

# Intellian



## t360CK

Global Satellite TV Antenna System 3.6 Meter, C- Band and Ku-band

– CRUISE VESSELS

### System Highlights

- One Cable fiber solution
- Auto Switchable C & Ku-Band via Aptus NTV
- Improved TVRO Hardware Architecture
- Programmable WorldView Ku-Band LNB
- Optional C-Band LNB with 5G mitigation available
- DVB-S2 Digital TV Receptions
- User-friendly SW platform for Antenna M&C
- Dual setup via external Mediator

### Intuitive Aptus NTV



Aptus NTV is Intellian's latest GUI for the entire TVRO product line. Customers using Aptus NTV can configure and make all the changes they want in the system without leaving the GUI interface. This includes switching between broadcast satellite presets, creating different groups of satellites to meet their needs when changing regions, add or change satellite information using the improved library system.

### Simplified Installation & Setup



The t360CK is designed for ease installation thanks to its optimized structure and design.

With a common bolt pattern and 5 cable coax option, the installation process is simplified.

Using Intellian's seven-step Installation Wizard you can be sure your TV systems will be ready in no time.

### Automatically Switches Between C & Ku Band



The t360CK joins a family of proven Intellian TVRO terminals and offers the first-and-only electronically switchable feed in the 3.6 m size class. The system has the ability to electronically switch between C-Band and Ku-Band, while supporting C and Ku Band linear and circular polarization in the same feed. The fully switchable feed eliminates the need for cumbersome hardware modifications and ensures your guests have prompt access to entertainment services and at the same time helping blockage mitigation.

### Common Spares & Class Leading Warranty



The 360CK comes with a class-leading warranty of 3 years for parts and 2 years for labor. This system also features a modular component design, ensuring ease of maintenance.

Additionally, the t360CK shares common spare parts with Intellian's industry-leading TVRO tN/sN series and 2.4m product range.

### Fiber Optic Solution



The t360CK one-cable fiber solution is ideal for the cruise and super yacht markets. Designed and supported by Intellian, this solution minimizes signal loss on long cable runs between above deck and below deck equipment, with no external calibration or additional equipment required.



# t360CK Technical Specifications

## Above Deck Unit

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Radome Height            | 4.36m / 171.52"                                                                                                         |
| Radome Diameter          | 4.27m / 168"                                                                                                            |
| Reflector Diameter       | 3.6m / 141.73"                                                                                                          |
| Weight                   | 983 kg / 2167.14 lbs                                                                                                    |
| Azimuth Range            | Unlimited                                                                                                               |
| Elevation Range          | -10° to +115°                                                                                                           |
| Cross-level Range        | Up to $\pm 25^\circ$                                                                                                    |
| Power Consumption        | Max 1000W @ 220 VAC                                                                                                     |
| Rx Frequency             | C- Band: 3.7GHz ~ 4.2GHz<br>Ku-Band: 10.7 ~ 12.75 GHz                                                                   |
| Rx Gain                  | C-Band: 41.7dBi @4.2GHz (w/o Radome)<br>Ku-Band: 49.6dBi @12.5GHz (w/o Radome)                                          |
| LNB Type                 | C- band: C-band Super Low Noise LNB<br>Ku-Band: Ku-Band WorldView Programmable                                          |
| EIRP                     | C- band: 28.5dBW (Min.)<br>Ku-Band: 32~33dBW (Min.)                                                                     |
| Polarization             | C- band: Linear & Circular<br>Ku- Band: Linear & Circular                                                               |
| Stabilization Accuracy   | 0.2°max in presence of specified ship motions                                                                           |
| Ship Motion (@ 6 second) | Roll $\pm 15^\circ$ (8-12 sec period)<br>Pitch $\pm 10^\circ$ (6-12 sec period)<br>Yaw $\pm 8^\circ$ (15-20 sec period) |
| Turning Rate:            | Up to 12° / sec and Up to 15° / sec <sup>2</sup>                                                                        |

## Below Deck Units

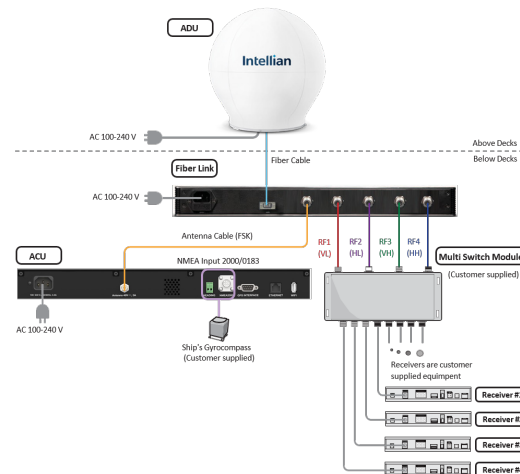
|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| Dimensions            | 43.1 x 41.1 x 4.4 cm / 17.0" x 16.2" x 1.7"                                                              |
| Weight                | 5.7 kg / 12.6 lbs                                                                                        |
| Display               | OLED Display                                                                                             |
| LED Indicator         | 3 LEDs: Power, Tracking, Error                                                                           |
| Power Requirement     | 100 ~ 240 VAC, 50~60Hz, 3.3A                                                                             |
| Power Consumption     | Max 30W                                                                                                  |
| Gyrocompass Interface | NMEA2000 / NMEA0183                                                                                      |
| Ethernet Port         | RJ45, TCP / IP connection                                                                                |
| RF Interface          | FSK: F-type                                                                                              |
| USB Port              | 1 PC Connection & Firmware Upgrade (Front),<br>1 Logs Download (Front) / 1 Wi-Fi (Rear, for WiFi dongle) |

## ADE Environmental Conditions

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Temperature Range | (Operating) -25° to +55° C<br>(-13° to +131° F) |
| Humidity          | 100% Condensing                                 |
| Wind Speed        | 56m/sec (125mph)                                |
| IP Rating         | IPX5                                            |
| Vibration / Shock | MIL-STD-167-1A                                  |

## System Diagram

### \*Single System



### \*Dual System

