

Satellite Solutions for Commercial Marine

BROADBAND DATA

COMMUNICATIONS

TELEVISION





Connections...they're c

Broadband connections provide real-time route planning and chart updates to save time and fuel. They bring engine data to onshore engineers for more efficient maintenance. They are critical to the success of your business and the safety of your crew and vessels. Affordable, reliable connections keep your employees and crew in touch with family and friends and linked to the world around them. Secure real-time connections create an extensive network of valuable data to ensure your onboard and onshore operations run smoothly, safely, and effectively. Connections – even at sea, you need them to thrive and prosper.

That's why maritime operators are turning to KVH Industries, the leader in innovative mobile broadband solutions

We build these critical connections with new technology and innovative satellite products that are smaller, faster, more reliable, and considerably more affordable than older solutions. With rugged, fully stabilized antennas, and powerful satellite networks integrated into reliable, end-to-end solutions, KVH is linking vessels worldwide to broadband Internet, telecommunications, and digital satellite television services.



Courtesy of U.S. Coast Guard

Most U.S. Coast Guard vessels are equipped with KVH TracVision and TracPhone systems to help their crews stay connected and informed.

Choosing KVH connects you with:

- Outstanding performance and reliability founded on the 150,000+ mobile satellite antennas designed, manufactured, and fielded by KVH
- Easy-to-install products tested to military standards and reflecting more than 25 years of proven support for maritime and military customers worldwide
- Powerful services like mini-VSAT BroadbandSM, Inmarsat FleetBroadband, and high-powered regional satellite TV services found around the globe
- Cost benefits and operational advantages that improve business performance, crew morale, and crew retention
- A global network of authorized partners, distributors, and technical dealers focused on customer satisfaction






Courtesy of Fligdon Marine Corp.

KVH satellite antenna systems are designed to survive offshore conditions and reliably support both critical business operations and crew communications.

KVH Industries – connecting you, your vessels, and your crews to powerful services, proven technology, and the world around you

critical to your business.

KVH is the only supplier offering a comprehensive commercial communications program of hardware and service that connects your crew, your vessels, and your business with satellite communications, broadband Internet access, and television:

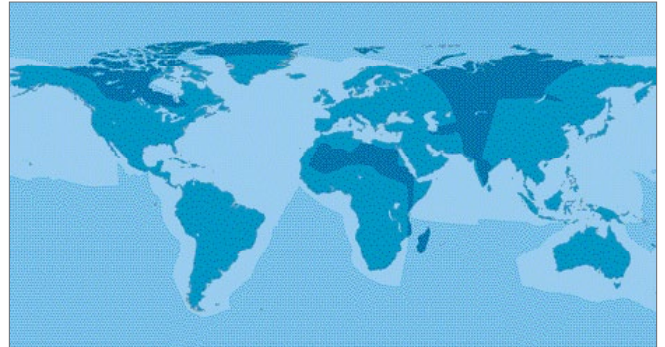
TracPhone® V-series	TracPhone® FB-series	TracVision® M-series
 <p>mini-VSAT Broadband</p> <p>The fastest growing maritime VSAT solution with global coverage, high capacity Ku-band network, and the broadband and voice services needed for commercial success.</p>	 <p>Inmarsat FleetBroadband</p> <p>Compact L-band communications, high-speed Internet, voice, and fax that are ideal for reliable global operations.</p>	 <p>Digital Satellite Television</p> <p>World's most widely fielded maritime satellite TV systems offering access to live TV programming via regional services worldwide.</p>

- ▶ **Airtime service packages designed to meet the unique needs of maritime business**
- ▶ **Bundled hardware and airtime solutions with affordable leasing options**
- ▶ **Reliable, high-quality service for the life of your product**
- ▶ **Value-added services to expand capabilities for crew, clients, and passengers**
- ▶ **Worldwide after-sales and technical support**
- ▶ **Award-winning supplier providing end-to-end maritime hardware, airtime, service, and support solutions for almost 30 years**



Global maritime VSAT for cost-effective broadband Internet connections & voice service

The world's fastest growing maritime VSAT solution, TracPhone V7 and the mini-VSAT Broadband service, connects your vessels to a next-generation, high-capacity global network that helps improve operational performance, reduces your costs, and strengthens crew morale. This fully integrated hardware and service solution combines rugged, compact, fully stabilized antenna technology from KVH; lightning-fast ArcLight® CRMA spread spectrum technology from ViaSat; and a powerful Ku-band satellite network with seamless global roaming. Together, they are easy to install, easy to activate, easy to use, and easy to rely on when you need heavy-duty Internet access at sea.



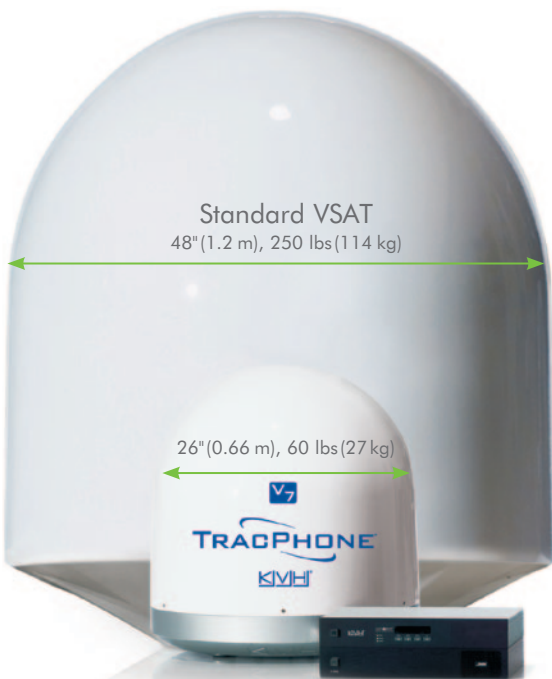
mini-VSAT Broadband Coverage Map*

TracPhone & mini-VSAT

The choice of the U.S. Coast Guard, naval vessels, and commercial fleets around the globe, TracPhone V7 creates an extensive onboard network that supports crew calling and Internet access as well as operational applications such as systems monitoring, condition-based maintenance, and predictive analysis.

TracPhone V7 and mini-VSAT Broadband...what broadband at sea was meant to be!

KVH INDUSTRIES
MINI-VSAT
BROADBAND™



A ground-breaking and powerful tool for maritime communications

- IP-based connections with data rates as fast as 512 Kbps (ship-to-shore) and 2 Mbps (shore-to-ship)
- Fast, easy installation – fully integrated system with 60 cm antenna eliminates the need for a crane or integration with ship's gyro or navigation system
- Enhanced voice service optimized for use with satellite services as well as options for crew calling and onboard cell phone use while offshore
- Full suite of value-added services to optimize network management and performance
- Easy integration with onboard Ethernet and WiFi networks, VPNs, Internet cafés, and more
- Flexible billing options including fixed-price, metered, seasonal, and pay-as-you-go to meet your budget and operational needs
- Superior worldwide technical support thanks to the Remote Service and Support module, KVH's Certified Support Network, and optional GlobalCare Program

Integrated Antenna, Control Unit & Modem

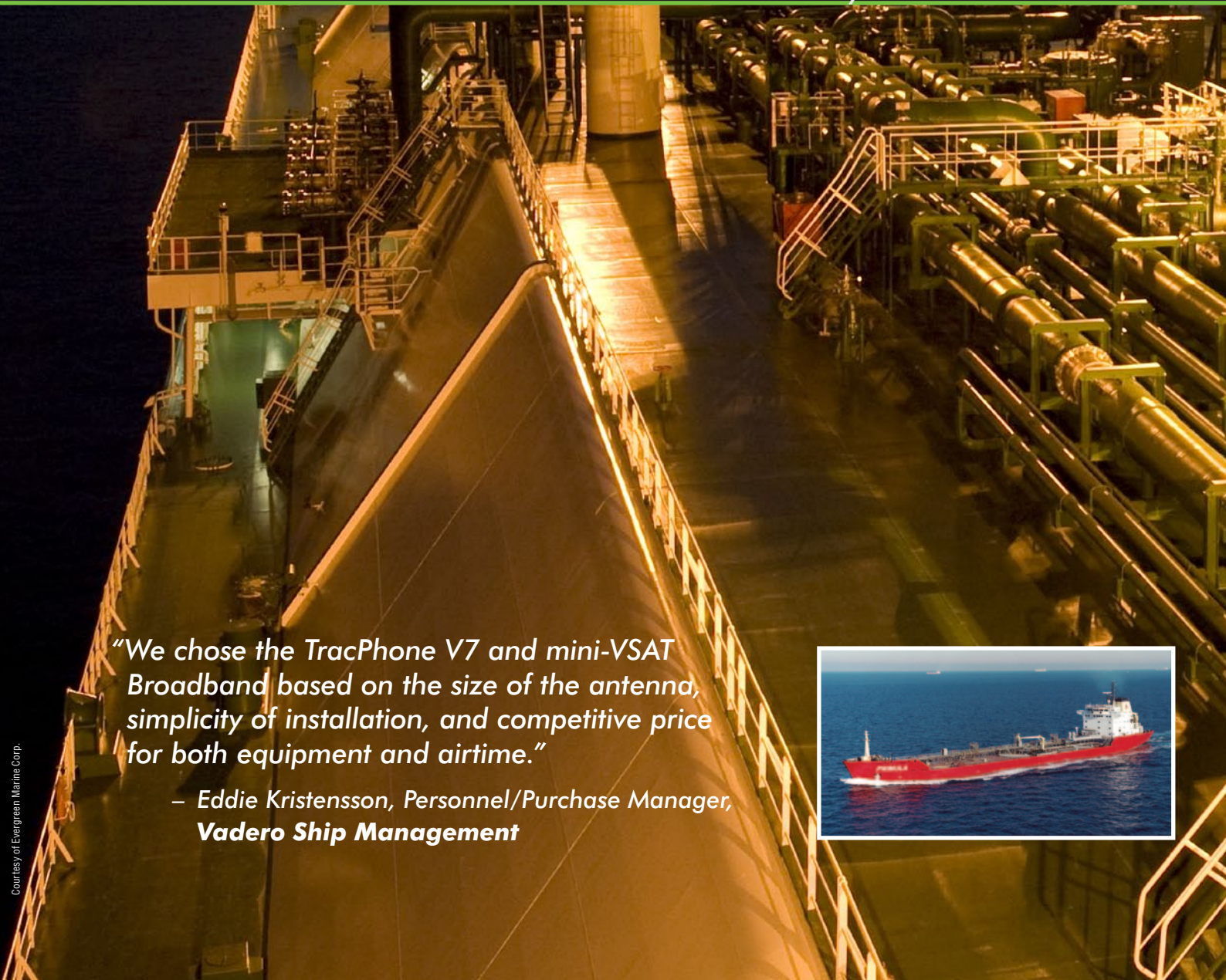
85% smaller by volume and 75% lighter than 1-meter VSAT antennas, the rugged TracPhone V7 antenna is tested under vibration and temperature extremes that exceed military standards and is combined with a military-grade spread spectrum modem to ensure outstanding performance.

*Coverage map depicts KVH's expectations for mini-VSAT Broadband's current and future coverage; actual coverage and availability of service may vary. For current coverage map and coverage details, visit www.kvh.com/minivsatmap.



Broadband Service

Worldwide broadband connections with crystal-clear voice service



"We chose the TracPhone V7 and mini-VSAT Broadband based on the size of the antenna, simplicity of installation, and competitive price for both equipment and airtime."

*– Eddie Kristensson, Personnel/Purchase Manager,
Vadero Ship Management*





TracPhone & Inmarsat F

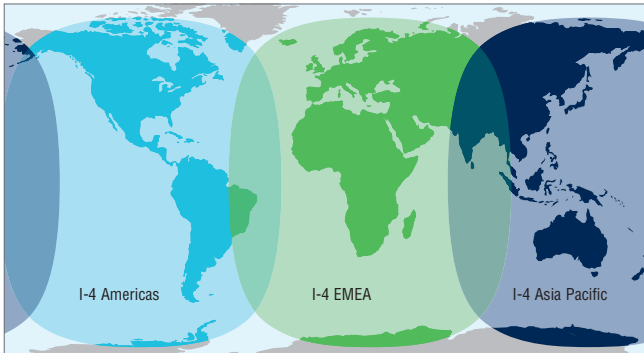
A powerful global connection for e-mail, voice, fax, and data needs



“Commercial operators expect a lot from their satellite communications systems – reliability, durability, and performance. That’s why so many of our customers rely on KVH’s TracPhone systems – because you can depend on them.”

– Chris St. Romain, President,
Sea-Trac Offshore

Compact, commercial-grade solutions for enhanced performance, global coverage, and critical communications



Inmarsat FleetBroadband Coverage Map*

Up-to-date navigational data, maintaining crew morale, the expectations of modern business – they all demand powerful, real-time communications wherever you operate. KVH now offers just that, in a smaller, lighter, more affordable package than ever before. The fully stabilized TracPhone FB150, FB250, and FB500 satellite communications systems together with the Inmarsat FleetBroadband service equip your vessel with secure, reliable global communications from two of the most trusted names in maritime communications – KVH Industries and Inmarsat.

FleetBroadband Service

The flexibility you need for superior communications worldwide

- Super-reliable service for voice, fax, and high-speed data via Inmarsat's new I-4 satellite network†
- Seamless global coverage via three high-powered L-band satellites, ensuring reception in all sea and weather conditions
- Fully automatic operation and dynamic antenna stabilization, even in the roughest seas
- Data connections as fast as 432 Kbps for e-mail, Internet, and connections to company networks
- Dedicated voice connections available even as you are enjoying high-speed data access
- Streaming IP for guaranteed data rates up to 256 Kbps on demand
- SMS for easy, inexpensive text messaging (up to 160 characters)
- Full suite of value-added services to optimize management and performance

Inmarsat FleetBroadband Service provides constant simultaneous access to voice and high-speed data services so you can send and receive e-mail with large attachments, run complex data applications, access corporate networks, and enjoy crystal-clear calls more affordably than ever before using an Inmarsat service. Whatever your vessel size or application, rely on KVH's family of TracPhone FB-series antenna systems to equip your ships with a next-generation, global communications center.

Rugged antennas integrated with a below-decks unit (BDU) and handset

KVH TracPhone antennas are designed to exceed Inmarsat's stringent testing for the ultimate performance and reliability in almost any sea conditions.



*The map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. For current coverage map and details, visit www.kvh.com/inmarsatmap.
† Group 3 fax supported by TracPhone FB250 and FB500 only.

The world's most popular, powerful, and user-friendly satellite television systems

There's nothing like the variety of live satellite television to entertain your crew during long voyages. KVH's affordable, commercial-grade TracVision satellite TV antennas work with satellite TV services worldwide to bring home theatre-quality digital television to virtually any of your vessels. Tested to military standards and installed on tens of thousands of vessels worldwide, TracVision antennas offer a proven record of years of trouble-free performance. Choose an award-winning KVH TracVision antenna and bring the best reception and variety of programming to you and your crew!



Courtesy of U.S. Navy

TracVision & Global Sat

TracVision M-series antennas use KVH's proprietary RingFire™ technology, a remarkable breakthrough in antenna design. Fusing precisely shaped, tuned parabolic dish antennas with custom designed, dual-mode feed-tubes and uniquely modified LNBs, RingFire technology provides unmatched illumination of the reflector resulting in signal strengths that are comparable to competitors' larger antennas. This means that with the TracVision M-series you'll enjoy wider geographic coverage and better reception, even in extreme weather.

Commercial-grade satellite TV antennas

The TracVision family of rugged satellite TV systems offers antenna sizes and capabilities to support the needs and operating areas of vessels worldwide.



Keep your crew entertained and in touch with TracVision satellite TV systems

- Exclusive RingFire technology for superior offshore coverage and reception of leading digital satellite TV services
- Worldwide TV capability for unmatched convenience
- Support for multiple TVs and receivers, so everyone onboard can enjoy the TV programs they want
- Gyro-stabilized designs for unsurpassed tracking and superior offshore performance in even the most demanding conditions
- HDTV-ready systems in every antenna class so you can watch the best programming TV has to offer (*where compatible HD services are available*)
- Positive satellite identification using integrated Digital Video Broadcast (DVB®) technology
- Completely automatic satellite switching with the remote control – a KVH exclusive!
- Proven, rugged, and reliable design for trouble-free operation in the commercial marine environment

Satellite Television Services

Onboard entertainment for every type and size of vessel

"The TracVision M9 was purchased for crew entertainment purposes, and to improve crew welfare aboard our vessels. The equipment was easy for our vessels' electrical engineers to install. Now, the TracVision M9 allows our crew to watch the latest news. Having live TV aboard clearly increases the morale of our people."

– *Sergey Minakov,
Electrical Engineer Superintendent,
Unicom Management Services (Cyprus) Ltd.*





Global Service, World-

Ensuring superior performance for the life of your investment



"The most important part of dealing with KVH is client services. When you call, you reach a person who takes interest in your case and follows through to the resolution of your problem... KVH seems to be in a class of its own in immediate client response."

*– Michael Hand, Operations Manager,
Wright Maritime Group*

Equip commercial fleets affordably with convenient leasing programs designed with your needs in mind

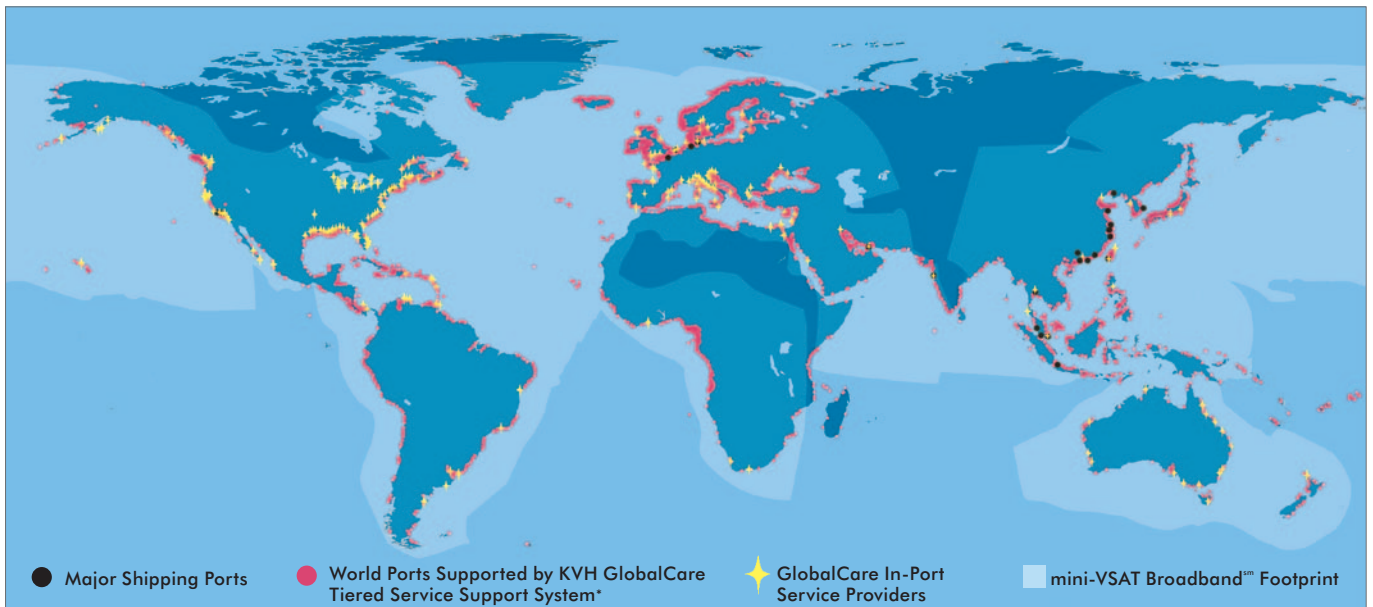
KVH and its commercial partners offer a variety of leasing programs that help commercial marine customers avoid a significant capital investment when upgrading vessels with TracVision and TracPhone satellite systems. Designed to provide predictable monthly expenses for budgeting, KVH's leasing programs offer competitive rates and bundled extended warranty plans to ensure years of reliable performance from your KVH systems. Whether providing services for your crew or upgrading data connections to enhance the efficiency of your vessels' operation, KVH leasing programs make it easy and affordable to bring the latest satellite technology onboard.

Outstanding service and support from commercial partners and authorized dealers worldwide

KVH's award-winning commitment to quality is seen in the company's reliable products as well as an array of options that provide global product support to every customer. An ISO 9001:2008-certified organization, KVH meets the highest international standards for quality and support. KVH's Certified Support Network (CSN) offers our customers outstanding technical support, including an online support system and a responsive, international KVH support team. Thanks to KVH's global network of trained sales and technical partners worldwide, you can rest assured, knowing that KVH stands by every product and service to make certain your vessels enjoy the uninterrupted connections critical to the success of your business.

class Support & Leasing

Introducing KVH **GlobalCare** – a premium support program designed to meet the demanding service needs of TracPhone V-series users around the globe



While KVH offers the best standard warranty in the industry, we know some vessels and businesses have critical connectivity needs and, as a result, may want an added level of service and support. That's why KVH offers the new GlobalCare Premium Support Program for TracPhone V7 customers. Starting with dedicated 24/7/365 hotline numbers to the GlobalCare Center, and using a tiered service support system worldwide, GlobalCare offers your business a new level of support and responsiveness should you experience a technical issue. For complete details, visit www.kvh.com/globalcare.

*GlobalCare Tiered Service Support System is provided using in-port, regional, and qualified local technicians on a best-effort basis.



KVH – Leader in Mobile Satellite Solutions

KVH is the world's leading provider of mobile satellite communications, broadband Internet, and television antenna systems and has been serving the marine industry since 1982. With in-motion tracking systems and rugged designs ideal for virtually any vessel type and size, KVH's fully stabilized antennas offer unmatched performance during all sea and weather conditions.

To support a commitment to quality and reliability that is unmatched, KVH antenna systems undergo the most stringent quality checks in the industry, including accelerated life cycle testing, military specification environmental tests, shock and vibration testing to Inmarsat specifications, and in-depth functional evaluations prior to delivery.

The results speak for themselves. With more than 150,000 mobile satellite antennas fielded worldwide, KVH has supplied more maritime satellite telecommunications and TV systems than any other manufacturer. We are a 32-time recipient of the National Marine Electronics Association's "Best Product" Award. Tens of thousands of commercial and leisure mariners, along with the U.S. Navy and Coast Guard and allied naval vessels around the globe, rely on KVH's rugged satellite systems for their connections to shore, their offices, their families, and the world around them. When you choose KVH, you choose the best!



KVH Industries, Inc.

50 Enterprise Center | Middletown, RI 02842-5279 | U.S.A.
Phone: +1 401.847.3327 | Fax: +1 401.849.0045
E-mail: info@kvh.com

KVH Europe A/S

Kokkedal Industripark 2B | 2980 Kokkedal | Denmark
Phone: +45 45 160 180 | Fax: +45 45 160 181
E-mail: info@kvh.dk

KVH Singapore

#42-01 Suntec Tower 3 | 8 Temasek Blvd | Singapore 038988
Phone: +65 6829 2342 | Fax: +65 6829 2121
E-mail: infokvhsingapore@kvh.com

www.kvh.com

