DJB Instruments
SENSING ENGINEERING INNOVATION

CV3-CV

3 Channel Charge/IEPE Amplifier

The CV3-CV is a 3-channel Charge and IEPE 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, making is extremely flexible when used with mixed accelerometer outputs.

The CV3-CV offers the ultimate in flexibility and allows a mix of IEPE and Charge accelerometers to be used at the same time due to individual channel selection for suitable signal conditioning and amplification.
Both Charge and IEPE circuits offer low noise for high accuracy measurement even at low signal level.

The unit is supplied with a DC power adaptor with multi region plug.

Specification	Metric	Imperial
Performance		
IEPE/Charge Selection	Individual channel selection via two way switch	
Channel Indicator IEPE	Green – OK Red – Short circuit Off – Open circuit	
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	
IEPE Supply	24VDC/4mA	
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

- IEPE/Charge Individual channel selection
- OK/Short Circuit/open circuit warning Indicator.
- Gain of x1, x10 and x100 individual channel selectable.
- Front panel BNC input/output connectors.
- DC powered
- Portable and Lab use

Electrical Noise – IEPE Mode	
Broadband Electrical Noise (1 to 10,000Hz) (Gain x1)	50.2 µVrms
Broadband Electrical Noise (1 to 10,000Hz) (Gain x10)	81.4 µVrms
Broadband Electrical Noise (1 to 10,000Hz) (Gain x100)	512 µVrms
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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