

150 Watts, High-performance

## MARINE SSB RADIOTELEPHONE

Model **FS-1503**

- Non-GMDSS, FCC Type-approved SSB
- All ITU channels programmed
- User-programmable RX channels for quick access
- Telex capability with external NBDP terminal
- Frequency selection by rotary control or direct key entry
- Entry of channel name in alphabet for quick reference of desired channel
- Automatic antenna coupler
- Large, easy-to-see LCD
- Other standard features: squelch on/off, two-tone alarm generator, receiver impulse noise blanker and channel/frequency scanning
- Optional Remote Station RB-500 available



The FURUNO's FS-1503 is a new high-performance marine SSB Radiotelephone with 150 watts of output power. It has been designed for professional fishermen and recreational boaters. It provides quality communications by using advanced radiocommunication technology.

The FS-1503 incorporates all ITU channels and 199 user-defined RX frequencies. International calling and distress frequency of 2182 kHz is instantly selected by a single touch of the 2182 kHz key. The desired frequency can be

quickly and simply accessed with touchkey entry or the rotary channel selection. Telex capability is also available by adding the proven FURUNO NBDP Terminal. Other features include two-tone alarm generator, impulse noise blanker, squelch and automatic antenna coupler.

For a remote operation and intercom, optional Remote Station RB-500 is available. It gives operations of intercom, Tx Hi/Low control and 2182 kHz distress/calling.

# SPECIFICATIONS OF FS-1503

## GENERAL

- 1. Frequency Range**  
TX: 1.6 to 27.5 MHz  
RX: 0.1 to 29.9 MHz
- 2. Communication System**  
Simplex or Semi-duplex
- 3. Class of Emission**  
J3E, H3E, J3C, J2B  
A3E/F3C (receive only)
- 4. Number of Channels**  
All SSB, Telex, ITU channels, 199 user channels,  
2182 kHz

## TRANSMITTER

- 1. Output Power**  
J3E/H3E: 150 W pep (75 W pep in 23.0 to 27.5 MHz)  
J2B: 100 W (50 W in 23.0 to 27.5 MHz)  
Reduction to 60 W pep
- 2. Two-tone Alarm Generator**  
Built in as standard. Complies with SOLAS.

## RECEIVER

- 1. Receiving System**  
Double-conversion superheterodyne  
IF: 54.455 MHz and 455 kHz
- 2. Sensitivity**  
Input level at 50 ohms to produce SINAD 20 dB  
J3E: +3 dB $\mu$ V, H3E: +17 dB $\mu$ V
- 3. Selectivity**  
J3E: 350 to 2700 Hz, H3E:  $\pm$ 3 kHz, J2B:  $\pm$ 1.2 kHz  
( $\pm$ 200 Hz w/optional filter)
- 4. Audio Output**  
3 W at 4 ohms loudspeaker

## ANTENNA COUPLER AT-1503

- 1. Input Impedance (TX)** 50 ohms
- 2. Antenna** 6-15 m wire or whip
- 3. Tuning Speed** 2 to 15 s  
(Less than 0.5 s once tuned)

## ENVIRONMENT (Transceiver Unit)

Temperature: -20°C to +55°C (Transceiver Unit)  
-30°C to +70°C (Antenna Coupler)

## POWER SUPPLY

12 VDC, +30%,-10%, 30 A max (transmit), 1.5 A (receive)

## EQUIPMENT LIST

### Standard

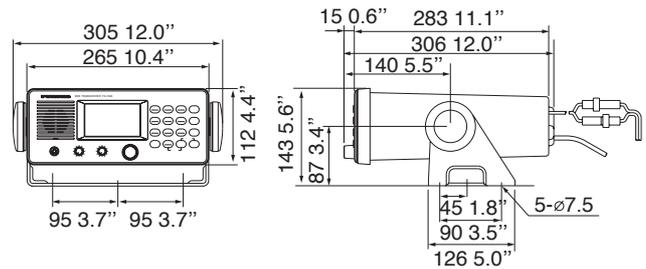
1. Transceiver Unit with Hand Microphone 1 unit
2. Antenna Coupler AT-1503 1 unit  
with 10 m Coax Cable and 10 m Control Cable
3. Installation Materials and Spare Parts

### Option

1. Rectifier PR-270 for 115/230 VAC mains
2. DC-DC Converter PC-220 for 24/32 VDC
3. External Loudspeaker
4. Handset HS-6000FZ5
5. Noise Canceling Microphone M112D4509910
6. Remote Station RB-500
7. Distribution Box DB-500/120
8. BK Relay Output Kit OP05-41
9. Telex Connection Kit or Remote Station Connection Kit

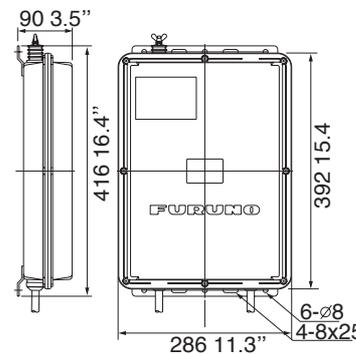
## TRANSCEIVER UNIT

5.7 kg, 12.6 lb



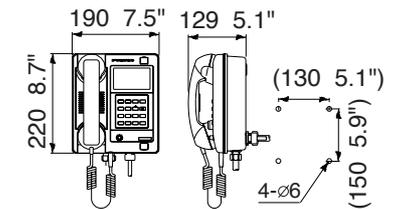
## ANTENNA COUPLER AT-1503

2.6 kg, 5.7 lb



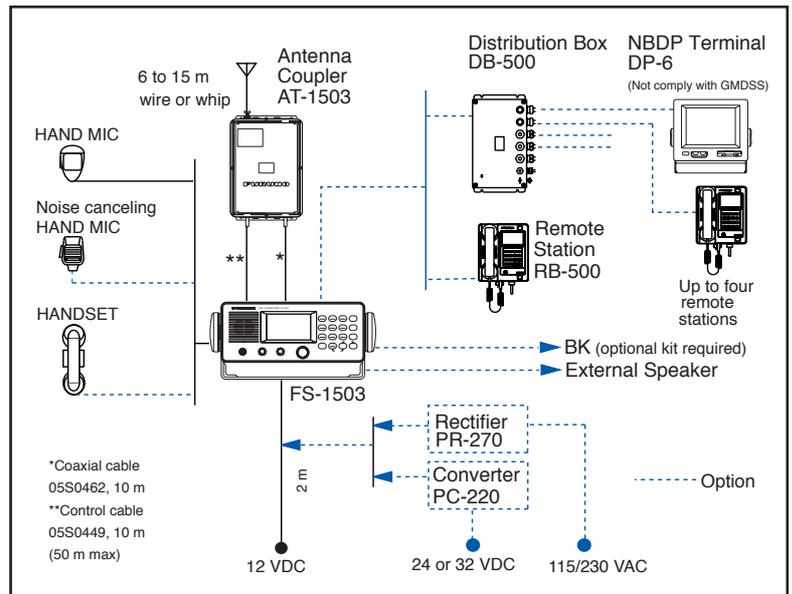
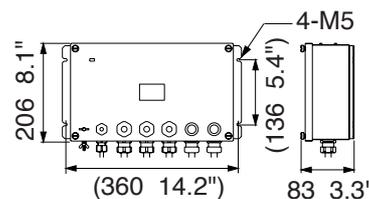
## REMOTE STATION RB-500

2.5 kg, 5.5 lb



## DISTRIBUTION BOX DB-500

3 kg, 6.6 lb



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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