

Intellian® v240C

2.4m C-band Circular and Linear Polarization

Maritime VSAT Antenna System



Automatic Polarization Switching

Featuring patented technology available only on select Intellian models, the v240C allows you to effortlessly and automatically switch between linear and circular c-band polarization, wherever you go, with ease and convenience. Simply select a polarization from the ACU or PC-based control software, and the unit does the rest of the work for you, auto-adjusting itself to receive the desired signal.

Wide Elevation Angle

The v240C's wide-look angle pedestal design is excellently suited for extremely low or high latitude areas, such as the Scandinavian Peninsula or the Equatorial regions. Empower your vessel with the ability to travel far and wide, without the worry of signal loss!

Motor Brakes

Motor brakes on the elevation and cross-level components prevent dish damage from sudden movements and/or shock when the unit is powered off, in transport, or in storage.

Easy Installation, Setup and Operation

With the v240C, installation and setup are easier than ever. Once a satellite's peak signal position is acquired during first-time setup, the unit will automatically re-adjust accordingly every time it boots (bow, home sensor offset, azimuth, and elevation position), saving you huge amounts of time and effort.

Antenna Dome Features

The v240C antenna dome is combined with 12 panels which makes easier to assemble than equivalent products. The unit comes with an optional temperature control assembly that automatically provides the dome enclosure's interior with air conditioned cooling as needed. No matter what the temperature is outside the dome, you can rest assured that the unit will be fully functioning under optimal temperature conditions inside the dome.

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Technical Specifications

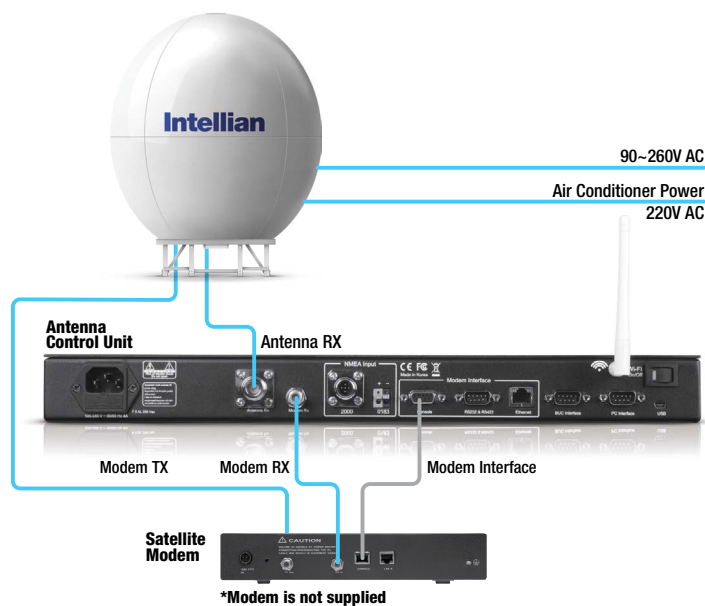
Radome & Antenna	
Radome Height	410cm / 161.4"
Radome Diameter	330cm / 130.0"
Antenna Dish Diameter	240cm / 94.5"
Weight	670kg / 1477 lbs
Stabilized Pedestal Assembly	
Pedestal Type	3-axis : Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-15° to +120°
Cross-level Range	±30°
Stabilized Accuracy	0.2° peak mis-pointing @ max ship motion condition
Motor Brake System	Elevation, Cross-level
Reflector & Feed Assembly	
TX Frequency	5.85GHz ~ 6.425GHz
TX Gain	41.7dBi @ 6.14GHz (with Radome)
RX Frequency	3.625 GHz ~ 4.2 GHz
RX Gain	37.7 dBi @ 3.91GHz (with Radome)
G/T	20.0dB/K (Clear Sky, 20° Elevation)
BUC Power	25W, 40W (optional)
Polarization	Circular Polarization & Linear Polarization, Auto Switching

Antenna Control Unit	
Dimensions (WxDxH)	43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"
Weight	3.0kg / 6.6 lbs
Display	2 line 40 character graphic VFD module
Ship's Gyrocompass Interface	NMEA / NMEA 2000
Modem Interface	Ethernet port / RS-232C / I/O ports
Modem Protocol	iDirect, Comtech, SatLink, Hughes, GILAT
Remote Management	Yes
Wi-Fi Operation	Yes
Management Port	N/A
Power Requirement	90~260V AC, 47~63 Hz, 1A

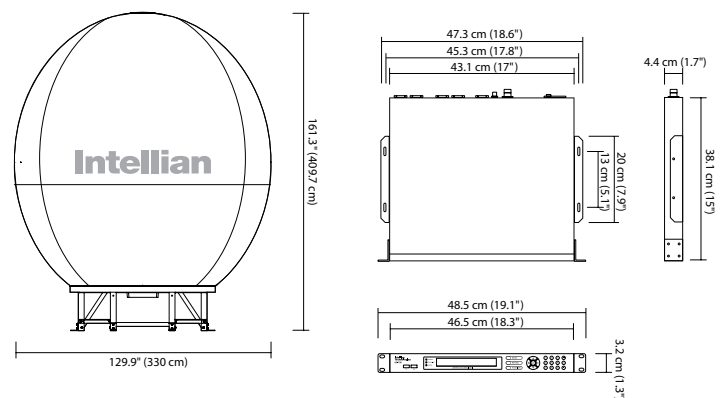
ACU Key Features

- Firmware updates can easily and reliably be made through the ACU without any hardware replacements utilizing Intellian's custom updating.
- Wi-Fi supported ACU provides convenient connection to the ACU for setup and system monitoring.
- TCP/IP supports a wide range of modem interface formats (including Ethernet, console, RS232).

System Diagram



System Dimension



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