



BTECH GMRS-20V2

20W MOBILE GMRS TWO-WAY RADIO

GMRS MINI MOBILE TWO WAY RADIO

The GMRS-20V2 uses our ground breaking second generation GMRS firmware features found in our GMRS-V2 and puts them in a 20W submersible mobile radio. The GMRS-20V2 has 200 completely programmable channels that you can arrange, modify, and use as: GMRS, NOAA, or Scanner channels. You can quickly add or remove multiple GMRS channels to any location, using our quick and easy on-board menus.

No other GMRS mobile radio is as versatile and easy to use as the GMRS-20V2. The GMRS-20V2 has a maximum power output of 20W. The GMRS-20V2 uses a standard UHF antenna connector (SO-239) for use with any GMRS antenna or mount that connects with PL-259. Quickly mount with our vehicle antenna such as the Nagoya UT-72G for GMRS use.

FEATURES AND FUNCTIONS

- 200 Fully Customizable Channels
- Built-in FM/VHF/UHF/NOAA Receivers
- Tri Watch
- VOX Hands-free
- K1 Accessory
- IP67 Waterproof
- NOAA Weather Channels

Extend your range with a larger GMRS tuned antenna such as the NMO-200C paired with a variety of NMO mounts.



TECHNICAL SPECIFICATIONS

GENERAL

Frequency Range	65-108 MHz(Rx) 136-174 MHz (V) 400-520 MHz (U) GMRS Channels (Rx/Tx) 001-007, 015-030 GMRS Channels (Rx Only) 008-014
Memory Channels	200 Channels
Frequency Step	25K/5.0K/6.25K/10.0K/12.5K/25.0K
Squelch Setup	CARRIER/CTS/DCS/5Tone/2TONE/DTMF
Antenna Impedance	50 Ohm
Operating Voltage	13.8V DC $\pm 15\%$ / 7A Peak GMRS-20V2
Frequency Stability	$\pm 2.5\text{ppm}$
Operating Temp.	-20°C to +60°C / -5°F to +140°F

DIMENSIONS

Dimensions	4(W) x 1.5(H) x 4(D) in
Weight	14.9 oz

TRANSMITTER

	WIDE BAND	NARROW BAND
Power Output	20W/5W - GMRS-20V2	
Modulation	16K Φ F3E	11K Φ F3E
Channel Power	$\geq 70\text{dB}$	$\geq 60\text{dB}$
Signal to Noise Ratio	$\geq 40\text{dB}$	$\geq 36\text{dB}$
Parasitic Harmonic	$\geq 60\text{dB}$	$\geq 60\text{dB}$
Audio Response	+1 to -3dB(.3-3KHz)	+1 to -3dB(.3-2.55KHz)
Audio Distortion	$\leq 5\%$	

RECEIVER

	WIDE BAND	NARROW BAND
Sensitivity	$\leq 0.25\mu\text{V}$	$\leq 0.35\mu\text{V}$
Channel Choice	$\geq 70\text{dB}$	$\geq 60\text{dB}$
Intermodulation	$\leq 65\text{dB}$	$\leq 60\text{dB}$
Spurious Rejection	$\geq 70\text{dB}$	$\geq 70\text{dB}$
Audio Response	+1 to -3dB(.3-3KHz)	+1 to -3dB(.3-2.55KHz)
Hum & Noise	$\geq 45\text{dB}$	$\geq 40\text{dB}$
Audio Distortion	$\leq 5\%$	
Audio Power Output	$\geq 2\text{W}@10\%$	

COMPATIBLE ACCESSORIES



PC04 Programming Cable



Nagoya UT-72G



Mobile and Amp DC Cigarette Cable



Mobile and Amp DC Power Cable



Mobile Speaker Mic



Nagoya GPK-01



RPS-30M AC-DC Power Converter



RPS-30PRO AC-DC Power Converter



Nagoya NMO-200C



Nagoya RB-100N



Nagoya RB-50



RB-700N