

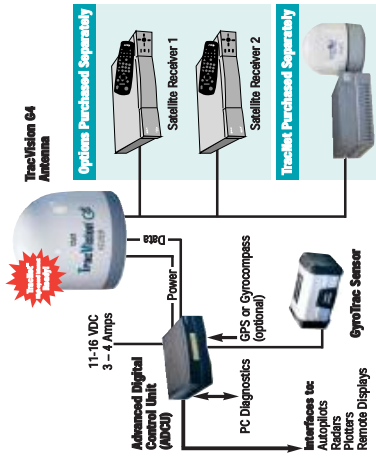
# KVH TracVision™ G4

## The best performing satellite television system *now with* high-speed Internet capabilities



**TracNet™**  
High-Speed Internet  
Ready!

### System Diagram



TracVision G4 Antenna

Options Purchased Separately

TracNet Purchased Separately

### Company Background

KVH Industries is the world's leading provider of mobile communications and television antennas. KVH satellite television and satellite communications products are so well received that they have won the *National Marine Electronics Association* award for "Best Product" in their categories for the past five years in a row.



An ISO 9001-registered company headquartered in Rhode Island, U.S.A. KVH designs and manufactures communications products and digital navigation systems for mobile applications. Through its worldwide distribution channels, KVH serves recreational, commercial, and military markets.



**National Marine Electronics Association**  
1988 - 2002 Best Product Awards  
TracVision™ - Best Satellite Television System  
TracNet™ - Best Satellite Telephone System



Made in the U.S.A.

**KVH**  
NASDAQ  
LISTED

### Technical Specifications

<b>Physical</b>	<b>Power:</b> 11-16 VDC/3 amps typical, 4 amps peak
<b>GyroTrac Attitude/Heading/Reference System</b>	<b>Sensor Box Dimensions:</b> 198 x 127 x 129 mm
	<b>ADCU Dimensions:</b> 185 x 208 x 66 mm
	<b>System Weight:</b> 3.63 kg
<b>Radome</b>	<b>Dimensions:</b> 49 cm x 53.3 cm
	<b>Weight:</b> 13.6 kg
	<b>Antenna Dish:</b> 45.7 cm
	<b>LNB:</b> Dual Output
<b>Environmental</b>	<b>Operating Temperature:</b> -25°C to +55°C
	<b>Storage Temperature:</b> -40°C to +85°C
	<b>Meets FCC Class B, Part 15J requirements</b>
	<b>Meets IEC 945 (CE marking requirements)</b>
<b>Stabilised Heading Outputs/Inputs</b>	<b>Choice of 4 Simultaneous Outputs:</b>
	2 Digital from:
	NMEA1: \$HCHDM, 1Hz - 20Hz
	NMEA2: \$HCHDG, 1Hz - 20Hz
	NMEA3: \$HCHDT, 1Hz - 20Hz
	3-Axis Proprietary, Cetrak
	Sin/Cos (3- or 4-wire)
	Furuno ADIOS
	NMEA to Stepper
	NMEA to Sin/Cos
	NMEA 0183 (GPS or Gyrocompass)
<b>Inputs:</b>	
	1 Analog from:
	1 Proprietary:
	External option:
<b>Performance</b>	<b>Antenna System</b>
	<b>Minimum EIRP:</b> 50 dB
	<b>Elevation Range:</b> +10° to +80°
	<b>Azimuth Range:</b> 710°
	<b>Tracking Rate:</b> 307/second
	<b>Position Repeatability:</b> 0.1°
	<b>Pitch/Roll Range:</b> ±15° (for linear polarisation)
	<b>Surge/Sway/Heave:</b> 20G, 11msec.
	<b>Shock:</b> 0.9G rms over 5-33 Hz
	<b>Vibration:</b> 0.2G
	<b>GyroTrac Attitude/Heading/Reference System</b>
	<b>Reference:</b> Magnetic and True North*
	<b>Warm-up/Recovery Time:</b> Milliseconds
	<b>Deviation Compensation:</b> Automatic
	<b>Accuracy:</b> ±1.0° typical
	<b>Repeatability/Resolution:</b> ±0.25°/0.1°
	<b>Gyro Drift:</b> None (auto-corrected)
	<b>Pitch and Roll Range:</b> ±30°
	<b>Max. Arg. Velocity:</b> 45°/second
	<b>Linearity:</b> 1% of full scale
	<b>Max. Acceleration:</b> 0.5° G
	<b>Zero Point Stability:</b> ±0.8°
	<b>Max. Shock/Performance:</b> 20G, 11msec.
	* Requires input from GPS
<b>Warranty</b>	2 Years Parts, 1 Year Labour
<b>KVH Part Number</b>	01-0231-01 (US config.)
	01-0231-02 (European config.)

TVG4Brom4\_10.02



*Keeping Track of Your World*

Visit us at [www.kvh.com](http://www.kvh.com)

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**TracVision G4 – the premiere system for marine satellite television**

If you demand the very best for your vessel, then the TracVision G4 is the system for you!

In addition to integrated DVB technology – the international standard for digital satellite transmission – the rugged and reliable TracVision G4 uses a combination of antenna-mounted rate gyros, CONSCAN signal strength tracking, and the award-winning KVH GyroTrac™ Digital Gyro Compass, to provide the fastest satellite acquisition and finest satellite tracking available. Compatible with any DVB-compliant or DIRECTV™ satellite service worldwide\*, TracVision G4 makes satellite acquisition extremely fast, totally automatic, and completely foolproof. No matter which programming you select – Astra, Astra 2, Hotbird, Hispasat, Thor, or Sirius in Europe; DISH Network™, DIRECTV, or ExpressVu in North America, or other DVB-compatible satellites in other parts of the world – TracVision antennas will always lock onto the correct satellite to deliver uninterrupted reception of crystal-clear pictures and superb CD-quality sound for outstanding entertainment, whether you're at anchor or underway in open seas – virtually worldwide!

And now, it is even equipped to bring you high-speed Internet service through KVH's new TracNet™ Mobile High-speed Internet System option.

**Built-in DVB encoder for positive satellite identification –**

TracVision G4 ensures that you are always tracking the correct satellite for the best and most reliable in-motion performance. In addition, when using services from two satellites, the antenna automatically identifies and changes satellites when you change programs on your TV's remote control.\*

\*Requires DISEQC compatible receiver

**Fully automated sleep mode –**

TracVision G4 senses when your vessel is stationary (e.g., at the dock) and automatically enters sleep mode. When your vessel begins moving again, active satellite tracking immediately resumes.

**Attractive installations –**

Housed inside a compact 49 cm high gloss, UV-stabilised radome, TracVision G4 matches the popular KVH Tracphone® 50 mini-M SATCOM system for great looking "dual dome" installations.

**The Gyro Trac Advantage – unsurpassed satellite acquisition and system control with the flexibility to meet tomorrow's demands**

The gyro-stabilised, earth-referenced sensors of KVH's award-winning GyroTrac provide precise pitch, roll, and yaw data, enabling instantaneous antenna lock without performing a sky search – even from a cold start in open seas! In addition, the GyroTrac's Advanced Digital Control Unit (ADCU) provides complete visibility and user-friendly control of satellite selection, navigation data, and system diagnostics. It can also output precise gyro-stabilised heading data to other onboard devices.

The ADCU also offers access to a preloaded library of television satellites that is easily expanded as new satellites and services are launched, enabling your system to meet your needs worldwide, both now and in the future, wherever you travel.

**"TracNet-ready" for high-speed mobile Internet –**

When equipped with KVH's new TracNet Internet System option, TracVision G4 automatically identifies and switches between satellite TV and high-speed Internet satellites.

**Superior technology from the market leader and outstanding support wherever you travel ensure your satisfaction**

TracVision G4's rugged and reliable design is based on the award-winning product line that has won the National Marine Electronics Association (NMEA) "Best Product Award" for the past five years. Industry-leading customer support is provided by a worldwide distribution network and an unsurpassed two-year warranty on parts, and a one-year warranty on labour.

KVH is the #1 manufacturer of mobile satellite antennas and is the only company producing both satellite TV and communications systems. KVH offers a complete line of TracVision satellite TV antenna systems for marine and land use. For voice, fax, data, and e-mail, KVH offers the versatile Tracphone® line of satellite telephone systems.

**Introducing TracNet – High-speed Internet on the move, exclusively from KVH**

Broadband Internet access aboard your vessel is now a reality, thanks to KVH's new TracNet Mobile High-speed Internet System option. When connected to your TracVision G4 and the high-powered DVB-satellite Internet service, this new KVH product receives Internet downloads at speeds up to 512 Kbps, even when your boat is at sea and on the move. The mobile Internet service is received by your TracVision antenna throughout Europe and most of the Mediterranean. Now, you can be cruising in comfort with complete access to the Internet – surf the web, access company networks, send and receive e-mail, and download streaming media – thanks to the unique TracNet solution, exclusively from KVH.



**Great variety of entertainment, music, and news –** Enjoy hundreds of channels of digital movies, HDTV, news, sports, and commercial-free CD-quality music and even get high-speed Internet access with KVH's new TracNet Internet System option!

**ADCU provides system control in a user-friendly digital format –** Clear displays and easy-to-use controls give unparalleled system control. A preloaded satellite library enables you to easily switch between services and is easily upgraded as new satellites and new services are launched.

<b>System Setup</b> TRACKING: INSTROL_1 10.1° 91.8° 21.0° 220.0° 23.0° 1.70°		<b>System Status</b> SELECT: HOLLIFU 220.0° 23.0° 1.70°	
<b>Navigation Data</b> FALCON 90.1 7.8 91.1 2.2 7.2		<b>Satellite Library</b> INST'ILL A HISPASAT 702 1024 153.0 P	

**Stabilised heading data for other onboard systems –** The same precise heading data used by the antenna can also be output to other systems, including radars, autopilots, plotters, and displays.

**Watch different programming on multiple television sets –** The antenna's dual-output LNB is capable of providing signals to multiple satellite receivers.



TV not included



\* Receives, decodes, identifies, and tracks signals from any high-powered DIRECTV or DVB-compatible satellite (min. EIRP 50 dB). May require region-specific LNB and receiver. Visit [www.kvh.com](http://www.kvh.com) for details on satellite services and coverage areas.