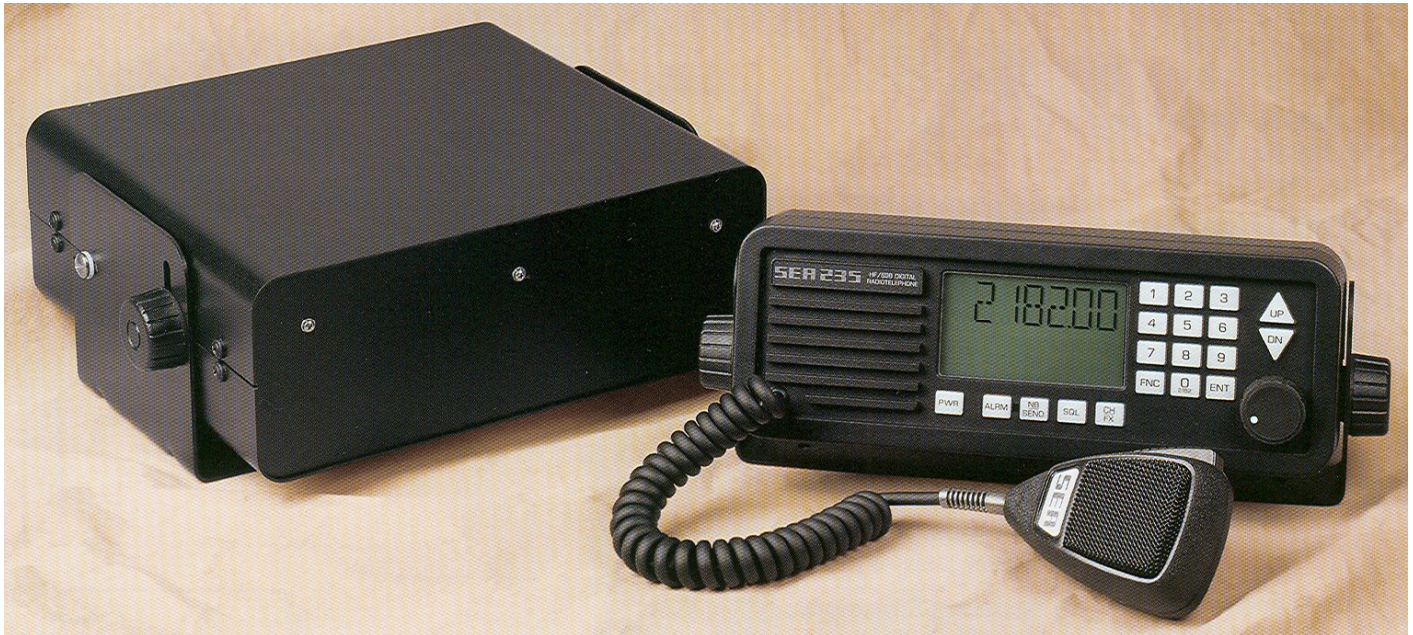


SEA 235R

150 Watt HF/SSB Digital Radiotelephone



The SEA 235 is one of the first MF/HF SSB radiotelephones with Digital Signal Processing (DSP) technology as its fundamental architecture.

- DSP end-user benefits include:
 - More talk power than radiotelephones with equal power ratings
 - Virtually error free transition for voice and data
 - Clear audio with enhanced clarity and reception
 - Receives future enhancements and improvements through software upgrades
 - Flexible application filters configured through software
 - Increased reliability over analog filters
 - Email and Data capability
- Amateur bands with HAM/MARS operations
- Frequently used channels are pre-programmed from factory using alpha-numeric names for easy recall
- True AM receiver for clear undistorted reception
- Large easy to read LCD & backlit silicone keypad
- Optional 2350 Remote Control Heads (up to 4)
- Interfaces with SEA 1612C automatic antenna tuner
- Interfaces to PACTOR II and ALE Controllers

The SEA 235 is an MF/HF SSB radiotelephone designed and built on a fully digital platform. This revolutionary

radio is unequalled in performance, price, reliability, and flexibility for use in numerous special applications. The SEA 235R radiotelephone is an important addition to the SEA 235 product group. The SEA 235R offers all of the standard features of the SEA 235 in a versatile system configuration consisting of the SEA 2350 Remote Controller (up to four), a 2351 Remote Transceiver Unit and 1612C (or 1631) automatic antenna tuner.

This system allows for greater ease of installation in areas where space is at a premium and its intercom allows communications between controller locations. The SEABUSS interconnection supports multiple devices, balanced/unbalanced audio lines, and simplifies Data modem interfaces.

SEA MF/HF SSB radiotelephones have won numerous awards for excellence in SSB radiotelephones.

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

To learn more about this model or other SEA products, contact your local Marine Electronics Dealer or call SEA COM CORP at (425) 771-2182, or email sales@seacomcorp.com.

SEA 235R Specifications:

GENERAL

Compliance:
FCC Parts 80, 87, 90

FCC ID:
BZ6SEA235

Frequency Range:
Tx: 1.6 to 30 MHz
Rx: .49 to 30 MHz

Frequency Resolution:
Tx: 100 Hz
Rx: 10 Hz

Frequency Stability:
± 10 Hz (-30°C +60°C)

Operating Modes:
J3E (USB) H3E, J2B (AFSK)
R3E, AIA (CW)

Supply Voltages:
13.6 Vdc ± 15%
(11.6 – 15.6 V)

Current Drain:
Tx 17 Amps (two-tone)
Tx 11 Amps (voice)
Rx 1 Amp (stand-by)
Rx 1.5 Amps (full-audio)

Operating Temperature Range:
-30°C to 60°C

Antenna Impedance:
50 ohms

Channels:
1176 Total
200 Programmable
242 ITU SSB Duplex
72 ITU SSB Simplex
662 ITU FSK Duplex

Scan Channels:
200

Display:
LCD 3.2" x 1.85" (W x H)
(81.2mm x 46.9mm)

Metering:
S-Meter

RECEIVER

Frequency Range:
490 KHz to 30 MHz

Frequency Resolution:
10 Hz

Intermediate Frequencies:
45 MHz, 455 KHz

Sensitivity:
≤ 1.0 uV for 12 dB SINAD

Adjacent Channel Selectivity:
>60db at -1 KHz

Blocking:
At max. sensitivity: Better than 70 dB at +60dB/uV:
Better than 100 dB

Cross Modulation:
Better than 80 dB

Spurious Response:
Better than 70 dB

Spurious Emissions:
Less than 1 nW

Intermodulation:
-80 dB

AGC, JE3:
Fast attack, slow release,
10 dB audio level change
from 10 uV to 100 mV input

Clarifier:
+/-200 Hz in 10 Hz steps

Squelch:
Voice controlled, opens at
SINAD >5dB

Audio Output:
4 Watt into 4 ohms at less
than 10% distortion

Computer I/O:
RS-232

Warranty:
Two Year - Limited

TRANSMITTER

Output Power:
150 Watt into 50 ohms

Power Reduction:
-3dB/-6dB from PEP

Intermodulation:
-34 dB below PEP

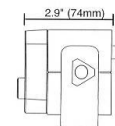
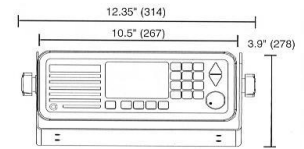
Spurious Emissions:
-65 dB below PEP

Carrier Suppression:
Better than 50 dB
below PEP

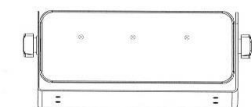
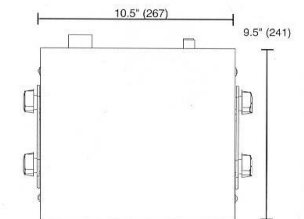
Undesired Sideband Suppression:
Better than 50 dB
below PEP

AF Bandwidth:
400 – 2500 Hz at -6 dB

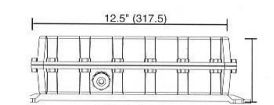
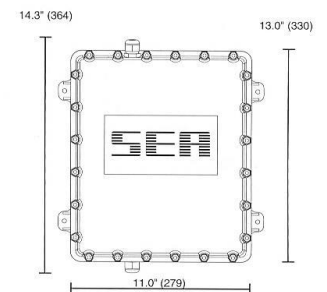
Dimensions in. (mm)



**SEA 2350
Controller**
2.8 lbs (1.27 kg.)



**SEA 2351
Remote Transceiver**
7.0 lbs (3.18 kg.)



**SEA 1635
Antenna Tuner**
4.5 lbs (2 kg.)

SEA COM CORPORATION

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