Full Duplex UHF Repeater with Built-in Duplexer. 2W or 10W Transmitter.

DMR Digital Liberty Repeater

DMR Digital

RITRON

The DMR Digital Liberty Repeater is the ideal wireless solution to bolster coverage in: Schools • Hospitals • Nursing Homes • Shopping Malls • Manufacturing Plants • Warehouses Amusement Parks • Golf Courses • Retail Stores • Special Events

For any organization to be effective, you need reliable voice communication that extends to every corner of your operation, keeping your workforce connected. The Ritron Digital Repeaters offer the right features at the right price. And with over 40 years of experience to prove it, they're built to last. The Liberty repeater offers adjustable transmit power settings from 10W to 2W, allowing the repeater to

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be programmed for use on low power frequencies, or for larger facilities up to a full 10 Watts. The Liberty Repeater will boost overall radio system coverage for portables, mobiles, and radio callboxes while eliminating dead spots. A well-designed repeater radio system will include a properly selected repeater antenna, a low-loss cabling system and a well thought-out, tested, optimal installation location.







SPECIFICATIONS Model RLR-465DMR:

- Full Duplex UHF Repeater
- 2 or 10 Watts Adjustable Transmit Power
- Includes Built-in Duplexer and Power Supply

Power:

FCC ID: IC ID: Dimensions: Weight: **Emission Designator:** DMR

Operating Frequency: Frequency Separation: **RF** Channels: Channel Synthesizer Steps: 12.5 kHz Power consumption: Time-out-timer: **RF/Antenna Connector:** Aux RJ-45 Connector:

DC Power Connector: **USB** Connector: Antenna Impedance: LED Indicators:

> **Bi-Color Indicators:** Steady Green On: Steady Red On: Alternating Red/Green:

TRANSMITTER:

Power Output:

Frequency Stability: Modulation: Duty Cycle:

RECEIVER:

Receiver system:

IF system: Local Oscillator: Sensitivity: Selectivity: Spurious rejection: Image rejection: Intermod rejection: Frequency Stability:

10 Watts, Adustable down to 2 Watts using PC Programmer. AIERIT44-465 1084A-RIT44465 2.125"H x 8.0"W x 5.75"D 3.5 lbs 7K60FXE (DMR voice), 7K60FXD (DMR data), 7K60FXW (DMR voice & data) 450-470 MHz TX/RX 5 MHz 1 TX/RX Channel 13.8VDC at 2.5 Amps, Nominal 0 to 30 minutes, programmable "N" type PTT input, Discriminator output, deemphasized discriminator output, RSSI P-5 (2.1mm x 5.51mm x 9.5mm) PC Programming 50 ohms Green = Pwr ON, Red = Transmit

DMR signal slot 1 is detected DMR signal slot 2 is detected DMR signal both slots 1&2 detected

Bi-Color = Receiver Status

10 Watts (measured at output of antenna connector @ 13.8VDC) +/- 1 ppm (-30 C to +50 C) 4FSK Spurious & Harmonics: <-25 dBm 100% at +25° C (degraded linearly to 10% at +50° C

Fixed tuned, dual conversion super-heterodyne 43.65 MHz/450 kHz Low side injection DMR: -115dBm, 12dB SinAD -40 dB @ 6.25 kHz offset -75 dB -80 dB -70 dB +/- 1 ppm (-30 C to +50 C)



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