High Performance Marine Satellite Antenna Systems

Intellian® t110
Most powerful and reliable satellite TV antenna with 3-axis stabilization system.

Featuring

• 1.05 m (41.3”) dish diameter maritime satellite TVRO system
• High efficiency, fully automated 3-axis stabilized platform
• Proven mechanical design with utmost simplicity and reliability
• Easy installation and maintenance with less cables and accessories
• Wide elevation range from -15° to +120°
• High-gain design with minimum EIRP 42 dBW
• Incorporates Intellian’s most well known patents, WRS and DBT
• Compatible with major TV services around the globe
• 19 inch rack-mount type ACU (Antenna Control Unit)
• Built-in global satellites library
• Incorporates Dual MCU (Micro Control Unit) to accelerate response rate
• Built-in GPS and auto LNB pol-angle control system

Experience the innovation.

Intellian Technologies USA, Inc. • Irvine, CA • 949-727-4498 • intelliantech.com
## Technical Specification

### Part Specifications

<table>
<thead>
<tr>
<th>Part</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1-1117S</td>
<td>Intellian t110 Satellite TV Antenna System</td>
</tr>
</tbody>
</table>

### Physical

- **Radome (D x H):** 133 cm x 142 cm / 52.4" x 56.0"
- **Antenna Dish Diameter:** 105 cm / 41.3"
- **Weight:** 90 kg / 198 lbs

### Environmental

- **Operating Temp. Range:** -25˚C to +70˚C / -13˚F to +158˚F
- **Storage Temp. Range:** -30°C to +70°C / -22°F to +158°F
- **Water Ingress:** IPX6

### Performance

- **LNB pol Control:** Automatic LNB pol-angle control
- **Reception Frequency:** 10.7 ~ 12.75 GHz Ku-band
- **Pedestal Type:** 3-axis / Azimuth, Elevation, Cross-level
- **Minimum EIRP:** 42 dBW
- **Azimuth Range:** 680˚
- **Elevation Range:** -15˚ to +120˚
- **Cross Level:** Up to ±30°
- **Roll / Pitch / Yaw:** ±25° / ±15° / ±8° @ 6 sec period
- **Turn Rate:** Up to 12°/sec & 5°/sec²
- **Polarization:** Vertical / Horizontal or RHCP / LHCP

### Antenna Control Unit

<table>
<thead>
<tr>
<th>Dimensions (W x D x H)</th>
<th>43 x 26.6 x 4.4 cm / 16.9&quot; x 10.5&quot; x 1.7&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.2 kg / 7.1 lbs</td>
</tr>
<tr>
<td>Display</td>
<td>2 line 40 character VFD module</td>
</tr>
<tr>
<td>Power Input</td>
<td>110/220 V AC, 50/60 Hz, 1 Phase (Max 100 W)</td>
</tr>
<tr>
<td>GPS Interface</td>
<td>Built-in GPS</td>
</tr>
<tr>
<td>Gyrocompass Interface</td>
<td>NMEA / Synchro</td>
</tr>
</tbody>
</table>

### Key Features

- 1.05 m (41.3") dish diameter maritime satellite TVRO system
- High efficiency, fully automated 3-axis stabilized platform
- Proven mechanical design with utmost simplicity and reliability
- Easy installation and maintenance with less cables and accessories
- Wide elevation range from -15° to +120°
- High-gain design with minimum EIRP 42 dBW
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- Compatible with major TV services around the globe
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### System Diagram

- **Antenna Control Unit (ACU)**
- **Receivers:** RF1, RF2, RF3, RF4
- **Roll／Pitch／Yaw:** ±25° / ±15° / ±8° @ 6 sec period

### Dimensions

- **Height:** 47.4 cm (19.1")
- **Width:** 45.4 cm (17.9")
- **Depth:** 43.1 cm (16.9")
- **Diameter:** 133 cm (52.4")
- **Antenna Dish Diameter:** 133 cm (52.4")
- **Roll／Pitch／Yaw:** ±25° / ±15° / ±8° @ 6 sec period

*Receivers are not supplied*

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**Intellian® t110**

**Ku-band 3-axis Marine Stabilized Satellite TV Antenna Systems with 1.05m Dish**

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