

Intellian® v130G

Marine Stabilized Ku-band

3-axis Communication Antenna System with 125cm Reflector Diameter



■ Gyro-free satellite search capability

Intellian's new generation Gyro-free satellite search function enables the v130G to acquire and lock onto the satellite without requiring a separate input from the ship's gyro-compass.

■ Aptus remote management

The v130G can be accessed, monitored, and controlled from any location in the world. Furthermore, routine maintenance activities can be automated. Aptus helps automate firmware upgrades, tracking parameter adjustment and system diagnosis.

■ Superior RF performance

Major RF components are designed and manufactured by Intellian's solid in-house engineering to achieve superior antenna gain and xpol isolation recognized among the best performances in the industry.

■ Wireless & Networking connectivity

The built in Wi-Fi enables connectivity with Intellian Aptus Mobile for advanced system control and monitoring, including One-Touch satellite library and firmware updates. The new Intellian LAN port on the ACU provides networking connectivity to other Intellian systems enabling integrated monitoring and control of all the Intellian networked devices.

■ Save installation and maintenance time

Simple design allows users to install and setup the system without the need for a skilled engineer. The v130G provides the utmost in reliability resulting in time and cost savings in maintenance. The built in LED lamp inside the radome base provides safer and brighter maintenance environment.

■ Open platform compatibility

The v130G is fully integrated with ABS (Automatic Beam Switching) function with leading service providers who use the embedded Open AMIP protocol of the iDirect platform and v130G is also compatible with various platforms such as Hughes, Comtech, SatLink and more.

■ Wide elevation range

The wide elevation range from -20° to 120° enables the v130G to have seamless signal reception while the vessel is traveling near the Equator or Polar Regions.

Intellian

Connect with the best

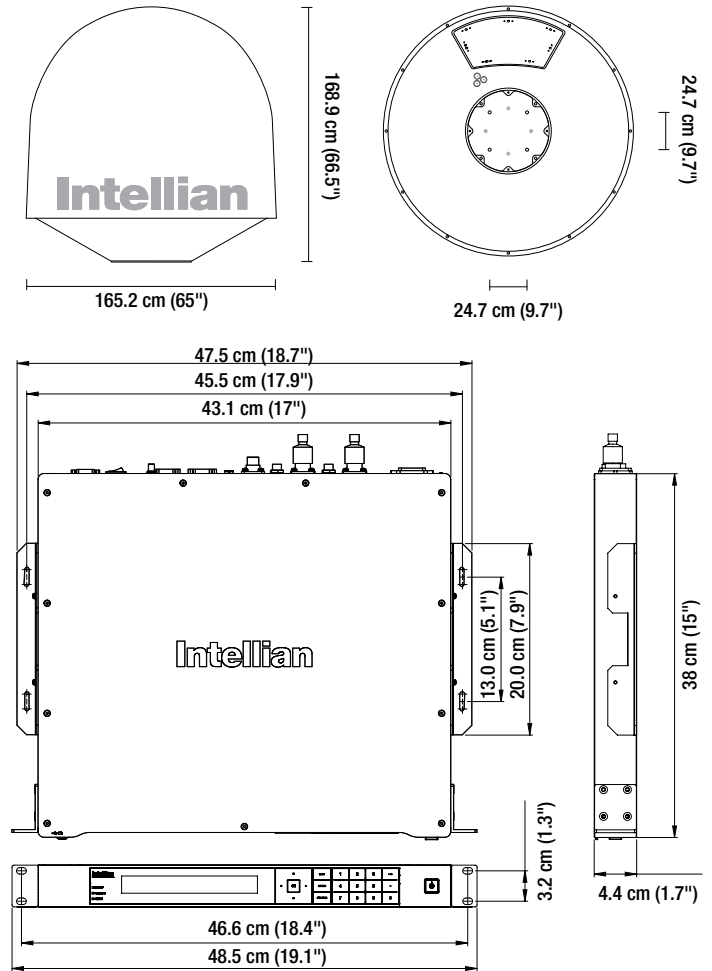
Intellian® v130G

125cm Ku-band 3-axis Marine Satellite Antenna Systems

Technical Specifications

| Physical | |
|------------------------------|--|
| Radome Height | 168.9cm / 66.5" |
| Radome Diameter | 165.2cm / 65" |
| Reflector Diameter | 125.0cm / 49.2" |
| Weight | 146.8kg / 323lbs (variable w/ RF components) |
| Stabilized Pedestal Assembly | |
| Platform | 3-axis : Azimuth, Elevation, Cross-level |
| Azimuth Range | Unlimited |
| Elevation Range | -20° to +120° |
| Cross-level Range | Up to ±37° |
| Stabilization Accuracy | 0.2° peak mis-pointing @ max ship motion condition |
| Motor Brake System | Elevation, Cross-level |
| Reflector & Feed Assembly | |
| TX Frequency | 13.75~14.5GHz Ku-band |
| TX Gain | 43.2dBi @ mid band |
| RX Frequency | 10.95~12.75GHz Ku-band |
| RX Gain | 42.1dBi @ mid band |
| G/T | > 20.4dB/K (Clear Sky, 30° Elevation) |
| BUC | 8W, 16W (optional) |
| LNB | Intellian PLL LNB |
| Polarization | Cross-pol and Co-pol as standard |
| Antenna Control Unit | |
| Dimensions (WxDxH) | 43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7" |
| Weight | 3.5kg / 7.7lbs |
| Display | 2 line 40 character graphic VFD module |
| Gyrocompass Interface | NMEA / NMEA 2000 |
| Modem Interface | Ethernet port / RS-232C / I/O ports |
| Modem Protocol | iDirect, Comtech, SatLink, Hughes, GILAT |
| Remote Management | Yes |
| Wi-Fi Operation | Yes |
| Management Port | Yes |
| Intellian LAN Port | Yes |
| Power Requirement | 100~240V AC, 50~60 Hz, 4A |

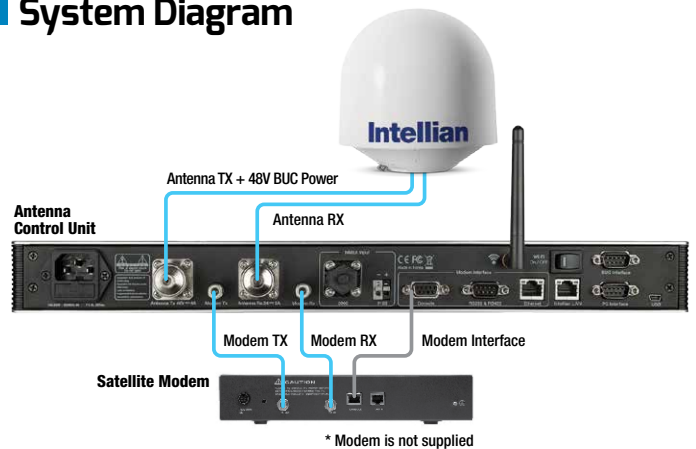
System Dimensions



Key Features

- Gyro-free Operation** Without requiring heading device input
- Aptus Web** Quick setup to reduce installation time
- Customized Satellite Library** Built-in web interface
- Automatic Diagnosis** Remote firmware upgrade
- Spectrum Analyzer** Additional satellite information setting not required for installation
- Automatic Diagnosis** Encoder, Motor, Tilt/Gyro sensor, LNB pol control, LNB, Antenna & ACU power, Modem connection, I/F
- Spectrum Analyzer** Real time monitoring of the current satellite signal on Aptus platform

System Diagram



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