KVH H60 Trac Net Instruction Manual
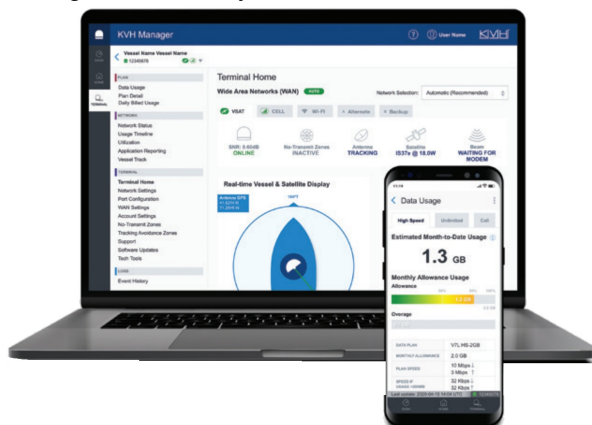
KVH H60 Trac Net

Contents

Important Instruction

Stay connected worldwide with the versatile, 60 cm commercial-grade TracNet H60. As much as 42% lighter than competing systems, this compact digital antenna offers unmatched communications using hybrid satellite, cellular, and Wi-Fi connectivity with intelligent, automatic switching. The terminal also includes easy single-cable installation and a commercial-grade rotary joint for continuous azimuth rotation and tracking. Its three-axis pedestal design, stabilized skew, dual digital IMUs, and advanced motor controllers deliver high performance tracking in all sea states.

1. High-speed VSAT service (as fast as 10/3 Mbps down/up) via KVH's global, layered Ku-band HTS network, offering 294 million sq. km (113+ million sq. miles) of coverage
2. Tuned antenna paired with KVH's exclusive RingFire™ technology ensures superior reception
3. Three-axis pedestal design with a fourth axis of automatic skew adjustment for outstanding tracking in all sea states
4. Terrestrial Communications Module supporting integrated high-power cellular antennas with service in 150+ countries plus built-in high-gain Wi-Fi antennas for seamless switching to shore-based Wi-Fi networks
5. Commercial-grade rotary joint and single cable design for easy installation and uninterrupted azimuth rotation and tracking

Below deck Units

Kaveh's streamlined below deck units are at the heart of every TracNet terminal. These tools create confidence through all-in-one system control and network management.

TracNet Hub 10-30V DC-powered with built-in Wi-Fi router, user-supplied SIM port, ethernet ports and VoIP line. Shelf or bulkhead-mount.

TracNet Hub+ AC-powered with touchscreen interface, user-supplied SIM slot, built-in Wi-Fi router, ethernet ports, two VoIP lines, content storage and access for the commercial maritime KVH Link content service. Rack-mount.

TracNet H60 Hybrid Connectivity System

System Specifications

Service	
Network	KVH Ku-band global HTS network; regional cellular services in 150+ countries; available shore-based Wi-Fi networks
Antenna Type	Ku-band
Service Coverage Area	Seamless Worldwide Regions
Maximum Speed Download/Upload1	10 Mbps/3 Mbps
Above Decks Equipment	
Antenna Dish Diameter	60 cm (24")
Antenna Unit Dimensions/ Weight	66.6 cm D x 79.2 cm h (26.2" D x 31.2" h)/ 24.3 kg (53.6 lbs)
Elevation/Azimuth Range	-24˚ to 116˚ / commercial-grade rotary joint for unlimited azimuth rotation
Temperature	Operating: -30°C to 55°C (-22°F to 131°F); Survival: -35°C to 70°C (-31°F to 158°F)
Humidity	IEC 60945; 40°C (104°F), 95% Humidity (non-condensing)
Rain	Precipitation rate of 1.7mm/min, w/wind speeds up to 100 knots
Antenna Unit Power	DC, provided by the TracNet Hub or Hub+
Antenna Cable	100' coax cable provided; supports cable runs up to 500'; see **kvh.com/tracnetcables** or contact KVH Technical Support for specifications
Remote Support	Integrated cellular radio for access by KVH Technical Support (requires SIM activation)
Belowdecks Equipment – TracNet Hub+	
Dimensions	48.3 cm l x 30.7 cm w x 4.5 cm h (19" x 12.1" x 1.75"); will fit in 1U slot; rack- mountable with optional mounting provisions 2

Weight	3.7 kg (8.3 lbs)
Temperature	Operating: -25°C to 55°C (5°F to 131°F); Survival: -15°C to 70°C (5°F to 158°F)
Heading Input	NMEA 2000, NMEA 0183 magnetic or true heading
Input Power	100-240 VAC, 50-60 Hz auto switching, 250W max
Data Interfaces	4 Ethernet: IEEE 1000BASE T-T 2 USB 3.0 Ports
Voice Interfaces	2 RJ11 ports for VoIP services

Below Decks Equipment – TracNet Hub

Dimensions	23.6 cm x 20.5 cm x 4.4 cm (9.34″ x 8.05″ x 1.73″)
Weight	1.4 kg (3 lbs)
Temperature	Operating: -15°C to 55°C (5°F to 131°F); Survival: -25°C to 70°C (5°F to 158°F)
Heading Input	NMEA 2000, NMEA 0183 magnetic or true heading
Input Power	10-30 VDC, 125W max
Data Interfaces	4 Ethernet: Gigabit 1000BASE-T IEEE 802.3; 2.4/5GHz IEEE 802.11ac/a/b/g/n 2×2 MIMO Wi-Fi; 2 USB 3.0 Ports
Voice Interfaces	1 RJ11 port for VoIP services

System Options

KVH Link	Available for commercial applications. See kvh.com/link for details.
KVH One Care™ Support Program	Available; see **kvh.com/onecare** for details
Iridium Certus® Optional Backup	Available; see "Optional Backup" on **kvh.com/H60** for details

Terrestrial Communications Module – Cellular Specifications

Band Support

Regions	Global, except China	
5G	Standards	3GPP Release 15 NSA/SA operation, Sub-6 GHz
	MIMO	DL: Up to 4 x 4 MIMO UL: Up to 2 × 2 MIMO

LTE (4G)	Standards		DL Cat 20; UL Cat 18
			LTE-FDD, LTE-TDD & LTE-LAA
	MIMO		DL: Up to 4 ×4 MIMO
UMTS (3G)	WCDMA		

Data Rates (max)3

5G	5G NR SA Sub-6Ghz		DL 4.2 Gbps; UL 450 Mbps
	5G NR NSA Sub-6Ghz		DL 5.0 Gbps; UL 600 Mbps
LTE	LTE-A		DL 2.0 Gbps; UL 200 Mbps
UMTS	WCDMA		DL 42 Mbps; UL 5.76 Mbps

Terrestrial Communications Module – Wi-Fi Specifications

Wi-Fi Standards	IEEE 802.11ac/a/b/g/n
Band Support	2.4 Ghz / 5 Ghz
Data Rate (max)3	802.11b: 11Mbps 802.11a/g: 54Mbps 802.11n: 300Mbps 802.11ac: 867Mbps
MIMO	Up to 2 x 2 MIMO
Security	WPA2, WPA3

Complete System

Certification	Complies with the essential requirements of Radio Equipment Directive 2014/53/EU, which includes the safety objectives set out in EN62368-1 and in EMC directive EN60945 NMEA 2000 Certified RoHS & REACH
System Warranty 4	Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available
Part Number	01-0436-11

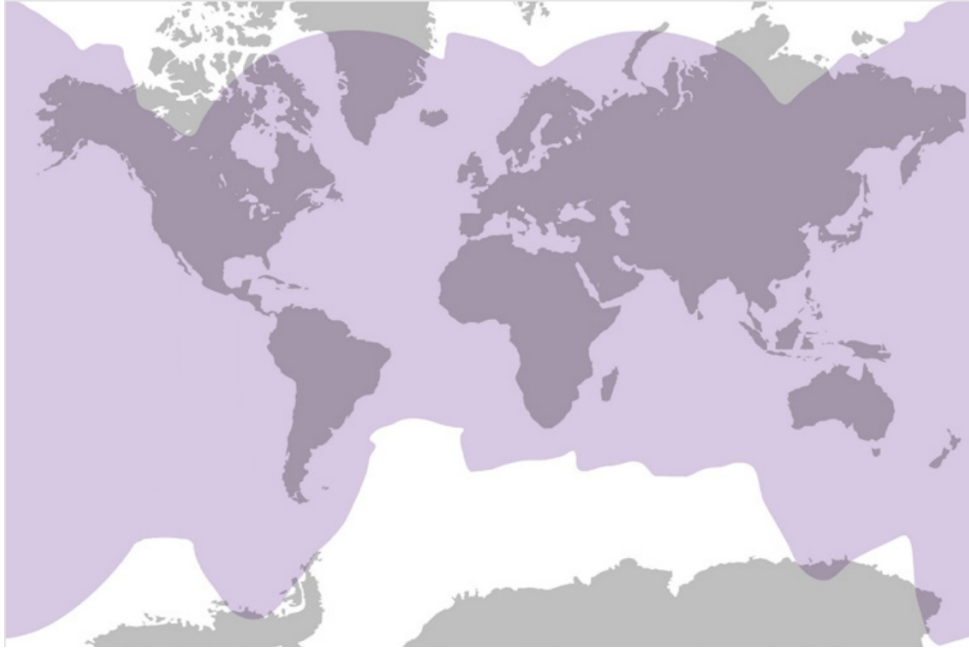Meets CE requirements. Exceeds Inmarsat operational, survival, and shock specifications

1. Published data speeds are maximum speeds and may vary in different regions and under different conditions.
2. Optional Below Decks Mounting Case (Part Number 72-0368) available for vessels without a rack.
3. Data rates theoretical only and actual value depends on network conditions. Data rates limited by 1 Gbps

Ethernet LAN interface.

4. Unless subject to in-country regulations. Restrictions apply. Visit **kvh.com/warranty** for details.

TracNet 60 cm and 1m System Coverage Map

Coverage maps are representative and may change at any time. Data rates may also vary in different regions. For complete details, visit **kvh.com/tracnetmaps** and click on the KVH ONE coverage map. KVH provides no guarantees of satellite coverage or availability.

60 cm and 1 m

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KVH ONE®

Documents / Resources

KVH H60 Trac Net [pdf] Instruction Manual
H60 Trac Net, H60, Trac Net, Net

References

- ◁ **Home - KVH Innovative Solutions for Maritime Connectivity**
- ◁ **TracNet H60 - KVH Compact Hybrid Solution**
- ◁ **KVH Link - KVH Crew Wellbeing**
- ◁ **Welcome**
- ◁ **Satellite Coverage: 37cm Systems - KVH**
- ◁ **Warranty - KVH Support**
- **User Manual**