

The Award-winning Compass with Gyro Performance



Key Features and Attributes

- Provides 3-axis gyro-stabilization for rock-steady heading in all conditions
- Improves autopilot performance
- Provides stable heading for north-up radars
- Auto-calibration
- Offers one central heading device that easily interfaces to all electronics
- Provides true or magnetic north
- Drives all KVH TracVision® G4 and G6 television antennas
- Contains no moving parts and requires no maintenance
- Requires no warm-up time

KVH GyroTrac provides gyro performance for 1/4 the cost!

KVH Industries offers an economical gyro system that fits as easily onboard a vessel as it does in a budget – the KVH GyroTrac. Using technology pioneered by KVH, the compact GyroTrac combines two leading-edge concepts: an award winning KVH digital magnetic compass stabilized by a three-axis gyro sensor. The integration of these systems results in the world's finest magnetic compass, offering the drift-free precision of digital compass technology with the stability and accuracy of gyro-stabilization – all for less than 25% of the price of a mechanical gyro.

Adding to its versatility is GyroTrac's ability to provide stabilized heading data through a variety of analog and digital outputs. As a result, the operation and precision of virtually all other onboard navigation systems are enhanced. With GPS input, GyroTrac can also calculate true north. Selecting any of these functions and interfacing with other onboard systems is simple thanks to GyroTrac's outstanding user interface. Staying on course has never been so easy!



Staying On Course

GyroTrac's gyro sensor ensures an accurate course in all sea conditions and latitudes.



Offering Affordable Precision

GyroTrac's low price makes the world's finest magnetic compass a high-quality solution for any vessel.

NMEA Award Winner
Best Gyro Compass
Azimuth GyroTrac Compass



KVH GyroTrac™

Technical Specifications

GyroTrac System	Order Part Number 01-0226
Physical Specifications	
Sensor Module Dimensions	7.8"l x 5.0"w x 5.1"h (198 mm x 127 mm x 129 mm)
Control Unit Dimensions	7.3"d x 8.2"w x 2.6"h (185 mm x 208 mm x 66 mm)
Weight	8 lbs (3.63 kg)
Power Input	12-32 VDC Nominal
Consumption	330 mA

Performance

Reference	Magnetic and True North*
Warm-up Time	Milliseconds
Deviation Compensation	Automatic
Accuracy	±1.0° typical
Repeatability/Resolution	±0.25°/0.1°
Recovery Time	Milliseconds
Gyro Drift	None (auto-corrected)
Pitch & Roll Range	±30°
Max. Ang. Velocity	45°/sec.
Linearity	1% of full scale
Max. Acceleration	0.5° G
Zero Point Stability	±0.8°
Max. Shock/Performance	20G, 11 msec.

* Requires input from GPS

Environmental Specifications

Operating Temperature	-13°F to +167°F (-25°C to +75°C)
Storage Temperature	-40°F to +185°F (-40°C to +85°C)
EMI/RFI (CE Approved)	IEC 945, FCC Part 15J Class B

Standard Outputs

Choice of 5 simultaneous outputs:
(user-selectable)

3 Digital (with choice of):	NMEA1: \$HCHDM, 1Hz - 20Hz NMEA2: \$HCHDG, 1Hz - 20Hz NMEA3: \$HCHDT, 1Hz - 20Hz 3-Axis Proprietary, RS232 Cetrek
1 Analog (with choice of):	Sin/Cos, field configurable, or B&G Sin/Cos
1 Proprietary:	Furuno AD10S

Warranty

2-year parts, 1-year labor

Sugg. Retail Price

\$2,995

Interface Options

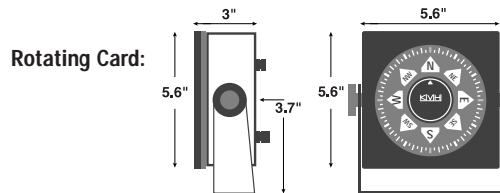
Optional Stepper Interface

Dimensions	10.5"l x 5.8"w x 2.3"h (267 mm x 147 mm x 58 mm)
Weight	13 oz (368 grams)
Input	NMEA 0183 (GPS or Gyrocompass)
Stepper Output	3, 6, 12, 24 steps/degree, User-selectable
Stepper Output Voltage	5V Standard (35-70V Factory Option \$275; Order Part Number 19-0089)
Sugg. Retail Price	\$695

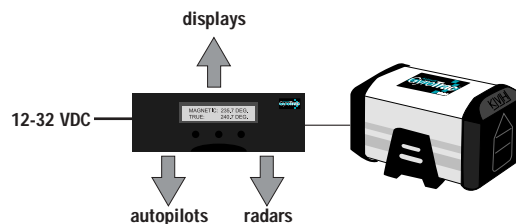
Display Options

Rotating Card Display

Display Type	Rotating Card
Movement	Microprocessor-controlled
Dimensions	5.6"l x 5.6"h x 3"d (144 mm x 144 mm x 76 mm)
Weight	2 lbs, 7 oz (1105 grams)
Power Consumption	420/450mA (Lights Off/On)
Sugg. Retail Price	\$1,495



GyroTrac System Diagram



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Keeping Track of Your World

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Specifications subject to change without notice