

# Sea Tel 4006RZ

3-Axis marine stabilized antenna system compatible with Ku-Band satellites

2008 Data Sheet

The most important thing we build is trust

## The Model 4006RZ Broadband-at-Sea

The 4006RZ Antenna is a 1-meter Ku-Band maritime VSAT antenna for SCPC, broadband, or hybrid networks. The 4006RZ utilizes the same radome and antenna as the 4003. This antenna system meets the FCC's 2-degree spacing requirement, which is a remarkable achievement for a 1-meter ring-focus antenna.

The antenna efficiency is better than 70% across the transmit and receive bands and is ideal for ocean going vessels that require "always-on" broadband satellite communications. The 4006 is suitable for file and image transfer, video conferencing, e-mail,

Virtual Private Networks (VPNs), and database backup.

The Sea Tel 06 Series utilizes the DAC 2202 Antenna Control Unit. The DAC 2202 is a 19" rack mount unit (1.75" tall) featuring: (3) RS-232/422 Serial Ports; (1) full function M&C and (2) NMEA ports for heading, GPS input and modem compatible, reformatted GPS output; (1) Ethernet port allowing (2) full-function TCP/IP M&C ports; (1) multi-user HTML interface port for setting all DAC parameters and viewing the current DAC status; (1) UDP download port for updating software in the Comm Interface.

## Specifications

- Antenna: 1 m/40" D ring focus
- Radome: 1.27m/50" D x 1.48m/58.5" H.
- Weight: 300 lbs./136 kg
- Polarized Feed: Linear Cross-Pol and Co-pol with Remote Control
- Waveguide Rotary Joint: Allows >180 degrees of feed rotation, BUC: 4W, 8W, 16W, 25W and 40W Available
- BUC: 4 W is Standard & 8 W Optional
- Transmit Gain: 40.0 dBi @ 14.0 GHz
- Receive Gain: 39 dBi @ 12.5 GHz
- Roll/Pitch Amplitude: +/-20 degrees roll; +/-10 degrees pitch
- Pedestal Type: 3-axis: Level, Cross-Level and Azimuth
- Operating Temperature Range: 20 Degrees C to +55 Degrees C
- Transmission rates compatible with many different types of modems, networks and services.
- IP access to the Internet and corporate networks enabling fast downloads of large data files and e-mail
- Unlimited data transfer allowance
- High Quality of Service (QoS) for voice calls through Service Providers' PSTN infrastructure
- Easy stand-alone or network compatible installation
- 24/7 customer care and technical support
- 1-year warranty on parts; 1-year labor



Sea Tel's patented, 3-axis stabilization system isolates the antenna from the ship's motion no matter how rough the weather and seas. The antenna system responds to ship's movement at a rate as fast as 90 degrees per second.

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