DJB Instruments
SENSING ENGINEERING INNOVATION

CV3-C

3 Channel Charge Amplifier

The CV3-C is a 3-channel low noise charge amplifier contained within a compact bench mount and portable DC powered unit.

Using front panel mounted BNC inputs and outputs it provides an easy set up solution, with individual gain selection via a three pole switch, which offers the user the option of x1, x10 or X100 gain individually selectable for each channel.

The CV3-C offers simple charge amplification with gain options which reflects the more common method of operation when using modern DAQ systems using software input of sensitivity values

The unit is supplied with a DC power adaptor with multi region plug and can be used in a portable application via an external 9-30VDC supply.

Using an aluminium case and strong but lightweight aluminium end panels to protect the assembly the CV3 range offers a lightweight but rugged solution.

Specification	Metric	Imperial
Performance		
Input Gain per channel	x1, x10 and x100	
Channels	3	
Max Output per channel	±10VAC	
Floating/Ground	User selectable switch on rear panel	
Connections		
Inputs	3 x BNC jacks	
Outputs	3 x BNC jacks	
Environmental		
Operating Temp.	0 to +45°C	32 to 113°F
Power		
Input Connector	2.1mm DC Socket	
Input	9 – 30 VDC (nom.18VDC)	
Status	Green LED Power Indicator on Front Panel	
Max Power Rating	5W	
Physical		
Weight	0.59kg	1.3lbs
Size	H 124mm, W 46mm, D 195mm	H 4.88in, W 1.81n D 7.67in

Gain	Bandwidth
x 1	500kHz
x 10	500kHz
x 100	100kHz

Features

- 3 channel low noise Charge amplifier
- Gain of x1, x10 and x100 individual channel selectable.
- Front panel BNC input/output connectors.
- DC powered
- Portable and Lab use

Electrical Noise – Charge Mode	
Broadband Electrical Noise (1 to 10,000Hz) (Gain x1)	49.1 µVrms
Broadband Electrical Noise (1 to 10,000Hz) (Gain x10)	58.2 µVrms
Broadband Electrical Noise (1 to 10,000Hz) (Gain x100)	287 µVrms

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A UK company with UK-based manufacturing, assembly and calibration in-house.

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