

# Intellian® t110w

**World's First & Only  
Global Satellite TV Service Reception  
1.05m Stabilized Ku-band Marine Satellite Antenna**

**Intellian® t110w** is the world's first and only 1.05m stabilized ku-band marine satellite TV antenna system exclusively designed for commercial vessels to receive all kinds of satellite TV services as well as the latest DVB-S2 service around the globe without the inconvenience hardware changes throughout the trip as they cross multiple satellite TV coverage areas.

Integrated with the 2nd generation WorldView™ LNB module, t110w is capable of offering the most clear, reliable, and stable TV receptions for boaters to tune in any channels on any satellites seamlessly throughout the voyage regardless of whether the circular polarized programming in North, central, and South Americas or the linear polarized programming in Europe, Middle East, and the Asia Pacific region.

The t110w is built with Intellian's extremely high vibration and shock standards to withstand all sea conditions. The wide elevation range from  $-15^{\circ}$  to  $120^{\circ}$  enables the t110w to have great reception while the vessel is traveling near the equator or Polar Regions. With a simplified yet sophisticated mechanical design and excellent satellite tracking capability, the t110w is recognized as the Real Definition for Satellite TV System at Sea.



## Global Satellite Services Compatibility

Intellian t110w provides the ultimate convenience to connect you up to thousands of Free TV, Pay TV, Standard Definition, and High Definition programming all over the world with one LNB module which incorporates multi (8) LO frequencies.

## Hands-Free WorldView™ LNB Module

The 2nd generation, patent-pending WorldView LNB module is the latest innovation from Intellian. Unlike other TVRO system LNB's with  $\pm 1,000$  kHz stability, the Intellian WorldView LNB module is built on the highest stability of  $\pm 10$  kHz which has 100 times more accuracy and greater signal sensitivity. In addition, this LNB module receives multi-band and multi-polarization satellite TV services around the globe. Therefore, boaters don't need to manually change the LNB inside the antenna dome each time the vessel crosses into a different satellite service region.

## DVB-S2 Digital TV Reception

Some of the HD TV services have moved onto DVB-S2, and there will be more in the future. Thanks to Intellian's groundbreaking DVB-S2 digital TV technology, now boaters are able to enjoy their favorite DTH (Direct To Home) entertainment at sea, just like home.

## Wide Elevation Range

The wide elevation range from  $-15^{\circ}$  to  $120^{\circ}$  enables the t110w to have seamless signal reception while the vessel is traveling near the Equator or Polar Regions.

## Global Satellite Library

The t110w includes the pre-programmed global satellite library which allows boaters to select the desired satellite while travelling from region to region. Once the satellite is selected the WorldView LNB module will automatically switch to the corresponding local frequency to receive the signal.

**Intellian®**

# Intellian® t110W

## 1.05m Ku-band 3-axis Marine Satellite Antenna Systems

### Technical Specification

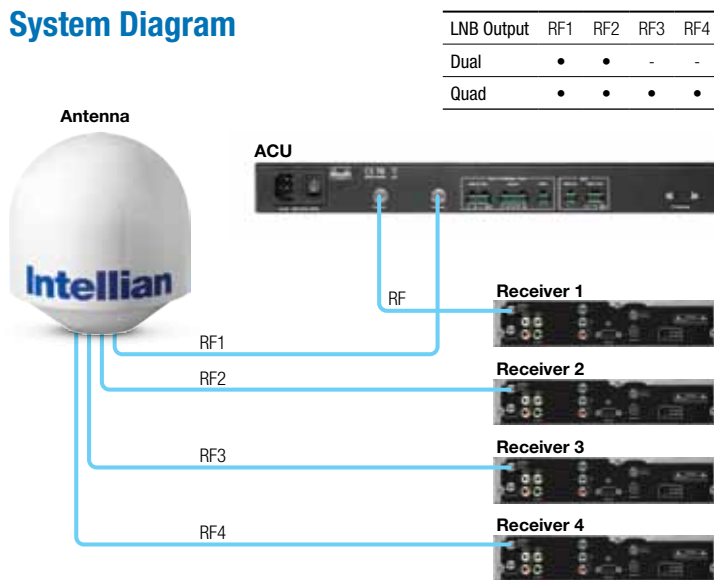
Part	Specifications
T1-1117W	Intellian t110W Satellite TV Antenna System
<b>Physical</b>	
Radome (D x H)	133 x 142 cm / 52.4" x 55.9"
Antenna Dish Diameter	105cm / 41.3"
Weight	91kg / 201 lbs
<b>Environmental</b>	
Operating Temp. Range	-15°C to +55°C / +5°F to +131°F
Storage Temp. Range	-25°C to +70°C / -13°F to +158°F
Water Ingress	IPX6
Approvals	CE / FCC
Warranty	2 year parts and 1 year labor
<b>Performance</b>	
Reception Frequency	Ku-Band (10.7 ~ 12.75 GHz)
Minimum EIRP	42 dBW
Azimuth Range	680°
Elevation Range	-15° to +120°
Ship's Motion	Roll ±25°, Pitch ±15°
Roll & Pitch Response Rate	30°/sec
Turn Rate	30°/sec
RF Output	Quad output

Antenna Control Unit	
Dimensions (W x D x H)	43cm x 26.58cm x 4.37cm / 16.9"x10.5"x1.7"
Weight	3.2 kg / 7.1 lbs
Display	2 line 20 character VFD module
Power Input	110V ~ 220V AC (Typ. 30W, Max 100W)
GPS Interface	Built-in (NMEA 0183 GPS)

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: ±10 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

### System Diagram

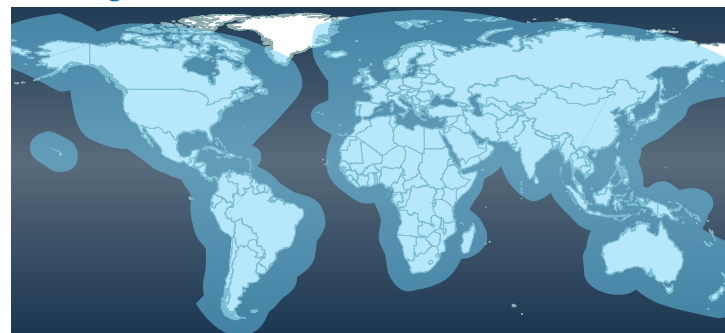


\*Receivers are not supplied

### Key Features

- Global Satellite TV Services Compatibility
- Built-in WorldView LNB Module
- DVB-S2 decode capability
- Built-in GPS and auto LNB pol control system
- Built-in pre-programmed global satellite library

### Coverage



# Intellian®

ISO 9001 Certified  
For more info, visit [intelliantech.com](http://intelliantech.com)

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