



# s 100 N

## 1M MARITIME

### HD DIRECTV and Global Satellite TV Antenna



#### FEATURES

##### ALL NEW HARDWARE STRUCTURE

The new pedestal, motors and modular antenna control are based on the successful VSAT NX terminals. The majority of the new TVRO antenna's parts are interchangeable. Sharing common modules across Intellian's new TVRO series, greatly reduces the number of spare parts required.

##### UNLIMITED AZIMUTH RANGE

With Intellian's unique rotary joint and slip ring solution, those onboard will enjoy uninterrupted TV services no matter the number of turns the vessel makes. The solution eliminates the wait for the antenna to unwrap cable once its length is reached. The TV choices you enjoy at home can be enjoyed at sea without interruption.

##### TELEVISION WHEREVER YOU ARE

The user can select the desired TV programming from the internal library of worldwide TV satellites. A selection of TV satellites can be listed as favorites for quick access. New TV satellites can easily be added to the library via the AptusNTV dashboard.

##### NEW APTUSNTV

Intellian's all new integrated M&C platform AptusNTV provides a responsive web user interface. A simple seven step installation wizard function configures the antenna system automatically and minimizes operators' work for system installation and operation. The ACU supports Wi-Fi for easy access from a PC, tablet or smart phone.

##### SIMULTANEOUS DIRECTV® RECEPTION

Intellian's WorldView Trio LNB™, with its triple feed horn, provides simultaneous reception of DIRECTV® satellites: two HD Ka-band (99°W/103°W) satellites and one Ku-band (101°W) satellite. The LNB receives Ku-band TV service around the globe, providing a complete HD entertainment experience at sea.

##### SYSTEM HIGHLIGHTS

- All New hardware structure
- Unlimited azimuth range
- Simultaneous DIRECTV® satellite reception (99, 101, 103W)
- Programmable WorldView Trio LNB™
- Wi-Fi connectivity support
- AptusNTV for easy configuration
- Matching dome solution available
- New Dual TVRO Mediator support
- Multi-Switch Module

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## TECHNICAL SPECIFICATIONS

### ABOVE DECK UNIT

Radome Height	145.8 cm / 57.4"
Radome Diameter	138 cm / 54.3"
Reflector Diameter	109 cm / 42.9"
Weight	105 kg / 231.5 lbs
Azimuth Range	Unlimited
Elevation Range	-15° to +115°
Cross-level Range	Up to ±42°
Rx Frequency	Ku-band: 10.7 ~ 12.75 GHz, Ka-band: 18.3 ~ 18.8 / 19.7 ~ 20.2 GHz
LNB Type	Trio WorldView Programmable
EIRP	Ku-band: 42.0 dBW (min.) Ka-band: 45.0 dBW (min.)
Polarization	Ku-band: Linear & Circular Ka-band: Circular
Stabilization Accuracy	0.2° max in presence of specified ship motions
Ship Motion (@ 6 second)	Roll ±25°, Pitch ±15°, Yaw ±8° Turning Rate: Up to 10°/sec <sup>2</sup>

### BELOW DECK UNIT

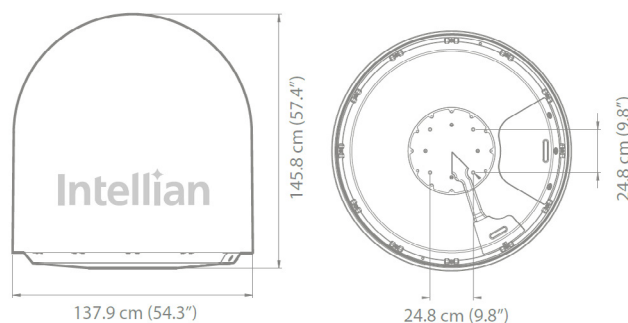
Dimensions	43.1 x 35.0 x 4.4 cm / 17.0" x 13.8" x 1.7"
Weight	4.8 kg / 10.6 lbs
Key	2 push keys
LED Indicator	3 LEDs: Power, tracking, error
Power Requirement	100 ~ 240 VAC, 50-60 Hz, 3.3 A
Power Consumption	Max 150 W
Gyrocompass Interface	NMEA2000 / NMEA0183
Ethernet Port	RJ45, TCP / IP connection
RF Interface	FSK/DC power: F-type Front: PC connection, firmware upgrade, logs download Rear: Wi-Fi (for Wi-Fi dongle)

### LNB LO FREQUENCIES

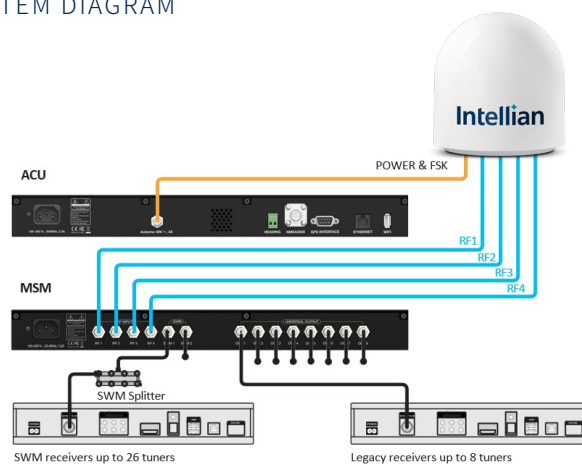
#### Worldview Trio LNB

	9.75 / 10.6 GHz (universal mode)
Ku-Band	10.5, 10.678, 10.7, 10.75, 11.25 and 11.3 GHz (single mode)
Ka-Band	18.05 GHz

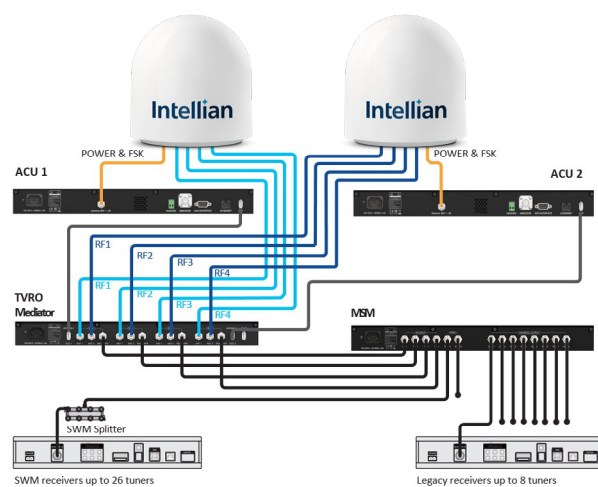
## SYSTEM DIMENSION



## SYSTEM DIAGRAM



## SYSTEM DIAGRAM (DUAL)



### Global HQ

Innovation Center  
Intellian Technologies, Inc.  
T +82 31 379 1000

### APAC

Seoul  
Intellian Technologies, Inc.  
T +82 2 511 2244

### Americas

Irvine  
Intellian Technologies USA, Inc.  
T +1 949 727 4498  
Toll Free +1 888-201-9223

### EMEA

Rotterdam  
Intellian B.V.  
T +31 1 0820 8655