

KVH INDUSTRIES INC \DE\  
Form 10-K  
March 14, 2011  
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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 10-K**

(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, 2010

**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 0-28082

**KVH Industries, Inc.**

*(Exact Name of Registrant as Specified in its Charter)*

**Delaware**  
*(State or Other Jurisdiction of Incorporation or Organization)*

**05-0420589**  
*(I.R.S. Employer Identification Number)*

**50 Enterprise Center, Middletown, RI 02842**

*(Address of Principal Executive Offices) (Zip Code)*

**(401) 847-3327**

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(Registrant's Telephone Number, Including Area Code)

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

Title of Each Class	Name of Each Exchange on Which Registered
Common Stock, \$0.01 par value per share	The NASDAQ Global Market

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if 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 Exchange 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 (or for such shorter period that the registrant was required to file such reports), 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, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). **Yes**  **No**

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 this 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 <input type="checkbox"/>	Accelerated filer <input checked="" type="checkbox"/>
Non-accelerated filer <input type="checkbox"/>	Smaller reporting company <input type="checkbox"/>

(Do not check if a smaller reporting company)

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

As of June 30, 2010, the aggregate market value of the registrant's common stock held by non-affiliates of the registrant was \$156,733,681 based on the closing sale price of \$12.42 per share as reported on the NASDAQ Global Market.

As of March 4, 2011, the registrant had 14,757,082 shares of common stock outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement relating to its 2011 Annual Meeting of Stockholders are incorporated herein by reference in Part III.

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**PART I**

**ITEM 1. Business**

**Cautionary Statement Regarding Forward-Looking Information**

In addition to historical facts, this annual report contains forward-looking statements. Forward-looking statements are merely our current predictions of future events. These statements are inherently uncertain, and actual events could differ materially from our predictions. Important factors that could cause actual events to vary from our predictions include those discussed in this annual report under the headings "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations," and "Item 1A. Risk Factors." We assume no obligation to update our forward-looking statements to reflect new information or developments. We urge readers to review carefully the risk factors described in this annual report and in the other documents that we file with the Securities and Exchange Commission. You can read these documents at [www.sec.gov](http://www.sec.gov).

**Additional Information Available**

Our principal Internet address is [www.kvh.com](http://www.kvh.com). Our website provides a hyperlink to a third-party website through which our annual, quarterly, and current reports, as well as amendments to those reports, are available free of charge. We believe these reports are made available as soon as reasonably practicable after we electronically file them with, or furnish them to, the SEC. We do not provide any information regarding our SEC filings directly to the third-party website, and we do not check its accuracy or completeness.

**Introduction**

We are a leading manufacturer of solutions that provide global high-speed Internet, television, and voice services via satellite to mobile users at sea, on land, and in the air. We are also a premier manufacturer of high-performance navigational sensors and integrated inertial systems for defense and commercial guidance and stabilization applications. Our research and development, manufacturing and quality control capabilities have enabled us to meet the demanding standards of our military, consumer and commercial customers for performance and reliability. This combination of factors has allowed us to create products offering important differentiating advantages to our customers. We are based in Middletown, Rhode Island, with offices in Illinois, Denmark, Norway and Singapore.

We sell our mobile communications products and airtime services, including the TracVision, TracPhone, and CommBox™ systems and mini-VSAT Broadband airtime, through an extensive international network of distributors and retailers worldwide. We are nearing completion of the initial global coverage plan for our mini-VSAT Broadband service, which primarily supports maritime applications along with land-based mobile and aeronautical uses on a more limited basis currently. We may also pursue expanded coverage in the future to support customer, market, or capacity demands. We also developed and now manufacture a satellite TV antenna system sold on an original equipment manufacturer, or OEM, basis to LiveTV, LLC, a leading provider of entertainment systems on commercial aircraft. In addition, we are pursuing opportunities to apply our mobile communications expertise to military applications that require affordable, high-bandwidth mobile connections.

Our guidance and stabilization products include precision fiber optic gyro (FOG)-based systems that help stabilize platforms, such as gun turrets, remote weapon stations, and radar units, and provide guidance for munitions, as well as tactical navigation systems for a broad range of military vehicles. We sell our guidance and stabilization products directly to United States (U.S.) and allied governments and government contractors, as well as through an international network of authorized independent sales representatives. Our fiber optic products are also used in such commercial applications as train track geometry measurement systems, industrial robotics, surveying, optical stabilization, autonomous vehicles, and undersea remotely operated submersibles.

In September 2010, we acquired Virtek Communication AS, which develops and distributes middleware software solutions known as CommBox technology, which will be integrated into our satellite communications products.

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### **Our Products and Services**

#### ***Mobile Satellite Communications***

We believe that there is an increasing demand for mobile access to television, voice services and the Internet on the move. Our objective is to connect mobile users on sea, land, and air to the satellite TV, communications, and Internet services they wish to use. We have developed a comprehensive family of products and services marketed under the TracVision, TracPhone, and CommBox brand names as well as the mini-VSAT Broadband airtime network to address the unique needs of our communications markets.

Our mobile satellite products are typically installed on mobile platforms and use sophisticated robotics, stabilization and control software, sensing technologies, transceiver integration, and advanced antenna designs to automatically search for, identify and point directly at the selected television and communications satellite while the vehicle, vessel, or plane is in motion. Our antennas use gyros and inclinometers to measure the pitch, roll and yaw of an antenna platform in relation to the earth. Microprocessors and our proprietary stabilization and control software use that data to compute the antenna movement necessary for the antenna's motors to point the antenna properly and maintain contact with the satellite. If an obstruction temporarily blocks the satellite signal, our products continue to track the satellite's location according to the movement of the antenna platform in order to carry out automatic, rapid reacquisition of the signal when a direct line of sight to the satellite is restored.

Our Certified Support Network offers our TracVision and TracPhone customers an international network of skilled technical dealers and support centers in many locations where our customers are likely to travel. We have selected distributors based on their technical expertise, professionalism and commitment to quality and regularly provide them with extensive training in the sale, installation and support of our products.

We offer a broad array of products to address the needs of a variety of customers seeking mobile communications in maritime, land mobile and aeronautical applications.

*Marine.* In the marine market, we offer a range of mobile satellite TV and communications products. In December 2009, we began selling the TracVision HD7, a 24-inch diameter satellite TV antenna capable of receiving signals from two DIRECTV Ka-band satellites and one DIRECTV Ku-band satellite simultaneously to offer a high-definition TV experience comparable to what a home DIRECTV HDTV subscriber would enjoy. It includes an Internet Protocol-enabled antenna control unit as well as optional antenna controls via a free TracVision application for use on an Apple iPhone. We believe that this is the first marine antenna to offer this combination of capabilities. Our marine TracVision M-series satellite TV antennas are designed with the full spectrum of vessel sizes in mind, ranging from recreational vessels as small as 20 to 25 feet to large commercial vessels. The award-winning family of marine TracVision products vary in size from a lower-profile elliptical parabolic system similar to those offered for use on recreation vehicles (RV) to the 12.5-inch TracVision M1, 14.5-inch TracVision M3, 18-inch TracVision M5, 24-inch TracVision M7, and 32-inch diameter TracVision M9, each of which employs a high-efficiency circular antenna. These products are compatible with Ku-band HDTV programming as well as high-powered regional satellite TV services around the globe, based on available signal strength and antenna size requirements.

*Broadband Internet.* In 2007, we introduced our Ku-band airtime service branded as mini-VSAT Broadband. This service utilizes spread spectrum technology and ArcLight modem technology, both of which were developed by ViaSat. This spread spectrum approach reduces the broadcast power requirements and the pointing accuracy necessary to track the high-bandwidth Ku-band satellites that carry the service. The resulting efficiencies allowed us to develop and bring to market the 24-inch diameter TracPhone V7 antenna, which we also introduced in 2007. This antenna is 85% smaller by volume and 75% lighter than alternative 1-meter VSAT antennas. In February 2011, we introduced a new addition to our mini-VSAT Broadband-compatible antenna family, the 14.5-inch diameter TracPhone V3. We believe that the TracPhone V3 is the smallest maritime VSAT system currently available. Its small size makes it practical for use on smaller vessels as well as land vehicles. We currently expect to begin TracPhone V3 shipments during the second quarter of 2011.

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The high bandwidth offered by the Ku-band satellites also permits faster data rates than those supported by Inmarsat's L-band satellites. TracPhone V7 subscribers may select service packages with Internet data connections offering ship-to-shore satellite data rates as fast as 512 Kbps, or kilobits per second, and shore-to-ship satellite data rates as fast as 2 Mbps, or megabits per second. The TracPhone V3, due to its smaller dish diameter, offers ship-to-shore data rates as fast as 128 Kbps and shore-to-ship satellite data rates as fast as 2 Mbps. In addition, subscriptions include Voice over Internet Protocol (VoIP) telephone services optimized for use over satellite connections. The TracPhone V7 can support two or more simultaneous calls while the TracPhone V3 can support one call at a time.

We are actively engaged in sales efforts for the TracPhone V7 and mini-VSAT Broadband service to government agencies for maritime, military, and emergency responder use. In September 2010, the U.S. Coast Guard awarded us a 10-year, up to \$42 million contract to supply TracPhone V7 systems and mini-VSAT Broadband airtime to as many as 216 U.S. Coast Guard light cutters. We are also taking steps to expand our ability to support the commercial maritime market. In February 2010, we entered into a distribution agreement with Japan Radio Co. Ltd. (JRC), under which JRC is reselling our TracPhone V7 through its established channels. JRC also sells the mini-VSAT Broadband airtime service to non-Japanese vessels and owners. In October 2010, we entered into an agreement with Furuno Electric Co. Ltd., under which Furuno will sell mini-VSAT Broadband service through its global distribution network. In March 2011, we signed a contract to provide TracPhone V7 and mini-VSAT Broadband service to Vroon B.V. and its fleet of more than 125 commercial vessels.

Service is currently offered in the north Pacific Ocean, the Americas, Caribbean, North Atlantic, Europe, the Persian Gulf, Asia-Pacific, Africa, Brazil, Australian and New Zealand waters, and the Indian Ocean. We believe that our mini-VSAT Broadband service represents the only global multi-megabit commercial satellite communications network for vessels and airplanes. This unified Ku-band Broadband service enables us to offer commercial, leisure and government customers an integrated hardware and service solution for mobile communications and seamless region-to-region roaming. It is our long-term plan to invest in and deploy the mini-VSAT Broadband network on a global basis in cooperation with ViaSat under the terms of a 10-year agreement announced in July 2008. As part of the coverage expansion, we have been acquiring satellite capacity from Ku-band satellite operators as well as purchasing regional satellite hubs from ViaSat. These hubs use ViaSat's ArcLight spread spectrum mobile broadband technology and are operated by ViaSat on our behalf. Over the course of the 10-year agreement, we and ViaSat also expect to implement future enhancements to the mini-VSAT Broadband spread spectrum maritime services and related products. Under the terms of our revenue sharing arrangement with ViaSat, this expansion positions us to earn revenue not only from the maritime and land-based use of the mini-VSAT Broadband service but also from aeronautical applications that roam throughout our network.

This broadband Internet offering represents a relatively new business model for KVH. We are the source of the mini-VSAT Broadband service and, as a result, we generate revenue from hardware sales as well as recurring monthly revenue derived from subscription packages. We offer a selection of airtime subscription plans designed to provide leisure, commercial, and government customers the flexibility to select packages that best suit their data and voice usage patterns and their budgets. Airtime options for the TracPhone V7 include fixed-rate subscription packages ranging from \$995 to \$8,995 per month, seasonal fixed-rate packages that permit subscribers to use their system for as little as three months per year, and per-megabyte service plans that we believe can be significantly more affordable than competing legacy VSAT and Inmarsat offerings in many instances. Service pricing for TracPhone V3 subscribers will be provided on a per-megabyte basis for data services and a per-minute basis for voice calls.

In addition to our TracPhone V7, V3 and mini-VSAT Broadband service, we also offer a family of Inmarsat-compatible TracPhone products that provide in-motion access to global satellite communications. These products rely on services offered by Inmarsat, a satellite service provider that supports links for phone, fax and data communications as fast as 432 Kbps. The TracPhone F77 uses the Inmarsat Fleet service; the TracPhone FB150, FB250, and FB500 antennas use the Inmarsat FleetBroadband service to offer voice as well as high-speed Internet service. The TracPhone F77, FB150, FB250, and FB500 are manufactured by Thrane & Thrane

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A/S of Denmark and distributed on an OEM basis by us in North America under the KVH TracPhone brand and distributed in other markets on a non-exclusive basis. Unlike mini-VSAT Broadband, where we control and sell the airtime, we purchase Inmarsat airtime from a distributor and resell it to our customers.

In September 2010, we completed our acquisition of Virtek Communication, a Norwegian firm responsible for developing a ship/shore network management product called CommBox. We believe that the addition of a network management resource was crucial to the long-term success and competitive position of our satellite communication product line, especially within the commercial maritime market. CommBox, which comprises shipboard hardware, a KVH-hosted or privately owned shore-based hub, and a suite of software applications, offers a range of tools designed to increase communication efficiency, reduce costs, and manage network operations. Key functions include web and data compression and optimization to increase network capacity; remote PC management for customer IT departments; integrated e-mail, web compression, firewalls, and security; least-cost routing; and bandwidth management on multiple communication carriers. CommBox is now offered as an option for the TracPhone V7, V3 and with our Inmarsat-compatible TracPhone systems. CommBox sales include both the shipboard hardware and optional private shore-based hub, subscriptions to the selected software applications, and monthly system maintenance fees.

*Land.* We design, manufacture, and sell a range of TracVision satellite TV antenna systems for use on a broad array of vehicles, including recreational vehicles, trucks, conversion vans, and automobiles.

In the RV/truck market, we offer a line-up of our TracVision satellite TV products, including products intended for both stationary and in-motion use. Our RV product line, known as the TracVision SlimLine series, offers Ku-band HDTV support, automatic satellite switching, and integrated compatibility with the international DVB (Digital Video Broadcast) standard. The 12.5-inch high in-motion TracVision R5SL and stationary automatic TracVision R4SL use an elliptical parabolic antenna to reduce the antenna's profile to address height restrictions on the road. The in-motion 12.5-inch high TracVision R6 is the flagship product of our RV-specific offerings. This system incorporates a number of innovations, including a high-efficiency antenna, integrated global positioning system (GPS) for faster satellite acquisition, and our patented DewShield electronic dew elimination technology.

The TracVision A7 uses hybrid phased-array antenna technology to provide in-motion reception of satellite TV programming in the continental United States using the DIRECTV service. Our TracVision A7 product includes a mobile satellite television antenna and an integrated 12V mobile DIRECTV receiver/controller designed specifically for the mobile environment by KVH and DIRECTV. The TracVision A7 stands approximately five inches high and mounts either to a vehicle's roof rack or directly to the vehicle's roof, making it practical for use aboard minivans, SUVs and other passenger vehicles. The TracVision A7 is also popular for tall motor coaches and buses. Automotive customers subscribe to DIRECTV's TOTAL CHOICE MOBILE satellite TV programming package, which is specifically promoted for automotive applications. Local channels and network programming are also available as an option for TracVision A7 users as a result of the system's integrated GPS and mobile receiver. At this time, we are the only company authorized by DIRECTV to sell, promote, and activate mobile users for the TOTAL CHOICE MOBILE programming package.

In addition to sales through aftermarket dealers, we sell our TracVision products to original equipment manufacturers for factory installation on new vehicles. Our TracVision SlimLine systems work with a range of service providers, including DIRECTV, DISH Network, and other regional service providers. Although initially designed for automotive applications, the TracVision A7 is now also sold within the RV marketplace to provide access to DIRECTV programming in in-motion applications and for vehicles with height restrictions that could prevent them from safely using a satellite TV antenna based on parabolic technology, and/or where the accumulation of moisture on the outer surface of the antenna's radome is not a concern.

*Aeronautical Applications.* In February 2008, we announced that we had been awarded a \$20.1 million contract by LiveTV, a leading in-flight entertainment supplier, which was subsequently increased in 2009 to

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\$20.9 million. Under the terms of the multi-year contract, we design, develop, and manufacture new DIRECTV-compatible satellite TV antennas for use on narrowbody commercial aircraft, such as Boeing s 737 and the Airbus A320, operating in the United States.

Shipments of these antennas began in the second quarter of 2009 and continued into 2010. They are intended to help fill the growing demand from airlines and passengers for live television in the air. While JetBlue Airways Corporation is the first and best known of the airlines to add DIRECTV service, Continental Airlines, Inc. began working in 2009 with LiveTV to field satellite television on its fleet of airliners. In the fourth quarter of 2010, Continental Airlines, Inc. merged with United Airlines. Both companies are now subsidiaries of United Continental Holdings. The merger has not had any impact on the original contract or the sales relationship with LiveTV.

### ***Guidance and Stabilization Products***

We offer a portfolio of digital compass and fiber optic gyro-based systems that address the rigorous requirements of military and commercial customers. Our systems provide reliable, easy-to-use and continuously available navigation and pointing data. Our guidance and stabilization products include our inertial measurement unit for precision guidance, fiber optic gyros for tactical navigation and stabilization, and digital compasses that provide accurate heading information for demanding applications.

*Guidance and Stabilization.* Our fiber optic gyro products use an all-fiber design that has no moving parts, resulting in an affordable combination of precision, accuracy and durability. Our fiber optic gyro products support a broad range of military applications, including stabilization of remote weapons stations, antennas, radar, optical devices or turrets; image stabilization and synchronization for shoulder-or tripod-mounted weapon simulators; precision tactical navigation systems for military vehicles, and guidance for weapons and unmanned autonomous vehicles. Our fiber optic gyro products are also used in commercial and industrial applications, such as train location control and track geometry measurement systems, robotics, surveying, optical stabilization, autonomous vehicles, and undersea remotely operated submersibles.

Our TG-6000 Inertial Measurement Unit (IMU) is a guidance system that provides precise measurement of motion and acceleration in three dimensions. It uses a three-axis configuration of our high-performance DSP-based (digital signal processing) fiber optic gyros integrated with three accelerometers. We believe that this configuration provides outstanding performance, high reliability, low maintenance and easy system integration. The TG-6000 IMU is in full production as a component in the U.S. Navy s MK54 lightweight torpedo and is suitable for use in other applications that involve flight control, orientation, instrumentation and navigation, such as unmanned aerial vehicles. Building on our inertial measurement product offering, in June 2010, we introduced the CG-5100, our first commercial-grade inertial measurement unit. The CG-5100 is focused on a wide range of applications such as 3D Augmented Reality, mobile mapping, platform navigation and GPS augmentation for unmanned vehicle programs, precise mapping and imagery.

In October 2008, we introduced the CNS-5000 continuous navigation system, a self-contained navigation system that combines our fiber optic gyro-based inertial measurement technology with GPS technology from NovAtel. This navigation solution provides precise position and orientation of a host platform on a continuous basis, even during periods where GPS signals are blocked by natural or man-made obstructions or conditions. The CNS-5000 is designed for demanding commercial applications, such as dynamic surveying, precision agriculture, container terminal management, and autonomous vehicle navigation, where the ability to determine the precise position and orientation of a piece of equipment or a mobile platform is critical. The CNS-5000 is a commercial-off-the-shelf (COTS) product consisting of a FOG-based inertial measurement unit tightly integrated with GPS within a single enclosure. This design reduces the operational complexities for customers whose products cross international boundaries.

Our open-loop DSP-1500, DSP-3000 series, and DSP-4000 fiber optic gyros provide precision measurement of the rate and angle of a platform s turning motion typically for significantly less cost than competing



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closed-loop gyros. These DSP-based products deliver performance superior to analog signal processing devices, which experience greater temperature-sensitive drift and rotation errors. Applications for these products include inertial measurement units, integrated navigation systems, attitude/heading/reference systems, and stabilization of antenna, radar and optical equipment.

We believe that our DSP-1500 fiber optic gyro is the world's smallest precision fiber optic gyro. Its optical sensor is only 1.5 inches in diameter and 0.8 inches tall, and weighs just 0.09 lbs. Thanks to the tethered design, the sensor can be installed separately from the power and processing circuit boards. The small size and weight of the DSP-1500 make it well suited for applications with size and weight restrictions, such as night vision and thermal imaging systems, aircraft-mounted gimballed cameras for law enforcement and homeland security, and shipboard optical systems.

The DSP-3000 series is slightly larger than a deck of playing cards and offers a variety of interface options to support a range of applications. High-performance 2-axis and 3-axis configurations can be realized by integrating multiple DSP-3000 units. Currently, the DSP-3000 series is used in an array of pointing and stabilization applications, including the U.S. Army's Common Remotely Operated Weapon Station (CROWS) to provide the image and gun stabilization necessary to ensure that the weapon remains aimed at its target. We estimate that more than 20 companies have developed or are developing stabilized remote weapons stations that we believe will require similar fiber optic gyro stabilization capabilities. Our fiber optic products are also used in commercial and industrial applications, such as train location control and track geometry measurement systems, robotics, precision surveying, augmented reality systems, optical stabilization, autonomous vehicles, and undersea remotely operated submersibles. The larger, militarized DSP-4000 is designed for use in high-shock and highly dynamic environments, such as gun turret stabilization.

*Tactical Navigation.* Our TACNAV tactical navigation product line employs digital compass sensors and KVH fiber optic gyros to offer vehicle-based navigation and pointing systems with a range of capabilities, including GPS backup and enhancement, vehicle position, hull azimuth and navigation displays. Because our digital compass products measure the earth's magnetic field rather than detect satellite signals from the GPS, they are not susceptible to GPS jamming devices.

TACNAV systems vary in size and complexity to suit a wide range of vehicles. The TACNAV Light is a low-cost, digital compass-based battlefield navigation system specifically designed for non-turreted vehicles, such as high mobility multi-wheeled vehicles (HMMWVs) and trucks. Turreted vehicles, including reconnaissance vehicles, armored personnel carriers and light armored vehicles, are supported by the TACNAV TLS, a digital compass-based tactical navigation and targeting system that offers a fiber optic gyro upgrade for enhanced accuracy. We also manufacture the TACNAV II Fiber Gyro Navigation system, which offers a compact design, continuous output of heading and pointing data, and a flexible architecture that allows it to function as either a stand-alone navigation module or as the central component of an expanded, multifunctional navigation system.

Our navigation systems function as standalone tools and also aggregate, integrate and communicate critical information from a variety of on-board systems. TACNAV can receive data from systems such as the vehicle's odometer, military and commercial GPS devices, laser rangefinders, turret angle indicators and laser warning systems. TACNAV can also output this data to an on-board computer for retransmission through the vehicle's communications systems to a digital battlefield management application.

Our TACNAV digital compass products have been sold for use aboard U.S. Army, Marine Corps, and Navy vehicles as well as to many allied countries, including Australia, the United Kingdom, Canada, Germany, Italy, New Zealand, Saudi Arabia, Spain, Sweden, Taiwan, Malaysia and Switzerland. We believe that we are among the leading manufacturers of such systems. Our standard TACNAV products can be customized to our customers' specifications. At customer request, we offer training and other services on a time-and-materials basis.

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### **Sales, Marketing and Support**

Our sales, marketing and support efforts target markets that are substantial and require dedicated dealers and distributors to reach end customers. These channels vary from time to time, but currently include targeted efforts to reach the leisure and commercial maritime markets, the RV and high-end automotive markets, and the commercial, industrial and government markets. We believe our brands are well known and well respected by consumers within their respective niches. These brands include:

TracVision satellite television systems for vessels and vehicles

TracPhone two-way satellite communications systems

mini-VSAT Broadband broadband mobile satellite communications network

CommBox network management hardware and software for maritime communications

Azimuth digital compass for powerboats

Sailcomp digital compass for sailboats

DataScope handheld digital compass/rangefinder

TACNAV tactical navigation systems for military vehicles

Our fiber optic gyros and digital compass sensors use an alphanumeric model numbering sequence such as C-100, DSP-1500, DSP-3000, DSP-4000, CNS-5000, CG-5100, and TG-6000 IMU.

We sell our mobile satellite communications products through an international network of independent retailers, chain stores and distributors, as well as to manufacturers of vessels and vehicles.

Our European sales subsidiary located in Denmark, KVH Europe A/S (KVH Europe), coordinates our sales, marketing and support efforts for our mobile satellite communications products in Europe, the Middle East, and Africa. Asian and South American sales are managed by our Asian subsidiary, KVH Industries Asia Pte Ltd. and our Brazilian subsidiary, KVH South America Comunicacao Por Satelite Ltda, respectively, under the oversight of our North American sales and marketing offices. Standalone CommBox sales are managed by Virtek Communication in cooperation with members of our satellite sales teams in all offices worldwide. See note 12 of the notes to our consolidated financial statements for information regarding our geographic segments.

We sell our guidance and stabilization products directly to U.S. and allied governments and government contractors, as well as through an international network of authorized independent sales representatives. This same network also sells our fiber optic products to commercial/industrial entities.

### **Backlog**

Our backlog for all products and services was approximately \$20.8 million on December 31, 2010, \$24.5 million on December 31, 2009 and \$12.3 million on December 31, 2008. The decrease in backlog of \$3.7 million from December 31, 2009 to December 31, 2010 was primarily a result of a decrease in orders of our aeronautical antenna system sold to LiveTV. The increase in backlog of \$12.2 million from December 31, 2008 to December 31, 2009 was primarily a result of increased orders for fiber optic gyros in support of remotely operated weapons station programs as well as our aeronautical antenna system sold to LiveTV.

Backlog consists of orders evidenced by written agreements and specified delivery dates for customers who are acceptable credit risks. Military orders included in backlog are generally subject to cancellation for the convenience of the customer. When orders are cancelled, we generally recover actual costs incurred through the date of cancellation and the costs resulting from termination. Individual orders for guidance and stabilization products are often large and may require procurement of specialized long-lead components and allocation of manufacturing resources. The complexity of planning and executing larger orders generally requires customers to order well in advance of the required delivery date, resulting in backlog.



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Backlog is not a meaningful indicator for predicting revenue in future periods. Commercial resellers for our mobile satellite communications products and legacy products do not carry extensive inventories and rely on us to ship products quickly. Generally due to the rapid delivery of our commercial products, our backlog for those products is not significant.

### **Intellectual Property**

Our ability to compete effectively depends to a significant extent on our ability to protect our proprietary information. We rely primarily on patents and trade secret laws, confidentiality procedures and licensing arrangements to protect our intellectual property rights. We own approximately 40 U.S. and foreign patents and have additional patent applications that are currently pending. We also register our trademarks in the United States and other key markets where we do business. Our patents will expire at various dates between March 2013 and July 2028. We enter into confidentiality agreements with our consultants, key employees and sales representatives, and maintain controls over access to and distribution of our technology, software and other proprietary information. The steps we have taken to protect our technology may be inadequate to prevent others from using what we regard as our technology to compete with us.

We do not generally conduct exhaustive patent searches to determine whether the technology used in our products infringes patents held by third parties. In addition, product development is inherently uncertain in a rapidly evolving technological environment in which there may be numerous patent applications pending, many of which are confidential when filed, with regard to similar technologies.

From time to time, we have faced claims by third parties that our products or technologies infringe their patents or other intellectual property rights, and we may face similar claims in the future. Any claim of infringement could cause us to incur substantial costs defending against the claim, even if the claim is invalid, and could distract the attention of our management. If any of our products is found to violate third-party proprietary rights, we may be required to pay substantial damages. In addition, we may be required to re-engineer our products or seek to obtain licenses from third parties to continue to offer our products. Any efforts to re-engineer our products or obtain licenses on commercially reasonable terms may not be successful, which would prevent us from selling our products, and, in any case, could substantially increase our costs and have a material adverse effect on our business, financial condition and results of operations.

### **Manufacturing**

Manufacturing operations for our mobile satellite communications and navigation products consist of light manufacture, final assembly and testing. Manufacturing operations for our fiber optic gyro products are more complex. We produce specialized optical fiber, fiber optic components and sensing coils and combine them with components purchased from outside vendors for assembly into finished goods. We own optical fiber drawing towers where we produce the specialized optical fiber that we use in all of our fiber optic products. Excluding the CommBox product, which we manufacture in Norway, we manufacture our mobile satellite communications products at our headquarters in Middletown, Rhode Island, and utilize a nearby leased facility for warehousing and distribution purposes. We manufacture our navigation and fiber optic gyro products in our facility located in Tinley Park, Illinois.

We contract with third parties for fabrication and assembly of printed circuit boards, injection-molded plastic parts, machined metal components, connectors and housings. We believe there are a number of acceptable vendors for the components we purchase. We regularly evaluate both domestic and foreign suppliers for quality, dependability and cost effectiveness. In some instances we utilize sole-source suppliers to develop strategic relationships to enhance the quality of materials and save costs. Our manufacturing processes are controlled by an ISO 9001:2008-certified quality standards program.

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### **Competition**

We encounter significant competition in all of our markets, and we expect this competition to intensify in the future. Many of our primary competitors are well-established companies and some have substantially greater financial, managerial, technical, marketing, operational and other resources than we do.

In the market for mobile satellite communications products, we compete with a variety of companies. We believe the principal competitive factors in this market are product size, design, performance, reliability, and price.

In the marine market for satellite TV equipment, we compete primarily with NaviSystem Marine Electronics Systems Srl, King Controls, Cobham Sea Tel, Inc., Intellian, Thrane & Thrane A/S and Raymarine. In the marine market for voice, fax, data and Internet communications equipment and services, we compete with Cobham Sea Tel, Inc., Thrane & Thrane A/S, Furuno Electric Co., Ltd., Globalstar LP, Iridium Satellite LLC, Intellian, Ship Equip and JRC. We also face competition from providers of marine satellite data services and maritime VSAT solutions, including MTN/SeaMobile, Speedcast, CapRock, Schlumberger, Ship Equip, Vizada and Stratos.

Foreign competition for our mobile satellite communications products has continued to intensify, most notably from companies based in South Korea that seek to compete primarily on price. We anticipate that this trend of substantial competition from this region will continue.

In the land mobile markets, we compete primarily with King Controls, Cobham TracStar, MotoSAT, and Winegard Company.

In the guidance and stabilization markets, we compete primarily with Honeywell International Inc., Kearfott Guidance & Navigation Corporation, Northrop Grumman Corporation, Goodrich Aerospace, IAI and Fizoptica. We believe the principal competitive factors in these markets are performance, size, reliability, durability and price.

### **Research and Development**

Focused investments in research and development are critical to our future growth and competitive position in the marketplace. Our research and development efforts are directly related to timely development of new and enhanced products that are central to our core business strategy. The industries in which we compete are subject to rapid technological developments, evolving industry standards, changes in customer requirements, and new product introductions and enhancements. As a result, our success depends in part upon our ability, on a cost-effective and timely basis, to continue to enhance our existing products and to develop and introduce new products that improve performance and meet customers operational and cost requirements. Our current research and development efforts include projects to achieve additional cost reductions in our products and the development of new products for our existing marine and land mobile communications markets, and navigation, guidance and stabilization application markets. For example, in February 2011, we introduced a new addition to our mini-VSAT Broadband-compatible antenna family, the 14.5-inch diameter TracPhone V3, and we are currently developing a miniaturized gyro intended for integration within stabilized cameras, drones, and other systems that need very high bandwidth, super low noise sensors.

Our research and development activities consist of projects funded by us, projects funded with the assistance of customer-funded contract research and Small Business Innovative Research (SBIR) grants. Our customer-funded research efforts are made up of contracts with defense and OEM customers, whose performance specifications are unique to their product applications. SBIR projects are generally directed towards the discovery of specific information requested by the government research sponsor. Many of these grants have enhanced our technologies, resulting in new or improved product offerings. Defense and OEM research often results in new product offerings. We strive to be the first company to bring a new product to market, and we use our own funds to accelerate new product development efforts.

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### **Government Regulation**

Our manufacturing operations are subject to various laws governing the protection of the environment and our employees. These laws and regulations are subject to change, and any such change may require us to improve our technologies, incur expenditures, or both, in order to comply with such laws and regulations.

We are subject to compliance with the U.S. Export Administration Regulations. Some of our products have military or strategic applications, and are on the Munitions List of the U.S. International Traffic in Arms Regulations. These products require an individual validated license to be exported to certain jurisdictions. The length of time involved in the licensing process varies and can result in delays of the shipping of the products. Sales of our products to either the U.S. government or its prime contractors are subject to the U.S. Federal Acquisition Regulations.

We are also subject to the laws and regulations of the various foreign jurisdictions in which we offer and sell our products and services, including those of the European Union, Brazil, Norway and Singapore.

### **Employees**

On December 31, 2010, we employed 390 full-time employees. We also employ temporary or contract personnel, when necessary, to provide short-term and/or specialized support for production and other functional projects.

We believe our future success will depend upon the continued service of our key technical and senior management personnel and upon our continued ability to attract and retain highly qualified technical and managerial personnel. None of our employees is represented by a labor union. We have never experienced a work stoppage and consider our relationship with our employees to be good.

### **ITEM 1A. Risk Factors**

*An investment in our common stock involves a high degree of risk. You should carefully consider the following risk factors in evaluating our business. If any of these risks, or other risks not presently known to us or that we currently believe are not significant, develops into an actual event, then our business, financial condition and results of operations could be adversely affected. If that happens, the market price of our common stock could decline.*

#### **Our revenues and results of operations have been and may continue to be adversely impacted by worldwide economic turmoil, credit tightening and associated declines in consumer spending.**

Worldwide economic conditions have experienced a significant downturn over the last two to three years, including slower economic activity, tightened credit markets, inflation and deflation concerns, decreased consumer confidence, reduced corporate profits, reduced or canceled capital spending, adverse business conditions and liquidity concerns. These conditions make it difficult for businesses, governments and consumers to accurately forecast and plan future activities. Although net sales of our FOG products increased \$11.4 million, or 39%, from 2009 to 2010, driven largely by increased sales for commercial applications, such as surveying and optical stabilization, and a range of government and defense applications, including weapons stabilization, there can be no assurance that such an increase will continue in the future. Governments are experiencing significant declines in tax receipts, which may cause them to curtail spending significantly or reallocate funds away from defense programs. There can be no assurances that government responses to the disruptions in the economy will remedy these problems. As a result of these and other factors, customers could slow or suspend spending on our products and services. We may also incur increased credit losses and need to increase our allowance for doubtful accounts, which would have a negative impact on our earnings and financial condition. We cannot predict the timing, duration or ultimate impact of this downturn. We expect our business to continue to be adversely impacted by this downturn.

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Net sales of our mobile communications products are largely generated by discretionary consumer spending, and demand for these products may demonstrate slower growth or decline as a result of continuing weak regional and global economic conditions. Consumer spending tends to decline during recessionary periods and may decline at other times. For example, although sales of our mobile satellite communications products have recently increased, sales of those products declined approximately 27% from 2008 to 2009. These recent increases in sales may not be sustained in future periods. Consumers may choose not to purchase our mobile communications products due to a perception that they are luxury items. As global and regional economic conditions change, including the general level of interest rates, fluctuating oil prices and demand for durable consumer products, demand for our products could be materially and adversely affected.

**Our results of operations could be adversely affected if unseasonably cold weather, prolonged winter conditions, disasters or similar events occur.**

Our marine leisure business is highly seasonal and seasonality can also impact our commercial marine business. We historically have generated the majority of our marine leisure product revenues during the first and second quarters of each year, and these revenues typically decline in the third and fourth quarters of each year, compared to the first two quarters. Our marine leisure business is also significantly affected by the weather. Unseasonably cool weather, prolonged winter conditions, hurricanes, unusual amounts of rain, and natural and other disasters may decrease boating, which could reduce our revenues. Specifically, we may encounter a decrease in new airtime activations as well as an increase in the number of cancellations or temporary suspensions of our airtime service.

**We expect that we could derive an increasing portion of our revenues from commercial leases of mobile communications equipment, rather than sales, which could increase our credit and collection risk.**

We are actively seeking to increase revenues from the commercial markets for our mini-VSAT Broadband service, particularly shipping companies and other companies that deploy a fleet of vessels. In marketing this service, we offer leasing arrangements for the TracPhone antennas to both commercial and leisure customers. If commercial leases become increasingly popular with our customers, we could face increased risks of default under those leases. Defaults could increase our costs of collection (including costs of retrieving leased equipment) and reduce the amount we collect from customers, which could harm our results of operations.

**Our inventory levels could require an inventory write-down if our inventory reduction and rebalancing efforts are ineffective.**

During 2009, we recorded an additional \$1.3 million in inventory charges in order to account for the risk of excess inventory due, in part, to weak consumer demand and during 2010, we wrote off approximately \$0.6 million of fully reserved inventory. However, if our future inventory reduction and rebalancing efforts are unsuccessful or take an extended period of time, we may have to consider additional, more sizeable inventory reserves or write-downs to address potential excess and obsolete inventory, and our gross margins may fall below historical levels, which would adversely affect our financial results.

**Adverse economic conditions could result in financial difficulties or bankruptcy for any of our suppliers, which could adversely affect our business and results of operations.**

The significant downturn in worldwide economic conditions and credit tightening could present challenges to our suppliers, which could result in disruptions to our business, increase our costs, delay shipment of our products and impair our ability to generate and recognize revenue. To address their own business challenges, our suppliers may increase prices, reduce the availability of credit, require deposits or advance payments or take other actions that may impose a burden on us.

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They may also reduce production capacity, slow or delay delivery of products, face challenges meeting our specifications or otherwise fail to meet our requirements. In some cases, our suppliers may face bankruptcy. We may be required to identify, qualify and engage new suppliers, which would require time and the attention of management. Any of these events could impair our ability to deliver our products to customers in a timely and cost-effective manner, cause us to breach our contractual commitments or result in the loss of customers.

### **Shifts in our product sales mix toward our mobile communications products may reduce our overall gross margins.**

Our mobile communications products historically have had lower product gross margins than our guidance and stabilization products. During the first three quarters of 2008, sales of our guidance and stabilization products either declined or grew at a substantially lower rate than our overall sales growth. During the fourth quarter of 2008 and the years ended December 31, 2009 and 2010, we experienced a significant increase in sales of our guidance and stabilization products, primarily due to an increase in our FOG product sales. A shift in our product sales mix toward mobile communications products would likely cause lower gross margins in the future, especially if driven by reduced demand.

### **We must generate a certain level of sales of the TracPhone V7, TracPhone V3 and our mini-VSAT Broadband service in order to improve our service gross margins.**

As a result of our continued build-out of the mini-VSAT Broadband network infrastructure, our cost of service sales includes certain fixed costs that do not vary with the volume of service sales. These fixed costs are increasing as we expand our network across the globe and we have an extremely limited ability to reduce these fixed costs in the short term. If sales of our TracPhone V7, TracPhone V3 and the mini-VSAT Broadband service do not generate the level of revenue that we expect or decline, our service gross margins may remain below historical levels or decline. For example, our overall service gross margin, which also includes product repair sales, Inmarsat airtime sales, and contracted engineering sales, declined from 26% for the year ended December 31, 2009 to 20% for the year ended December 31, 2010. The failure to improve our mini-VSAT Broadband service gross margins would have a material adverse effect on our overall profitability.

### **Competition may limit our ability to sell our mobile communications products and guidance and stabilization products.**

The mobile communications markets and defense navigation, guidance and stabilization markets in which we participate are very competitive, and we expect this competition to persist and intensify in the future. We may not be able to compete successfully against current and future competitors, which could impair our ability to sell our products. For example, improvements in the performance of lower cost gyros by competitors could potentially jeopardize sales of our fiber optic gyros. Foreign competition for our mobile satellite communications products has continued to intensify, most notably from companies that seek to compete primarily on price. We anticipate that this trend of substantial competition will continue.

In the market for marine satellite TV equipment, we compete with NaviSystem Marine Electronic Systems Srl, King Controls, Cobham Sea Tel, Inc., Raymarine, Thrane & Thrane A/S and Intellian.

In the market for maritime broadband service we compete with Speedcast, MTN/SeaMobile, CapRock, Schlumberger, Ship Equip, Vizada and Stratos.

In the marine market for satellite communications equipment, we compete with Cobham Sea Tel, Inc., Furuno Electric Co., Ltd., Globalstar LP, Thrane & Thrane A/S, Intellian, Ship Equip, JRC and Iridium Satellite LLC.

In the market for land mobile satellite TV equipment, we compete with MotoSAT, King Controls, Cobham TracStar and Winegard Company.



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In the guidance and stabilization markets, we compete primarily with Honeywell International Inc., Kearfott Guidance & Navigation Corporation, Northrop Grumman Corporation, Goodrich Aerospace, IAI, and Fizoptica.

Among the factors that may affect our ability to compete in our markets are the following:

many of our primary competitors are well-established companies that could have substantially greater financial, managerial, technical, marketing, personnel and other resources than we do;

product improvements, new product developments or price reductions by competitors may weaken customer acceptance of, and reduce demand for, our products;

new technology or market trends may disrupt or displace a need for our products; and

our competitors may have lower production costs than we do, which may enable them to compete more aggressively in offering discounts and other promotions.

**The emergence of a competing small maritime VSAT antenna and complementary service or other similar service could reduce the competitive advantage we believe we currently enjoy with our 24-inch diameter TracPhone V7 and 14.5-inch diameter TracPhone V3 antennas along with our integrated mini-VSAT Broadband service.**

Our TracPhone V7 and TracPhone V3 systems offer customers a range of benefits due to their integrated design, hardware costs that are lower than existing maritime VSAT systems, and spread spectrum technology. We currently compete against companies that offer established maritime VSAT service using, in some cases, antennas 1-meter in diameter or larger. While we are unaware of any company offering a 14.5-inch VSAT solution comparable to our TracPhone V3, we are encountering regional competition from companies offering 24-inch VSAT systems and services. In addition, other companies could replicate some of the distinguishing features of our TracPhone V7 or TracPhone V3, which could potentially reduce the appeal of our solution, increase price competition and adversely affect sales. Moreover, consumers may choose other services such as FleetBroadband or Iridium OpenPort for their service coverage and potentially lower hardware costs despite higher service costs and slower data rates.

**Our ability to compete in the maritime airtime services market may be impaired if we are unable to complete or expand coverage of our mini-VSAT Broadband service around the globe to provide sufficient service capacity to meet customer demand.**

The TracPhone V7 and V3 and mini-VSAT Broadband service offer a range of benefits to mariners, especially in commercial markets, due to the smaller size antenna and faster, more affordable airtime. However, to support these customers globally, we may need to continue the expansion of the coverage areas of the mini-VSAT Broadband service, which is currently offered in the north Pacific Ocean, the Americas, Caribbean, North Atlantic, Europe, the Persian Gulf, Asia-Pacific, Africa, Brazil, Australian and New Zealand waters, and the Indian Ocean. If we are unable to reach agreement with third-party satellite providers to support the mini-VSAT Broadband service and its spread spectrum technology or transponder capacity is unavailable should we need to increase our capacity to meet growing demand in a given region, our ability to support vessels and aeronautical applications globally will be at risk and could reduce the attractiveness of the product and service to these customers.

**The purchasing and delivery schedules and priorities of the U.S. military and foreign governments are often unpredictable.**

We sell our fiber optic gyro systems as well as vehicle navigation products to U.S. and foreign military and government customers, either directly or as a subcontractor to other contractors. These customers often use a competitive bidding process and have unique purchasing and delivery requirements, which often makes the timing of sales to these customers unpredictable. Factors that affect their purchasing and delivery decisions include:

changes in modernization plans for military equipment;

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changes in tactical navigation requirements;

global conflicts impacting troop deployment;

priorities for current battlefield operations;

allocation of funding for military programs;

new military and operational doctrines that affect military equipment needs;

sales cycles that are long and difficult to predict;

shifting response time and/or delays in the approval process associated with the export licenses we must obtain prior to the international shipment of certain of our military products;

delays in military procurement schedules; and

delays in the testing and acceptance of our products, including delays resulting from changes in customer specifications.

These factors can cause substantial fluctuations in sales of our FOG and TACNAV products from period to period. For example, sales of our FOG products increased \$11.4 million, or 39%, from 2009 to 2010 driven largely by increased sales for commercial applications, such as surveying and optical stabilization, and a range of government and defense applications, including weapons stabilization. The Obama administration and Congress may change defense spending priorities, either in conjunction with the decision to commence troop withdrawals from Iraq and Afghanistan or for other reasons. Moreover, government customers and their contractors can generally cancel orders for our products for convenience or decline to exercise previously disclosed contract options. Even under firm orders with government customers, funding must often be appropriated in the budget process in order for the government to complete the contract. The cancellation of or failure to fund orders for our products could substantially reduce our net sales and results of operations. For example, our contract award from the U.S. Coast Guard for our mini-VSAT Broadband service does not impose any minimum order quantity, and the U.S. Coast Guard could order substantially fewer products and services than we anticipate.

**Sales of our fiber optic gyro systems and TACNAV products generally consist of a few large orders, and the delay or cancellation of a single order could substantially reduce our net sales.**

KVH products sold to customers in the defense industry are purchased through orders that can generally range in size from several hundred thousand dollars to more than one million dollars. For example, in July 2010, we received a \$13.0 million TACNAV products order and in October 2010, we also received a \$1.1 million fiber optic gyro contract. As a result, the delay or cancellation of a single order could materially reduce our net sales and results of operations. We periodically experience repeated and unanticipated delays in defense orders, which make our revenues and operating results less predictable. Because our guidance and stabilization products typically have relatively higher product gross margins than our mobile communications products, the loss of an order for guidance and stabilization products could have a disproportionately adverse effect on our results of operations.

**Only a few customers account for a substantial portion of our guidance and stabilization revenues, and the loss of any of these customers could substantially reduce our net sales.**

We derive a significant portion of our guidance and stabilization revenues from a small number of customers, most of whom are contractors for the U.S. Government. Our top four guidance and stabilization customers in 2010 accounted for approximately 29% of our net sales during 2010. The loss of business from any of these customers could substantially reduce our net sales and results of operations and could seriously harm our

business. Since we are often awarded a contract as a subcontractor to a major defense supplier that is engaged in a competitive bidding process as prime contractor for a major weapons procurement program, our revenues depend significantly on the success of the prime contractors with which we align ourselves. For example, our

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largest remote weapon systems customer accounted for approximately 14% and 15% of our net sales in 2010 and 2009, respectively. In addition, a subcontractor to this customer accounted for approximately 5% and 7% of our net sales in 2010 and 2009, respectively. We anticipate a sequential decline in net sales related to our largest remote weapon systems customer during the first half of 2011.

**We only have one customer for our aviation antenna, and the customer may cancel this agreement at any time subject to a termination charge.**

In February 2008, we entered into a \$20.1 million long-term antenna development and production agreement with LiveTV that was subsequently increased in 2009 to \$20.9 million. Under the terms of the agreement with LiveTV, we manufacture a DIRECTV-compatible satellite television antenna for use on narrowbody commercial aircraft operating in the United States. We began shipment of the antennas in the second quarter of 2009. LiveTV may terminate the agreement including any outstanding purchase orders at any time subject to a sliding scale termination charge driven by the quantity shortfall in units shipped under the agreement. As of December 31, 2010, the termination fee would be approximately \$3.0 million, which would be offset by an approximate total charge of \$3.2 million related to capitalized aviation research and development costs and inventory specific to the aviation antenna that would be required to be expensed if termination was invoked. As a result, if the aviation contract was terminated as of December 31, 2010, we would have recorded an approximate net charge to our income statement of \$0.2 million.

The cancellation of or failure to fund orders under this agreement could reduce our future net sales and negatively impact our results of operations, as we currently do not have another customer in the aviation market .

**Our mobile satellite products currently depend on satellite services and facilities provided by third parties, and a disruption in those services could adversely affect sales.**

Our satellite products include only the equipment necessary to utilize satellite services; we do not broadcast satellite television programming or own the satellites to directly provide two-way satellite communications. We currently offer satellite television products compatible with the DIRECTV and DISH Network services in the United States, the Bell TV service in Canada, the Sky Mexico service and various other regional services in other parts of the world.

SES World Skies, Eutelsat, Sky Perfect-JSAT, GE Satellite, Telesat, EchoStar and Star One currently provide the satellite capacity to support the mini-VSAT Broadband service and our TracPhone V7 and V3. In addition, we have agreements with various teleports and Internet Service Providers (ISPs) around the globe to support the mini-VSAT Broadband service. We rely on Inmarsat for satellite communications services for our mini-M, Fleet and FleetBroadband compatible TracPhone products.

If customers become dissatisfied with the programming, pricing, service, availability or other aspects of any of these satellite services, or if any one or more of these services becomes unavailable for any reason, we could suffer a substantial decline in sales of our satellite products. There may be no alternative service provider available in a particular geographic area, and our modem or other technology may not be compatible with the technology of any alternative service provider that may be available. In addition, the unexpected failure of a satellite could disrupt the availability of programming and services, which could reduce the demand for, or customer satisfaction with, our products.

**We rely upon spread spectrum communications technology developed by ViaSat and transmitted by third-party satellite providers to permit two-way broadband Internet via our 24-inch diameter TracPhone V7 antenna and our 14.5-inch diameter TracPhone V3 antenna, to be released during the second quarter of 2011, and any disruption in the availability of this technology could adversely affect sales.**

Our mini-VSAT Broadband service relies on spread spectrum technology developed with ViaSat, Inc., for use with satellite capacity controlled by SES World Skies, Eutelsat, Sky Perfect-JSAT, GE Satellite, Telesat, Echostar, Star One and Optus. Our TracPhone V7 and V3 two-way broadband satellite terminal combines our stabilized antenna technology with ViaSat's ArcLight spread spectrum mobile broadband technology, along with a new maritime version of ViaSat's ArcLight spread spectrum modem. The ArcLight technology is also

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integrated within the satellite hubs that support this service. Sales of the TracPhone V7 and V3 and our mini-VSAT Broadband service could be disrupted if we fail to receive approval from regulatory authorities to provide our spread spectrum service in the waters of various countries where our customers operate or if there are issues with the availability of the ArcLight maritime modems.

**Investment in the initial global deployment of the mini-VSAT Broadband service has required significant capital investment and initial network costs of service, as well as operating expenses that may not be recouped if we fail to meet the subscriber levels necessary to cover those costs on an ongoing basis.**

It is our intent to continue to invest in and deploy the mini-VSAT Broadband network on a global basis in cooperation with ViaSat under the terms of a 10-year agreement announced in July 2008. As part of the coverage expansion, we agreed to acquire satellite capacity from Ku-band satellite operators and are in the process of purchasing new regional satellite hubs from ViaSat. Each satellite hub represents a substantial capital investment. During the initial deployment period, we have incurred a substantial increase in costs associated with the build out of the mini-VSAT Broadband global infrastructure and support capability and may continue to incur an increase in costs if we pursue expanded coverage in the future. In the short term, KVH and ViaSat will be covering the operational cost per transponder access until sufficient subscribers join the network and allow us to reach acceptable gross margin levels relating to our transponder and other network service costs, which may not occur. We currently estimate that, on average, it will require at least nine months to reach the breakeven point for a discrete region, i.e., offsetting these incremental network costs, once the service is turned on for a new coverage region. However, certain regions that are essential for our global coverage may exceed this time period before being profitable or may not be profitable. In addition, should an insufficient number of subscribers activate within a region, our operations may continue below the breakeven level for a longer duration and adversely affect our operating results and cash levels.

**High fuel prices, tight credit availability and environmental concerns are adversely affecting sales of our**