KLR-200
Kutta Link Radio

- Communicate for Miles in Subways & Tunnels
- Link Teams in High-Rise Buildings
- Use Standard-Issue Radios in Challenging Environments
- Relay Unique Radio IDs & Man-Down Alerts

The Kutta Link Radio allows First Responders to seamlessly communicate with operational and tactical command posts using their existing radio equipment in challenging environments such as subway tunnels and high-rise buildings. Unlike other repeater systems, the KLR preserves the unique identifier transmitted by each responder handset, allowing full fireground accountability and support for emergency alerts.

www.KuttaRadios.com
Kutta Link Radio

KLR-200 Performance Specifications

General
- Battery Life

Standalone UHF Radio mode 45W TX power
- 10/10/80 duty cycle: 11.5 hrs
- 20/20/60 duty cycle: 7 hrs

Battery Charge Time 8 hours maximum
External Power Supply 12 VDC ±5%, 18A min

MF Radio Specifications

General
- Frequency Range 450 kHz
- Number of Channels 1
- Frequency Stability 10 ppm
- Antenna Impedance 50 ohms

Receiver
- Sensitivity (12 dB SINAD) 0.5 µV
- Selectivity 12 kHz @ -6 dB
- Spurious Rejection > 60 dB
- Noise Figure 3 dB typical
- Input IP3 (3rd order intercept) -23 dBm
- Input P1 db (1 dB compression) -33 dBm

Transmitter
- RF Power Output 5W ±20%
- Emission Designator 16K0F3E
- Spurious Emission < -60 dB
- 3rd Order IMD -31 dBc @ 5W
- Amplifier Type Class D

UHF Radio Specifications

General
- Frequency Range 450-520 MHz
- Channel Spacing Digital: 12.5 kHz
- Analog: 12.5/25 kHz

Operating Voltage 13.6V DC ±20%
Frequency Stability ±1.0ppm
Antenna Impedance 50Ω

Receiver
- Sensitivity Digital (5% BER): 0.25 µV
- Digital (1% BER): 0.40 µV
- Analog 12dB SINAD: 0.25 µV

Selectivity
- Digital: -60dB
- Analog @ 25 kHz: -80dB
- Analog @ 12.5 kHz: -70dB

Intermodulation Distortion
- Digital: -73dB Analog: -75dB
- -85dB

Spurious and Image
- Audio Distortion Less than 3%
- Audio Output 4W/4Ω

Transmitter
- RF Power Output
- High TX power, unit running on battery power
  - 450-490 MHz: 45W (46.5 dBm) ± 1dB
  - 490-512 MHz: 40W (40 dBm) ± 1dB
- High TX power, unit running on AC power 40W ±20%
- RF Power Output (low power) 5W ±20%
- Spurious and Harmonics 75 dB
- FM Hum and Noise Analog @ 25 kHz: 50 dB
- Analog @ 12.5 kHz: 45 dB
- Audio Distortion Less than 3%
- Modulation 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D

Analog measurements for UHF radio made per:
TIA/EIA 603

Digital measurements for UHF radio made per:
TIA/EIA102CAA