# Intellian v110

Marine Stabilized Ku-band Communication Antenna System with 3-axis and 105cm Dish Diameter



**Intellian v110** is a 1.05m Ku-band maritime VSAT communication antenna system that supports SCPC, TDMA, Spread Spectrum or Carrier-in-Carrier and is suitable for high-speed Internet, email, file transfer, video conference, VOIP, VPNs and database backup. With its 3-axis stabilized platform and advanced shock-resistant and vibration damping design, the v110 is capable of withstanding the most demanding sea conditions to provide "Always on" and "High-quality" broadband communications on all types of vessels.

The v110 offers superior RF performance with its simple yet sophisticated design that reduces installation time and total cost of ownership. Equipped with Remote IP access function, the v110 can be accessed, monitored and controlled from anywhere and anytime to ensure cost-effective technical supports without having an engineer come on board. The v110 comes with cross-pol and co-pol feed and Intellian's Global PLL LNB as standard.



## **Gyro-free Satellite Search Capability**

Intellian's new generation Gyro-free satellite search function enables the v110 to acquire and lock onto the satellite without requiring a separate input from the ship's gyro-compass.

## **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 -15° to 120° enables the v110 to have seamless signal reception while the vessel is traveling near the Equator or Polar Regions.

## **Remote Management Solution**

The v110 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 v110 provides the utmost in reliability resulting in time and cost savings in maintenance.

## **Open Platform Compatibility**

The v110 is fully integrated with ABS (Automatic Beam Switching) function with leading service providers who use the embedded OpenAMIP protocol of the iDirect platform and v110 is also compatible with various platforms such as Hughes, Comtech, SatLink and more.



## Intellian v110

## 105cm Ku-band 3-axis Marine Satellite Antenna Systems

## **Technical Specifications**

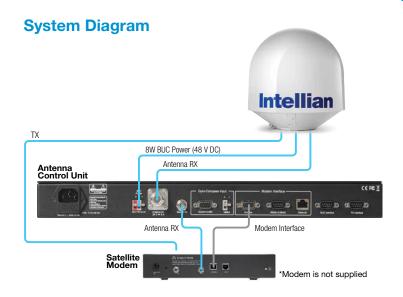
Specifications		
3-axis Marine Stabilized Ku-band Communication Antenna System		
Radome & Antenna		
147.4 x 152.3 cm / 58" x 60"		
105.0 cm / 41.3"		
139.5 kg / 307.5 lbs (variable w/ RF components)		
Stabilized Pedestal Assembly		
3-axis / Azimuth, Elevation, Cross-level		
Unlimited		
-15° to +120°		
Up to ±37°		
0.2° peak mis-pointing @ max ship motion condition		
Max Ship's Motion		
±25° roll, ±15° pitch, ±8° yaw @ 6 sec period		
Up to 12°/sec & 5°/sec²		
Reflector & Feed Assembly		
13.75 ~ 14.5 GHz Ku-band		
41.7 dB @ Mid band		
10.95 ~ 12.75 GHz Ku-band		
39.8 dB @ Mid band		
Cross-pol and Co-pol as standard		
Automatic LNB-pol angle control		

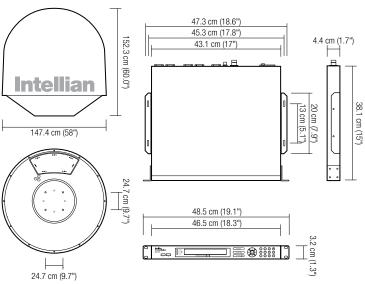
Rack Mount Antenna Control Unit		
Display	2 line 40 character graphic VFD module	
Key	20 push keys	
Serial Interface	RS-232C (19200 bps 8, N, 1)	
Modem Interface	Ethernet port / RS-232C / I/O ports	
Remote Access	TCP/IP	
Input Power	100~240 V AC, 50~60 Hz (max 350 W including 8 W BUC power)	
Gyrocompass Interface	NMEA / Synchro	
GPS	NMEA in / NMEA out	

## **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

## **Antenna Dimensions**







ISO 9001, 14001 Certified

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