

# Sea Tel 9497

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

2009 Data Sheet

The most important thing we build is trust

## The Model 9497

Sea Tel's Model 9497 operates in many areas around the globe and is compatible with all known and planned TV satellites. It is an extremely sensitive system especially with the enhanced pointing accuracy, stability and reliability made possible by Sea Tel's patented, 3-axis stabilization technology. Choose this antenna when you want the best TV coverage you can get but space prohibits installation of our Model 14400 antenna.

All this plus a sophisticated automated controller that lets you bring the TV shows you want on board fast – and easy – from anywhere on the ship.



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.

# COBHAM

## Specifications

- Antenna Gain C-band: 39.5 dB at 4.2 GHz
- Antenna Gain Ku-band: 47.5 dB at 12.5 GHz
- Min. EIRP C-band: 30 - 31 dBW
- Min. EIRP Ku-band: 35 - 36 dBW
- Dish Diameter: 2.4 m; 94 in
- Radome Diameter: 3.2m/126"D x 3.0 m/122" H
- Radome Baseframe: Galvanized Steel
- Antenna Stabilization: 3-axis servo
- Built-In GPS: Automatic Satellite Acquisition
- Ship's Motion: +/- 25° Roll or +/-20° Roll and +/- 15° Pitch
- Roll & Pitch Response Rate: Unlimited
- Azimuth Range: Unlimited turning
- Full Elevation Range: -15° to +115°
- Reception: Single C-Band (linear or Circular)/ Single Ku-Band (Linear Only), Dual C-Band Linear, Quad Ku-Band linear, Dual C-Band Linear/Quad Ku-Band linear (Can be configured to receive 2 C-Band and 2 Ku-Band signals simultaneously or 4 Ku-Band signals simultaneously)
- Ku-band: The entire frequency range for Ku-band satellite television is 10.7 to 12.75 GHz. One configuration is not compatible with the other.
- C-band: The C-band frequency range is 3.7 to 4.2 GHz worldwide. Sea Tel TV-at-Sea™ systems are delivered with C-band LNB noise temperatures of 17 degrees K or better. The IF frequency in all cases is 950-1450 MHz.
- Meets Navy MIL-STD-901D GRADE B shock standards and MIL-STD-461 EMI & RFI standards (including 200V/M)
- Accommodates any number of satellite receivers. Many TV sets may be installed onboard, each receiving its own programming from its satellite receiver
- Unmatched stabilization accuracy allows the system to detect and correct the slightest motion affecting the antenna's connection
- HD ready

For further information please contact:

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