Remote Satellite Systems INTERNATIONAL

Intellian® v130G

Marine Stabilized Ku-band

3- axis Communication Antenna System with 125cm Reflector Diameter

3 YEAR GLOBAL WARRANTY

Aptus

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

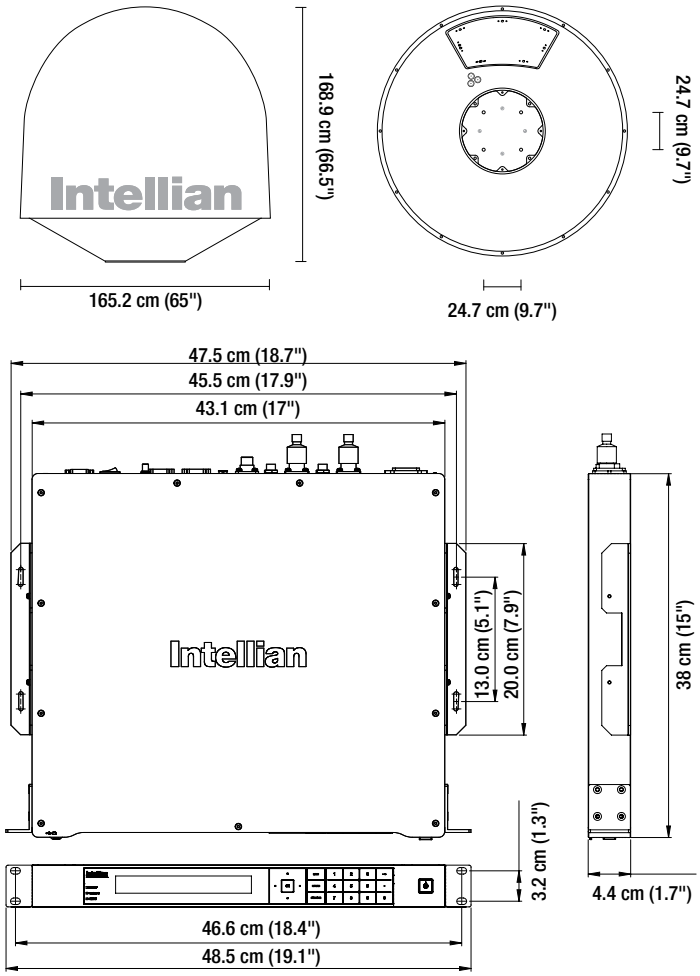
Intellian® v130G

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

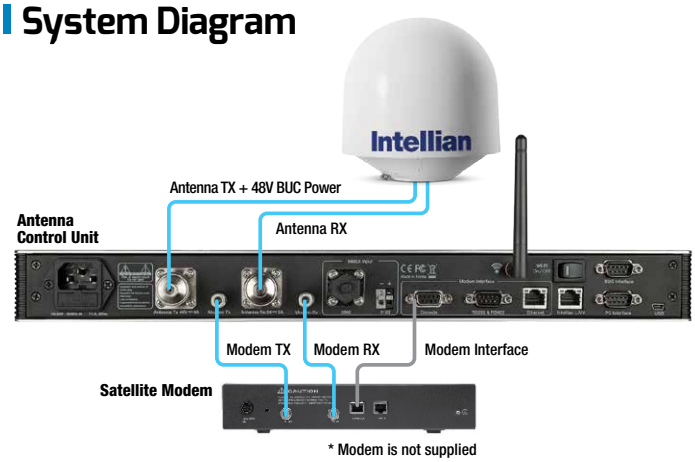
System Dimensions



Key Features

• **Gyro-free Operation**	Without requiring heading device input
	Quick setup to reduce installation time
• **Aptus Web**	Built-in web interface
	Remote firmware upgrade
• **Customized Satellite Library**	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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