VSAT Communication(V-Series)

Internet & Telephone using 3-Axis marine stabilized antenna for the best maritime broadband services(Ku/C-Band)

**GENERAL DESCRIPTION**

Full 3-axis gyro stabilized tracking system that keeps the antenna pointing at the satellite, even in rough seas or when maneuvering the ship at high speed provides high quality, consistent, always-on broadband data connections. The Super Track V-series is the perfect solution for owners of leisure craft, small commercial vessels as well as large and military vessels worldwide, who require the same Internet experience at sea that they use at home and at office. The V-series antenna will bring lightning-fast broadband connections and simultaneous, reliable telephone service to the vessel at an affordable rate. Best of all, the system’s compact design is easy to install and looks good on any vessel. Enjoy always-on high speed internet, e-mail, multiple lines of VoIP Phone and more with this system.

### Applications with V-Series VSAT System

E-mail service with internet environment, Video conference with VoIP telephone lines, and Mobile Wi-Fi phone, Internet with Smartphones and a variety of IP user applications.

### Selection Guide of Antenna Models

The MRC V-series line of products is designed for ship owners who need internet and voice systems as well as HDTV, on their vessel regardless of whether it is moored or voyaging in rough conditions.

<table>
<thead>
<tr>
<th>Item</th>
<th>VI61</th>
<th>VI85</th>
<th>VI100</th>
<th>VI120</th>
<th>V240</th>
<th>V300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dish</td>
<td>61cm (24&quot;)</td>
<td>85cm (33&quot;)</td>
<td>100cm (39&quot;)</td>
<td>120cm (47&quot;)</td>
<td>240cm (95.5&quot;)</td>
<td>300cm (118&quot;)</td>
</tr>
<tr>
<td>Dome/H x D</td>
<td>61cm x 72cm</td>
<td>85cm x 113cm</td>
<td>100cm x 139cm</td>
<td>161cm x 157cm</td>
<td>310cm x 315cm</td>
<td>375cm x 380cm</td>
</tr>
<tr>
<td>Material</td>
<td>FRP</td>
<td>FRP</td>
<td>FRP</td>
<td>FRP</td>
<td>FRP</td>
<td>FRP</td>
</tr>
<tr>
<td>Weight</td>
<td>42kg(6W)</td>
<td>87kg(6W)</td>
<td>114kg(6W)</td>
<td>143kg(6W)</td>
<td>420kg(25W)</td>
<td>620kg(25W)</td>
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<tr>
<td>G/T</td>
<td>14.0dB/K</td>
<td>17.7dB/K</td>
<td>19.7dB/K</td>
<td>20.4dB/K</td>
<td>20dB/K</td>
<td>20.4dB/K</td>
</tr>
<tr>
<td>Rx/Tx Gain</td>
<td>38.9dB/38.9dB</td>
<td>41.9dB/43.7dB</td>
<td>41.9dB/43.7dB</td>
<td>41.9dB/43.7dB</td>
<td>41.9dB/43.7dB</td>
<td>41.9dB/43.7dB</td>
</tr>
<tr>
<td>BUC</td>
<td>4/8/16W</td>
<td>4/8/16/25W</td>
<td>4/8/16/25W</td>
<td>25/40/60/100/200W</td>
<td>25/40/60/100/200W</td>
<td>25/40/60/100/200W</td>
</tr>
<tr>
<td>Platform</td>
<td>3-Axis</td>
<td>3-Axis</td>
<td>3-Axis</td>
<td>3-Axis</td>
<td>3-Axis</td>
<td>3-Axis</td>
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<tr>
<td>LNB</td>
<td>Linear/Int. PLL</td>
<td>Linear/Int. PLL</td>
<td>Linear/Int. PLL</td>
<td>Linear/Int. PLL</td>
<td>Linear/Int. PLL</td>
<td>Linear/Int. PLL</td>
</tr>
<tr>
<td>Skew Control</td>
<td>Auto/-130°/130°</td>
<td>Auto/-130°/130°</td>
<td>Auto/-130°/130°</td>
<td>Auto/-130°/130°</td>
<td>Auto/-130°/130°</td>
<td>Auto/-130°/130°</td>
</tr>
<tr>
<td>El/Az</td>
<td>-10°/100°/Unlimited</td>
<td>-20°/-100°/Unlimited</td>
<td>-20°/-100°/Unlimited</td>
<td>-20°/-110°/Unlimited</td>
<td>-20°/-110°/Unlimited</td>
<td>-20°/-110°/Unlimited</td>
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<tr>
<td>Cross Angle</td>
<td>+/-30°</td>
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<td>+/-30°</td>
<td>+/-30°</td>
<td>+/-30°</td>
<td>+/-30°</td>
</tr>
<tr>
<td>Tracking Spd.</td>
<td>More 90°/sec</td>
<td>More 90°/sec</td>
<td>More 90°/sec</td>
<td>More 90°/sec</td>
<td>More 90°/sec</td>
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<tr>
<td>Damper</td>
<td>Rubber Damper</td>
<td>Rubber Damper</td>
<td>Rubber Damper</td>
<td>Wire Rope Isolator</td>
<td>Wire Rope Isolator</td>
<td>Wire Rope Isolator</td>
</tr>
<tr>
<td>Temp/Humidity</td>
<td>-20° - 55°/100%</td>
<td>-20° - 55°/100%</td>
<td>-20° - 55°/100%</td>
<td>-20° - 55°/100%</td>
<td>-20° - 55°/100%</td>
<td>-20° - 55°/100%</td>
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<tr>
<td>Gyro</td>
<td>NMEA/Synchr/Sync</td>
<td>NMEA/Synchr/Sync</td>
<td>NMEA/Synchr/Sync</td>
<td>NMEA/Synchr/Sync</td>
<td>NMEA/Synchr/Sync</td>
<td>NMEA/Synchr/Sync</td>
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<tr>
<td>Ku/C Band</td>
<td>Ku/Small</td>
<td>Ku/Commercial</td>
<td>Ku/Commercial</td>
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<td>Ku/Commercial</td>
<td>Ku/Commercial</td>
</tr>
</tbody>
</table>

**Optional Features**

- Dual-system configuration (With a dual controller and a single antenna) to overcome blockage
- ABS(Automatic Beam Switch) function among air-time suppliers
- Terrestrial Telephone & Fax, Video Phone, Video Conference, Remote Monitoring, PC, Wireless or Wired Ethernet Connection with VoIP, CCTV systems

**System Diagram**

Computer with SCS software

Ship &/or Compass

Data

RX / DATA

Antenna Control Unit

RX

GPS Data

Satellite Modem

[ Wiring Diagram of VSAT System for Internet and Telephone(for Reference) ]