

Intellian® v130

Marine Stabilized Ku-band

Communication Antenna System with 3-axis and 125cm Dish Diameter



Remote Management Solution

The v130 can be accessed, monitored, and controlled from any location in the world. Furthermore, hundreds of routine maintenance activities can be automated. These solutions include operating firmware upgrades, tracking parameters resets and system diagnosis.

Save Installation and Maintenance Time

Simple design allows users to install and setup the system without the need for a skilled engineer. The v130 provides the utmost in reliability resulting in time and cost savings in maintenance.

Gyro-free Satellite Search Capability

Intellian's new generation Gyro-free satellite search function enables the v130 to acquire and lock onto the satellite without requiring a separate input from the ship's gyro-compass.

Open Platform Compatibility

The v130 is fully integrated with ABS (Automatic Beam Switching) function with leading service providers who use the embedded OpenAMIP protocol of the iDirect platform and v130 is also compatible with various platforms such as Hughes, Comtech, SatLink and more.

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.

Wide Elevation Range

The wide elevation range from -20° to 120° enables the v130 to have seamless signal reception while the vessel is traveling near the Equator or Polar Regions.

Intellian®

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

Technical Specifications

Radome & Antenna	
Radome Height	168.9cm / 66.5"
Radome Diameter	165.2cm / 65"
Antenna Dish Diameter	125.0cm / 49.2"
Weight	149.7kg / 337lbs (variable w/ RF components)
Stabilized Pedestal Assembly	
Pedestal Type	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
Reflector & Feed Assembly	
TX Frequency	13.75 ~ 14.5 GHz Ku-band
TX Gain	43.2 dBi @ Mid band
RX Frequency	10.95 ~ 12.75 GHz Ku-band
RX Gain	42.1 dBi @ Mid band
G/T	> 20.2dB/K (Clear Sky, 30° Elevation)
BUC Power	8W, 16W (optional)
LNB	Intellian PLL LNB
Polarized Feed	Cross-pol and Co-pol as standard
LNB Pol Control	Automatic LNB-pol angle control

Antenna Control Unit	
Dimensions (WxDxH)	43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"
Weight	5.2kg / 11.5 lbs
Display	2 line 40 character graphic VFD module
Ship's Gyrocompass Interface	NMEA / Synchro
Modem Interface	Ethernet port / RS-232C / I/O ports
Modem Protocol	iDirect, Comtech, SatLink, Hughes, GILAT
Remote Management	Yes
Wi-Fi Operation	N/A
Power Requirement	100~240 V AC, 50~60 Hz (max 350 W including 8 W BUC power)

Key Features

Gyro-free Operation

Without requiring heading device input Quick setup to reduce installation time

Remote Access

Built-in web interface, Remote firmware upgrade

Customized Satellite Library

Additional satellite information setting not required for installation.

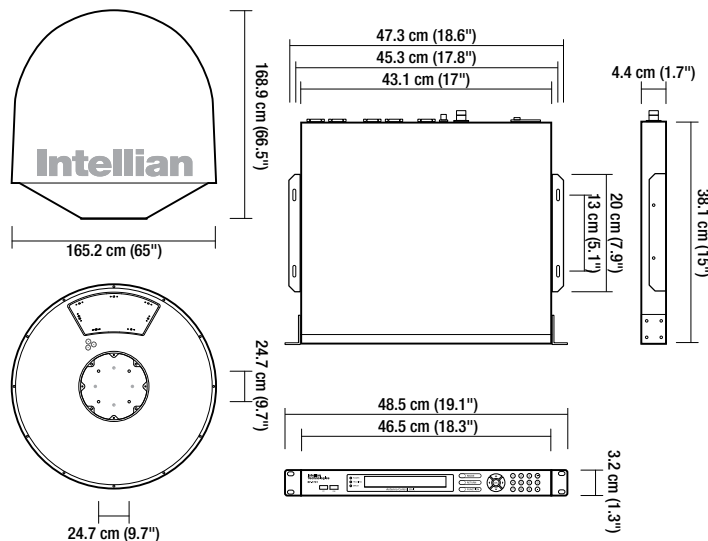
Automatic Diagnosis

Encoder, Motor, Tilt/Gyro sensor, LNB pol control, LNB, Antenna & ACU power, Modem connection, I/F

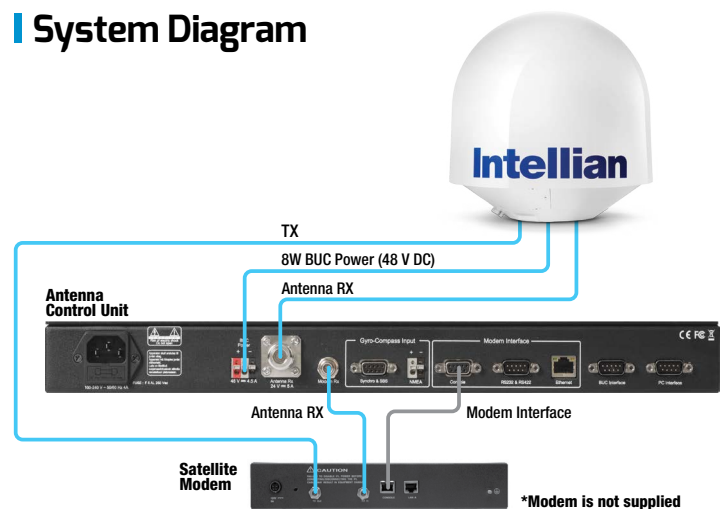
DC Power Separation

Rotary joint - TX and RX IF signal Slip ring - Antenna power and 8W BUC power

System Dimension



System Diagram



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