

Incident Portable VHF/UHF Repeater



Expanding coverage

Tactical Electronics Incident Portable VHF/UHF Repeater is a self-contained, rugged and integrated solution for quickly creating a local repeater site. The quick and simple setup allows maximum operational flexibility between user radios. Coverage is expanded where radio links are necessary or where conditions hinder line of sight communications. The mobility of the repeater extends the operational theater communication for tactical P25, digital, analog, and encrypted radio networks.

integrated



Solving Your Communication Puzzle

www.tacel.com • 321.253.0845 • info@tacel.com

Incident Portable VHF/UHF Repeater

General Configuration:

- VHF: Icom IC-1721
- UHF: Icom IC-1821

Frequency Range:

- VHF 136-175 MHz
- UHF 385-470 MHz
- Other frequency ranges possible

Repeater Transmitter RF Output Power:

- Selectable 5, 15, and 25 watts
- Other output levels possible. Panel meter indicates RF power.

Mode:

- FM
- Repeats tactical P25, digital, analog, and encrypted radio networks

Power:

- 11.5-15 VDC
- 90-132 VAC
- Internal LFP battery provides 10 hours operation at 75:25 duty cycle and 15 watts RF output

Physical Parameters:

- Height: 8 inches | 457 mm
- Width: 20 inches | 508 mm
- Depth: 8 inches | 203 mm
- Weight: 42 pounds | 19 kg

Environmental:

- -10°C to 55°C
- MIL-STD-810F for shock, rain, vibration
- .5 m drop

Site Requirements:

- 7 m minimum antenna distance with 5 MHz frequency separation

Controls and Indications:

- Repeater on/off with LED
- DC volt meter to indicate voltage to radios
- Transmitter RF power meter
- Radio front panel controls for receiving and transmitting

Interoperability:

- Works with tactical P25, digital, analog, and encrypted radios

Accessories:

- Antennas
- Support masts
- Solar panels