



# SEA 7157

## VHF/FM DSC Radiotelephone



- **Marine VHF/FM and DSC Radiotelephone**
- **GMDSS Compliant Class A**
- **24 VDC or 12 VDC versions**
- **Distress key with mandatory protective cover**
- **NMEA 0183 interface for automatic position sending from GPS or Loran**
- **Alpha numeric keypad for ease of operation**
- **Large graphic display that is sunlight viewable**
- **Full 25 Watts power output with 1 Watt function**

The SEA 7157 is a new Class A DSC VHF/FM marine radiotelephone that represents the modern generation of marine communications products. It is a superb radiotelephone within SEA line of high quality VHF and HF/MF SSB marine radio products. The 7157 also has integrated capability for Digital Selective Calling that is ITU and IMO Class A compliant for GMDSS

SEA is one of the leading manufacturers of GMDSS equipment worldwide, and the SEA 7157 is a next generation product within the GMDSS product line. As a result of being a leading manufacturer of GMDSS products and systems, we are among the first to offer a VHF radiotelephone supporting future Ship to Shore telephone services.

The 7157 supports direct dial for ship to shore telephone calls through automated marine coastal stations, an International marine radiotelephone service.

By using DSC, automated distress calls can be activated and transmitted directly to Coast Guard and other GMDSS equipped vessels within range. Your distress call will be automatically received and responded to via continual automated messaging and pinpoints your GPS position and urgency by sending your position and type of distress.

Users of SEA products have always relied upon and received reliable and high quality world-class radiotelephones. The SEA 7157 continues this 24-year tradition. The design of this radiotelephone incorporates modern technology in RF architecture, LCD displays, and other radio components.

SEA has a worldwide service network to support all of its GMDSS products. This ensures backup support almost anywhere in the world your ship is operating.

# Specifications

## GENERAL

### Frequency Range:

155 to 163.6 MHz

### Number of Channels:

All US, Canada, International and 10 weather channels.

### Input Voltage:

24 Vdc +30% -10%

12 Vdc ± 15%

### Current Drain:

Standby: 24V .25A, 12V .5A

Receive: 24V .3A, 12V .6A

Transmit: 25W 24V 3A,

12V 6A

Transmit: 1W 24V .75A,

12V 1.5A

### Compliance:

FCC Part 80, 15. GMDSS

(Para 80.1101). EIA RS

204C, RS 152B, IMO

A.694(17) and A.609(15),

ETS 300 338, Y2K

### FCC ID:

BZ6SEA7157

### Safe Compass Distance:

1 meter

## TRANSMITTER

### Frequency Range:

155 to 159 MHz

### Frequency Stability:

±5ppm, -30 to +60°C

(FCC, EIA)

### Power Output:

25W, 1W into 50Ω

### Audio Response:

6dB per octave pre-emphasis 300 – 3000 Hz

### Audio Distortion:

Less than 10% (EIA)

### Spurious & Harmonic

#### Radiation:

At least 60dB below rated carrier

### Spurious Emissions

#### (Radiated):

-60dB or better

### Spurious Emission

#### (Conducted):

-60dB or better

## PRIMARY RECEIVER

### Frequency Range:

155 to 163.6 MHz

### Sensitivity:

Less than .3uV for 12dB

SINAD

### Selectivity:

-80dB at 25 KHz

-85dB at ≥ 50 KHz (EIA)

### IM Ratio:

At least 80dB

### Spurious and Image

#### Rejection:

At least 80dB

### Audio Output:

4W, less than 10%

distortion into 4Ω

### Channel 70 Watch

#### Receiver:

Conforms to ETS 300 338

and IEC 1097-8

## DCS OPERATION

### Navigation Interface:

NMEA 0183 Version 2.0

compatible with Loran,

GPS, and Transit

equipment. Reads RMA,

RMC, GLL, and GGA

sentence formats.

### Clock:

Date and time of day, battery backed

### Calling Formats:

All formats per ITU-R

M493-8 Class A

### ITU Recommendations:

498-8 and 541-6

### IMO Resolutions:

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

### Memory:

Nonvolatile memory for

unit's DCS individual and

group ID's. Nonvolatile

memory for 49 frequently

called DSC ID's and 49

telephone numbers with

associated alphabetic

names. Nonvolatile

memory log for 40 most

recent distress and

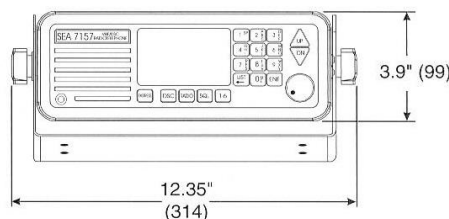
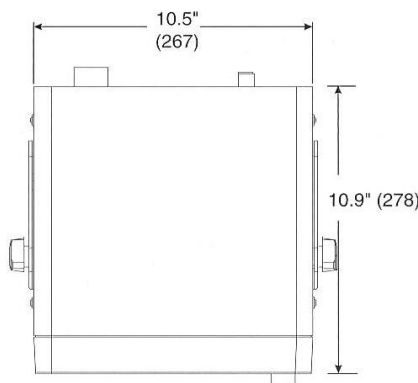
urgency calls and 40 other

calls.

## Dimensions

In. (mm)

7.75 lbs (3.5 kgs)



## SEA COM CORPORATION

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