

## BDR-50U UHF REPEATER

### The BDR-50 Commercial DMR UHF Repeater

A 50 Watt high-performance DMR and analog UHF repeater. (Tier-2 DMR Standard) (400 - 470MHz)



#### Key Features:

- DMR Digital/Analog FM
- Range: 400-470MHz
- Control via Front Panel
- Easy Configuration

### SPECIFICATIONS:

General		Receiver Specifications	
Frequency Range	400-470MHZ	Digital Sensativity (BER5%)	≤-117dBm
Channel Spacing	25kHz/12.5kHz	Adjacent Channel Selectivity	≥65dB
Voltage Requirements	100~264VAC~50/60Hz	Intermediation Disturbance Rejection	≥70dB
Antenna Port Spurious Emission 9KHZ~1GHZ:	≤-36dBm, TX Mode    ≤-57dBm, standby Mode	Intermediation Disturbance Rejection	≥90dB
1GHZ~12.75GHZ:	≤-30dBm, TX Mode    ≤-47dBm, standby Mode	Audio Output Power	3.0W
Case Port Spurious Emission 9KHZ~1GHZ:	≤-36dBm, TX Mode    ≤-57dBm, standby Mode	Transmitter Specifications	
1GHZ~12.75GHZ:	≤-30dBm, TX Mode    ≤-47dBm, standby Mode	Frequency Stability	≤2.5ppm
Antenna Impedance	50Ω	Transmitting Power	50W
Speaker Impedance	40Ω	Adjacent Channel Power	±12.5kHz: ≤-60dB, ±25kHz: ≤-70dB
Operating Temperature Range	-10°C~+55°C	Transient Switchover Adjacent Channel Power	±12.5kHz: ≤-50dB, ±25kHz: ≤-60dB
Size (L*W*H)	482mm × 440mm × 89mm	Modulation	4FSK
Weight	≤15KG	4FSK Digital Modulation	Data 7K60FX0, Data plus voice 7K60FXW
Safety Specifications		Digital Speech Encoder	AMBE+2
Insulation Resistance	≥ 100MΩ (Testing Voltage DC500V) , Insulation Resistance in Hot flashes Environment ≥ 2MΩ	Transmitting Bit Error Rate	≤1.5%
Dielectric Strength	Withstanding Alternating Voltage 1000V (Leakage Current ≤5mA) , 1 min, NO Breakdown Flashover and Corona		

### FEATURES:

- DMR Digital/Analog FM
- Programmable Power: 5 - 50W via Front Panel
- Programmable Password via Front Panel
- Easy Configuration
- Programmable Volume control via Front Panel
- Diagnostic Indicators
- Two Digit Numeric Display
- Multi-Channel
- Easy Access AC Fuse Panel
- Dual Mode Operation
- Individual TX/RX and Power Amplifier Modules

### BENEFITS

- Easy Migration from Analog to Digital
- Mixed Mode Operation Functionality on Same Channel
- User-Programmable Front Panel Interface
- Capable of Base station Mode with Available Mic
- Reliable Coverage in Challenging Environments
- Available Internal Duplexer
- Front Panel Mic Connection
- Rack Mountable [2U]
- Great for Emergency Operations/Pop-up Repeaters

