



BTECH UV-50X2

SECOND GEN. MOBILE TWO-WAY RADIO

UV-50X2 (Second Generation) 50W Mobile Two Way Radio

The Second Generation UV-50X2 is very much the same radio, our users have come to enjoy, with several new functionality improvements. The UV-50X2 has seen several performance improvements and tweaks in its second generation release.

The UV-50X2 has new menus and operations that allow audio I/O from its RJ45 microphone port. This allows the UV-50X2 to be installed for custom applications, where users want more control on where the speaker and mic audio is routed to.

Additionally, the UV-50X2 includes VOX support. VOX allows for handsfree use with your favorite audio accessories or the included handheld microphone.



FEATURES AND FUNCTIONS

- 200 Fully Customizable Channels
- Built-in FM/VHF/UHF/NOAA Receivers
- Quad Watch
- VOX Hands-free
- RJ-45 and K1 Accessory Support
- Quick-add channels
- Customizable LCD Display Screen



TECHNICAL SPECIFICATIONS

GENERAL

Frequency Range	144-148 (Tx) 420-450 (Tx) 136-174, 400-520 (Rx)
Memory Channels	200 Channels
Frequency Step	2.5K/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 $\pm 15\%$ / 20A Peak
Frequency Stability	± 2.5 ppm
Operating Temp.	-20°C to +60°C / -5°F to +140°F

DIMENSIONS

Dimensions	5.7 (W) x 1.85(H) x 7.5 (D) in
Weight	2.2 lb

TRANSMITTER

	WIDE BAND	NARROW BAND
Power Output	50W/10W	
Modulation	16K Φ F3E	11K Φ F3E
Channel Power	≥ 70 dB	≥ 60 dB
Signal to Noise Ratio	≥ 40 dB	≥ 36 dB
Parasitic Harmonic	≥ 60 dB	≥ 60 dB
Audio Response	+1 to -3dB(.3-3KHz)	+1 to -3dB(.3-2.55KHz)
Audio Distortion	$\leq 5\%$	

RECEIVER

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

COMPATIBLE ACCESSORIES



PC04 Programming Cable



Nagoya UT-72



Nagoya NMO-200C



Mobile and Amp DC Power Cable



Nagoya NMO-200A



Nagoya GPK-01



RPS-30M AC-DC Power Converter



RPS-30PRO AC-DC Power Converter



Nagoya RB-100N



Nagoya RB-50



Nagoya RB-700N



Nagoya NMO-72



RJ45 to K1 Splitter Cable