



Compact base or mobile radio for Military band use

MIL-STD 810

Meets

The Nabishi MR-3088 is an ANALOGUE & DIGITAL mobile radio developed for the modern tactical environments, the radios are DIGITAL or ANALOGUE switchable. It provides secure and reliable voice and data communication over the entire military band of 30-88MHz with 12.5 or 25KHz step.

Some of the MR-3088 powerful features include: the capability to transmit both data and voice selectable tone signalling, versatile scanning options, dynamic antenna matching circuit. The radio is encrypted with a full 256-bit AES Algorithm for operation in Digital & Analogue mode for secure voice communications. The Mobile MR-3088 is complimented by and fully compatible with our NHT-78A military hand held radio.

MR-3088 conforms to rigid military standards: Mil-Std-810E tests for reliability under harsh environments and Mil-Std-461C tests for EMI/EMC. It is also fully compatible with old generation radios such as AN/PRC-77, AN/VRC-12, etc.

Main Features

- Full military range from 30 to 88 MHz
- Up to 100 programmable channels
- CTCSS and DCS tone signaling
- Output power: 10W/25W (switchable)
- AES 256-bit voice scrambler
- Operating Temperature: -30°C ~+65°C
- Dimension: 190(w) x 50 (L) x 150(H) mm
- Can be connected to PC or GPS receiver via data connector for transmitting data.
- PC or GPS connectivity
- Whisper function
- Backlit LCD
- Weight (including battery): 6kg
- Mil-STD-810E for harsh environment
- Digital or Analogue mode (switchable)

Technical Specifications

Technical Specifications	
Frequency coverage	30.000-88.000MHz (Full range)
Channel spacing	25KHz / 12.5KHz (Option)
Number of channels	2321 74642 (12.5KHz)
Number of preset channels	100
Power supply requirements	12 ~ 17 VDC
Current drain (approx)	
Standby	Less than 150mA (Power save model)
RX (middle volume)	Less than 3 amp (Normal mode)
TX (More than 1 Watt)	Less than 10 amp
Built-in tone signaling	38 CTCSS, 83 DCS or 150Hz tone
Frequency error	±3ppm
PC or GPS Interface	RS232C/E for data transmission.
Antenna port	Built-in antenna matching network.
Antenna protection	Low VSWR, High radiation efficiency
Antenna	Internal and external Switching
Antenna Matching	32 levels (Auto-switching up to 16 levels)
Protection against	Over heat/current of PA

Transmitter	
RF output power	10 - 25 Watt, with APC, Switchable
Modulation system	Variable reactance frequency modulation
Max. permissible deviation	±5KHz / ±2.5KHz (12.5KHz)
Spurious emissions	63 dBc
Harmonic Radiations	Better than 40 dBc (2nd) Better than 55 dBc (4th and above)
Adjacent channel power	65dBc
Audio distortion	5% typical

Receiver	
Receive system	Double-conversion superheterodyne system
Intermediated frequencies	1st 130.05MHz, 2nd 450KHz
Sensitivity	(I2dB SINAD) 0.4uV (typical)
Squelch sensitivity	0.4uV (at threshold)
IF Rejection	Better than 65dB
Image Rejection	Better than 70dB
Adjacent channel selectivity	60dB (typical)
Intermodulation	60dB (typical)
Audio output power	250mW typical at 5% distortion with an 16Ω load

Mechanical and Environmental	
Dimensions	Dimension: 234(w) x 354.5(L) x 88(H) mm
Weight (including battery.)	1.7Kg
Usable temperature range	-30°C to +65°C
Environmental	per MIL-STD-810
Pressure,	High Temp, Low Temp, Low
Immersion, Humidity, Salt fog, Vibration & Drop	Immersion, Humidity, Salt fog, Vibration & Drop
Immersible to EMI/EMC	1 meter depth of water for 2 hours Meets MIL-STD-461C

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I	500.3	I
High Temp.	501.1	I	501.2	I, II	501.3	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Vibration	514.2	VIII	514.3	I	514.4	I
Immersion	—	—	—	—	512.3	I
Shock	—	—	516.3	IV	516.4	IV



Options and Accessories



Fist Microphone



Base Power supply



Vehicle Bracket



Handset



PC - GPS interface cable



Antenna



Nabishi UK Ltd

16c Upton Road, Tilehurst, Reading, Berkshire, RG30 4BJ
England, United Kingdom

Tele:+44 (0)118 943 3311 Fax: +44 (0)118 943 3366

Email: sales@nabishi.com

www.nabishi.com