

# Sea Tel 8897

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 8897

Sea Tel's Model 8897 is a basic system for coastal operation, available for both C-band and Ku-band. The C-band version lets you receive TV from C-band satellites including the Asiasat, Palapa, and Panamsat series of satellites in the Far East and Panamsat in the Middle East and Africa. The Ku-band version is optimized for service in European and Asian waters, and anywhere Ku-band is available.

Sea Tel's Series 97 three-axis satellite tracking system gives you more reliable TV reception in bad weather. Stabilization and tracking

accuracy is better than 0.2 degrees even when the ship is pitching 15 degrees or rolling 25 degrees.

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.

## Specifications

- Antenna Gain C-band: 37.8 dB at 3.7 GHz
- Antenna Gain Ku-band: 46.6 dB at 12.5 GHz
- Min. EIRP C-band: 32.6 - 33.5 dBW
- Min. EIRP Ku-band: 36.5 - 37.5 dBW
- Dish Diameter: 2.1 m; 82 in
- Radome: 2.79 m/110"x 2.67m/105"
- 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 any motion that may affect the antenna's connection
- HD Ready



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.

For further information please contact:

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