Intellian v110

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



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 is available in both cross-pol and co-pol feeds and supports multi-band LNB and the option of 2W-40W BUC.



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 <u>Marine Satellite Antenna Systems</u>

Technical Specification

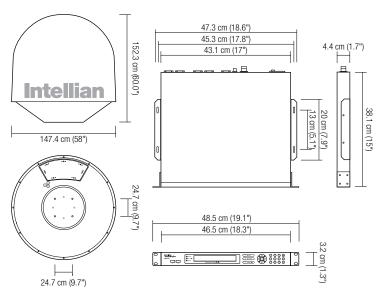
Product Model	Specifications	
Intellian v110	3-axis Marine Stabilized Ku-band Communication Antenna System	
Radome & Antenna		
Radome (D x H)	147.4 x 152.3 cm / 58" x 60"	
Dish Diameter	105.0 cm / 41.3"	
Weight	139.5 kg / 307.5 lbs (variable w/ RF components)	
Stabilized Pedestal Assembly		
Pedestal Type	3-axis / Azimuth, Elevation, Cross-level	
Azimuth Range	Unlimited	
Elevation Range	-15° to +120°	
Cross-level Range	Up to ±37°	
Stabilization Accuracy	0.2° peak mis-pointing @ max ship motion condition	
Max Ship's Motion		
Roll / Pitch / Yaw	±25° roll, ±15° pitch, ±8° yaw @ 6 sec period	
Turning Rate	Up to 12°/sec & 5°/sec²	
Reflector & Feed Assembly		
TX Frequency	13.75 ~ 14.5 GHz Ku-band	
TX Gain	41.7 dB @ Mid band	
RX Frequency	10.95 ~ 12.75 GHz Ku-band	
RX Gain	39.8 dB @ Mid band	
Polarized Feed	Cross-pol only, Cross-pol and Co-pol	
LNB Pol Control	Automatic LNB-pol angle control	

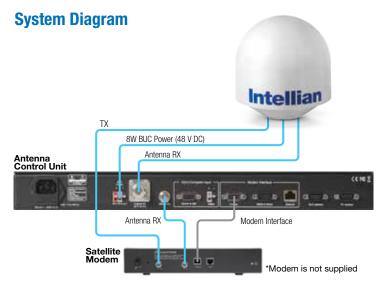
Rack Mount Antenna Control Unit	
Display	2 line 40 character graphic VFD module
Key	20 push keys
Serial Interface	RS-232C (19200 bps 8, N, 1)
Modem Interface	Ethernet port / RS-232C / I/O ports
Remote Access	TCP/IP
Input Power	100~240 V AC, 50~60 Hz (max 350 W including 8 W BUC power)
Gyrocompass Interface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





Intellian[®]

ISO 9001 Certified
For more info, visit *intelliantech*.com

Americas

Intellian Technologies USA, Inc.

9004 Research Drive Irvine, CA 92618, USA

Tel +1-949-727-4498
Toll Free +1-888-201-9223
Fax +1-949-271-4183
Email info@intelliantech.com

Europe Intellian B.V.

Bristolstraat 1, 3047AB Rotterdam, Netherlands

Tel +31-1-0820-8655 Fax +31-1-0820-8656 Email info@intelliantech.com

MEA & APAC

Intellian Technologies, Inc. 2F Dongik Bldg., 98 Nonhyun-dong, Kangnam-gu, Seoul 135-010, Korea

Tel +82-2-511-2244 Fax +82-2-511-2235 Email info@intelliantech.com