



CMA-100

COUNTERMEASURES AMPLIFIER

The Countermeasures Amplifier (CMA-100) is a high gain audio amplifier that is utilized to detect and identify certain types of surveillance devices connected to building wiring, including: telephone wiring, LAN, Server systems, security system, etc. This multi-functional amplifier has a built-in AC/DC digital voltmeter, selectable audio filters, and an extremely wide dynamic range. Balanced and unbalanced high impedance input provides

connectivity to a variety of suspect wiring. The CMA-100 also provides a bias voltage adjustable from -15V to +15V DC that is used to activate possible devices that are voltage or current sensitive and is compatible with most types of line connections. All of these functions employ a sophisticated automatic gain control circuitry that is unparalleled to any other audio amplifier.

Technical Specifications

INPUT IMPEDANCE:

50k Ω balanced

Common Mode Rejection: >75dB

Maximum Usable Input: 31V p-p

Preamp Auto Attenuator: 0 to -40dB
(with overload warning LED)

AUTOMATIC GAIN CONTROL:

Dynamic Range: 145dB

Manual Gain Control: 0,25,50,75,100dB

Headphone Gain Control: 0-15dB

Maximum System Gain: 115dB

FREQUENCY RESPONSE :

No Filtering: 25Hz-44kHz

High Pass Filter: 320Hz-44kHz

Low Pass Filter: 25Hz-3.2kHz

Band Pass Filter: 320Hz-3.2kHz

HEADPHONE AUDIO OUTPUT

Line-Out Audio Output: 600 Ω

BIAS CONTROL:

0 to +/-14.5VDC, 5mA max (Over current protected, Input Impedance is reduced to 3.6K Ω when Bias is active)

DIGITAL VOLTMETER:

3.5 digit, auto zero, auto polarity, +/-199.9V AC or DC

POWER ON/LOW BATTERY LED

(LED off @ 6.9V)

Battery: 9V Alkaline (5-30 hours typical run time)

MAXIMUM INPUT VOLTAGE:

250 AC/DC

Leakage Resistance To Case: >10M Ω

SIZE:

7.3 in x 2.75 in x 1.75 in
(185.4 mm x 69.8 mm x 44.5 mm)

WEIGHT:

12.1 oz (343 g)

Optional Probes

CONTACT MICROPHONE - Used to test environmental surfaces for acoustic leakage.*

INDUCTIVE COUPLED PROBE - Used to test suspect wiring using inductive coupling.*

AC POWERLINE ADAPTER - Used to interface to active AC lines up to 220VAC.*

* Contact REI for availability

