

# MV:220A 1/2" Prepolarised Microphone Preamplifier



## Overview

The MV:220A 1/2-inch Preamplifier is a general purpose preamplifier suitable for use with prepolarised microphone capsules.

It is a small unit with a slimline profile and is powered via the coaxial BNC-type connector. Power is from a suitable constant-current source of typically 4mA with a power supply excitation voltage of between 15v and 24v DC.

The frequency response (-3dB points) of the MV:220A are 2.6Hz to 150kHz.

The MV:220A can be used with the Cirrus Research Class+ Microphone Capsules including:

- MK:224 Class 1
- MK:216 Class 2

## Specifications

### Frequency Response

-0.1dB at 16Hz and 20kHz  
-3dB at 2.6Hz and 150kHz

### Input Impedance

>1200 MΩ

### Output Impedance:

50 Ohms

### Gain

-14.8dB (5.5x) with 18pF Microphone Capsule

### Noise Floor

A-weighted: < 45dB

### Dimensions:

Length: 98mm  
Diameter: Ø13mm

### Power Supply

Excitation Voltage: 17 to 25 VDC  
Constant Current Excitation: 4mA  
Output bias voltage: 10VDC

### Polarisation Voltage

None

### Output Voltage

Maximum output signal voltage: 1V RMS (2.82V Pk-Pk)  
Maximum signal input (with 40mV/Pa mic.capsule): 140dB

### Maximum Cable Length

100 meters

### Connection

Input: 1/2" Microphone 60 UNS  
Output: Coaxial BNC

### Startup stabilisation time

15 seconds

### Temperature

Operation: -10°C to +50°C  
Storage: -20°C to +60°C