

## 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.



## **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 : 50Ω for VHF antenna (VHF antenna and cable are option)

**Others** 

External Speaker :  $5W / 4\Omega$  (option)

Water resistance : IPX7

Operating Temperature : -20°C~ +60°C

Dimensions : 155mm (W) × 68mm (H) × 86mm (D)
Weight : 721g with handy microphone
Power Supply voltage : DC13.8V ±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.

