

SEA 157S Class D VHF/FM DSC Marine Radio



The new SEA157S series VHF/FM DSC models are compliant to ITU and IMO standards for Class D GMDSS marine radios. These S series transceivers are built on the widely accepted and proven model 157 platform and its award winning DSP technology. Several advanced communications capabilities and new feature sets enhance operator safety and efficiency for individual vessel and fleet operators. These features meet the technical performances and operational requirements of today's professional Maritime Operators and fleet services.

Significant new features include a modular high-resolution display, transmitter/receiver bandwidth encompasses all USA/Int'l channels and limited private channel access (FCC license required), supports automated Public Coast Station calling operations, dedicated DSC receiver/controller (Channel 70), plus software expandable user/operator interfaces and control features. These radios can be programmed to support Fleet Management operations like automated position broadcasting and integration to external PC applications for asset tracking and messaging. They support Automated Ship to Shore and special options are available for authorized MARITEL USA users.

Critical functions can be programmed in advance as "set and forget" radio operations. With all the new features, 157S models still remain easy to operate and to program. The SEA157S product series is anticipated for production by January 2010.

Other new 157S radio features also include:

- Channel 70 and DSC on Working Channel DSC
- Distress Call menus
- Data Modem option
- Automatic position reporting
- Selective ID and Group Calling
- Automated DSC Coast Station calling

- Dual Watch or Priority Scan
- Voice Scrambler
- Data Encryption Option
- Dual I/O ports for GPS/Plotter/PC
- DSC calling directories and menus
- Call Waiting Log

...designed for Commercial Fleets and off shore Vessels

Preliminary Specifications for 157SD [pending FCC type certification]

GENERAL:

Frequency Range:
155 to 163.6 MHz

Number of Channels:

All US, Canadian, and International Channels, 10 NOAA weather and authorized expansion channels

Input Voltage:

12 VDC +30% - 10% (13.8V nominal)
Negative ground (U.S. version)
Isolated chassis (C.E.P.T. version)

Current Drain:

Standby 0.5A
Receive 0.6A
Transmit 6.0A (25W) 1.5A (1W)

FCC ID:

BZ6SEA157

Warranty:

Two Year - Limited

Navigation Interface:

RS-232 Serial I/O and current Bi-Directional NMEA 0183

Clock:

Date and time of day, battery backed

DSC OPERATION:

Calling Formats:

All formats per U.S.FCC, ITU-R & IMO for Class D GMDSS. EXTENDED DSC, Specified Options

ITU Recommendations:

ITU R. 493 and 541

IMO Resolutions:

A.694 (17) and A.803(19)

Memory:

Non-volatile memory for unit DSC ID, Non-volatile memory for Emergency Calls, frequently called DSC numbers, Call Groups and Coast Stations with associated ID.

RECEIVER:

Frequency Range:
155 to 163.6 MHz

Sensitivity:

Less than .3uV for 12dB SINAD
Less than .4uV for 20dB quieting

Selectivity:

At least 80dB at 25 KHz
85dB at 50 KHz or greater

IM Ratio:

At least 80dB

Spurious and Image Rejection:

At least 80dB

Audio Output:

4W, less than 10% distortion into 4 Ohms

TRANSMITTER:

Frequency Range:
155 to 162.7 MHz

Frequency Stability:
5ppm, -30 to +60°C

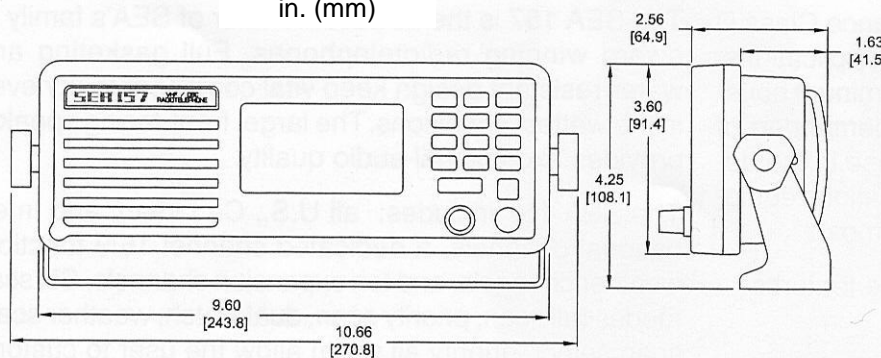
Power Output:
25W. 1W into 50 Ohms

Audio Response:
6dB per octave pre-emphasis
300 to 3000 Hz

Audio Distortion:
Less than 10%

Spurious and Harmonic Radiation:
At least 60dB below rated carrier

Dimensions
in. (mm)



SEA 157
3 lbs (1.4 kg)

SEA COM CORPORATION

7030 - 220th S.W., Mountlake Terrace, Washington 98043, 425.771.2182 Fax: 425.771.2650 www.seacomcorp.com