



**CINDE 219
MODULAR BALANCING SYSTEM**

MADE IN AUSTRALIA BY
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CINDE 219 BALANCING MODULE

The extent and variety of potential combination for Professional and Domestic equipment has increased dramatically in recent times.

This has created the necessity for a means by which these may be effectively interfaced at reasonable cost. The Cinde 219 product achieves this purpose.

The Cinde 219 Balancing Amplifier offers up to sixteen channels of electronics to balance the inputs of domestic equipment such as audio cassette machines and VCR's.

The balancing amplifier can be fitted with one to sixteen electronics cards depending upon customer requirements. Additional modules can be fitted to the chassis by the user without requiring any special tools.

All cards incorporate a ten turn trimpot for accurate level setting. These cards incorporate onboard filtering and power supply regulation to minimise adjacent channel crosstalk. Individual level trimpots are accessible from the front of the unit after removal of the protective front panel.

An IEC mains connector is fitted to the rear panel. This panel incorporates an integrated mains on-off switch and AC fuse. A front panel LED indicator is fitted to indicate "Power On" condition. A toroidal mains transformer is utilised in the balancing amplifier to minimise stray electromagnetic radiation.

Each amplifier module is configured with a balanced input and output. The input and output of each amplifier can be connected in either a balanced or unbalanced mode as required. The output amplifier is configured to provide constant output level regardless of whether it is connected to drive a balanced or unbalanced load.

SPECIFICATIONS

ELECTRICAL

FREQUENCY RESPONSE: +0/-0.3dB 20Hz - 20kHz
DISTORTION @ 1KHz: 0.002% T.H.D
NOISE: -93dB
GAIN RANGE: FULLY ATTENUATED TO +26dB
CROSS TALK @ 20kHz: > 80dB BETWEEN ADJACENT MODULES
MAXIMUM INPUT LEVEL: +24dB
MAXIMUM OUTPUT LEVEL: +28dB
INPUT IMPEDANCE: 15 kOHMS
OUTPUT IMPEDANCE: 50 OHMS
CURRENT CONSUMPTION @ +4dB 12.5 mA PER RAIL
PER MODULE FOR OUTPUT @ +28dB 23 mA PER RAIL
LOAD 600 OHMS

MECHANICAL

DIMENSIONS

482 X 42 X 110mm

MOUNTING

Standard 19" rack, 1 unit high.

CASE

Black anodised aluminium alloy custom punched and milled forming front panel. Black powder coated sides and lids and custom punched back panel from zinc coated mild steel. Rear mounted mains switch to minimise unwanted operation. Chassis mount fuse.

COMPONENTS

Single sided PCB with solder mask and legend. Highly accurate low noise operational amplifiers manufactured specifically for audio applications, resulting in low noise, distortion and crosstalk. Multiturn trimpots for accurate customised level setting. Factory set for unity gain. Unit is fully modular for ease of service and upgrade.

CONNECTORS

Audio Inputs and Outputs: $\frac{1}{4}$ " Stereo Phone Jack Sockets with form "A" contacts.

Connection Details:	Tip	-	+ve or positive connection
	Ring	-	-ve or negative connection
	Sleeve	-	Earth connection

Mains Power: IEC chassis mount male complete with mains switch and mains fuse.