

# Tactical Repeater: Tunnel Operations Arenas, Schools “Big Box” Store *Waterproof ICRI-2PE/D With Cable-Reel Extension*

The C-AT ICRI-2PE and ICRI-2PED tactical repeaters, with 250' and 500' cable (audio) reels provide a reliable, lightweight, waterproof and rapidly deployable solution to enhancing coverage of an agency's existing portable radios in areas of marginal or complete loss of radio communications.

Fire fighting and law enforcement activities under the most adverse confined spaces conditions of buildings and tunnels are no longer impeded by intermittent or complete loss of radio communications with an operation's C2 personnel. Teams **5000' inside a structure** enjoy reliable communications with one another and their OIC outside the structure without degradation of audio.

The ICRI-2PE/D is an **elegantly simple and highly effective solution** to enhance radio coverage during USAR, SWAT and RECON entry team operations and eliminate the need for traditionally relayed messages from entry team personnel to those outside using an agency's existing radios.

The ICRI-2PE/D provides an elegantly simple and highly effective and decon-able kit operating on **6 “AA” batteries for 24+ hours**. As with all ICRI models, the ICRI-2PE/D uses an agency's existing radios. The ICRI-2PE/D is frequency and radio agnostic, permitting use as cross-band, cross-platform and cross-encryption repeater. Radios and phones may be connected directly to the ICRI-2PE/D.

ICRIs and cable reels have undergone **extensive field testing and deployment** by federal, state, and municipal law enforcement agencies including: National Guard Civil Support Teams, FEMA USAR teams.

**A fully complete kit with 250' reel is under \$5,000.**



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**COMMUNICATIONS-APPLIED TECHNOLOGY**

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# ICRI -2PE Specifications

## RX Audio Input

Input Impedance: Unbalanced, 80 ohms nominal.  
Input level: -32 dBm to + 12 dBm, no adjustment required.  
Frequency Response: 280 Hz to 3400 kHz  $\pm$  2dB.

## TX Audio Output

Output Impedance: Unbalanced, 1000 ohms nominal.  
Output Level: -40 to -18 dBm, adjustable (preset: -25dBm).  
Frequency Response: 280 to 3400 Hz  $\pm$  2dB  
Audio Delay: adjustable; 0 to 500 ms (preset: 250 mSec).

## General/Environmental

Connectors: U-183/U: radio channel I/O, U-283/U: handset, MS3102A10SL-4P: DC power.  
Indicators: Power "OK" LED, power "LOW" LED, channel active LEDs (2).  
Controls: Guarded, power on/off switch; handset volume control.  
DC Input Power: +6.5 to + 20 VDC @ 0.07A maximum  
AC Input Power: 115 to 230 VAC  $\pm$  15%, 47-63 Hz, 3 VA maximum (with 320.0431 AC adapter).  
Weight: 2PE - 4 lbs. without adapters and accessories  
Size: 4.12" H X 9.37" W X 7.31" D excluding control panel connectors/switch protrusions.  
Temperature: Operating: -20 to +60 degrees C; storage: -40 to +85 degrees C.  
Humidity: Up to 95% @ 55 degrees C.  
Shock and Vibration: Suitable for mobile and portable environments; Mil 810 compliant.  
FCC Part 15: unintentional radiators (CISPR 22) compliant

## Cellular/RJ22 Input

Input Type: Unbalanced  
Input Range/VOX Threshold: -50 to +10 dBm, adjustable (preset: -50dBm).  
Output Type: Unbalanced.  
Output Range: -40 to +3 dBm, adjustable ((preset: -30dBm)

## Input VOX

VOX Hang Time: Adjustable 0.5 to 2 seconds (preset: 1.5 seconds).  
VOX Attack Time: Less 2 ms, nominal, for typical speech  
VOX Timeout Timer: Adjustable 30 to 90 seconds (preset: 60 seconds).  
VOX Threshold: Adjustable -32 to -6 dBm. (Preset: -30dBm) (RX)  
-50 to +10 dBm, adjustable (preset: -50dBm) (AUX)

## Handset

Compatibility: 2PE - Compatible Mil H-350/H-250 handset  
Handset Volume Control: 70 dB range.  
Initiation: PTT bar.  
Option: Variety of headsets and remote P-T-T switches

## Warranty

Provide product support for 10 years after purchase and a 5 year parts/labor warranty

## ICRI-2PE/Deep

Identical footprint with additional height provide in case storage for ICRI handset, cables and accessories.



The ICRI is Made in the USA

More information, grant assistance or a free demo unit, visit us at [www.radiointeroperability.com](http://www.radiointeroperability.com)