



## CAMDEN EC1



The Ultimate Performer's Front End. Camden EC1 is an award-winning Camden preamp with Mojo analogue saturation, and a reference-quality headphone amplifier with a discrete line mixer built-in to a desktop-friendly, half-rack chassis.



**Cena:**

**Kategorie:** [Audio](#), [Studio](#), [Przedwzmacniacze](#)

## GALLERY IMAGES



## OPIS

- Discrete mic/line/hi-z preamp featuring the award-winning 'Camden' topology from the Camden 500 Preamp and Signal Processor for 500 series
- Audio performance at the near-theoretical limits of noise, distortion, and phase/frequency linearity at all gain settings

- EIN: <-129.5dBu, 150 Ohm source, unweighted, <-135.5dBu, Inputs common, unweighted
- THD+N: <0.00025% (1kHz, 35dB gain, +24dBu out)
- Intermodulation Distortion: <0.0006% (50Hz and 7kHz, 35dB gain, +20dBu out)
- Phase Shift: <2.75° (20Hz to 20kHz, 40dB gain), <6° (20Hz to 20kHz, Max Gain)
- Freq. Response:  $\pm 0.7$ dB (<1 Hz to >1000 kHz, 35dB gain),  $\pm 1$ dB (<5 Hz to >200 kHz, Max Gain)
- **Unique 48v status LED**
  - 48v LED Lights Orange to indicate voltage charging or dissipating to prevent damage to ribbon microphones and to ensure voltage is fully charged before use
  - 48v LED lights RED when voltage is fully charged and ready to use
- **‘Mojo’ analogue saturation circuits with variable control, true bypass, and 2 discrete styles - Thump and Cream**
  - Thump excites low-end content by boosting lower odd/even harmonics from a range of 160Hz to 20Hz and below
  - Cream boosts odd/even harmonics whilst also reducing the amplitude of the fundamental frequencies and applying typical transformer-style transient taming
- **Discrete headphone mixers with independant CH 1, Ext Input, and Aux Input level controls**
  - Monitor the Camden preamp directly with headphones during mic placement to find the sweet spot of the instrument/source
  - Create zero-latency artist mixes by combining the Camden preamp with external playback from Aux Input 1/4" jacks on Camden EC1's rear panel
  - Use the reference grade headphone amplifier for critical listening by sending stereo mixes from the interface into the Aux input and monitoring directly using Camden EC1's headphone output
- **Reference-quality, high-powered headphone amplifier**
  - Freq. Response:  $\leq \pm 1$ dB, <1 Hz to >100 kHz
  - Output Impedance: 0.33 Ohms
  - THD: 0.0003%, 1kHz
  - Output Wattage: 2x250mW @ 600 Ohm, 2x450mW @ 220 Ohm, 2x250mW @ 100 Ohm
- **Balanced XLR output and impedance balanced 1/4" jack outputs for maximum connectivity into audio interfaces and other downstream equipment**
  - -10dB PAD to attenuate preamp output for lowheadroom audio interfaces

- **Dedicated Impedance balanced 1/4" jack Link output for true instrument DI functionality and splitting instrument inputs to balanced or unbalanced amplifiers and effects**
- **C.A.S.T. OUT port for connecting into 500R8/500ADAT**
  - Transmit Camden EC1's preamp and Ext Input directly into 500R8 and 500ADAT's 500 series modules inputs for recording/processing
  - Receive a stereo mix generated from 500R8/500ADAT and monitor using Camden EC1's headphone mixer
  - All managed and distributed via a single shielded Cat 5e, Cat 6, or Cat 7 cable
- **External high-current 24v, 1.25a power supply with latching connector**

*All specifications are typical performance unless otherwise noted. All specifications are subject to change at any time. Tested with Audio Precision APx555.*

#### **Preamp**

Test Signal Path	APx555 (Line Out) - Input 1 - Line Output - APx555 (Line In)
Input Impedance	Mic= 8.9 kOhms 48v Off, 5.4 kOhms 48v ON, Line = 24.3 kOhms, Hi-Z= 1.5 MOhm Unbalanced, 3 MOhm Balanced
Max Input Level	Mic = +17.6dBu (<0.003% THD), Line = +26.5dBu (<0.02% THD), Hi-Z = +24dBu (<0.02% THD)
Minimum Gain	Mic= 8dB, Line = 0dB, Hi-Z = 3dB
Maximum Gain	Mic = 68dB, Line = 60dB, Hi-Z = 63dB
Equivalent Input Noise (EIN)	<-129.5dBu (150 Ohm source, unweighted), <-131dBu (150 Ohm source, A-weighted), <-135.5dBu (Inputs common, unweighted)

Frequency Response	$\pm 0.7\text{dB}$ (<1 Hz to >1000 kHz, Min Gain), $\pm 0.7\text{dB}$ (<1 Hz to >1000 kHz, 35dB Gain), $\pm 1\text{dB}$ (<1.5 Hz to 900 kHz, 63dB Gain), $\pm 1\text{dB}$ (<5 Hz to >200 kHz, Max Gain)
Phase Shift	<2.75° (20Hz to 20kHz, 40dB Gain), <4° (20Hz to 20kHz, 63dB Gain), <6° (20Hz to 20kHz, Max Gain)
THD+N	<0.00025% (1kHz, 35dB Gain, +24dBu out)
Intermodulation Distortion	<0.0006% (50Hz and 7kHz, 35dB gain, +20dBu out), <0.0005% (50Hz and 7kHz, 35dB gain, +15dBu out)
Hi-Pass Filter (HPF)	80Hz, -3dB, 12dB/Oct
CMRR	>70dB, typ >85dB, 35dB gain, 10-20kHz, 100mV Common mode
Slew Rate	20V/ $\mu\text{S}$ , 35dB gain, +25dBu out
48v LED Thresholds	Off = 48v Off, voltage fully discharged Amber = 48v voltage charging/discharging Red = 48v fully charged
Signal LED Meter Thresholds	Blue = -20dBu Green = -12dBu Amber = +21dBu Red = +24dBu
Max Output Level	Balanced XLR = +27.5dBu (<0.002% THD, 30dB Gain) Impedance Balanced 1/4" Jack = +21.5dBu (<0.002% THD, 30dB Gain)
Output Impedance	Balanced XLR = 150 Ohm Impedance Balanced 1/4" Jack = 150Ohm Balanced, 75 Ohm Unbalanced
Link Max Output Level	Impedance Balanced 1/4" Jack = +21.8dBu (<0.006% THD)

Link Output Impedance	Impedance Balanced 1/4" Jack = 75 Ohm Unbalanced, 150 Ohm Balanced (Buffered Output)
<b>Headphone Amplifier</b>	
Test Signal Path	APx555 (Line Out) - AUX Input - Headphone Output - APx555 (Line In)
Frequency Response	-1dB, <1Hz to >70kHz
THD	<0.0006% (-104.4dB) @ +20dBu, 1kHz, A-weighted, 300 Ohm load
THD+N	<0.00085% (-101.4dB) @ +20dBu, 1kHz, A- weighted, 300 Ohm load
Output Impedance	0.33 Ohms
Output Wattage	250mW x 2 @ 600 Ohms, 1kHz
	650mW x 2 @ 220 Ohms, 1kHz
	1.21W x 2 @ 100 Ohms, 1kHz
	500mW x 2 @ 32 Ohms, 1kHz
Dynamic Range	114.5dB A-weighted, AES17 method, 20Hz - 20kHz, 300 Ohm load
Noise Floor	-93.5dBu A-weighted, 20Hz - 20kHz, 300 Ohm load
<b>Power</b>	
AC Requirements	100V - 240V AC, 50 - 60 Hz
Total Power Consumption	24v, 1.25A DC, 30W
<b>Environmental</b>	
Operating Temperature	+1 to 35 degrees Celsius
Storage Conditions	-20 to 50 degrees Celsius
<b>Dims/Weights</b>	

<b>Unit</b>	
Width	220mm (8.6") (Rackmount Kit Available)
Height	44.45mm (1.75") (1u)
Depth	240mm (9.5")
Unit Weight	1.8kg (3.9lb)
<b>Shipping Carton</b>	
Width	360mm (14.2")
Height	120mm (4.7")
Depth	340mm (13.4")
Carton Weight	2.6kg (5.7lb)

Option:

## Half Rack Kit

**Rackmount kit for all Cranborne Audio half-rack products.**

### Complete Rackmount Solution

The Half Rack Kit is perfect for rack mounting any Cranborne Audio half-rack product (such as **Camden EC1**) into 19" or half-width racks in a variety of different configurations.