components, DVD players, Blu-Ray players, and CD players, as well as most other remote controlled home entertainment devices and home automation control modules worldwide.

With the wider adoption of more advanced control technologies, emerging RF technologies, such as RF4CE, Bluetooth, and Bluetooth Smart have increasingly become a focus in our development efforts. Several new recently released platforms utilize RF to effectively implement popular features like voice search.

We operate as one business segment. We have 23 international subsidiaries located in Argentina, Brazil, British Virgin Islands, Cayman Islands, France, Germany, Hong Kong (3), India, Italy, Japan, Mexico, the Netherlands, People's Republic of China (6), Singapore, Spain and the United Kingdom.

To recap our results for 2016:

• Net sales increased 8.1% to \$651.4 million in 2016 from \$602.8 million in 2015.

• Our gross margin percentage decreased from 27.7% in 2015 to 25.2% in 2016.

• Operating expenses, as a percent of sales, decreased from 21.8% in 2015 to 21.3% in 2016

• Operating income decreased 29.3% to \$25.4 million in 2016 from \$35.9 million in 2015, and our operating margin percentage decreased to 3.9% in 2016, compared to 5.9% in 2015.

• Our effective tax rate increased to 19.1% in 2016 from 18.9% in 2015.

Our strategic business objectives for 2017 include the following:

- continue to develop and market the advanced remote control products and technologies our customer base is adopting;
- continue to broaden our home control and automation product offerings;
- further penetrate international subscription broadcasting markets;
- acquire new customers in historically strong regions;
- increase our share with existing customers; and
- continue to seek acquisitions or strategic partners that complement and strengthen our existing business.

We intend for the following discussion of our financial condition and results of operations to provide information that will assist in understanding our consolidated financial statements, the changes in certain key items in those financial statements from period to period, and the primary factors that accounted for those changes, as well as how certain accounting principles, policies and estimates affect our consolidated financial statements.

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### Critical Accounting Policies and Estimates

The preparation of financial statements in conformity with GAAP requires us to make estimates and judgments that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. On an on-going basis, we evaluate our estimates and judgments, including those related to revenue recognition, allowances for sales returns and doubtful accounts, inventory valuation, our review for impairment of long-lived assets, intangible assets and goodwill, business combinations, income taxes, stock-based compensation expense and performance-based common stock warrants. Actual results may differ from these judgments and estimates, and they may be adjusted as more information becomes available. Any adjustment may be significant and may have a material impact on our consolidated financial position or results of operations.

An accounting policy is deemed to be critical if it requires an accounting estimate to be made based on assumptions about matters that are highly uncertain at the time the estimate is made, if different estimates reasonably may have been used, or if changes in the estimate that are reasonably likely to occur may materially impact the financial statements. Management believes the following critical accounting policies affect our more significant judgments and estimates used in the preparation of our consolidated financial statements. In addition to the accounting policies mentioned below, see "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 2" for other significant accounting policies.

#### Revenue recognition

We recognize revenue on the sale of products when title of the goods has transferred, there is persuasive evidence of an arrangement (such as a purchase order from the customer), the sales price is fixed or determinable and collectability is reasonably assured.

A provision is recorded for estimated sales returns and allowances and is deducted from gross sales to arrive at net sales in the period the related revenue is recorded. These estimates are based on historical sales returns and allowances, analysis of credit memo data and other known factors. Actual returns and claims in any future period are inherently uncertain and thus may differ from our estimates. If actual or expected future returns and claims are significantly greater or lower than the reserves that we have established, we will record a reduction or increase to net revenues in the period in which we make such a determination.

We accrue for discounts and rebates based on historical experience and our expectations regarding future sales to our customers. These accruals are recorded as a reduction to sales in the same period as the related revenues. Changes in such accruals may be required if future rebates and incentives differ from our estimates.

Revenue for the sale of tooling is recognized when the related tooling has been provided, customer acceptance documentation has been obtained, the sales price is fixed or determinable and collectability is reasonably assured.

We generate service revenue, which is paid monthly, as a result of providing consumer support programs to some of our customers through our call centers. These service revenues are recognized when services are performed, persuasive evidence of an arrangement exists (such as when a signed agreement is received from the customer), the sales price is fixed or determinable, and collectability is reasonably assured.

We license our intellectual property including our patented technologies, trademarks, and database of control codes. When our license fees are paid on a per unit basis we record license revenue when our customers ship a product incorporating our intellectual property, persuasive evidence of an arrangement exists, the sales price is fixed or determinable, and collectability is reasonably assured. When a fixed upfront license fee is received in exchange for the delivery of a particular database of infrared codes that represents the culmination of the earnings process, we record revenues when delivery has occurred, persuasive evidence of an arrangement exists, the sales price is fixed or determinable and collectability is reasonably assured. Revenue for term license fees is recognized on a straight-line basis over the effective term of the license when we cannot reliably predict in which periods, within the term of the license, the licensee will benefit from the use of our patented inventions.

#### Allowance for Doubtful Accounts

We maintain an allowance for doubtful accounts for estimated losses resulting from the inability of our customers to make payments for products sold or services rendered. The allowance for doubtful accounts is estimated based on a variety of factors, including credit reviews, historical experience, length of time receivables are past due, current

economic trends and changes in customer payment behavior. We also record specific provisions for individual accounts when we become aware of a customer's inability to meet its financial obligations to us, such as in the case of bankruptcy filings or deterioration in the customer's operating results or financial position. Our historical reserves have been sufficient to cover losses from uncollectible accounts. However, because we cannot predict future changes in the financial stability of our customers, actual future losses from uncollectible accounts may differ from our estimates and may have a material effect on our consolidated financial position, results of operations and cash flows.

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## Inventories

Our finished good, component part, and raw material inventories are valued at the lower of cost or market value. Cost is determined using the first-in, first-out method. We write-down our inventory for the estimated difference between cost and estimated market value based upon our best estimates of future demand and market conditions. We carry inventory in amounts necessary to satisfy our customers' inventory requirements on a timely basis. We continually monitor our inventory status to control inventory levels and write-down any excess or obsolete inventories on hand. If actual market conditions are less favorable than those projected by management, additional inventory write-downs may be required which may have a material impact on our financial statements. Such circumstances may include, but are not limited to, the development of new competing technology that impedes the marketability of our products or the occurrence of significant price decreases in our raw material or component parts, such as integrated circuits. Each percentage point change in the ratio of excess and obsolete inventory reserve to inventory would impact cost of sales by approximately \$1.3 million.

## Valuation of Long-Lived Assets and Intangible Assets

We assess long-lived and intangible assets for impairment whenever events or changes in circumstances indicate that their carrying value may not be recoverable. Factors considered important which may trigger an impairment review, if significant, include the following:

- underperformance relative to historical or projected future operating results;
- changes in the manner of use of the assets;
- changes in the strategy of our overall business;
- negative industry or economic trends;
- a decline in our stock price for a sustained period; and
- a variance between our market capitalization relative to net book value.

If the carrying value of the asset is larger than its projected undiscounted future cash flows, the asset is impaired. The impairment is measured as the difference between the net book value of the asset and the asset's estimated fair value. Fair value is estimated utilizing the asset's projected discounted future cash flows. In assessing fair value, we must make assumptions regarding estimated future cash flows, the discount rate and other factors.

## Goodwill

We evaluate the carrying value of goodwill on December 31 of each year and between annual evaluations if events occur or circumstances change that would more likely than not reduce the fair value of the reporting unit below its carrying amount. Such circumstances may include, but are not limited to: (1) a significant adverse change in legal factors or in business climate, (2) unanticipated competition or (3) an adverse action or assessment by a regulator. To evaluate whether goodwill is impaired, we conduct a two-step quantitative goodwill impairment test. In the first step we compare the estimated fair value of our single reporting unit to the reporting unit's carrying amount, including goodwill. We estimate the fair value of our reporting unit based on income and market approaches. Under the income approach, we calculate the fair value based on the present value of estimated future cash flows. Under the market approach, we estimate the fair value based on market multiples of enterprise value to EBITDA for comparable companies. If the carrying value of the net assets assigned to the reporting unit exceeds the fair value of the reporting unit, then we perform the second step of the impairment test in order to determine the implied fair value of the reporting unit's goodwill. To calculate the implied fair value of the reporting unit's goodwill, the fair value of the reporting unit is first allocated to all of the other assets and liabilities of that unit based on their fair values. The excess of the reporting unit's fair value over the amount assigned to its other assets and liabilities is the implied fair value of goodwill. An impairment loss would be recognized equal to the amount by which the carrying value of goodwill exceeds its implied fair value.

Determining the fair value of a reporting unit is judgmental in nature and involves the use of significant estimates and assumptions. These estimates and assumptions include revenue growth rates and operating margins used to calculate projected future cash flows, risk-adjusted discount rates, future economic and market conditions and the determination of appropriate market comparables. In addition, we make certain judgments and assumptions in determining our reporting units. We base our fair value estimates on assumptions we believe to be reasonable but that are unpredictable and inherently uncertain. Actual future results may differ from those estimates.



**Business Combinations**

We allocate the purchase price of acquired businesses to the tangible and intangible assets and the liabilities assumed based on their estimated fair values on the acquisition date. The excess of the purchase price over the fair value of net assets acquired is recorded as goodwill. We engage independent third-party appraisal firms to assist us in determining the fair values of assets

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acquired and liabilities assumed. Such valuations require management to make significant fair value estimates and assumptions, especially with respect to intangible assets and contingent consideration. Management estimates the fair value of certain intangible assets and contingent consideration by utilizing the following (but not limited to):

- future cash flow from customer contracts, customer lists, distribution agreements, acquired developed technologies, trademarks, trade names and patents;
- expected costs to complete development of in-process technology into commercially viable products and cash flows from the products once they are completed;
- brand awareness and market position as well as assumptions regarding the period of time the brand will continue to be used in our product portfolio; and
- discount rates utilized in discounted cash flow models.

In those circumstances where an acquisition involves a contingent consideration arrangement, we recognize a liability equal to the fair value of the contingent payments we expect to make as of the acquisition date. We re-measure this liability at each reporting period and record changes in the fair value within operating expenses. Increases or decreases in the fair value of the contingent consideration liability can result from changes in discount periods and rates, as well as changes in the timing and amount of earnings estimates or in the timing or likelihood of achieving earnings-based milestones.

Our estimates are based upon assumptions believed to be reasonable; however, unanticipated events or circumstances may occur which may affect the accuracy of our fair value estimates, including assumptions regarding industry economic factors and business strategies.

Results of operations and cash flows of acquired businesses are included in our operating results from the date of acquisition.

### Income Taxes

We calculate our current and deferred tax provisions based on estimates and assumptions that may differ from the actual results reflected in our income tax returns filed during the subsequent year. We record adjustments based on filed returns when we have identified and finalized them, which is in the third and fourth quarters of the subsequent year for U.S. federal and state provisions, respectively.

We recognize deferred tax assets and liabilities for the expected tax consequences of temporary differences between the tax basis of assets and liabilities and their reported amounts using enacted tax rates in effect for the year in which we expect the differences to reverse. We record a valuation allowance to reduce the deferred tax assets to the amount that we are more likely than not to realize. We have considered future market growth, forecasted earnings, future taxable income, the mix of earnings in the jurisdictions in which we operate and prudent tax planning strategies in determining the need for a valuation allowance. In the event we were to determine that we would not be able to realize all or part of our net deferred tax assets in the future, we would increase the valuation allowance and make a corresponding charge to earnings in the period in which we make such determination. Likewise, if we later determine that we are more likely than not to realize the net deferred tax assets, we would reverse the applicable portion of the previously provided valuation allowance. In order for us to realize our deferred tax assets we must be able to generate sufficient taxable income in the tax jurisdictions in which the deferred tax assets are located.

Our effective tax rate includes the impact of certain undistributed foreign earnings for which we have not provided U.S. taxes because we plan to reinvest such earnings indefinitely outside the United States. The decision to reinvest our foreign earnings indefinitely outside the United States is based on our projected cash flow needs as well as the working capital and long-term investment requirements of our foreign subsidiaries and our domestic operations. Material changes in our estimates of cash, working capital and long-term investment requirements in the various jurisdictions in which we do business may impact our effective tax rate.

We are subject to income taxes in the United States and foreign countries, and we are subject to routine corporate income tax audits in many of these jurisdictions. We believe that our tax return positions are fully supported, but tax authorities are likely to challenge certain positions, which may not be fully sustained. However, our income tax expense includes amounts intended to satisfy income tax assessments that result from these challenges in accordance with the accounting for uncertainty in income taxes prescribed by GAAP. Determining the income tax expense for these potential assessments and recording the related assets and liabilities requires management judgments and

estimates.

We maintain reserves for uncertain tax positions, including related interest and penalties. We review our reserves quarterly, and we may adjust such reserves due to proposed assessments by tax authorities, changes in facts and circumstances, issuance of new regulations or new case law, previously unavailable information obtained during the course of an examination, negotiations between tax authorities of different countries concerning our transfer prices, execution of advanced pricing agreements, resolution with respect to individual audit issues, the resolution of entire audits, or the expiration of statutes of limitations. The amounts ultimately

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paid upon resolution of audits may be materially different from the amounts previously included in our income tax expense and, therefore, may have a material impact on our operating results, financial position and cash flows.

**Stock-Based Compensation**

We recognize the grant date fair value of stock-based compensation awards as expense, net of estimated forfeitures, in proportion to vesting during the requisite service period, which ranges from one to four years. Estimated forfeiture rates are based upon historical forfeitures.

We determine the fair value of restricted stock awards utilizing the average of the high and low trade prices of our Company's shares on the date they were granted.

The fair value of stock options granted to employees and directors is determined utilizing the Black-Scholes option pricing model. The assumptions utilized in the Black-Scholes model include the risk-free interest rate, expected volatility, and expected life in years. The risk-free interest rate over the expected term is equal to the prevailing U.S. Treasury note rate over the same period. Expected volatility is determined utilizing historical volatility over a period of time equal to the expected life of the stock option. Expected life is computed utilizing historical exercise patterns and post-vesting behavior. The dividend yield is assumed to be zero since we have not historically declared dividends and do not have any plans to declare dividends in the future.

**Performance-Based Common Stock Warrants**

The measurement date for performance-based common stock warrants is the date on which the warrants vest. We recognize the fair value of performance-based common stock warrants as a reduction to net sales ratably as the warrants vest based on the projected number of warrants that will vest, the proportion of the performance criteria achieved by the customer within the period relative to the total performance required (aggregate purchase levels) for the warrants to vest and the then-current fair value of the related unvested warrants. If we do not have a reliable forecast of future purchases to be made by the customer by which to estimate the number of warrants that will vest, then the maximum number of potential warrants is assumed until such time that a reliable forecast of future purchases is available. To the extent that our projections change in the future as to the number of warrants that will vest, a cumulative catch-up adjustment will be recorded in the period in which our estimates change.

The fair value of performance-based common stock warrants is determined utilizing the Black-Scholes option pricing model. The assumptions utilized in the Black-Scholes model include the price of our common stock, the risk-free interest rate, expected volatility, and expected life in years. The price of our common stock is equal to the average of the high and low trade prices of our common stock on the measurement date. The risk-free interest rate over the expected life is equal to the prevailing U.S. Treasury note rate over the same period. Expected volatility is determined utilizing historical volatility over a period of time equal to the expected life of the warrant. Expected life is equal to the remaining contractual term of the warrant. The dividend yield is assumed to be zero since we have not historically declared dividends and do not have any plans to declare dividends in the future.

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## Results of Operations

The following table sets forth our results of operations expressed as a percentage of net sales for the periods indicated.

	Year Ended December 31,		
	2016	2015	2014
Net sales	100.0 %	100.0 %	100.0 %
Cost of sales	74.8	72.3	70.3
Gross profit	25.2	27.7	29.7
Research and development expenses	3.0	3.1	3.0
Selling, general and administrative expenses	18.3	18.7	19.4
Operating income	3.9	5.9	7.3
Interest income (expense), net	(0.2 )	0.0	0.0
Other income (expense), net	0.1	(0.0 )	(0.1 )
Income before provision for income taxes	3.8	5.9	7.2
Provision for income taxes	0.7	1.1	1.4
Net income	3.1	4.8	5.8
Net income (loss) attributable to noncontrolling interest	0.0	(0.0 )	—
Net income attributable to Universal Electronics Inc.	3.1 %	4.8 %	5.8 %

Year Ended December 31, 2016 ("2016") Compared to Year Ended December 31, 2015 ("2015")

Net sales. Net sales for 2016 were \$651.4 million, an increase of 8.1% compared to \$602.8 million in 2015. Net sales by our business and consumer lines were as follows:

	2016		2015	
	\$ (millions)	% of total	\$ (millions)	% of total
Business	\$601.7	92.4 %	\$551.0	91.4 %
Consumer	49.7	7.6 %	51.8	8.6 %
Total net sales	\$651.4	100.0 %	\$602.8	100.0 %

Net sales in our Business lines (subscription broadcasting, OEM, and computing companies) were 92.4% of net sales in 2016 compared to 91.4% in 2015. Net sales in our Business lines in 2016 increased by 9.2% to \$601.7 million from \$551.0 million in 2015 driven by an increased demand in both the subscription broadcasting and OEM markets for our advanced products which include features such as voice control and two-way RF technologies.

Net sales in our Consumer lines (One For All® retail and private label) were 7.6% of net sales in 2016 compared to 8.6% in 2015. Net sales in our Consumer lines in 2016 decreased by 4.1% to \$49.7 million from \$51.8 million in 2015. This decrease was driven primarily by the weakening of the British Pound compared to the U.S. Dollar, which negatively impacted sales in the current year by \$2.4 million.

Gross profit. Gross profit in 2016 was \$164.1 million compared to \$166.7 million in 2015. Gross profit as a percent of sales decreased to 25.2% in 2016 from 27.7% in 2015. The gross margin percentage was unfavorably impacted in 2016 by an increase in sales to certain large customers that yield a lower gross margin rate than our company average. In addition, manufacturing inefficiencies were incurred resulting from the transition of production activities from our southern-most China factory to our other three factories located in China. We expect to continue to experience manufacturing inefficiencies over the next six to nine months as we complete this transition. The impact of these unfavorable items was partially offset by the weakening of the Chinese Yuan Renminbi relative to the U.S. Dollar. Research and development ("R&D") expenses. R&D expenses increased 9.4% to \$19.9 million in 2016 from \$18.1 million in 2015 as a result of increased levels of research and development in existing categories as well as new categories including home security.

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Selling, general and administrative ("SG&A") expenses. SG&A expenses increased 5.5% to \$118.9 million in 2016 from \$112.7 million in 2015. This increase was driven primarily by severance costs associated with a factory transition, increased operating costs associated with our August 2015 acquisition of Ecolink, and increased payroll costs associated with additional headcount required to support product development efforts. Severance costs were incurred related to the transition of manufacturing activities from our higher cost factory located in southern China to our lower cost factories located in other regions within China. We expect this transition and related severance costs to continue over the next six to nine months. These increases were partially offset by a lower level of patent litigation related costs as well as the weakening of the Chinese Yuan Renminbi versus the U.S. Dollar.

Interest income (expense), net. Net interest expense was \$1.0 million in 2016 compared to net interest income of \$63 thousand in 2015. This increase was primarily attributable to an increased level of borrowings on our line of credit.

Other income (expense), net. Net other income was \$0.8 million in 2016 compared to net other expense of \$7 thousand in 2015. This change was driven primarily by foreign currency gains associated with fluctuations in the Chinese Yuan Renminbi exchange rate versus the U.S. Dollar.

Income tax expense. Income tax expense was \$4.8 million in 2016 compared to \$6.8 million in 2015. Our effective tax rate was consistent at 19.1% in 2016 compared to 18.9% in 2015.

Year Ended December 31, 2015 Compared to Year Ended December 31, 2014 ("2014")

Net sales. Net sales for 2015 were \$602.8 million, an increase of 7.2% compared to \$562.3 million in 2014. Net sales by our business and consumer lines were as follows:

	2015			2014		
	\$ (millions)		% of total	\$ (millions)		% of total
Business	\$551.0	91.4	%	\$507.1	90.2	%
Consumer	51.8	8.6	%	55.2	9.8	%
Total net sales	\$602.8	100.0	%	\$562.3	100.0	%

Net sales in our Business lines (subscription broadcasting, OEM, and computing companies) were 91.4% of net sales in 2015 compared to 90.2% in 2014. Net sales in our Business lines in 2015 increased by 8.7% to \$551.0 million from \$507.1 million in 2014 driven primarily by strong demand and increased market share with North American subscription broadcasters as more customers transition from lower end platforms to higher end platforms. Partially offsetting this improvement was a decrease in net sales to consumer electronics companies in Asia.

Net sales in our Consumer lines (One For All® retail and private label) were 8.6% of net sales in 2015 compared to 9.8% in 2014. Net sales in our Consumer lines in 2015 decreased by 6.2% to \$51.8 million from \$55.2 million in 2014. This decrease was driven primarily by the weakening of the Euro and the British Pound compared to the U.S. Dollar, which negatively impacted sales in 2015 by \$5.3 million. This unfavorable currency impact was partially offset by increased sales in the European market.

Gross profit. Gross profit in 2015 was \$166.7 million compared to \$166.9 million in 2014. Gross profit as a percent of sales decreased to 27.7% in 2015 from 29.7% in 2014. The gross margin percentage was unfavorably impacted by an increase in sales to certain large customers that yield a lower gross margin rate than our company average, labor inflation in China where our four manufacturing facilities are located, and a decrease in royalty revenue associated with the TV and mobile device markets. The impact of these unfavorable items was partially offset by the weakening of the Chinese Yuan Renminbi relative to the U.S. Dollar.

Research and development expenses. R&D expenses increased 6.9% to \$18.1 million in 2015 from \$17.0 million in 2014 as a result of our research and development efforts in existing categories as well as new categories such as the home security channel.

Selling, general and administrative expenses. SG&A expenses increased 3.7% to \$112.7 million in 2015 from \$108.6 million in 2014. This increase was attributable primarily to an unfavorable court order in a patent litigation lawsuit of \$4.6 million in the third quarter of 2015 as well as increased payroll costs driven by additional headcount to support product development efforts and annual merit increases. SG&A expenses also increased due to increased delivery expenses as a result of the additional sales to North American subscription broadcasting customers in 2015 and the

rerouting of certain shipments in the first quarter of 2015 due to temporary port congestion in Los Angeles, California. These increases were partially offset by the weakening of the Euro and Brazilian Real and a decrease in incentive compensation costs.

Interest income (expense), net. Net interest income was \$63 thousand in 2015 compared to net interest income of \$11 thousand in 2014.

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Other income (expense), net. Net other expense was \$7 thousand in 2015 compared to net other expense of \$0.8 million in 2014. This change was driven primarily by a decrease in foreign currency losses associated with fluctuations in foreign currency exchange rates related to the Euro, Chinese Yuan Renminbi and British Pound. Income tax expense. Income tax expense was \$6.8 million in 2015 compared to \$7.9 million in 2014, and our effective tax rate was 18.9% in 2015 compared to 19.6% in 2014. The decrease in our effective tax rate was due primarily to the recording of \$0.5 million in tax refunds in 2015 related to tax incentives in China for the years 2012 through 2014.

## Liquidity and Capital Resources

## Sources and Uses of Cash

(In thousands)	Year		Year		Year
	Ended	Increase	Ended	Increase	Ended
	December	(Decrease)	December	(Decrease)	December
	31, 2016		31, 2015		31, 2014
Cash provided by operating activities	\$ 49,543	\$ 23,449	\$ 26,094	\$ (37,379 )	\$ 63,473
Cash used for investing activities	(42,515 )	5,134	(47,649 )	(29,230 )	(18,419 )
Cash provided by (used for) financing activities	(4,446 )	30,696	(35,142 )	(27,096 )	(8,046 )
Effect of exchange rate changes on cash	(4,937 )	(2,079 )	(2,858 )	(2,197 )	(661 )
Net increase (decrease) in cash and cash equivalents	\$ (2,355 )	\$ 57,200	\$ (59,555 )	\$ (95,902 )	\$ 36,347

	December	Increase	December
	31, 2016	(Decrease)	31, 2015
Cash and cash equivalents	\$ 50,611	\$ (2,355 )	\$ 52,966
Working capital	108,291	8,091	100,200

Net cash provided by operating activities increased \$23.4 million in 2016 when compared to 2015, primarily due to the net impact of changes in working capital needs associated with accounts receivable, inventories and accounts payable. With respect to accounts receivable, although net sales increased by 8.1% in 2016 compared to 2015, accounts receivable only increased by 2.3% due to the timing of sales in the current year period. Additionally, we experienced a greater growth in accounts receivable in 2015 as a result of us extending longer payment terms to certain significant customers. At December 31, 2016, days sales outstanding was 70 days compared to 68 days at December 31, 2015. Cash outflows associated with inventories were greater in 2015 compared to 2016 primarily due to preparation in 2015 for the manufacturing transition of certain products from our southern China factory to our other three factories located in China. The decrease in cash inflows associated with accounts payable were largely driven by the decrease in cash outflows associated with inventories.

Net cash provided by operating activities decreased \$37.4 million in 2015 when compared to 2014, primarily due to the net impact of changes in working capital needs associated with inventories, accounts receivable and accounts payable. In 2015 we deliberately increased our inventory levels in order to meet the strong demand for our higher end products in the subscription broadcast channel as well as prepare for the manufacturing transition of certain products from our southern China factory to our other three factories located in China. With respect to accounts receivable, we experienced a greater growth in outstanding accounts receivable in 2015 as a result of increased sales levels. Additionally, days sales outstanding increased from 64 days at December 31, 2014 to 68 days at December 31, 2015 as a result of us extending longer payment terms to a couple of significant customers. Increased cash inflows from accounts payable were largely attributable to the increase in inventories as well as an effort to extend payment terms with certain vendors.

Net cash used for investing activities during 2016 was \$42.5 million compared to \$47.6 million and \$18.4 million of net cash used during 2015 and 2014, respectively. Our 2016, 2015 and 2014 cash used for investing activities primarily included our investments in property, plant and equipment as well as internally developed patents. In 2015, cash used for investing activities also included our acquisition of the net assets of Ecolink for \$12.3 million, net of cash acquired. With respect to property, plant and equipment, we have increased our investment in machinery and equipment over the past two years in order to meet the increased demand for advanced remote controls. We have also



been increasing the amount of automation in our factories in an effort to mitigate the rising cost of labor in China. In addition, we are currently implementing a new global ERP system that will begin to go live in phases beginning in early 2017. As a result of these ongoing areas of investment, we anticipate that property, plant and equipment purchases in 2017 will total between \$22 million and \$25 million.

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Net cash used for financing activities was \$4.4 million during 2016 compared to net cash used for financing activities of \$35.1 million during 2015 and net cash used for financing activities of \$8.0 million during 2014. During 2016, we purchased 197,819 shares of our common stock at a cost of \$12.6 million, compared to 1,816,293 and 383,978 shares at a cost of \$89.4 million and \$16.2 million during 2015 and 2014, respectively. Offsetting these cash outflows were net borrowings on our line of credit of \$50.0 million in 2015 as well as proceeds from stock option exercises of \$6.2 million, \$1.7 million and \$8.1 million in 2016, 2015 and 2014, respectively.

From time to time, our Board of Directors authorizes management to repurchase shares of our issued and outstanding common stock on the open market. Repurchases may be made to manage dilution created by shares issued under our stock incentive plans or whenever we deem a repurchase is a good use of our cash and the price to be paid is at or below a threshold approved by our Board. As of December 31, 2016, we had 370,565 shares available for repurchase on the open market under the Board's authorizations.

**Contractual Obligations**

The following table summarizes our contractual obligations and the effect these obligations are expected to have on our liquidity and cash flow in future periods.

(In thousands)	Payments Due by Period				
	Total	Less than 1 year	1 - 3 years	4 - 5 years	After 5 years
<b>Contractual obligations:</b>					
Operating lease obligations	\$12,066	\$ 3,778	\$4,619	\$2,502	\$1,167
Capital lease obligations	13	13	—	—	—
Purchase obligations <sup>(1)</sup>	4,418	4,418	—	—	—
Contingent consideration <sup>(2)</sup>	10,500	—	5,208	5,292	—
<b>Total contractual obligations</b>	<b>\$26,997</b>	<b>\$ 8,209</b>	<b>\$9,827</b>	<b>\$7,794</b>	<b>\$1,167</b>

<sup>(1)</sup> Purchase obligations consist of contractual payments to purchase tooling and other fixed assets.

<sup>(2)</sup> Contingent consideration consists of contingent payments related to our purchase of the net assets of Ecolink.

**Liquidity**

Historically, we have utilized cash provided from operations as our primary source of liquidity, as internally generated cash flows have been sufficient to support our business operations, capital expenditures and discretionary share repurchases. More recently we have utilized our revolving line of credit to fund an increased level of share repurchases and our acquisition of the net assets of Ecolink. We anticipate that we will continue to utilize both cash flows from operations and our revolving line of credit to support ongoing business operations, capital expenditures and future discretionary share repurchases. Our working capital needs have typically been greatest during the third and fourth quarters when accounts receivable and inventories increase in connection with the fourth quarter holiday selling season. In addition, inventory levels typically increase in anticipation of factory closures in observance of Chinese New Year. We believe our current cash balances, anticipated cash flow to be generated from operations and available borrowing resources will be sufficient to cover expected cash outlays during the next twelve months; however, because our cash is located in various jurisdictions throughout the world, we may at times need to increase our borrowing capacity on our revolving line of credit or take on additional debt until we are able to transfer cash among our various entities.

Our liquidity is subject to various risks including the market risks identified in "ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK".

	December 31,		
	2016	2015	2014
Cash and cash equivalents	\$50,611	\$52,966	\$112,521
Available borrowing resources	35,000	34,987	54,987

Our cash balances are held in numerous locations throughout the world. The majority of our cash is held outside of the United States and may be repatriated to the United States but, under current law, would be subject to United States federal income taxes, less applicable foreign tax credits. Repatriation of some foreign balances is restricted by local laws. We have not provided for the United States federal tax liability on these amounts for financial statement purposes as this cash is considered indefinitely reinvested

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outside of the United States. Our intent is to meet our domestic liquidity needs through ongoing cash flows, external borrowings, or both. We utilize a variety of tax planning strategies in an effort to ensure that our worldwide cash is available in the locations in which it is needed.

On December 31, 2016, we had \$3.3 million, \$22.1 million, \$5.3 million, \$19.6 million and \$0.3 million of cash and cash equivalents in the United States, the PRC, Asia (excluding the PRC), Europe, and South America, respectively. We attempt to mitigate our exposure to liquidity, credit and other relevant risks by placing our cash and cash equivalents with financial institutions we believe are high quality.

On September 19, 2016, we extended the term of our Amended and Restated Credit Agreement ("Amended Credit Agreement") with U.S. Bank National Association ("U.S. Bank") to November 1, 2018. The Amended Credit Agreement provides for an \$85.0 million line of credit ("Credit Line") that may be used for working capital and other general corporate purposes including acquisitions, share repurchases and capital expenditures. On January 18, 2017, we entered into the Sixth Amendment to the Amended Credit Agreement in which the Credit Line was temporarily increased to \$105.0 million through April 15, 2017, after which the Credit Line will revert back to \$85.0 million. Amounts available for borrowing under the Credit Line are reduced by the balance of any outstanding letters of credit, of which there were \$13 thousand at December 31, 2016.

All obligations under the Credit Line are secured by substantially all of our U.S. personal property and tangible and intangible assets as well as 65% of our ownership interest in Enson Assets Limited, our wholly-owned subsidiary which controls our manufacturing factories in the PRC.

Under the Amended Credit Agreement, we may elect to pay interest on the Credit Line based on LIBOR plus an applicable margin (varying from 1.25% to 1.75%) or base rate (based on the prime rate of U.S. Bank or as otherwise specified in the Amended Credit Agreement) plus an applicable margin (varying from 0.00% to 0.50%). The applicable margins are calculated quarterly and vary based on our cash flow leverage ratio as set forth in the Amended Credit Agreement. The interest rate in effect at December 31, 2016 was 1.89%. There are no commitment fees or unused line fees under the Amended Credit Agreement.

The Amended Credit Agreement includes financial covenants requiring a minimum fixed charge coverage ratio and a maximum cash flow leverage ratio. In addition, the Amended Credit Agreement also contains other customary affirmative and negative covenants and events of default. As of December 31, 2016, we were in compliance with the covenants and conditions of the Amended Credit Agreement.

At December 31, 2016, we had an outstanding balance of \$50.0 million under the Credit Line.

### Off-Balance Sheet Arrangements

We do not participate in any off-balance sheet arrangements.

### Recent Accounting Pronouncements

See "ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA — Notes to Consolidated Financial Statements — Note 2" for a discussion of recent accounting pronouncements.

## ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to various market risks, including interest rate and foreign currency exchange rate fluctuations. We have established policies, procedures and internal processes governing our management of these risks and the use of financial instruments to mitigate our risk exposure.

### Interest Rate Risk

We are exposed to interest rate risk related to our debt. From time to time we borrow amounts on our Credit Line for working capital and other liquidity needs. Under the Amended Credit Agreement, we may elect to pay interest on outstanding borrowings on our Credit Line based on LIBOR or a base rate (based on the prime rate of U.S. Bank) plus an applicable margin as defined in the Amended Credit Agreement. Accordingly, changes in interest rates would impact our results of operations in future periods. A 100 basis point increase in interest rates would have an approximately \$0.3 million annual impact on net income based on our outstanding Credit Line balance at December 31, 2016.

We cannot make any assurances that we will not need to borrow additional amounts in the future or that funds will be extended to us under comparable terms or at all. If funding is not available to us at a time when we need to borrow, we

would have to use our cash reserves, including potentially repatriating cash from foreign jurisdictions, which may have a material adverse effect on our operating results, financial position and cash flows.

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Foreign Currency Exchange Rate Risk

At December 31, 2016, we had wholly-owned subsidiaries in Argentina, Brazil, the British Virgin Islands, Cayman Islands, France, Germany, Hong Kong, India, Italy, Japan, Mexico, the Netherlands, the PRC, Singapore, Spain and the United Kingdom. We are exposed to foreign currency exchange rate risk inherent in our sales commitments, anticipated sales, anticipated purchases, operating expenses, assets and liabilities denominated in currencies other than the U.S. Dollar. The most significant foreign currencies to our operations are the Chinese Yuan Renminbi, Euro, British Pound, Argentinian Peso, Mexican Peso, Brazilian Real, Indian Rupee and Japanese Yen. Our most significant foreign currency exposure is to the Chinese Yuan Renminbi as this is the functional currency of our China-based factories where the majority of our products are manufactured. If the Chinese Yuan Renminbi were to strengthen against the U.S. Dollar, our manufacturing costs would increase. We are generally a net payor of the Euro, Mexican Peso, Indian Rupee and Japanese Yen and therefore benefit from a stronger U.S. Dollar and are adversely affected by a weaker U.S. Dollar relative to the foreign currency. For the British Pound, Argentinian Peso and Brazilian Real, we are generally a net receiver of the foreign currency and therefore benefit from a weaker U.S. Dollar and are adversely affected by a stronger U.S. Dollar relative to the foreign currency. Even where we are a net receiver, a weaker U.S. Dollar may adversely affect certain expense figures taken alone.

From time to time, we enter into foreign currency exchange agreements to manage the foreign currency exchange rate risks inherent in our forecasted income and cash flows denominated in foreign currencies. The terms of these foreign currency exchange agreements normally last less than nine months. We recognize the gains and losses on these foreign currency contracts in the same period as the remeasurement losses and gains of the related foreign currency-denominated exposures.

It is difficult to estimate the impact of fluctuations on reported income, as it depends on the opening and closing rates, the average net balance sheet positions held in a foreign currency and the amount of income generated in local currency. We routinely forecast what these balance sheet positions and income generated in local currency may be and we take steps to minimize exposure as we deem appropriate. Alternatively, we may choose not to hedge the foreign currency risk associated with our foreign currency exposures, primarily if such exposure acts as a natural foreign currency hedge for other offsetting amounts denominated in the same currency or the currency is difficult or too expensive to hedge. We do not enter into any derivative transactions for speculative purposes.

The sensitivity of earnings and cash flows to variability in exchange rates is assessed by applying an approximate range of potential rate fluctuations to our assets, obligations and projected results of operations denominated in foreign currency with all other variables held constant. The analysis covers all of our foreign currency contracts offset by the underlying exposures. Based on our overall foreign currency rate exposure at December 31, 2016, we believe that movements in foreign currency rates may have a material effect on our financial position and results of operations. We estimate that if the exchange rates for the Chinese Yuan Renminbi, Euro, British Pound, Argentinian Peso, Mexican Peso, Brazilian Real, Indian Rupee and Japanese Yen relative to the U.S. Dollar fluctuate 10% from December 31, 2016, net income in the first quarter of 2017 would fluctuate by approximately \$8.3 million.

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA  
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All schedules are omitted because they are not applicable or the required information is shown in the consolidated financial statements or notes thereto.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Stockholders

Universal Electronics Inc.

We have audited the accompanying consolidated balance sheets of Universal Electronics Inc. (a Delaware corporation) (the "Company") as of December 31, 2016 and 2015, and the related consolidated statements of income, comprehensive income, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2016. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Universal Electronics Inc. as of December 31, 2016 and 2015, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company's internal control over financial reporting as of December 31, 2016, based on criteria established in the 2013 Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), and our report dated March 9, 2017 expressed an unqualified opinion.

/s/ GRANT THORNTON, LLP

Los Angeles, California

March 9, 2017



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UNIVERSAL ELECTRONICS INC.  
CONSOLIDATED BALANCE SHEETS  
(In thousands, except share-related data)

	December 31, 2016	December 31, 2015
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 50,611	\$ 52,966
Restricted cash	4,623	4,623
Accounts receivable, net	124,592	121,801
Inventories, net	129,879	122,366
Prepaid expenses and other current assets	7,439	6,217
Income tax receivable	1,054	55
Deferred income taxes	5,960	7,296
Total current assets	324,158	315,324
Property, plant, and equipment, net	105,351	90,015
Goodwill	43,052	43,116
Intangible assets, net	28,549	32,926
Deferred income taxes	10,430	8,474
Long-term restricted cash	4,600	—
Other assets	4,896	5,365
Total assets	\$ 521,036	\$ 495,220
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities:		
Accounts payable	\$ 97,157	\$ 93,843
Line of credit	49,987	50,000
Accrued compensation	35,580	37,452
Accrued sales discounts, rebates and royalties	8,358	7,618
Accrued income taxes	375	4,745
Other accrued expenses	24,410	21,466
Total current liabilities	215,867	215,124
Long-term liabilities:		
Long-term contingent consideration	10,500	11,751
Deferred income taxes	7,060	7,891
Income tax payable	791	629
Other long-term liabilities	6,308	1,917
Total liabilities	240,526	237,312
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, \$0.01 par value, 5,000,000 shares authorized; none issued or outstanding	—	—
Common stock, \$0.01 par value, 50,000,000 shares authorized; 23,575,340 and 23,176,277 shares issued on December 31, 2016 and 2015, respectively	236	232
Paid-in capital	250,481	228,269
Treasury stock, at cost, 9,022,587 and 8,824,768 shares on December 31, 2016 and 2015, respectively	(222,980)	(210,333)
Accumulated other comprehensive income (loss)	(22,821)	(15,799)
Retained earnings	275,594	255,240
Universal Electronics Inc. stockholders' equity	280,510	257,609
Noncontrolling interest	—	299

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Total stockholders' equity	280,510	257,908
Total liabilities and stockholders' equity	\$ 521,036	\$ 495,220

See Notes 5 and 11 for further information concerning our purchases from related party vendors.

The accompanying notes are an integral part of these consolidated financial statements.

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UNIVERSAL ELECTRONICS INC.  
CONSOLIDATED INCOME STATEMENTS  
(In thousands, except per share amounts)

	Year Ended December 31,		
	2016	2015	2014
Net sales	\$651,371	\$602,833	\$562,329
Cost of sales	487,247	436,084	395,429
Gross profit	164,124	166,749	166,900
Research and development expenses	19,850	18,141	16,975
Selling, general and administrative expenses	118,877	112,689	108,645
Operating income	25,397	35,919	41,280
Interest income (expense), net	(1,049)	) 63	11
Other income (expense), net	840	(7	) (840
Income before provision for income taxes	25,188	35,975	40,451
Provision for income taxes	4,804	6,802	7,917
Net income	20,384	29,173	32,534
Net income (loss) attributable to noncontrolling interest	30	(1	) —
Net income attributable to Universal Electronics Inc.	\$20,354	\$29,174	\$32,534
Earnings per share attributable to Universal Electronics Inc.:			
Basic	\$1.41	\$1.91	\$2.06
Diluted	\$1.38	\$1.88	\$2.01
Shares used in computing earnings per share:			
Basic	14,465	15,248	15,781
Diluted	14,764	15,542	16,152

See Notes 5 and 11 for further information concerning our purchases from related party vendors.  
The accompanying notes are an integral part of these consolidated financial statements.

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UNIVERSAL ELECTRONICS INC.  
 CONSOLIDATED COMPREHENSIVE INCOME STATEMENTS  
 (In thousands)

	Year Ended December 31,		
	2016	2015	2014
Net income	\$20,384	\$29,173	\$32,534
Other comprehensive income (loss):			
Change in foreign currency translation adjustment	(7,022 )	(11,353 )	(7,428 )
Total comprehensive income (loss)	13,362	17,820	25,106
Comprehensive income (loss) attributable to noncontrolling interest	30	(1 )	—
Comprehensive income (loss) attributable to Universal Electronics Inc.	\$13,332	\$17,821	\$25,106

See Notes 5 and 11 for further information concerning our purchases from related party vendors.  
 The accompanying notes are an integral part of these consolidated financial statements.

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UNIVERSAL ELECTRONICS INC.  
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY  
(In thousands)

	Common Stock Issued		Common Stock in Treasury		Paid-in Capital	Accumulated Other Comprehensive Income (Loss)	Retained Earnings	Noncontrolling Interest	Total
	Shares	Amount	Shares	Amount					
Balance at December 31, 2013	22,344	\$ 223	(6,639)	\$(104,980)	\$199,513	\$ 2,982	\$193,532	\$ —	\$291,270
Net income							32,534	—	32,534
Currency translation adjustment						(7,428 )			(7,428 )
Shares issued for employee benefit plan and compensation	160	2			845				847
Purchase of treasury shares			(384 )	(16,168 )					(16,168 )
Stock options exercised	391	4			8,118				8,122
Shares issued to Directors	15	—	15	210	(210 )				—
Employee and director stock-based compensation					6,444				6,444
Balance at December 31, 2014	22,910	229	(7,008)	(120,938 )	214,710	(4,446 )	226,066	—	315,621
Net income (loss)							29,174	(1 )	29,173
Currency translation adjustment						(11,353 )			(11,353 )
Shares issued for employee benefit plan and compensation	165	2			866				868
Purchase of treasury shares			(1,817)	(89,395 )					(89,395 )
Stock options exercised	71	1			1,711				1,712
Shares issued to Directors	30	—			—				—
Employee and director stock-based compensation					7,913				7,913
Tax benefit from exercise of non-qualified stock options and vested restricted stock					3,069				3,069
Business combination								378	378
Distribution to noncontrolling interest								(78 )	(78 )
Balance at December 31, 2015	23,176	232	(8,825)	(210,333 )	228,269	(15,799 )	255,240	299	257,908
Net income						(7,022 )	20,354	30	20,384
									(7,022 )

Currency translation adjustment									
Shares issued for employee benefit plan and compensation	130	1			912				913
Purchase of treasury shares			(198 )	(12,647 )					(12,647 )
Stock options exercised	239	3			6,241				6,244
Shares issued to Directors	30	—			—				—
Employee and director stock-based compensation					10,324				10,324
Tax benefit from exercise of non-qualified stock options and vested restricted stock					2,007				2,007
Performance-based common stock warrants					2,728				2,728
Deconsolidation of Encore Controls LLC							(329 )	(329 )	
Balance at December 31, 2016	23,575	\$ 236	(9,023)	\$(222,980)	\$250,481	\$ (22,821 )	\$275,594	\$ —	\$280,510

See Notes 5 and 11 for further information concerning our purchases from related party vendors.

The accompanying notes are an integral part of these consolidated financial statements.

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UNIVERSAL ELECTRONICS INC.  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(In thousands)

	Year Ended December 31,		
	2016	2015	2014
Cash provided by operating activities:			
Net income	\$20,384	\$29,173	\$32,534
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	26,967	20,452	18,244
Provision for doubtful accounts	183	299	249
Provision for inventory write-downs	3,806	3,382	3,473
Deferred income taxes	(1,637 )	(5,348 )	(538 )
Tax benefit from exercise of stock options and vested restricted stock	2,007	3,069	—
Excess tax benefit from stock-based compensation	(1,970 )	(2,619 )	—
Shares issued for employee benefit plan	913	868	847
Employee and director stock-based compensation	10,324	7,913	6,444
Performance-based common stock warrants	2,728	—	—
Changes in operating assets and liabilities:			
Restricted cash	—	(4,623 )	—
Accounts receivable	(3,882 )	(29,407 )	(7,966 )
Inventories	(14,800 )	(31,877 )	(8,161 )
Prepaid expenses and other assets	(772 )	774	(2,803 )
Accounts payable and accrued expenses	10,451	33,309	19,964
Accrued income taxes	(5,159 )	729	1,186
Net cash provided by operating activities	49,543	26,094	63,473
Cash used for investing activities:			
Acquisition of property, plant, and equipment	(40,651 )	(32,989 )	(16,566 )
Acquisition of intangible assets	(1,912 )	(2,395 )	(1,853 )
Increase in restricted cash	(4,797 )	—	—
Deposit received toward sale of Guangzhou factory	4,797	—	—
Deconsolidation of Encore Controls LLC	48	—	—
Acquisition of net assets of Ecolink Intelligent Technology, Inc., net of cash acquired	—	(12,265 )	—
Net cash used for investing activities	(42,515 )	(47,649 )	(18,419 )
Cash provided by (used for) financing activities:			
Borrowings under line of credit	147,974	84,500	—
Repayments on line of credit	(147,987)	(34,500 )	—
Proceeds from stock options exercised	6,244	1,712	8,122
Treasury stock purchased	(12,647 )	(89,395 )	(16,168 )
Distribution to noncontrolling interest	—	(78 )	—
Excess tax benefit from stock-based compensation	1,970	2,619	—
Net cash provided by (used for) financing activities	(4,446 )	(35,142 )	(8,046 )
Effect of exchange rate changes on cash	(4,937 )	(2,858 )	(661 )
Net increase (decrease) in cash and cash equivalents	(2,355 )	(59,555 )	36,347
Cash and cash equivalents at beginning of year	52,966	112,521	76,174
Cash and cash equivalents at end of period	\$50,611	\$52,966	\$112,521
Supplemental cash flow information:			
Income taxes paid	\$9,891	\$7,793	\$7,178

Interest paid	\$1,208	\$255	\$—
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See Notes 5 and 11 for further information concerning our purchases from related party vendors.

The accompanying notes are an integral part of these consolidated financial statements.



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UNIVERSAL ELECTRONICS INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

DECEMBER 31, 2016

Note 1 — Description of Business

Universal Electronics Inc. ("UEI"), based in Southern California, develops and manufactures a broad line of easy-to-use, pre-programmed universal wireless control products, audio-video accessories and intelligent wireless automation components as well as software designed to enable consumers to wirelessly connect, control and interact with an increasingly complex home entertainment and automation environment. In addition, over the past 29 years, we have developed a broad portfolio of patented technologies and a database of home connectivity software that we license to our customers, including many leading Fortune 500 companies.

Our primary markets include cable and satellite television service provider, original equipment manufacturer ("OEM"), retail, private label, pro-security installation and personal computing companies. We sell directly to our customers, and for retail we also sell through distributors in Europe, Australia, New Zealand, South Africa, the Middle East, Mexico, and selected countries in Asia and Latin America under the One For All® and Nevo® brand names. As used herein, the terms "we", "us" and "our" refer to Universal Electronics Inc. and its subsidiaries unless the context indicates to the contrary.

Note 2 — Summary of Significant Accounting Policies

Principles of Consolidation

The consolidated financial statements include our accounts and those of our wholly-owned subsidiaries and jointly owned entities in which we have a controlling interest. All intercompany accounts and transactions have been eliminated in the consolidated financial statements.

Estimates and Assumptions

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP") requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. On an on-going basis, we evaluate our estimates and assumptions, including those related to revenue recognition, allowances for sales returns and doubtful accounts, inventory valuation, our review for impairment of long-lived assets, intangible assets and goodwill, business combinations, income taxes, stock-based compensation expense and performance-based common stock warrants. Actual results may differ from these assumptions and estimates, and they may be adjusted as more information becomes available. Any adjustment may be material.

Revenue Recognition

We recognize revenue on the sale of products when title of the goods has transferred, there is persuasive evidence of an arrangement (such as when a purchase order is received from the customer), the sales price is fixed or determinable, and collectability is reasonably assured.

The provision recorded for estimated sales returns is deducted from gross sales to arrive at net sales in the period the related revenue is recorded. These estimates are based on historical sales returns, analysis of credit memo data and other known factors. We have no obligations after delivery of our products other than the associated warranties. See Note 13 for further information concerning our warranty obligations.

We accrue for discounts and rebates based on historical experience and our expectations regarding future sales to our customers. Accruals for discounts and rebates are recorded as a reduction to sales in the same period as the related revenues. Changes in such accruals may be required if future rebates and incentives differ from our estimates.

Trade accounts receivable are recorded at the invoiced amount and do not bear interest. Sales allowances are recognized as reductions of gross accounts receivable to arrive at accounts receivable, net if the sales allowances are distributed in customer account credits. See Note 4 for further information concerning our sales allowances.

Revenue for the sale of tooling is recognized when the related tooling has been provided, customer acceptance documentation has been obtained, the sales price is fixed or determinable, and collectability is reasonably assured.



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UNIVERSAL ELECTRONICS INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

DECEMBER 31, 2016

We generate service revenue, which is paid monthly, as a result of providing consumer support programs to some of our customers through our call centers. These service revenues are recognized when services are performed, persuasive evidence of an arrangement exists (such as when a signed agreement is received from the customer), the sales price is fixed or determinable, and collectability is reasonably assured.

We license our intellectual property including our patented technologies, trademarks, and database of control codes. When our license fees are paid on a per unit basis we record license revenue when our customers ship a product incorporating our intellectual property, persuasive evidence of an arrangement exists, the sales price is fixed or determinable, and collectability is reasonably assured. When a fixed upfront license fee is received in exchange for the delivery of a particular database of infrared codes that represents the culmination of the earnings process, we record revenues when delivery has occurred, persuasive evidence of an arrangement exists, the sales price is fixed or determinable and collectability is reasonably assured. Revenue for term license fees is recognized on a straight-line basis over the effective term of the license when we cannot reliably predict in which periods, within the term of the license, the licensee will benefit from the use of our patented inventions.

We present all non-income government-assessed taxes (sales, use and value added taxes) collected from our customers and remitted to governmental agencies on a net basis (excluded from revenue) in our financial statements. The government-assessed taxes are recorded in other accrued expenses until they are remitted to the government agency.

**Income Taxes**

Income tax expense includes U.S. and foreign income taxes. We account for income taxes using the liability method. We record deferred tax assets and deferred tax liabilities on our balance sheet for expected future tax consequences of events recognized in our financial statements in a different period than our tax return using enacted tax rates that will be in effect when these differences reverse. We record a valuation allowance to reduce net deferred tax assets if we determine that it is more likely than not that the deferred tax assets will not be realized. A current tax asset or liability is recognized for the estimated taxes refundable or payable for the current year.

Accounting standards prescribe a recognition threshold and a measurement attribute for the financial statement recognition and measurement of positions taken or expected to be taken in a tax return. For those benefits to be recognized, a tax position must be more likely than not to be sustained upon examination by taxing authorities, or else a full reserve is established against the tax asset or a liability is recorded. A "more likely than not" tax position is measured as the largest amount of benefit that is greater than fifty percent likely of being realized upon ultimate settlement. See Note 9 for further information concerning income taxes.

**Research and Development**

Research and development costs are expensed as incurred and consist primarily of salaries, employee benefits, supplies and materials.

**Advertising**

Advertising costs are expensed as incurred. Advertising expense totaled \$1.1 million, \$1.1 million, and \$1.2 million for the years ended December 31, 2016, 2015 and 2014, respectively.

**Shipping and Handling Fees and Costs**

We include shipping and handling fees billed to customers in net sales. Shipping and handling costs associated with in-bound freight are recorded in cost of goods sold. Other shipping and handling costs are included in selling, general and administrative expenses and totaled \$11.6 million, \$12.7 million and \$11.3 million for the years ended December 31, 2016, 2015 and 2014, respectively.

**Stock-Based Compensation**

We recognize the grant date fair value of stock-based compensation awards as expense, net of estimated forfeitures, in proportion to vesting during the requisite service period, which ranges from one to four years. Estimated forfeiture rates are based upon historical forfeitures.

We determine the fair value of restricted stock awards utilizing the average of the high and low trade prices of our Company's shares on the date they were granted.

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UNIVERSAL ELECTRONICS INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

DECEMBER 31, 2016

The fair value of stock options granted to employees and directors is determined utilizing the Black-Scholes option pricing model. The assumptions utilized in the Black-Scholes model include the risk-free interest rate, expected volatility, and expected life in years. The risk-free interest rate over the expected term is equal to the prevailing U.S. Treasury note rate over the same period. Expected volatility is determined utilizing historical volatility over a period of time equal to the expected life of the stock option. Expected life is computed utilizing historical exercise patterns and post-vesting behavior. The dividend yield is assumed to be zero since we have not historically declared dividends and do not have any plans to declare dividends in the future. See Note 16 for further information regarding stock-based compensation.

Performance-Based Common Stock Warrants

The measurement date for performance-based common stock warrants is the date on which the warrants vest. We recognize the fair value of performance-based common stock warrants as a reduction to net sales ratably as the warrants vest based on the projected number of warrants that will vest, the proportion of the performance criteria achieved by the customer within the period relative to the total performance required (aggregate purchase levels) for the warrants to vest and the then-current fair value of the related unvested warrants. If we do not have a reliable forecast of future purchases to be made by the customer by which to estimate the number of warrants that will vest, then the maximum number of potential warrants is assumed until such time that a reliable forecast of future purchases is available. To the extent that our projections change in the future as to the number of warrants that will vest, a cumulative catch-up adjustment will be recorded in the period in which our estimates change.

The fair value of performance-based common stock warrants is determined utilizing the Black-Scholes option pricing model. The assumptions utilized in the Black-Scholes model include the price of our common stock, the risk-free interest rate, expected volatility, and expected life in years. The price of our common stock is equal to the average of the high and low trade prices of our common stock on the measurement date. The risk-free interest rate over the expected life is equal to the prevailing U.S. Treasury note rate over the same period. Expected volatility is determined utilizing historical volatility over a period of time equal to the expected life of the warrant. Expected life is equal to the remaining contractual term of the warrant. The dividend yield is assumed to be zero since we have not historically declared dividends and do not have any plans to declare dividends in the future. See Note 17 for further information regarding performance-based common stock warrants.

Foreign Currency Translation and Foreign Currency Transactions

We use the U.S. Dollar as our functional currency for financial reporting purposes. The functional currency for most of our foreign subsidiaries is their local currency. The translation of foreign currencies into U.S. Dollars is performed for balance sheet accounts using exchange rates in effect at the balance sheet dates and for revenue and expense accounts using the average exchange rate during each period. The gains and losses resulting from the translation are included in the foreign currency translation adjustment account, a component of accumulated other comprehensive income in stockholders' equity, and are excluded from net income. The portions of intercompany accounts receivable and accounts payable that are intended for settlement are translated at exchange rates in effect at the balance sheet date. Our intercompany foreign investments and long-term debt that are not intended for settlement are translated using historical exchange rates.

Transaction gains and losses generated by the effect of changes in foreign currency exchange rates on recorded assets and liabilities denominated in a currency different than the functional currency of the applicable entity are recorded in other income (expense), net. See Note 18 for further information concerning transaction gains and losses.

Earnings Per Share

Basic earnings per share is computed by dividing net income available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted earnings per share is computed by dividing net income by the weighted average number of common shares and dilutive potential common shares, including the dilutive effect of stock option and restricted stock awards, outstanding during the period. Dilutive potential common

shares for all periods presented are computed utilizing the treasury stock method.

In the computation of diluted earnings per common share we exclude stock options with exercise prices greater than the average market price of the underlying common stock because their inclusion would be anti-dilutive. Furthermore, we exclude shares of restricted stock whose combined unamortized fair value and excess tax benefits are greater than the average market price of the underlying common stock during the period, as their effect would be anti-dilutive.

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Financial Instruments

Our financial instruments consist primarily of cash and cash equivalents, restricted cash, accounts receivable, accounts payable, accrued liabilities and debt. The carrying value of our financial instruments approximates fair value as a result of their short maturities. See Notes 3, 4, 5, 8, 10, and 11 for further information concerning our financial instruments.

Cash and Cash Equivalents

Cash and cash equivalents include cash accounts and all investments purchased with initial maturities of three months or less. Domestically we generally maintain balances in excess of federally insured limits. We attempt to mitigate our exposure to liquidity, credit and other relevant risks by placing our cash and cash equivalents with financial institutions we believe are high quality. These financial institutions are located in many different geographic regions. As part of our cash and risk management processes, we perform periodic evaluations of the relative credit standing of our financial institutions. We have not sustained credit losses from instruments held at financial institutions. See Note 3 for further information concerning cash and cash equivalents.

Allowance for Doubtful Accounts

We maintain an allowance for doubtful accounts for estimated losses resulting from the inability of our customers to make payments for products sold or services rendered. The allowance for doubtful accounts is based on a variety of factors, including credit reviews, historical experience, length of time receivables are past due, current economic trends and changes in customer payment behavior.

We also record specific provisions for individual accounts when we become aware of a customer's inability to meet its financial obligations to us, such as in the case of bankruptcy filings or deterioration in the customer's operating results or financial position. If circumstances related to a customer change, our estimates of the recoverability of the receivables would be further adjusted.

See Note 4 for further information concerning our allowance for doubtful accounts.

Inventories

Inventories consist of remote controls, wireless sensors and audio-video accessories as well as the related component parts and raw materials. Inventoriable costs include materials, labor, freight-in and manufacturing overhead related to the purchase and production of inventories. We value our inventories at the lower of cost or market. Cost is determined using the first-in, first-out method. We attempt to carry inventories in amounts necessary to satisfy our customer requirements on a timely basis. See Note 5 for further information concerning our inventories and suppliers. Product innovations and technological advances may shorten a given product's life cycle. We continually monitor our inventories to identify any excess or obsolete items on hand. We write-down our inventories for estimated excess and obsolescence in an amount equal to the difference between the cost of the inventories and estimated market value.

These estimates are based upon management's judgment about future demand and market conditions.

Property, Plant, and Equipment

Property, plant, and equipment are recorded at cost. The cost of property, plant, and equipment includes the purchase price of the asset and all expenditures necessary to prepare the asset for its intended use. We capitalize additions and improvements and expense maintenance and repairs as incurred. To qualify for capitalization, an asset, excluding computer equipment, must have a useful life greater than one year and a cost equal to or greater than \$5,000 for individual assets or \$5,000 for assets purchased in bulk. To qualify for capitalization, computer equipment, must have a useful life of greater than one year and a cost equal to or greater than \$1,000 for individual assets or \$5,000 for assets purchased in bulk.

We capitalize certain internal and external costs incurred to acquire or create internal use software, principally related to software coding, designing system interfaces and installation and testing of the software.

For financial reporting purposes, depreciation is calculated using the straight-line method over the estimated useful lives of the respective assets. When assets are retired or otherwise disposed of, the cost and accumulated depreciation

are removed from the appropriate accounts and any gain or loss is included as a component of depreciation expense.

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Estimated useful lives are as follows:

Buildings	25-33 Years
Tooling and equipment	2-7 Years
Computer equipment	3-5 Years
Software	3-7 Years
Furniture and fixtures	5-8 Years
Leasehold and building improvements	Lesser of lease term or useful life (approximately 2 to 10 years)

See Note 6 for further information concerning our property, plant, and equipment.

#### Goodwill

We record the excess purchase price of net tangible and intangible assets acquired over their estimated fair value as goodwill. We evaluate the carrying value of goodwill on December 31 of each year and between annual evaluations if events occur or circumstances change that may reduce the fair value of the reporting unit below its carrying amount. Such circumstances may include, but are not limited to: (1) a significant adverse change in legal factors or in business climate, (2) unanticipated competition, or (3) an adverse action or assessment by a regulator.

To evaluate whether goodwill is impaired, we conduct a two-step quantitative goodwill impairment test. In the first step we compare the estimated fair value of our single reporting unit to the reporting unit's carrying amount, including goodwill. We estimate the fair value of our reporting unit based on income and market approaches. Under the income approach, we calculate the fair value based on the present value of estimated future cash flows. Under the market approach, we estimate the fair value based on market multiples of enterprise value to EBITDA for comparable companies. If the carrying value of the net assets assigned to the reporting unit exceeds the fair value of the reporting unit, then we perform the second step of the impairment test in order to determine the implied fair value of the reporting unit's goodwill. To calculate the implied fair value of the reporting unit's goodwill, the fair value of the reporting unit is first allocated to all of the other assets and liabilities of that unit based on their fair values. The excess of the reporting unit's fair value over the amount assigned to its other assets and liabilities is the implied fair value of goodwill. An impairment loss would be recognized equal to the amount by which the carrying value of goodwill exceeds its implied fair value.

See Note 7 for further information concerning goodwill.

#### Long-Lived and Intangible Assets Impairment

Intangible assets consist principally of distribution rights, patents, trademarks and trade names, developed and core technologies, capitalized software development costs (see also Note 2 under the caption Capitalized Software Development Costs) and customer relationships. Capitalized amounts related to patents represent external legal costs for the application, maintenance and extension of the useful life of patents. Intangible assets are amortized using the straight-line method over their estimated period of benefit, ranging from one to 15 years.

We assess the impairment of long-lived assets and intangible assets whenever events or changes in circumstances indicate that the carrying value may not be recoverable. Factors considered important which may trigger an impairment review include the following: (1) significant underperformance relative to historical or projected future operating results; (2) significant changes in the manner or use of the assets or strategy for the overall business; (3) significant negative industry or economic trends and (4) a significant decline in our stock price for a sustained period.

We conduct an impairment review when we determine that the carrying value of a long-lived or intangible asset may not be recoverable based upon the existence of one or more of the above indicators of impairment. The asset is impaired if its carrying value exceeds the sum of the undiscounted cash flows expected to result from the use and eventual disposition of the asset. In assessing recoverability, we make assumptions regarding estimated future cash

flows and other factors.

An impairment loss is the amount by which the carrying value of an asset exceeds its fair value. We estimate fair value utilizing the projected discounted cash flow method and a discount rate determined by our management to be commensurate with the risk inherent in our current business model. When calculating fair value, we make assumptions regarding estimated future cash flows, discount rates and other factors.

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See Notes 6 and 15 for further information concerning long-lived assets. See Note 7 for further information concerning intangible assets.

Capitalized Software Development Costs

Costs incurred to develop software for resale are expensed when incurred as research and development expense until technological feasibility has been established. We have determined that technological feasibility for our products is typically established when a working prototype is complete. Once technological feasibility is established, software development costs are capitalized until the product is available for general release to customers.

Capitalized software development costs are amortized on a product-by-product basis. Amortization is recorded in cost of sales and is the greater of the amounts computed using:

- a. the net book value at the beginning of the period multiplied by the ratio that current gross revenues for a product bear to the total of current and anticipated future gross revenues for that product; or
- b. the straight-line method over the remaining estimated economic life of the product including the period being reported on.

The amortization of capitalized software development costs begins when the related product is available for general release to customers. The amortization period is generally two years.

We compare the unamortized capitalized software development costs of a product to its net realizable value at each balance sheet date. The amount by which the unamortized capitalized software development costs exceed the product's net realizable value is written off. The net realizable value is the estimated future gross revenues of a product reduced by its estimated completion and disposal costs. Any remaining amount of capitalized software development costs are considered to be the cost for subsequent accounting periods and the amount of the write-down is not subsequently restored. See Note 7 for further information concerning capitalized software development costs.

Business Combinations

We allocate the purchase price of acquired businesses to the tangible and intangible assets and the liabilities assumed based on their estimated fair values on the acquisition date. The excess of the purchase price over the fair value of net assets acquired is recorded as goodwill. We engage independent third-party appraisal firms to assist us in determining the fair values of assets acquired and liabilities assumed. Such valuations require management to make significant fair value estimates and assumptions, especially with respect to intangible assets and contingent consideration.

Management estimates the fair value of certain intangible assets and contingent consideration by utilizing the following (but not limited to):

- future cash flow from customer contracts, customer lists, distribution agreements, acquired developed technologies, trademarks, trade names and patents;
- expected costs to complete development of in-process technology into commercially viable products and cash flows from the products once they are completed;
- brand awareness and market position as well as assumptions regarding the period of time the brand will continue to be used in our product portfolio; and
- discount rates utilized in discounted cash flow models.

In those circumstances where an acquisition involves a contingent consideration arrangement, we recognize a liability equal to the fair value of the contingent payments we expect to make as of the acquisition date. We re-measure this liability at each reporting period and record changes in the fair value within operating expenses. Increases or decreases in the fair value of the contingent consideration liability can result from changes in discount periods and rates, as well as changes in the timing and amount of earnings estimates or in the timing or likelihood of achieving earnings-based milestones.

Results of operations and cash flows of acquired businesses are included in our operating results from the date of acquisition.

See Note 22 for further information concerning business combinations.

Derivatives

Our foreign currency exposures are primarily concentrated in the Argentinian Peso, Brazilian Real, British Pound, Chinese Yuan Renminbi, Euro, Hong Kong Dollar, Indian Rupee, Japanese Yen and Mexican Peso. We periodically enter into foreign currency exchange contracts with terms normally lasting less than nine months to protect against the adverse effects that exchange-rate

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fluctuations may have on our foreign currency-denominated receivables, payables, cash flows and reported income. We do not enter into financial instruments for speculation or trading purposes.

The derivatives we enter into have not qualified for hedge accounting. The gains and losses on both the derivatives and the foreign currency-denominated balances are recorded as foreign exchange transaction gains or losses and are classified in other income (expense), net. Derivatives are recorded on the balance sheet at fair value. The estimated fair value of derivative financial instruments represents the amount required to enter into similar offsetting contracts with similar remaining maturities based on quoted market prices. See Note 20 for further information concerning derivatives.

**Fair-Value Measurements**

We measure fair value using the framework established by the Financial Accounting Standards Board ("FASB") for fair value measurements and disclosures. This framework requires fair value to be determined based on the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants.

The valuation techniques are based upon observable and unobservable inputs. Observable or market inputs reflect market data obtained from independent sources. Unobservable inputs require management to make certain assumptions and judgments based on the best information available. Observable inputs are the preferred data source. These two types of inputs result in the following fair value hierarchy:

Level 1: Quoted prices (unadjusted) for identical instruments in active markets.

Level 2: Quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3: Prices or valuations that require management inputs that are both significant to the fair value measurement and unobservable.

**Recent Accounting Pronouncements**

In May 2014, the FASB issued Accounting Standards Update ("ASU") 2014-09, "Revenue from Contracts with Customers", which will supersede most existing U.S. GAAP revenue recognition guidance. This new standard requires an entity to recognize revenue to depict the transfer of goods or services to customers in an amount that reflects the consideration to which an entity expects to be entitled in exchange for those goods or services. In addition, ASU 2014-09 contains expanded disclosure requirements relating to the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. ASU 2014-09 is effective for fiscal periods beginning after December 15, 2016 and permits the use of either the full retrospective or cumulative effect transition method. On July 9, 2015, the FASB postponed the effective date of the new revenue standard by one year; however, early adoption is permitted as of the original effective date. We do not expect to early adopt ASU 2014-09. We are currently reviewing contract terms and assessing the impact of adopting this standard on our consolidated financial statements. While we are still in the process of conducting this analysis, the impact of this new guidance may accelerate revenue recognition for certain of our contractual arrangements, and the impact could be material. We expect to complete our assessment over the next six to nine months during which time we will also select a transition method.

In April 2015, the FASB issued ASU 2015-05, "Customer's Accounting for Fees Paid in a Cloud Computing Arrangement," which amends Accounting Standards Codification ("ASC") 350, "Intangibles - Goodwill and Other". The amendments provide guidance as to whether a cloud computing arrangement includes a software license, and based on that determination, how to account for such arrangements. ASU 2015-05 is effective for fiscal periods beginning after December 15, 2015 and permits the use of either the prospective or retrospective transition method.

The adoption of ASU 2015-05 did not have a material impact on our consolidated financial position or results of operations.

In July 2015, the FASB issued ASU 2015-11, "Simplifying the Measurement of Inventory", which states that inventory should be measured at the lower of cost and net realizable value. Net realizable value is defined as estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation. ASU 2015-11 is effective for fiscal periods beginning after December 15, 2016 and must be applied prospectively. Early adoption is permitted. We do not anticipate that the adoption of ASU 2015-11 will have a material impact on our consolidated financial position or results of operations.

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In September 2015, the FASB issued ASU 2015-16, "Simplifying the Accounting for Measurement-period Adjustments." This new guidance requires an acquirer in a business combination to recognize adjustments to the provisional amounts that are identified during the measurement period in the period in which the adjustment amounts are determined. In addition, the effect on earnings of changes in depreciation, amortization and other items as a result of the change to the provisional amounts, calculated as if the accounting had been complete as of the acquisition date, must be recorded in the reporting period in which the adjustment amounts are determined. ASU 2015-16 is effective for fiscal periods beginning after December 15, 2015 and must be applied prospectively. The adoption of ASU 2015-16 did not have a material impact on our consolidated financial position or results of operations.

In November 2015, the FASB issued ASU 2015-17, "Balance Sheet Classification of Deferred Taxes." This new guidance requires all deferred tax assets and liabilities, along with any related valuation allowance, be classified as non-current on the balance sheet. ASU 2015-17 is effective for fiscal periods beginning after December 15, 2016 and may be adopted either prospectively or retrospectively. Early adoption is permitted. We have not yet selected a transition method and are currently evaluating the impact that ASU 2015-17 will have on our consolidated financial statements.

In February 2016, the FASB issued ASU 2016-02, "Leases", which changes the accounting for leases and requires expanded disclosures about leasing activities. This new guidance will require lessees to recognize a right of use asset and a lease liability at the commencement date for all leases with terms greater than twelve months. Accounting by lessors is largely unchanged. ASU 2016-02 is effective for fiscal periods beginning after December 15, 2018 and must be adopted using a modified retrospective approach. Early adoption is permitted. We are currently evaluating the impact that ASU 2016-02 will have on our consolidated financial statements.

In March 2016, the FASB issued ASU 2016-09, "Improvements to Employee Share-Based Payment Accounting", which amends ASC 718, "Compensation - Stock Compensation". ASU 2016-09 is intended to simplify several aspects of the accounting for share-based payment transactions, including income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows. ASU 2016-09 is effective for fiscal periods beginning after December 15, 2016. Early adoption is permitted. We are currently evaluating the impact that ASU 2016-09 will have on our consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, "Classification of Certain Cash Receipts and Cash Payments", which amends ASC 230, "Statement of Cash Flows". This new guidance addresses eight specific cash flow issues with the objective of reducing the existing diversity in practice in how certain transactions are classified in the statement of cash flows. ASU 2016-15 is effective for fiscal periods beginning after December 15, 2017 and must be adopted retrospectively. Early adoption is permitted as long as all amendments are adopted in the same period. We are currently evaluating the impact that ASU 2016-15 will have on our consolidated financial statements.

In October 2016, the FASB issued ASU 2016-16, "Intra-Entity Transfers of Assets Other Than Inventory", which changes the accounting for income taxes consequences of intra-entity transfers of assets other than inventory. Current guidance prohibits the recognition of current and deferred income taxes for an intra-entity asset transfer until the asset has been sold to an outside party. Under this new guidance, the income tax consequences of an intra-entity transfer of an asset other than inventory will be recognized when the transfer occurs. ASU 2016-16 is effective for fiscal periods beginning after December 15, 2017. Early adoption is permitted. The impact of the adoption of ASU 2016-16 could be material depending on the size of any intra-entity transfers we may implement in future periods.

In November 2016, the FASB issued ASU 2016-18, "Restricted Cash", which amends ASC 230, "Statement of Cash Flows". This new guidance addresses the classifications and presentation of changes in restricted cash in the statement of cash flows. ASU 2016-18 is effective for fiscal periods beginning after December 15, 2017 and must be adopted retrospectively. Early adoption is permitted. The adoption of ASU 2016-18 will modify our current disclosures by reclassifying certain amounts within the consolidated statement of cash flows, but is not expected to have a material effect on our consolidated financial statements.

In January 2017, the FASB issued ASU 2017-04, "Simplifying the Test for Goodwill Impairment". This guidance simplifies how an entity is required to test goodwill for impairment by eliminating Step 2 from the goodwill impairment test. Instead, if the carrying amount of a reporting unit exceeds its fair value, an impairment loss will be recognized in an amount equal to that excess, limited to the total amount of goodwill allocated to the reporting unit. ASU 2017-04 is effective for fiscal periods beginning after December 31, 2019. Early adoption is permitted. We do not expect the adoption of ASU 2017-04 to have a material impact on our consolidated financial statements.



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## Note 3 — Cash and Cash Equivalents and Restricted Cash

## Cash and Cash Equivalents

Cash and cash equivalents were held in the following geographic regions:

(In thousands)	December 31,	
	2016	2015
United States	\$3,277	\$8,458
People's Republic of China ("PRC")	22,142	28,681
Asia (excluding the PRC)	5,260	5,346
Europe	19,630	8,093
South America	302	2,388
Total cash and cash equivalents	\$50,611	\$52,966

## Restricted Cash

In connection with the court order issued on September 4, 2015, we placed \$4.6 million of cash into a collateralized surety bond. This bond has certain restrictions for liquidation and has therefore been classified as restricted cash.

Refer to Note 13 for further information about this ongoing litigation.

In connection with the pending sale of our Guangzhou factory in the PRC (Note 13), the buyer made a cash deposit of RMB 32 million (\$4.6 million based on December 31, 2016 exchange rates) into an escrow account on September 29, 2016. Under the terms of the escrow account, these funds will not be released to us until the close of the sale.

Accordingly, this deposit is presented as long-term restricted cash within our consolidated balance sheet.

## Note 4 — Accounts Receivable, Net and Revenue Concentrations

Accounts receivable, net were as follows:

(In thousands)	December 31,	
	2016	2015
Trade receivables, gross	\$120,965	\$119,090
Allowance for doubtful accounts (904 )	(822 )	( )
Allowance for sales returns (539 )	(507 )	( )
Net trade receivables	119,522	117,761
Other	5,070	4,040
Accounts receivable, net	\$124,592	\$121,801

## Allowance for Doubtful Accounts

Changes in the allowance for doubtful accounts were as follows:

(In thousands)	Year Ended		
	December 31,		
	2016	2015	2014
Balance at beginning of period	\$822	\$616	\$478
Additions to costs and expenses	183	299	249
(Write-offs)/Foreign exchange effects (101 )	(93 )	(111 )	( )
Balance at end of period	\$904	\$822	\$616

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## Sales Returns

The allowance for sales returns at December 31, 2016 and 2015 included reserves for items returned prior to year-end that were not completely processed, and therefore had not yet been removed from the allowance for sales returns balance. If these returns had been fully processed, the allowance for sales returns balance would have been approximately \$0.4 million and \$0.3 million on December 31, 2016 and 2015, respectively. The value of these returned goods was included in our inventory balance at December 31, 2016 and 2015.

## Significant Customers

Net sales to the following customers totaled more than 10% of our net sales:

	Year Ended December 31,		2015		2014	
	2016		2015		2014	
	\$ (thousands)	% of Net Sales	\$ (thousands)	% of Net Sales	\$ (thousands)	% of Net Sales
Comcast Corporation	\$149,476	22.9 %	\$129,475	21.5 %	\$11 —	% <sup>(1)</sup>
DIRECTV	68,110	10.5	74,857	12.4	58,620	10.4

<sup>(1)</sup> Net sales to this customer did not total more than 10% of our total net sales in this period.

Trade receivables associated with Comcast Corporation accounted for \$23.7 million, or 19.0% of our accounts receivable, net at December 31, 2016. Trade receivables associated with DIRECTV accounted for \$12.9 million, or 10.3% of our accounts receivable, net at December 31, 2016. Trade receivables associated with Comcast Corporation accounted for \$29.4 million, or 24.1% of our accounts receivable, net at December 31, 2015.

## Note 5 — Inventories, Net and Significant Suppliers

Inventories, net were as follows:

(In thousands)	December 31,	
	2016	2015
Raw materials	\$33,059	\$29,290
Components	15,046	12,228
Work in process	5,860	5,671
Finished goods	80,119	78,222
Reserve for excess and obsolete inventory	(4,205 )	(3,045 )
Inventories, net	\$129,879	\$122,366

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## Reserve for Excess and Obsolete Inventory

Changes in the reserve for excess and obsolete inventory were as follows:

(In thousands)	Year Ended December 31,		
	2016	2015	2014
Balance at beginning of period	\$3,045	\$2,539	\$2,714
Additions charged to costs and expenses <sup>(1)</sup>	3,464	3,070	3,181
Sell through <sup>(2)</sup>	(1,116 )	(1,108 )	(869 )
Write-offs/Foreign exchange effects	(1,188 )	(1,456 )	(2,487 )
Balance at end of period	\$4,205	\$3,045	\$2,539

The additions charged to costs and expenses do not include inventory directly written-off that was scrapped during production totaling \$0.3 million, \$0.3 million, and \$0.3 million for the years ended December 31, 2016, 2015, and 2014, respectively. These amounts are production waste and are not included in management's reserve for excess and obsolete inventory.

<sup>(2)</sup> These amounts represent the reversal of reserves associated with inventory items that were sold during the period.

## Significant Suppliers

We purchase integrated circuits, components and finished goods from multiple sources. Texas Instruments provided \$42.4 million or 11.7% of total inventory purchases during the year ended December 31, 2016. Maxim Integrated Products International Limited provided \$31.2 million or 10.7% of total inventory purchases during the year ended December 31, 2014. No single supplier provided more than 10% of our total inventory purchases during the years ended December 31, 2015.

## Related Party Supplier

We purchase certain printed circuit board assemblies from a related party supplier. The supplier is considered a related party for financial reporting purposes because our Senior Vice President of Strategic Operations owns 40% of this supplier. Inventory purchases from this supplier were as follows:

	Year Ended December 31,					
	2016	2015	2014			
	\$	% of Total	\$	% of Total	\$	% of Total
	(thousands)	Inventory Purchases	(thousands)	Inventory Purchases	(thousands)	Inventory Purchases
Related party supplier	\$6,350	1.8 %	\$8,550	2.5 %	\$9,188	3.2 %

Total accounts payable to this supplier were as follows:

	December 31,			
	2016	2015		
	\$	% of	\$	% of
	(thousands)	Accounts Payable	(thousands)	Accounts Payable
Related party supplier	\$1,690	1.7 %	\$2,361	2.5 %

Our payable terms and pricing with this supplier are consistent with the terms offered by other suppliers in the ordinary course of business. The accounting policies that we apply to our transactions with our related party supplier are consistent with those applied in transactions with independent third parties. Corporate management routinely

monitors purchases from our related party supplier to ensure these purchases remain consistent with our business objectives.

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## Note 6 — Property, Plant, and Equipment, Net

Property, plant, and equipment, net were as follows:

(In thousands)	December 31,	
	2016	2015
Buildings	\$48,367	\$50,044
Machinery and equipment	67,726	60,078
Tooling	31,773	26,231
Leasehold and building improvements	22,680	19,926
Software	11,581	11,067
Furniture and fixtures	3,794	4,005
Computer equipment	5,120	4,557
	191,041	175,908
Accumulated depreciation	(101,768 )	(96,365 )
	89,273	79,543
Construction in progress	16,078	10,472
Total property, plant, and equipment, net	\$105,351	\$90,015

Depreciation expense, including tooling depreciation which is recorded in cost of goods sold, was \$20.7 million, \$15.6 million and \$14.1 million for the years ended December 31, 2016, 2015, and 2014, respectively.

The net book value of property, plant, and equipment located within the PRC was \$90.0 million and \$79.4 million on December 31, 2016 and 2015, respectively.

Construction in progress was as follows:

(In thousands)	December 31,	
	2016	2015
Buildings	\$118	\$105
Machinery and equipment	4,625	6,620
Tooling	2,219	1,265
Leasehold and building improvements	1,335	244
Software	7,674	1,888
Other	107	350
Total construction in progress	\$16,078	\$10,472

We expect that most of the assets under construction will be placed into service during the first six months of 2017.

We will begin to depreciate the cost of these assets under construction once they are placed into service.

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## Note 7 — Goodwill and Intangible Assets, Net

## Goodwill

Goodwill and changes in the carrying amount of goodwill were as follows:

(In thousands)

Balance at December 31, 2014	\$ 30,739
Goodwill acquired during the period <sup>(1)</sup>	12,564
Foreign exchange effects	(187 )
Balance at December 31, 2015	43,116
Foreign exchange effects	(64 )
Balance at December 31, 2016	\$43,052

<sup>(1)</sup> During 2015, we recognized \$12.6 million of goodwill related to the Ecolink Intelligent Technology, Inc. acquisition. Please refer to Note 22 for further information about this acquisition.

We conducted annual goodwill impairment reviews on December 31, 2016, 2015, and 2014 utilizing significant unobservable inputs (level 3). Based on the analysis performed, we determined that our goodwill was not impaired.

## Intangible Assets, Net

The components of intangible assets, net were as follows:

(In thousands)	December 31, 2016			2015		
	Gross <sup>(1)</sup>	Accumulated Amortization <sup>(1)</sup>	Net <sup>(1)</sup>	Gross <sup>(1)</sup>	Accumulated Amortization <sup>(1)</sup>	Net <sup>(1)</sup>
Distribution rights (10 years)	\$302	\$ (119 )	\$183	\$312	\$ (96 )	\$216
Patents (10 years)	12,038	(4,775 )	7,263	11,425	(4,737 )	6,688
Trademarks and trade names (10 years) <sup>(2)</sup>	2,400	(1,310 )	1,090	2,401	(1,053 )	1,348
Developed and core technology (5-15 years) <sup>(2)</sup>	12,585	(4,068 )	8,517	12,587	(2,144 )	10,443
Capitalized software development costs (2 years)	142	(5 )	137	167	(97 )	70
Customer relationships (10-15 years) <sup>(2)</sup>	27,703	(16,344 )	11,359	27,715	(13,554 )	14,161
Total intangible assets, net	\$55,170	\$ (26,621 )	\$28,549	\$54,607	\$ (21,681 )	\$32,926

<sup>(1)</sup> This table excludes the gross value of fully amortized intangible assets totaling \$10.2 million and \$9.0 million on December 31, 2016 and 2015, respectively.

During the third quarter of 2015, we purchased a trade name valued at \$0.4 million, which is being amortized ratably over seven years; developed technology valued at \$9.1 million, which is being amortized over a weighted

<sup>(2)</sup> average period of approximately five years; and customer relationships valued at \$1.3 million, which are being amortized ratably over five years. Refer to Note 22 for further information regarding our purchase of these intangible assets.

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Amortization expense is recorded in selling, general and administrative expenses, except amortization expense related to capitalized software development costs which is recorded in cost of sales. Amortization expense by income statement caption was as follows:

(In thousands)	Year Ended		
	December 31,		
	2016	2015	2014
Cost of sales	\$76	\$123	\$153
Selling, general and administrative	6,198	4,719	4,009
Total amortization expense	\$6,274	\$4,842	\$4,162

Estimated future amortization expense related to our intangible assets at December 31, 2016, is as follows:

(In thousands)	
2017	\$6,415
2018	6,390
2019	6,312
2020	5,222
2021	2,932
Thereafter	1,278
Total	\$28,549

The remaining weighted average amortization period of our intangible assets is 4.8 years.

## Note 8 — Line of Credit

On September 19, 2016, we extended the term of our Amended and Restated Credit Agreement ("Amended Credit Agreement") with U.S. Bank National Association ("U.S. Bank") to November 1, 2018. The Amended Credit Agreement provides for an \$85.0 million line of credit ("Credit Line") that may be used for working capital and other general corporate purposes including acquisitions, share repurchases and capital expenditures. On January 18, 2017, we entered into the Sixth Amendment to the Amended Credit Agreement in which the Credit Line was temporarily increased to \$105.0 million through April 15, 2017, after which the Credit Line will revert back to \$85.0 million. Amounts available for borrowing under the Credit Line are reduced by the balance of any outstanding letters of credit, of which there were \$13 thousand at December 31, 2016.

All obligations under the Credit Line are secured by substantially all of our U.S. personal property and tangible and intangible assets as well as 65% of our ownership interest in Enson Assets Limited, our wholly-owned subsidiary which controls our manufacturing factories in the PRC.

Under the Amended Credit Agreement, we may elect to pay interest on the Credit Line based on LIBOR plus an applicable margin (varying from 1.25% to 1.75%) or base rate (based on the prime rate of U.S. Bank or as otherwise specified in the Amended Credit Agreement) plus an applicable margin (varying from 0.00% to 0.50%). The applicable margins are calculated quarterly and vary based on our cash flow leverage ratio as set forth in the Amended Credit Agreement. The interest rate in effect at December 31, 2016 was 1.89%. There are no commitment fees or unused line fees under the Amended Credit Agreement.

The Amended Credit Agreement includes financial covenants requiring a minimum fixed charge coverage ratio and a maximum cash flow leverage ratio. In addition, the Amended Credit Agreement also contains other customary affirmative and negative covenants and events of default. As of December 31, 2016, we were in compliance with the covenants and conditions of the Amended Credit Agreement.

At December 31, 2016, we had \$50.0 million outstanding under the Credit Line. Our total interest expense on borrowings was \$1.3 million, \$0.3 million and \$23 thousand during the years ended December 31, 2016, 2015 and

2014, respectively.

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## Note 9 — Income Taxes

Pre-tax income (loss) was attributed to the following jurisdictions:

	Year Ended December 31,		
(In thousands)	2016	2015	2014
Domestic operations	\$ 165	\$(6,857)	\$(2,793)
Foreign operations	25,023	42,832	43,244
Total	\$25,188	\$35,975	\$40,451

The provision for income taxes charged to operations were as follows:

	Year Ended December 31,		
(In thousands)	2016	2015	2014
Current tax expense:			
U.S. federal	\$1,748	\$2,726	\$47
State and local	374	189	49
Foreign	4,150	9,028	8,127
Total current	6,272	11,943	8,223
Deferred tax (benefit) expense:			
U.S. federal	(1,416)	(4,588)	(687)
State and local	(356)	(87)	74
Foreign	304	(466)	307
Total deferred	(1,468)	(5,141)	(306)
Total provision for income taxes	\$4,804	\$6,802	\$7,917

Net deferred tax assets were comprised of the following:

	December 31,	
(In thousands)	2016	2015
Deferred tax assets:		
Inventory reserves	\$1,396	\$1,228
Capitalized research costs	44	52
Capitalized inventory costs	704	926
Net operating losses	485	582
Acquired intangible assets	136	148
Accrued liabilities	4,739	5,194
Income tax credits	12,509	11,251
Stock-based compensation	3,376	2,064
Total deferred tax assets	23,389	21,445
Deferred tax liabilities:		
Depreciation	(2,924)	(2,639)
Allowance for doubtful accounts	(241)	(223)
Amortization of intangible assets	(780)	(1,274)
Other	(1,479)	(2,752)
Total deferred tax liabilities	(5,424)	(6,888)
Net deferred tax assets before valuation allowance	17,965	14,557
Less: Valuation allowance	(8,635)	(6,678)
Net deferred tax assets	\$9,330	\$7,879



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The provision for income taxes differs from the amount of income tax determined by applying the applicable U.S. statutory federal income tax rate to pre-tax income from operations as a result of the following:

(In thousands)	Year Ended December 31,		
	2016	2015	2014
Tax provision at statutory U.S. rate	\$8,554	\$12,232	\$13,753
Increase (decrease) in tax provision resulting from:			
State and local taxes, net	(553 )	(554 )	(580 )
Foreign tax rate differential	(3,244 )	(5,762 )	(7,150 )
Nondeductible items	839	874	1,093
Federal research and development credits	(710 )	(678 )	(842 )
Change in deductibility of social insurance	8	649	688
Valuation allowance	1,598	621	661
Foreign permanent benefit	(2,110 )	(675 )	—
Other	422	95	294
Tax provision	\$4,804	\$6,802	\$7,917

At December 31, 2016, we had foreign tax credit carryforwards of approximately \$1.7 million, and federal and state Research and Experimentation ("R&E") income tax credit carryforwards of approximately \$3.0 million and \$7.6 million, respectively. The foreign tax credits begin to expire in 2024. The federal R&E credits begin to expire in 2032. The state R&E income tax credits do not have an expiration date.

At December 31, 2016, we had federal, state and foreign net operating loss carryforwards of \$0.6 million, \$2.1 million and \$0.2 million, respectively. Included in our U.S. net operating loss deferred tax assets above is \$3.5 million of unrealized gross deferred tax assets attributable to excess tax benefits associated with stock-based compensation that will impact stockholders' equity if and when such excess benefits are ultimately realized. The federal, state and foreign net operating loss carryforwards begin to expire during 2024, 2018 and 2021, respectively. Internal Revenue Code Section 382 places certain limitations on the annual amount of net operating loss carryforwards that may be utilized if certain changes to a company's ownership occur. The annual federal limitation is approximately \$0.6 million for 2016 and thereafter.

At December 31, 2016, we assessed the realizability of our deferred tax assets by considering whether it is "more likely than not" some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. We considered taxable income in carry-back years, the scheduled reversal of deferred tax liabilities, tax planning strategies and projected future taxable income in making this assessment. Due to uncertainties surrounding the realization of some of the Company's deferred tax assets, we established a valuation allowance against certain deferred tax assets. This valuation allowance primarily relates to state R&E income tax credits generated during prior years and the current year. Additionally, we recorded \$1.0 million of valuation allowance during the year ended December 31, 2016 primarily against certain deferred tax assets associated with our Guangzhou factory as a result of the pending sale of this factory and related transition of manufacturing activities (see Note 13 for further details). If and when recognized, the tax benefits relating to any reversal of valuation allowance will be recorded as a reduction of income tax expense. The total valuation allowance increased by \$2.0 million and \$1.0 million during the years ended December 31, 2016 and 2015, respectively.

During the years ended December 31, 2016 and 2015, we recognized an increase to paid-in capital and a decrease to income taxes payable of \$2.0 million and \$3.1 million related to the tax benefit from the exercise of non-qualified stock options and vesting of restricted stock under our stock-based incentive plans.

The undistributed earnings of our foreign subsidiaries are considered to be indefinitely reinvested. Accordingly, no provision for U.S. federal and state income taxes or foreign withholding taxes has been provided on such undistributed

earnings. Determination of the potential amount of unrecognized deferred U.S. income tax liability and foreign withholding taxes is not practicable because of the complexities associated with its hypothetical calculation; however, unrecognized foreign tax credits would be available to reduce some portion of the U.S. liability.

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During 2012, China's State Administration of Taxation issued Circular 15 which required us to reevaluate our foreign deferred tax assets relating to our Chinese subsidiaries. These subsidiaries have recorded a deferred tax asset for social insurance and housing funds with the intent of being able to deduct these expenses once such liabilities have been settled. Circular 15 stipulates that payments into the aforementioned funds must be made within five years of recording the initial accrual or the tax deduction for these expenses will be forfeited. At December 31, 2016, we evaluated fund payments made prior to the preceding five years and determined that none of our foreign deferred tax assets related to social insurance and housing would provide a future tax benefit due to the change in Chinese law. In adhering to the new law, we recorded increases to income tax expense of \$0.6 million and \$0.7 million for the years ended December 31, 2015 and 2014, respectively, relating to decreases in the deferred tax assets of our Chinese subsidiaries.

Uncertain Tax Positions

At December 31, 2016 and 2015, we had unrecognized tax benefits of approximately \$3.9 million and \$3.7 million, including interest and penalties, respectively. We classify interest and penalties as components of tax expense. Interest and penalties were \$0.3 million, \$0.2 million, and \$0.2 million for the years ended December 31, 2016, 2015 and 2014, respectively. Interest and penalties are included in the unrecognized tax benefits.

Changes to our gross unrecognized tax benefits were as follows:

(In thousands)	Year ended December 31,		
	2016	2015	2014
Balance at beginning of period	\$3,469	\$3,486	\$3,490
Additions as a result of tax provisions taken during the current year	305	463	213
Subtractions as a result of tax provisions taken during the prior year	—	(161 )	(150 )
Foreign currency translation	(93 )	(79 )	(8 )
Lapse in statute of limitations	(67 )	(241 )	(59 )
Settlements	—	—	—
Other	8	1	—
Balance at end of period	\$3,622	\$3,469	\$3,486

Approximately \$3.6 million, \$3.3 million and \$3.2 million of the total amount of gross unrecognized tax benefits at December 31, 2016, 2015 and 2014, respectively, if not for the state Research and Experimentation income tax credit valuation allowance, would affect the annual effective tax rate, if recognized. We are unaware of any positions for which it is reasonably possible that the total amounts of unrecognized tax benefits will significantly change within the next twelve months. We anticipate a decrease in gross unrecognized tax benefits of approximately \$0.1 million within the next twelve months based on federal, state, and foreign statute expirations in various jurisdictions. We have classified uncertain tax positions as non-current income tax liabilities unless expected to be paid within one year. We file income tax returns in the U.S. federal jurisdiction and in various state and foreign jurisdictions. At December 31, 2016, the open statutes of limitations for our significant tax jurisdictions are the following: federal are 2013 through 2015, state are 2012 through 2015 and foreign are 2010 through 2015.

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## Note 10 — Accrued Compensation

The components of accrued compensation were as follows:

(In thousands)	December 31,	
	2016	2015
Accrued social insurance <sup>(1)</sup>	\$19,974	\$18,923
Accrued salary/wages	7,903	7,549
Accrued vacation/holiday	2,411	2,227
Accrued bonus <sup>(2)</sup>	2,421	5,914
Accrued commission	933	1,084
Accrued medical insurance claims	122	218
Other accrued compensation	1,816	1,537
Total accrued compensation	\$35,580	\$37,452

Effective January 1, 2008, the Chinese Labor Contract Law was enacted in the PRC. This law mandated that PRC employers remit the applicable social insurance payments to their local government. Social insurance is comprised of various components such as pension, medical insurance, job injury insurance, unemployment insurance, and a housing assistance fund, and is administered in a manner similar to social security in the United States. This amount represents our estimate of the amounts due to the PRC government for social insurance on December 31, 2016 and 2015.

Accrued bonus includes an accrual for an extra month of salary ("13<sup>th</sup> month salary") to be paid to employees in certain geographies where it is the customary business practice. This 13<sup>th</sup> month salary is paid to these employees if they remain employed with us through December 31st. The total accrued for the 13<sup>th</sup> month salary was \$0.7 million and \$0.7 million at December 31, 2016 and 2015, respectively.

## Note 11 — Other Accrued Expenses

The components of other accrued expenses were as follows:

(In thousands)	December 31,	
	2016	2015
Advertising and marketing	\$213	\$191
Deferred revenue	1,431	1,434
Duties	1,127	1,318
Freight and handling fees	1,919	1,942
Product development	454	630
Product warranty claim costs	134	35
Professional fees	1,313	1,714
Property, plant and equipment	1,017	551
Sales taxes and VAT	2,715	3,170
Third-party commissions	853	585
Tooling <sup>(1)</sup>	1,520	1,173
Unrealized loss on foreign currency exchange contracts	1,623	1,164
URC court order and settlement agreement (Notes 3 and 13)	6,622	4,629
Utilities	331	278
Other	3,138	2,652
Total other accrued expenses	\$24,410	\$21,466

<sup>(1)</sup> The tooling accrual balance relates to unearned revenue for tooling that will be sold to customers.



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## Related Party Vendor

We have obtained certain engineering support services for our India subsidiary from JAP Techno Solutions ("JAP"). The owner of JAP is the spouse of the managing director of our India operations. Total fees paid to JAP for the years ended December 31, 2015 and 2014 were \$77 thousand and \$39 thousand, respectively. No amounts were paid to this vendor during the year ended December 31, 2016.

## Note 12 — Leases

We lease land, office and warehouse space, and certain office equipment under operating leases that expire at various dates through November 30, 2060.

Rent expense for our operating leases was \$4.0 million, \$3.6 million and \$3.7 million for the years ended December 31, 2016, 2015 and 2014, respectively.

Estimated future minimum non-cancelable operating lease payments at December 31, 2016 were as follows:

(In thousands)	Amount
2017	\$3,778
2018	2,983
2019	1,636
2020	1,247
2021	1,255
Thereafter	1,167

Total operating lease commitments \$12,066

## Non-level Rents and Lease Incentives

Some of our leases are subject to rent escalations. For these leases, we recognize rent expense for the total contractual obligation utilizing the straight-line method over the lease term, ranging from 48 months to 125 months. The related short term liability is recorded in other accrued expenses (see Note 11) and the related long term liability is recorded in other long term liabilities. The total liability related to rent escalations was \$1.1 million and \$1.1 million at December 31, 2016 and 2015, respectively.

The lease agreement for our corporate headquarters contains an allowance for moving expenses and tenant improvements of \$1.5 million. These moving and tenant improvement allowances are recorded within other accrued expenses and other long term liabilities, depending on the short-term or long-term nature, and are being amortized as a reduction of rent expense over the 125-month term of the lease, which began on May 15, 2012.

## Rental Costs During Construction

Rental costs associated with operating leases incurred during a construction period are expensed.

## Prepaid Land Leases

We operate two factories within the PRC on which the land is leased from the government as of December 31, 2016. These land leases were prepaid to the PRC government at the time our subsidiary occupied the land. We have obtained land-use right certificates for the land pertaining to these factories.

The first factory is located in the city of Guangzhou in the Guangdong province. The remaining net book value of this prepaid lease was \$1.1 million on December 31, 2016, and will be amortized on a straight-line basis over approximately 14 years. The buildings located on this land had a net book value of \$11.2 million on December 31, 2016 and will be depreciated over a remaining weighted average period of 16 years. As further discussed in Note 13, this factory is subject to a pending sale that is expected to close in 2018.

The second factory is located in the city of Yangzhou in the Jiangsu province. The remaining net book value of this prepaid lease was \$2.6 million on December 31, 2016, and will be amortized on a straight-line basis over the remaining term of approximately 42 years. The buildings located on this land had a net book value of \$20.8 million on December 31, 2016 and will be depreciated over a remaining weighted average period of 23 years.





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The remaining net book value of prepaid land leases is included within prepaid expenses and other current assets and other assets, depending on the short term or long term nature.

#### Note 13 — Commitments and Contingencies

##### Indemnifications

We indemnify our directors and officers to the maximum extent permitted under the laws of the state of Delaware and we have entered into indemnification agreements with each of our directors and executive officers. In addition, we insure our individual directors and officers against certain claims and attorney's fees and related expenses incurred in connection with the defense of such claims. The amounts and types of coverage may vary from period to period as dictated by market conditions. Management is not aware of any matters that require indemnification of its officers or directors.

##### Fair Price Provisions and Other Anti-Takeover Measures

Our Restated Certificate of Incorporation, as amended, contains certain provisions restricting business combinations with interested stockholders under certain circumstances and imposing higher voting requirements for the approval of certain transactions ("fair price" provisions). Any of these provisions may delay or prevent a change in control.

The "fair price" provisions require that holders of at least two-thirds of our outstanding shares of voting stock approve certain business combinations and significant transactions with interested stockholders.

##### Product Warranties

Changes in the liability for product warranty claim costs were as follows:

(In thousands)	Year Ended		
	December 31,		
	2016	2015	2014
Balance at beginning of period	\$35	\$353	\$41
Accruals for warranties issued during the period	102	23	1,178
Settlements (in cash or in kind) during the period	(3 )	(341 )	(866 )
Balance at end of period	\$134	\$35	\$353

##### Restructuring Activities and Sale of Guangzhou Factory

In the first quarter of 2016, we implemented a plan to reduce our manufacturing costs by transitioning manufacturing activities from our southern-most China factory, located in the city of Guangzhou in the Guangdong province, to our other three China factories where labor rates are lower. As a result, we incurred severance costs of \$4.5 million during the year ended December 31, 2016, which are included within selling, general and administrative expenses. We expect to incur additional severance costs of approximately \$7 million as we continue to execute this transition over the next nine to 12 months. Because severance costs relate to involuntary terminations, we record the related liability at the communication date. At December 31, 2016, we had \$2.7 million of unpaid severance costs included within accrued compensation.

On September 26, 2016, we entered into an agreement to sell our Guangzhou manufacturing facility for RMB 320 million (approximately \$46 million based on December 31, 2016 exchange rates). Under the terms of the agreement, we have up to 24 months to cease all operations within the facility. The closing of the sale will be subject to customary due diligence and local regulatory approval and is expected to be completed within approximately 28 months from the execution of the agreement. In accordance with the terms of the agreement, the buyer deposited 10% of the purchase price into an escrow account upon the execution of the agreement, which we have presented as long-term restricted cash in our consolidated balance sheet (also refer to Note 3). The remaining balance of the purchase price is to be placed into the escrow account prior to the closing of the sale and will be released to us upon closing.