

SEA 157SD

Class D VHF/FM DSC Marine Radio



The new SEA 157S VHF/FM DSC radios are compliant to required standards for DSC Class D marine radios. These transceivers are built on the widely accepted and proven model 157 platform and DSP technology. They feature several new and advanced communications capabilities and features that enhance operator safety and efficiency for vessel operators and crews. The 157S also supports other features and options designed to meet technical performance and advanced requirements of today's professional Maritime Operators and Fleet Services.

Significant new features include a high-resolution display, transmitter/receiver bandwidth encompasses all USA/Int'l channels and limited private channel access (FCC license required), Public Coast Station calling, dedicated DSC receiver/controller (Channel 70), plus software expandable user/operator interfaces and control features. These radios can be programmed with options to support Fleet Management operations like automated position broadcasting and integration to external PC applications for asset location, data and messaging. The SEA 157S also supports special options for Professional Vessel Operators and authorized MARITEL USA users.

Critical functions can be programmed in advance as "set and forget" radio operations. With all the new features, SEA 157S models still remain easy to operate and to program. The 157S product series are now in production and are scheduled to start deliveries.

New SEA 157S radio features and options also include: (* certain features require an external PC App)

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|--|-----------------------------|
| Channel 70 DSC | Dual Watch or Priority Scan |
| DSC on Working channels | Missed Call Log |
| DSC ID, Group ID & Distress Call menus | VDR output * |
| Selective ID and Group Calling | Scrambler |
| Extensive Calling directories | Dual I/O ports for PC & GPS |
| Professional Operator Options * | Text Message & Data * |

...designed for **Commercial Fleets and off shore Vessels**

Specifications for 157SD

GENERAL

Frequency Range:

156 to 162.5 MHz

Number of Channels:

All US, Canadian, and International Marine channels, 10 NOAA weather, authorized expansion channels and certain Part 90 Land Mobile channels

Input Voltage:

12 VDC +30% - 10% (13.8V nominal)
Negative ground

Current Drain:

Standby 0.5A
Receive 0.9 A
Transmit 6.0A (25W) 1.5A (1W)

FCC ID:

YIBSEA157S
(FCC Part 80 & 90)

Warranty:

Two Year - Limited

Navigation Interface:

RS-232 Serial I/O and
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 DSC ID, Emergency Calls, frequently called DSC numbers, Call Groups, Missed Calls and Coast Stations with associated ID.

RECEIVER

Frequency Range:

156 to 162.5 MHz
@ 25 kHz & 12.5 kHz

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 across 4 Ohms

TRANSMITTER

Frequency Range:

156 to 162.5 MHz
@ 25 kHz and 12.5 kHz

Frequency Stability:

Less than 2.5ppm
@ -30 to +60°C

Power Output:

25W. 1W into 50 Ohms

Audio Response:

6dB per octave pre-emphasis
300 to 3000 Hz

Audio Distortion:

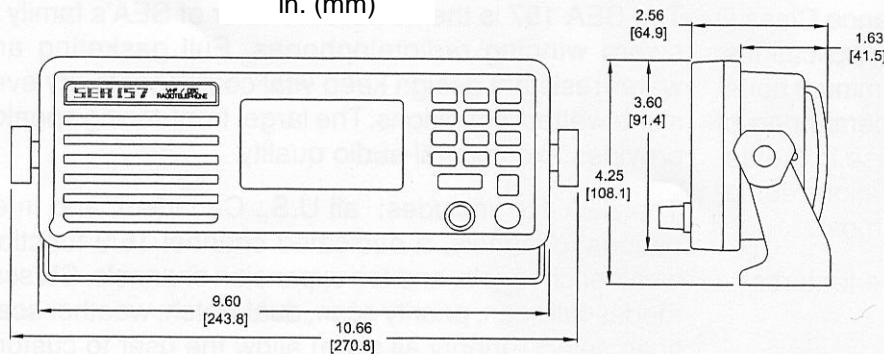
Less than 10%

Spurious and Harmonic Radiation:

At least 60dB below rated carrier

Dimensions

in. (mm)



SEA 157
3 lbs (1.4 kg)

SEA COM CORPORATION

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