

Intellian® t80W

85cm Ku-band 3-axis
Global Satellite TV Antenna Systems

Intellian® t80W is the world's first marine satellite TV antenna system that truly works with any Ku-band satellite TV service around the globe without requiring LNBS to be swapped out or re-wiring the system when the vessel travels from region to region.

The fully stabilized, 3-axis t80W is a 85cm(33.5") satellite TV antenna system that is exclusively designed to support viewing all Standard Definition (SD) and HD programming broadcast through both DVB and the latest DVB-S2 satellite TV service standards.

Integrated with the exclusive, patented, groundbreaking WorldView™ LNB module and Intellian's exclusive pre-programmed Global satellite library, the t80W allows you to tune into any channel on any satellite by simply pushing the button on your remote control. The t80W will automatically switch between circular polarized programming in North, Central and South Americas, and linear polarized programming in Europe, the Middle East, and the Asia Pacific region.

Built with Intellian's extremely high vibration and shock standards, the t80W's simplified yet sophisticated mechanical design is capable of withstanding the most severe marine environment and is guaranteed to track and lock onto the satellite signal instantly in all weather conditions.



Product Model	Specifications
Intellian t80W	3-axis Ku-band Marine Satellite TV Antenna System
Physical	
Dimensions(diameter x height)	113 x 121 cm (44.6"x 47.5")
Antenna Dish	85 cm (33.5")
Weight	83.4 kg (184 lbs)
Performance	
Reception Frequency	Ku-band (10.7~ 12.75 GHz)
Minimum EIRP	44 dBW
Azimuth Range	680°
Elevation Range	-15° to +110°
Cross Level Range	±30°
Stabilization Accuracy	0.2° peak mis-pointing@ max ship motion condition
Max. Ship Motion	
Roll/Pitch/Yaw	±25° roll, ±15° pitch, ±8° yaw@ 6 sec period
Turning Rate	Up to 12/sec & 5/sec 2
Environmental	
Operating Temp. Range	-25°C to +55°C (-13°F to +131°F)
Storage Temp. Range	-30°C to +70°C (-22°F to +158°F)
Water Ingress	IPX6
Approved	CE and FCC
Warranty	3 Year Parts 1 Year Labor
Antenna Control Unit	
Dimensions (WxDxH)	43cm(16.9")x29.58cm(11.6")x4.4cm(1.7")
Weight	3.2kg (7.1 lbs)
Display	2 Line 40 Character Graphic VFD Module
Power Input	110V ~ 220V AC (Typ. 50W, Max 100W)
Ship's Gyrocompass Interface	NMEA/Synchro

LNB LO Frequencies		
Local Oscillator Frequency	Polarization	Area
11.250 GHz	Dual Circular	North America, Russia
10.500 GHz	Dual Circular	Latin America
10.750 GHz	Single Circular	Korea
10.750 GHz	Dual Circular	China
10.678 GHz	Single Circular	Japan
11.300 GHz	Dual Linear	South East Asia
10.700 GHz	Dual Linear	Australia
Universal Low: 9.75 GHz High: 10.6 GHz	Quad Linear	Europe, Middle East, Africa, some Asia countries

- Note**
- LNB stability: ±25 kHz (Except at Universal 9.75 GHz)
 - LNB LO frequencies can be extended
 - LNB LO frequencies are automatically changed according to target satellites
 - Polarization can be switched between circular and linear

Intellian®
ISO 9001 Certified
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