



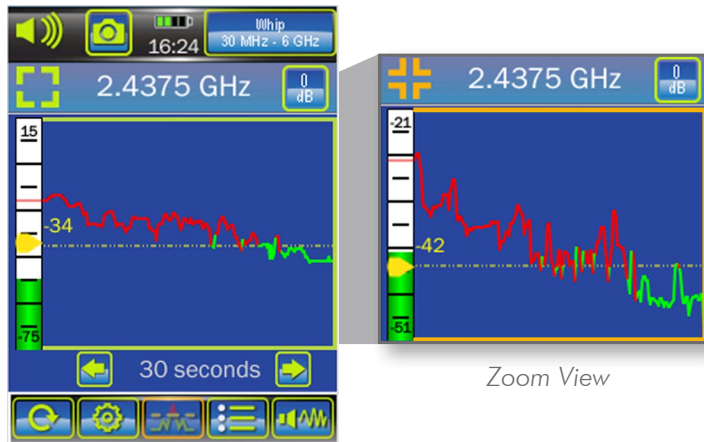
# ANDRE<sup>™</sup>

## DELUXE

NEAR-FIELD DETECTION RECEIVER

# ANDRE NEAR-FIELD DETECTION RECEIVER

The ANDRE is a hand-held broadband receiver that detects known, unknown, illegal, disruptive, or interfering transmissions. The ANDRE locates nearby RF, infrared, visible light, carrier current, and other types of transmitters. The ANDRE is portable, non-alerting, and ideal for locating hidden eavesdropping devices.



The signal strength histogram displays RF levels over user-selected time intervals ranging from 5 seconds to 24 hours. The adjustable trigger level provides audio, haptic, and visual alerts when RF levels exceed the threshold.

The ANDRE has a 90 dB dynamic range. With zoom view, a 30 dB portion of the range is displayed. This reduced scale enables users to easily see small changes in RF signal activity on the histogram.

The frequency counter generates a list of signals that exceed the trigger level. The strongest signals rise to the top of the list and weaker ones fall off after the maximum number of signals is reached. Signals can be classified as Friendly, Threat, or Unknown. Double tapping any signal brings up more information. The ANDRE contains known regulatory or other uses of given frequency bands.

## Applications

- Detects RF emissions such as WiFi, bluetooth, cell phones, illicit transmitters, etc.
- Interference detection and troubleshooting
- RF research and development
  - Wireless industry developers
  - Hobbyists and RF enthusiasts
  - Educational institutions
- Corporate security surveys for illegal, unauthorized, or threatening transmitters
- Measuring or detecting acoustic leakage or ultrasonic mechanical vibrations

2.35 GHz	-35.0 dBm	✓
11 secs ago	Hits: 12	
1.84 GHz	-35.3 dBm	!
7 secs ago	Hits: 18	
2.07 GHz	-35.6 dBm	✓
6 secs ago	Hits: 10	
1.88 GHz	-35.7 dBm	?
6 secs ago	Hits: 7	

The Signal List displays data on signals exceeding the trigger level, and are listed in ordered by signal strength

Center:	2.3479 GHz
Merged BW:	100.1 MHz
Power:	-35.0 dBm
Type:	Friendly / Unlocked
Seen:	13:29:34 04.20.201
Hits:	12
Probe:	Carrier Current
Atten/Gain:	0 / +15
ITU:	Fixed
Wireless:	UMTS TD 2300 40 D
Other Details:	Amateur Radio
FCC:	Aviation (87)

Clicking on individual signals reveals more information and characteristics

## New ANDRE Deluxe Reporting Features

**DATA LOGGING** - this new software feature provides histogram data for downloading to a PC and viewing in the ANDRE Data Viewer software. Data provided includes time/date, signal amplitude, user settings, probes, chart duration and detailed frequency band information. There are 3 optional modes:

- 250 hours and 500ms resolution
- 25 hours and 50ms resolution
- 30 minutes and 1ms resolution

**DATA VIEWER** - PC application generates histogram charts from Data Logging files. Includes zoom and scroll controls for more detailed view.

All ANDRE models can save .png screenshots, .csv signal lists, and 10 second demodulated audio files that can be opened in commercial programs.



# ANDRE DELUXE ANTENNAS

Quickly and discretely identify RF transmission sources using the ANDRE Deluxe's wide range of accessories specifically designed to receive transmissions across a 10 kHz to 12 GHz frequency range. The ANDRE auto-reconizes the attached accessory and displays the correlating frequency band. Advanced and Basic packages are also available with fewer accessories, details available on the REI website.

## (A) WHIP ANTENNA: 30 MHz - 6 GHz

A general all-purpose near-field antenna with frequency bandwidth and physical size to suit many scenarios.

## (B) VLF LOOP: 10 kHz - 30 MHz

Used to find transmitters broadcasting RF at very low frequencies.

## (C) CARRIER CURRENT PROBE: 100 kHz - 60 MHz

Tests power lines up to 250 Volts for modulated signals. Users can measure Hot/Neutral, Neutral/Ground, and Hot/Ground pair configurations.

## IR/VISIBLE LIGHT SENSOR: 1 kHz - 50 MHz

Is built-in to the top panel of the unit. When no other attachment is present, this is the default ANDRE input used to detect infrared transmitters.

## (D) LOCATOR PROBE: 20 MHz - 6 GHz

Should be used in environments with a very high RF noise floor. It is designed to detect RF signals in close proximity of the probe.

## (E) CONCEALED ANTENNA: 750 MHz - 6 GHz

Used for covert detection. When connected, the ANDRE automatically enables haptic feedback mode and shuts off the display and power LED.

## (F) AUDIO TRANSFORMER: 300 Hz - 20 kHz

Has the ability to add positive and negative bias voltage in order to activate microphones present and tests low voltage wiring for unmodulated signals.

## (G) ACOUSTIC LEAKAGE DETECTOR: 300 Hz - 20 kHz

Allows users to listen for acoustic leakage vulnerability by placing the probe against structural objects (walls, windows, etc.).

## (H) DIRECTIONAL ANTENNA: 70 MHz - 500 MHz

This flag-shaped antenna provides directional coverage for lower frequency signal detection.

## (I) ULTRASONIC PROBE: 15 kHz - 80 kHz

Detects sound waves operating above the upper limit of human hearing capabilities.

## (J) DOWN CONVERTING ANTENNA: 500 MHz - 12 GHz

Converts signals occurring above the standard 6 GHz threshold so they can be detected and displayed on the ANDRE.



**ACCESSORIES** - The ANDRE Deluxe comes equipped with a Boom Extender for hard to reach areas, an IR Filter to block out Visible Light, a Probe Tripod Stand for in-place monitoring, both 4 ft (1.2 m) and 9 ft (2.7 m) connector cables, and a 5 ft (1.5 m) powered connector cable to be used with the Down Converter and Directional antennas.





# PRODUCT CHARACTERISTICS

## RF DETECTOR

Sensitivity: -75 dBm for 3 GHz frequency (typical at RF input)  
Stepped attenuation/gain control: -20 dB, -10 dB, Off, +15 dB

## AUDIO

Built-in speakers with adjustable volume control  
Tone style options: rising pitch, steady tone, off

## DISPLAY

3.5 inch (4 cm) capacitive touch screen  
Screen brightness: high, medium, low

## INPUT/OUTPUT

USB data port for software upgrades and file transfer

## POWER

Input: USB internal charger  
Run time: > 5 hours per battery (typical)  
Charge time: 1.5 hours per battery (typical, 80% charge),  
< 3.5 hours per battery (typical, 95% charge)  
Batteries: Nitecore 18650 Lithium Ion Rechargeable Battery  
Model #NL189, rated 3.7V, 3400mAh, 12.6Wh  
(2 included with ANDRE, 4 included with Advanced and Deluxe  
packages)  
External USB charger included with Advanced and Deluxe  
packages

## MECHANICAL

Case dimensions: 6.25 in x 14.9 in x 18.5 in  
(15.9 cm x 37.8 cm x 47.0 cm)  
ANDRE dimensions: 3.4 in x 5.7 in x 1.0 in  
(8.7 cm x 14.4 cm x 2.5 cm)  
ANDRE weight with batteries: 0.65 lbs (0.3 kg)  
Case weight with ANDRE Deluxe & accessories: 12 lbs (5.4 kg)

## ENVIRONMENTAL

Operating temperature: -10° C to 50° C  
Battery charging temperature: 0° C to 35° C  
Storage temperature: -20° C to 50° C  
*Note: extended storage at temperatures above 40° C could  
degrade battery performance and life.*



### ANDRE PACKAGES

PROBES / ACCESSORIES		BSC	ADV	DLX
	Whip Antenna (30 MHz – 6 GHz)	•	•	•
	VLF Antenna (10 kHz – 30 MHz)	•	•	•
	Carrier Current (100 kHz - 60 MHz)	•	•	•
	Built-in IR/Visible Light Sensor (1 kHz - 50 MHz)	•	•	•
	PC Data Viewer	•	•	•
	Log Periodic Antenna (500 MHz - 6 GHz)		•	
	Locator Probe (20 MHz – 6 GHz)		•	•
	Concealed Probe (750 MHz – 6 GHz)		•	•
	Audio Transformer (300 Hz - 20 kHz)		•	•
	Acoustic Leakage Detector (300 Hz - 20 kHz)		•	•
	Standalone Battery Charger		•	•
	Extra Batteries (2)		•	•
	Down Converter Antenna (500 MHz - 12 GHz)			•
	Ultrasonic Probe (15 kHz - 80 kHz)			•
	Directional Antenna (70 MHz - 500 MHz)			•
	Data Logging			•
	Boom Extender, Probe Tripod, IR Filter, powered connector cable			•

**REI Training Center** is the largest commercially-available TSCM training facility in the world. Courses teach basic and advanced procedural concepts of conducting a counter surveillance investigation. All courses include hands-on exercises in dedicated project rooms that simulate threat scenarios. Custom, on-site training courses are also available. View course dates and register online at [www.reiusa.net](http://www.reiusa.net).



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