



## TracVision® TV-series

Sophisticated technology that's simple to use –  
for the best TV entertainment onboard





# TRACVISION



## Introducing the TracVision TV-series

Whether you're relaxing at anchor or cruising offshore in demanding sea conditions, this powerful family of fully stabilized marine satellite systems provides superior performance, including HDTV, for satellite TV entertainment. Designed, engineered, and manufactured by the experts at KVH, the leader in marine satellite television for 20 years, this new line enables you and everyone onboard to enjoy hundreds of digital TV and movie channels, hours of commercial-free, CD-quality music via regional satellite services around the globe, and the pleasure of your favorite television programming while relaxing on your boat or yacht.

### Unsurpassed Viewing Experience Onboard

The new TracVision TV-series includes TracVision TV1, TV3, TV5, and TV6 – a full range of systems offering sizes, features, and options for every size boat. TracVision TV-series brings the television content you love onboard in the best way possible – with sophisticated technology that's simple to use.

### Sophisticated technology....

- ▶ Advanced inertial-based stabilized search enables fast satellite acquisition
- ▶ High performance tracking ensures crystal-clear television picture in heavy seas
- ▶ Exclusive RingFire™ antenna technology provides stronger signals, wider geographic coverage, and better reception
- ▶ Single Wire Multiswitch (SWM-8) integrated into below-decks TV-Hub supports up to eight DIRECTV® receivers
- ▶ DVB-S2 technology ensures compatibility with all modern Ku-band television satellite services
- ▶ IP AutoSwitch option for multiple receiver installations delivers simple automatic satellite switching on DiSEqC-compatible services

### ...that's simple to install & use

- ▶ Sleek IP-enabled TV-Hub delivers easy setup and operation
- ▶ Single coaxial cable for power, data, and video enables easy installations and retrofits
- ▶ Friendly user interface that you can access from any mobile device or laptop provides system information at your fingertips



**Product Award Winner**  
**Satellite Television**  
*1998-2013*

### TracVision – the award-winning choice for satellite television performance on the boat

For 16 consecutive years, TracVision has won the highest honor in marine electronics: the annual product award given by the National Marine Electronics Association. This industry group is made up of more than 600 companies, including manufacturers, dealers, and boatbuilders – in other words, the people who really know marine electronics. KVH is the satellite system supplier for industry-leading boatbuilders like Sea Ray, Sunseeker, and Viking Yachts, and the favorite brand of satellite TV systems for the world's top marine electronics dealers.





## TracVision TV-Hub: the center of it all

The innovative TracVision TV-Hub integrates the advanced functionality of the TV-series system into one streamlined unit, providing features that make the TV-series very easy to use:

- ▶ IP-enabled antenna control unit with Ethernet connection and built-in Wi-Fi interface allows access to system information from any Wi-Fi device
- ▶ Automatic satellite switching makes it easy to access all programming and local channels wherever you travel, and with whatever service you use
- ▶ Built-in SWM-compatible technology supports DIRECTV programming
- ▶ Built-in DISH Pro output supports DISH Network® and Bell TV service
- ▶ Built-in DiSEqC protocol supports linear TV services around the world
- ▶ Two output ports provide the flexibility to use legacy receivers
- ▶ Status indicators quickly convey information about antenna function and power
- ▶ 10-30 VDC power input to the TV-Hub provides power to the antenna
- ▶ NMEA 0183/2000 inputs for heading and GPS enable fastest satellite acquisition

## Everything you need, at your fingertips

The all-new TracVision TV-Hub brings unparalleled ease to every aspect of controlling your satellite TV system with a state-of-the-art web interface designed for optimal viewing on your smartphone, tablet, smart TV, or computer:

- ▶ Wizard for easy installation and setup
- ▶ Fast troubleshooting with antenna status and advanced system diagnostics
- ▶ Future-proof design with remote software and satellite library update feature
- ▶ Fast setup for integrating with an onboard network
- ▶ Advanced automatic or manual satellite switching capabilities at your fingertips
- ▶ Extensive built-in worldwide satellite library
- ▶ IP AutoSwitch option for multiple receiver installations delivers simple automatic switching on DiSEqC-compatible services so you can easily access the channels and programs you want to watch – even when they are not on the same satellite



# A next-generation satellite TV solution for every boat and yacht

When choosing the right TracVision TV-series antenna system for your boat, consider your cruising area, your satellite TV service provider, and your boat design. Satellite signal strength is typically concentrated on population centers, so as you travel farther offshore or into remote areas, you may need a larger antenna to ensure consistent reception where you cruise. KVH's new TracVision TV-series antennas offer unparalleled performance: exclusive RingFire technology for stronger signals and better reception, advanced algorithms for high performance tracking, and advanced inertial-based stabilized search for fast satellite acquisition.



## TracVision TV1

### High efficiency in an ultra-compact antenna

With its 32 cm (12.5-inch) antenna, this system is ideal for smaller boats and coastal cruising or use on inland waterways.



## TracVision TV3

### Small, powerful antenna with versatile options

Spend time in your favorite cruising or fishing areas with this 37 cm (14.5-inch) antenna.



Image courtesy of Sea Ray



## TracVision TV5

### Combining big performance with compact size

With this high efficiency 45 cm (18-inch) antenna, worldwide regional programming comes right onboard.



## TracVision TV6

### High performance when bluewater is on the horizon

Head offshore and enjoy your favorite television programming with this 60 cm (24-inch) antenna.



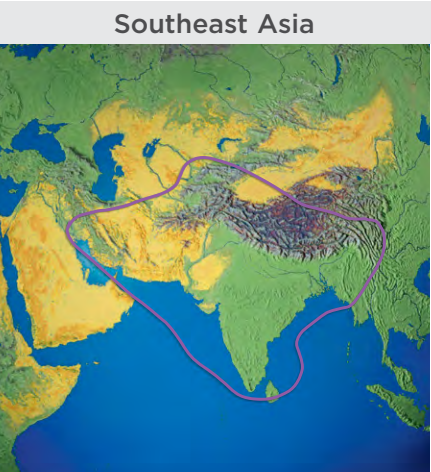
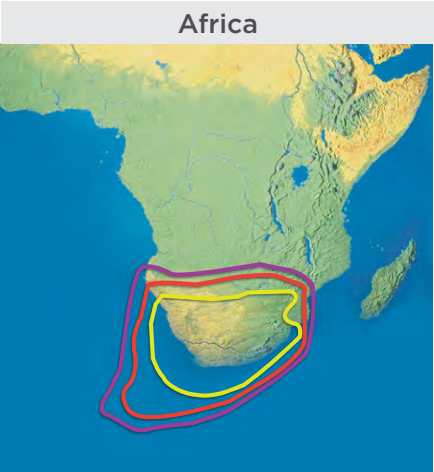
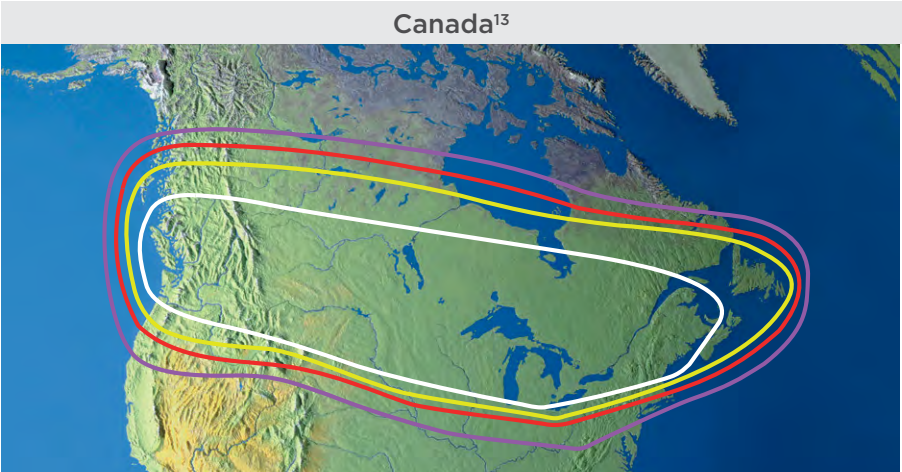
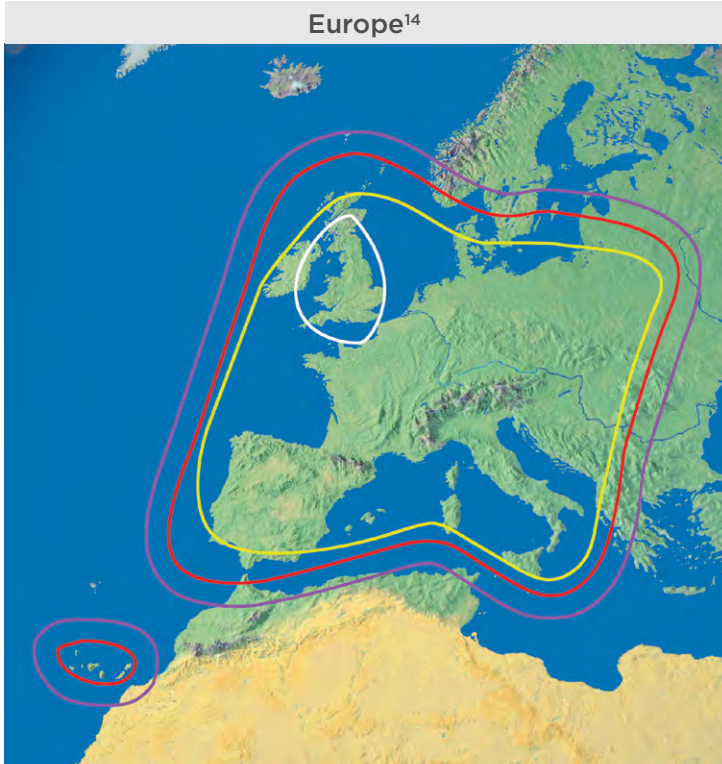
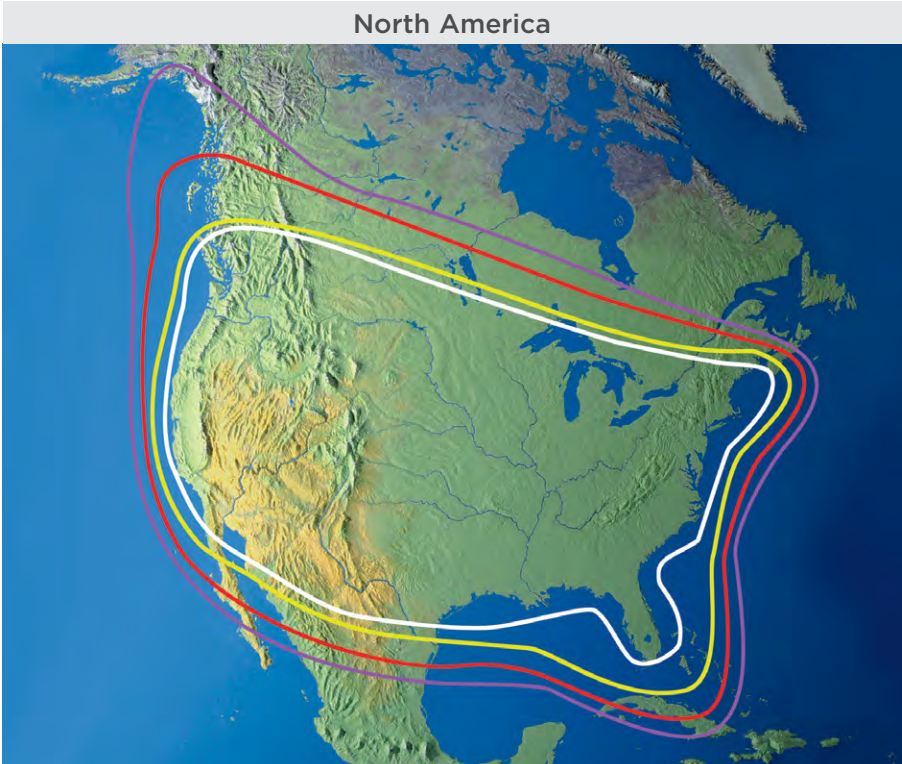
# TracVision TV-series Technical Specifications

				
	TracVision TV1	TracVision TV3	TracVision TV5	TracVision TV6
Satellite Coverage Regions <sup>1</sup>	North America & Europe <sup>2, 3</sup>	Worldwide <sup>3</sup>	Worldwide <sup>3</sup>	Worldwide <sup>3</sup>
Antenna Dish Diameter	32 cm (12.5")	37 cm (14.5")	45 cm (18")	60 cm (24")
Antenna Unit Diameter x Height	34.3 cm x 33.7 cm (13.5" x 13.3")	39.4 cm x 44.7 cm (15.5" x 17.6")	48.8 cm x 53.2 cm (19.2" x 20.9")	66.6 cm x 69.9 cm (26.2" x 27.4")
Antenna Unit Weight	3.6 kg (8 lbs)	7.7 kg (17 lbs) Linear Universal Dual: 9.1 kg (20 lbs)	11.3 kg (25 lbs)	24.2 kg (53.4 lbs)
Minimum EIRP (Ku-band) <sup>4</sup>	51 dBW	50 dBW	48 dBW	46 dBW
Elevation/Azimuth Range	+20° to +70°/Continuous	+10° to +80°/Continuous Linear Universal Dual: +10° to +80°/720°	+0° to +80°/720°	+10° to +80°/720°
Linear Skew Control	Manual	Manual	Manual or Automatic	Automatic
LNB Types Available (polarization/output)	Linear Universal Single <sup>5</sup> Circular	Linear Universal Single <sup>5</sup> Linear Universal Dual Circular	Linear Universal Quad DIRECTV L.A. Circular Circular Tri-Americas Circular <sup>6</sup>	Linear Universal Quad DIRECTV L.A. Circular Circular Tri-Americas Circular <sup>6</sup>
Tracking Technology	High performance	High performance	High performance	High performance
User Interface	TV-Hub web interface	TV-Hub web interface	TV-Hub web interface	TV-Hub web interface
Tri-Americas <sup>®</sup> LNB Compatible	No	No	Yes	Yes
System Power	10-30 VDC 42 watts nominal	10-30 VDC 42 watts nominal	10-30 VDC 53 watts nominal	10-30 VDC 53 watts nominal
Cabling (Consult price list for alternative cabling options)	1 Power/RF cable: RG6 15 m (50') (single cable) included	1 Power/RF cable: RG6 15 m (50') (single cable) included <sup>7</sup>	1 Power/RF cable: RG6 30 m (100') (single cable) included <sup>7</sup>	1 Power/RF cable: RG6 30 m (100') (single cable) included <sup>7</sup>
Antenna Operating Temperature	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)
Antenna Survival Temperature	-25°C to +70°C (-13°F to +158°F)	-25°C to +70°C (-13°F to +158°F)	-25°C to +70°C (-13°F to +158°F)	-25°C to +70°C (-13°F to +158°F)
Warranty <sup>8</sup>	2 year parts, 1 year labor	2 year parts, 1 year labor	2 year parts, 1 year labor	2 year parts, 1 year labor
EMEA/Asia <sup>9</sup> , Sky Brazil, and Sky Mexico System Configuration KVH Part Number <sup>10</sup>	Linear Universal Single: 01-0366-02	Linear Universal Single: 01-0368-02 Linear Universal Dual: 01-0368-09	Linear Universal Quad Autoskew: 01-0364-34 Linear Universal Quad Manual: 01-0364-04	Linear Universal Quad Autoskew: 01-0369-02
Latin American (L.A.) System Configuration KVH Part Number <sup>10</sup>	N/A	N/A	DIRECTV L.A. Circular: 01-0364-03	DIRECTV L.A. Circular: 01-0369-03
North American System Configuration KVH Part Number	Circular: 01-0366-07	Circular: 01-0368-07	Circular: 01-0364-07 Tri-Americas Circular <sup>6</sup> : 01-0364-06	Circular: 01-0369-07 Tri-Americas Circular <sup>6</sup> : 01-0369-06
MSRP (North American System Configuration) <sup>10</sup>	\$2,995	\$3,995	Circular: \$5,495 Tri-Americas: \$6,995	Circular: \$8,495 Tri-Americas: \$9,995

<sup>1</sup> For details, visit [www.kvh.com/footprint](http://www.kvh.com/footprint).  
<sup>2</sup> Limited coverage regions in Europe; see map for details.  
<sup>3</sup> Requires region-specific receiver and service. Receiver not included.  
<sup>4</sup> Please note that minimum EIRP values are average approximate figures that may vary according to actual transponder frequency and location.  
<sup>5</sup> Single receiver system.  
<sup>6</sup> Tri-Americas Circular is a dual-band LNB for both DIRECTV L.A. and DIRECTV U.S. services.  
<sup>7</sup> Some system configurations require additional RF cables; contact KVH or your dealer/distributor for details.  
<sup>8</sup> Unless subject to in-country regulations.  
<sup>9</sup> Some services in Asia require unique circular LNBs to work; contact KVH or your dealer/distributor for details.  
<sup>10</sup> Contact KVH or your dealer/distributor for details and pricing on system configurations other than No. American.



# Worldwide Ku-band Coverage<sup>11</sup>

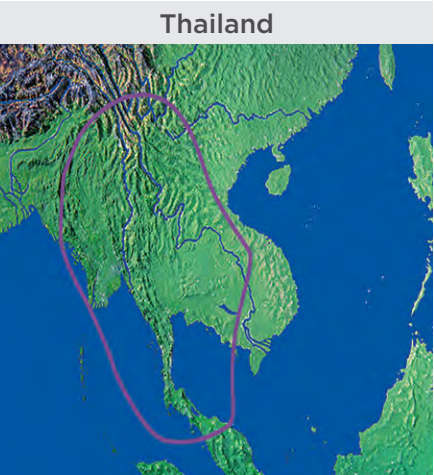
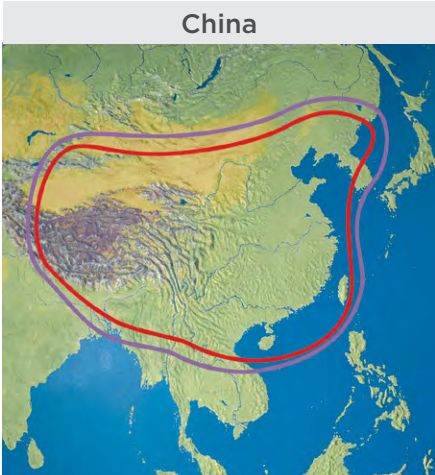


**TracVision TV6**  
46 dBW EIRP

**TracVision TV5**  
48 dBW EIRP

**TracVision TV3**  
50 dBW EIRP

**TracVision TV1**  
51 dBW EIRP



<sup>11</sup> KVH Industries does not have control over the programming or operation of the satellites or services that are covered in this document. The coverage maps for these satellites are provided as reference only and may change in the future or could be impacted by weather conditions. KVH provides no guarantees of satellite coverage, satellite availability, programming available on any specific satellite service, or compatibility of the TracVision system with new satellites that may be launched in the future. Please note that all Minimum EIRP values are average approximate figures that may vary according to actual transponder frequency and location.

<sup>12</sup> Optional system configuration, combining North American and Latin American coverage footprints. Contact KVH for details and pricing.

<sup>13</sup> Coverage for TV1 is for Satellite 91W only.

<sup>14</sup> Coverage for TV1 is based on Astra 28 only; other European satellites may be available.

These maps are representative. For detailed information about the programming available from different service providers, visit: [www.kvh.com/footprints](http://www.kvh.com/footprints).





TV-Hub user interface gives you control at your fingertips on any mobile device or computer.

## TracVision TV1

### High efficiency in an ultra-compact antenna

This ultra-compact 32 cm (12.5-inch) antenna is perfect for coastal cruising or sailboats. A single-cable design and easy-to-use installation wizard and system control make this antenna a breeze to install and use.

### Highlights and Features

- ▶ DVB-S2 compatible
- ▶ Supports DIRECTV, DISH Network, Bell TV, and select linear Ku-band services worldwide
- ▶ HDTV compatible (Ku-band services only)
- ▶ Single coaxial cable for power, data, and video for easy installations and retrofits
- ▶ Advanced inertial-based stabilized search for fast satellite acquisition
- ▶ High performance tracking with advanced algorithms for crystal-clear television picture in heavy seas
- ▶ Built-in worldwide satellite library
- ▶ IP AutoSwitch option for multiple receiver installations delivers simple auto-switching on DiSEqC-compatible services



Image courtesy of Sea Ray



TV-Hub user interface gives you control at your fingertips on any mobile device or computer.

## TracVision TV3

### Small, powerful antenna with versatile options

With a single-cable installation, the TracVision TV3 is a great choice for powerboats or sailboats frequenting cruising areas located within 100 nautical miles offshore. A compact 37 cm (14.5-inch) antenna and convenient mobile device interface make installation a snap. The TV3 is the perfect solution for single- or multiple-receiver installations.

### Highlights and Features

- ▶ DVB-S2 compatible
- ▶ Supports DIRECTV, DISH Network, Bell TV, and circular and linear Ku-band services worldwide
- ▶ HDTV compatible (Ku-band services only)
- ▶ Single coaxial cable for power, data, and video for easy installations and retrofits
- ▶ Advanced inertial-based stabilized search for fast satellite acquisition
- ▶ High performance tracking with advanced algorithms for crystal-clear television picture in heavy seas
- ▶ Built-in worldwide satellite library
- ▶ Single and dual linear LNB options
- ▶ IP AutoSwitch option for multiple receiver installations delivers simple auto-switching on DiSEqC-compatible services







Image courtesy of Viking Yachts



TV-Hub user interface gives you control at your fingertips on any mobile device or computer.

## TracVision TV5

### Combining big performance with compact size

With 30% greater reception than other 45 cm (18-inch) systems, you'll enjoy satellite TV reception where few others can provide it. TracVision TV5 offers outstanding high performance tracking and reception, as well as compatibility with the most popular satellite service providers worldwide. This rugged system is ideal for sportfishing boats or boats venturing offshore or to the islands.

### Highlights and Features

- ▶ DVB-S2 compatible
- ▶ Supports DIRECTV U.S. and Latin America, DISH Network, Bell TV, and circular and linear Ku-band services worldwide
- ▶ HDTV compatible (Ku-band services only)
- ▶ Single coaxial cable for power, data, and video for easy installations and retrofits
- ▶ Advanced inertial-based stabilized search for fast satellite acquisition
- ▶ High performance tracking with advanced algorithms for crystal-clear television picture in heavy seas
- ▶ Built-in worldwide satellite library
- ▶ All system configurations support multiple receiver installations
- ▶ Low elevation angle for better tracking in northern latitudes
- ▶ Linear Universal Quad LNB configuration offers optional built-in GPS and autoskew
- ▶ Tri-Americas LNB option for seamless TV throughout the Americas
- ▶ IP AutoSwitch option for multiple receiver installations delivers simple auto-switching on DiSEqC-compatible services



TV-Hub user interface gives you control at your fingertips on any mobile device or computer.

## TracVision TV6

### High performance when bluewater is on the horizon

The new TracVision TV6 provides commercial-grade performance, rock-steady satellite reception, and an extended coverage area that is perfectly suited for boats heading offshore for short or long voyages. The 60 cm (24-inch) antenna features easy single-cable installation.

### Highlights and Features

- ▶ DVB-S2 compatible
- ▶ Supports DIRECTV U.S. and Latin America, DISH Network, Bell TV, and circular and linear Ku-band services worldwide
- ▶ HDTV compatible (Ku-band services only)
- ▶ Single coaxial cable for power, data, and video for easy installations and retrofits
- ▶ Advanced inertial-based stabilized search for fast satellite acquisition
- ▶ High performance tracking with advanced algorithms for crystal-clear television picture in heavy seas
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- ▶ IP AutoSwitch option for multiple receiver installations delivers simple auto-switching on DiSEqC-compatible services





## TracVision HD-series, HDTV at sea

Designed for today's powerful yachts and advanced satellite technology, the TracVision HD-series provides full support for Ka-/Ku-band HDTV entertainment with sleek, easy-to-use systems. TracVision HD11, a truly global 1 meter (41.5-inch) antenna, and TracVision HD7, a 60 cm (24-inch) antenna, both offer an unmatched suite of groundbreaking technologies. In addition to 4-axis stabilized tracking, the HD-series features K/VH's exclusive TriAD™ technology for receiving broadcasts from three DIRECTV satellites at once, in both Ka-band and Ku-band frequencies. The result is a TV watching experience just like you enjoy at home! These signals are concentrated by the tuned subreflector before reaching K/VH's unique tri-rod dielectric feed, resulting in outstanding reception even as you cruise offshore.

With the TracVision HD-series, everyone onboard can watch whatever they want, on whatever TV they want, whenever they want in sharp HD resolution – with full DVR support. Plus, setup and maintenance are a snap with K/VH's IP-enabled antenna control unit and TracVision iOS apps.

*For complete information on K/VH's TracVision HD-series, request a brochure or visit [www.TracVision.com/HDseries](http://www.TracVision.com/HDseries).*

## TracPhone® VIP-series, the perfect match

To access broadband services while on your boat, complement your satellite television system with fast and reliable satellite Internet and VoIP calling service. K/VH's TracPhone VIP-series offers a full range of advanced satellite communications systems designed exclusively for K/VH's mini-VSAT Broadband™ network, the world's No. 1 maritime VSAT service. Utilizing spread spectrum technology, mini-VSAT Broadband provides fast data speeds, crystal-clear voice, and global coverage, all delivered via extremely compact onboard terminals in a size and style complementing your TracVision system. Yacht owners know they can spend even more time on their boats if they stay connected with family, friends, and business interests during every voyage.

For the ultimate boating experience, choose a dual-dome installation with matching TracVision satellite television and TracPhone satellite communications systems – the mark of the perfectly outfitted boat.

*For additional information on K/VH's mini-VSAT Broadband service, request a brochure or visit [www.miniVSAT.com/vipyachts](http://www.miniVSAT.com/vipyachts).*





## KVH – Leader in Mobile Broadband

KVH is the world's leading provider of mobile satellite communications and television antenna systems. Serving the marine industry since 1982, KVH's fully stabilized antennas offer unmatched performance during all sea and weather conditions.

KVH antenna systems undergo stringent quality checks, including accelerated life cycle testing, military specification environmental tests, shock and vibration testing to Inmarsat specifications, and in-depth functional evaluations.

The results speak for themselves. In any harbor, anywhere around the world, you'll see distinctive KVH antennas with gray baseplates. With more than 175,000 mobile satellite antennas fielded worldwide, KVH has supplied more in-motion satellite communications and TV systems for mobile applications than any other manufacturer. When you choose KVH, you choose the best!

## Solid Warranty & Technical Support

Wherever you travel, you will receive outstanding support and service through KVH's certified quality, product, and customer support programs. This support includes KVH's 24/7 online web support system; a responsive international KVH support team; an extensive network of authorized dealers around the globe; the exclusive KVH Certified Support Network (CSN); and a standard 2-year parts/1-year labor warranty.\*

*\* Unless subject to in-country regulations.*

### Dealer/Distributor



**KVH Industries A/S**  
**EMEA Headquarters**  
**Kokkedal, Denmark**  
 Tel: +45.45.160.180 Fax: +45.45.160.181  
 Email: info@emea.kvh.com

**KVH Industries, Inc.**  
**World Headquarters**  
**Middletown, RI U.S.A.**  
 Tel: +1.401.847.3327 Fax: +1.401.849.0045  
 Email: info@kvh.com

**KVH Industries Pte Ltd.**  
**Asia-Pacific Headquarters**  
**Singapore**  
 Tel: +65.6513.0290 Fax: +65.6472.3469  
 Email: info@apac.kvh.com