



Model RT-2509



Featuring:

- Class-D DSC VHF Marine transceiver (TX frequency: 156.000-162.525kHz RX Frequency 156.000 - 163.425kHz)
- Dual receiver, independent DSC dedicated receiver built-in
- Approved Radio Equipment Directive (RED) 2014/53/EU for Class-D DSC VHF transceiver
- Full dot matrix 2.4" back-lit LCD display
- Easy operation with rotary encoder knob for volume, squelch or menu settings
- 4 Soft-keys (F1 ~ F4) for quick menu operation and setting
- Built-in GNSS receiver module, supported GPS, GLONASS SBAS satellite
- Dual/Tri-watch Function with scanning selected channels
- IPX7 Submergible Waterproof (1 meter depth in water during 30 minutes)
- External NMEA0183 2.0 RMC, GGA,GNSS, GLL input accepts for L/L position transmission when internal GPS is not operational (back-up purpose)
- 10 Weather Channels are available
- Status indication for TX, BUSY, TAG, CALL, HI/LOW(power), Duplex channel, WX, GPS, DSC, U/I/C mode, LAT/LON position data, DSC message etc.

MODEL RT-2509

Specifications:

General

Frequency Range	: TX 156.000-162.525MHz RX 156.000-163.425MHz
Mode	: FM (16K0G3E) / DSC(16K0G2B)
Channels	: International /USA/ Canadian /Weather channels
Controls	: Power SW/Volume/Squelch Knob, CH16/ Call Channel key (16/C) MENU key, CLR key, F1~F4 Soft-Function key
Channel Display	: Dot Matrix Back-lit LCD
Status Indicators	: TX, BUSY, TAG, CALL, LOW (Power), Duplex channel, WX (ALT), GPS, DSC (Received) (Weather channel), U (USA channel), I (International channel), C (Canadian channel)
Functions	: Dual-watch and Tri-watch/ DSC / Weather alert / Auto scan

Transmitter

Power Output	: 25W / 1W
Modulation deviation	: ± 5 kHz
Spurious Emissions	: less than or equal to -70dB (High), less than or equal to -56dB (Low)
Adjacent Channel Power	: greater than or equal to 70dB
Inter-modulation Rejection	: greater than or equal to 70dB
Audio Harmonic Distortion	: less than or equal to 10%

Receiver

Frequency Stability	: ± 5 PPM
Receive Sensitivity	: less than or equal to 0.22uV
Squelch Sensitivity	: less than or equal to 0.22uV
Spurious Response Rejection	: greater than or equal to 70dB
Inter-modulation Rejection	: greater than or equal to 70dB
Audio Output Power	: greater than or equal to 4.5W (10% distortion)

GNSS Receiver

Receiving Satellite	: GPS/GLONASS/SBAS(WAAS/MSAS/GAGAN/EGNOS)
Receiving Frequency	: 1559 – 1610 MHz (GPS + SBAS + GLONASS)
Accuracy	: less than or equal to 10m
Position Fix time	: Cold start ≤ 60 sec. Warm start ≤ 20 sec.
External NMEA0183 Input	: RMC, GGA, GNS, GLL sentence

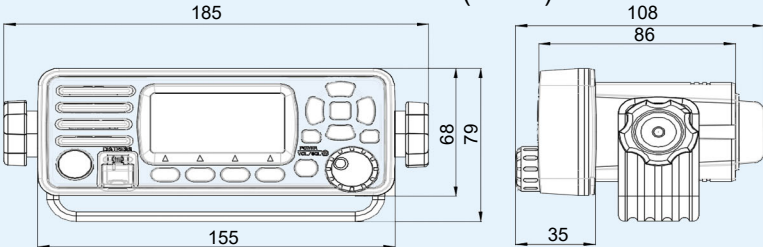
Antenna

GNSS External antenna	: 3.3V DC output with BNC connector (antenna option)
VHF Antenna Impedance	: 50 Ω for VHF antenna (VHF antenna and cable are option)

Others

External Speaker	: 5W / 4 Ω (option)
Water resistance	: IPX7
Operating Temperature	: -20 $^{\circ}$ C ~ +60 $^{\circ}$ C
Dimensions	: 155mm (W) \times 68mm (H) \times 86mm (D)
Weight	: 721g with handy microphone
Power Supply voltage	: DC13.8V \pm 15% (11.8 ~ 15.8 VDC)
Current Consumption	: Max 5.5A at high power transmission

Note: Specifications are subject to change without notice or obligation.

Dimensions (in mm)	Standard Equipment														
	<table> <tr> <td>RT-2509 Main Unit with MIC</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Operation Manual</td> <td style="text-align: right;">1</td> </tr> <tr> <td>DC Power cable</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Mounting bracket</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Mounting knob</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Mounting screw package</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Spare Fuse</td> <td style="text-align: right;">1</td> </tr> </table>	RT-2509 Main Unit with MIC	1	Operation Manual	1	DC Power cable	1	Mounting bracket	1	Mounting knob	2	Mounting screw package	1	Spare Fuse	1
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