



MRC-310/E Marine Radio Communication System



DESCRIPTION

MRC-310/E marine radio communication system is a VHF marine radio with the DSC (Digital Selective Call) capability to send emergency messages designed for operating in military/non-military ships and coast stations. This radio is subjected to the IMO and GMDSS regulations and can be installed stationary and rack mounted (inside communication consoles).



General specifications	
Frequency range	VHF: 136~174 MHz
Frequency channel spacing	25KHz
Number of preset channels	99 channels
Modulation type	G2B for DSC, G3EJN for Tel
Communication type	Simplex
Frequency stability	±10PPM
Supply	11-15 VDC
Transmitter specifications	
RF output power	1W ±1.5dB, 25W ±1dB
Harmonic power	-50dBc
Adjacent channel power	-50dBc
Spurious signal	-50dBc
FM modulation factor	±5KHz
THD distortion	less than 10%
Receiver specifications	
FM sensitivity	-110dBm (for 12dB SINAD)
THD distortion	less than 10%
Spurious signal rejection	more than 50dBc
Inter-modulation attenuation	more than 50dBc
Adjacent channel	50dB
Audio output power	1W (Int., Ext)
Physical & environmental specifications	
Dimension (H×W×D)	250×170×300 mm
Weight	5Kg
Operating temperature	-20°C ~ +65°C
Storage temperature	-40°C ~ +85°C
Environmental standard	MIL-STD-810F
DSC specifications	
DSC operation	according to the Rec. ITU-R M.541
DSC protocol	according to the Rec. ITU-R M.493
Modulation	1700Hz ±400Hz, 1200 Baud
Navigation interface	IEC 61162-1 (NMEA 0183)