

# PIP II PROBE INTERFACE POD

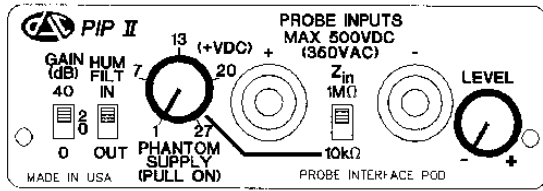
## *COLLECTS BURIED AUDIO SIGNALS FROM WIRE PAIRS*

- High impedance probe inputs for minimizing load on the line
- Powerful HUM filter for removing 50/60 Hz noise
- High gain (0dB to 100 dB overall) for amplifying buried signals
- Adjustable PHANTOM SUPPLY for energizing hidden microphones
- High voltage protected for operator safety

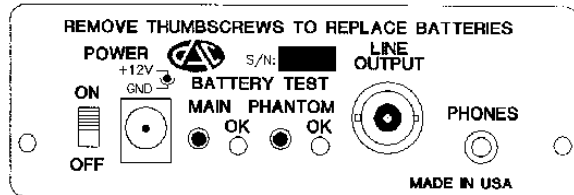


**DIGITAL AUDIO COMPANY**

## PROBE INTERFACE POD or PIP II



Front Panel



Rear Panel

### OVERVIEW:

The Probe Interface Pod (PIPII) is a high-performance amplifier designed for countermeasures applications. Using the included probe kit, the pod can be directly interfaced to telephone lines, power mains, or other types of wiring. A built-in 1-27VDC continuously adjustable PHANTOM power supply allows energizing of "dry" wire pairs to test for the presence of hidden microphones. Sheathed banana jacks are utilized to protect the user from accidental electrical shock, and the internal circuitry is capable of withstanding voltages of up to 500VDC/350VAC. A built-in hum filter effectively removes 50/60Hz hum harmonics below 310 Hz, allowing the 0 to +40dB output gain stage to amplify signals which might be buried.

### OPERATION:

The amplifier circuitry is powered either from an internal 9VDC alkaline battery or by an external DC power source (NOTE: This internal battery is disconnected whenever the external power source is plugged into the rear panel). For safety purposes, the PHANTOM power supply is always

powered from a second, dedicated internal 9 VDC alkaline battery. When utilized with the CSP Compact Signal Processor, a special cable allows amplifier (not PHANTOM) power to be drawn from the CSP. A line-level output BNC allows the unit to be attached to either input of the CSP, as well as to any other device which accepts line-level audio input. A 3.5 mm stereo phone jack allows direct connection of standard headphones.

From the front panel, the user can adjust input LEVEL (0 to 60 dB gain), switch the 6-pole 310 Hz Tschebychev HUM FILTER IN or OUT of the circuit, and apply 0 to 40dB of GAIN to the final output. Also, the PHANTOM supply can be switched ON and adjusted, and the input impedance of the PROBE INPUTS can be selected.

(NOTE: The PHANTOM supply can only be applied in the 10kΩ setting.)

From the rear panel, the user can test both the MAIN and the PHANTOM 9V batteries by pressing pushbutton switches. LEDs indicate whether each battery is OK.

### PIP II SPECIFICATIONS

Input Connections	<ul style="list-style-type: none"> <li>Differential RED and BLACK sheathed banana jacks, capable of accepting a wide variety of probes and attachments</li> </ul>	Output Gain Stage	<ul style="list-style-type: none"> <li>0, +20, or +40dB, switchable</li> </ul>
Input Impedance	<ul style="list-style-type: none"> <li>10kΩ or 1MΩ, selectable</li> </ul>	Line Output	<ul style="list-style-type: none"> <li>2Vrms, nominal output level</li> <li>Capable of driving 1K ohm load.</li> <li>Standard isolated BNC connector</li> </ul>
PHANTOM Power	<ul style="list-style-type: none"> <li>1 - 27 VDC, continuously adjustable PHANTOM power only available in the 10K impedance setting</li> </ul>	Phones Output	<ul style="list-style-type: none"> <li>3.5 mm stereo phone jack, drives standard stereo headphones</li> </ul>
Gain Range	<ul style="list-style-type: none"> <li>0 to +100dB from inputs to both line and headphone outputs</li> </ul>	Power	<ul style="list-style-type: none"> <li>9-18VDC external DC power input</li> <li>Internal 9VDC alkaline battery</li> <li>Dedicated, isolated 9 VDC alkaline battery which always powers PHANTOM supply</li> </ul>
CMRR	<ul style="list-style-type: none"> <li>75dB or better</li> </ul>	Indicators	<ul style="list-style-type: none"> <li>Two rear-panel LEDs which indicate whether MAIN and PHANTOM batteries are OK</li> </ul>
Input Noise	<ul style="list-style-type: none"> <li>Less than 1000nVrms</li> </ul>	Packaging	<ul style="list-style-type: none"> <li>1.5"H x 4"W x 4.4"L, aluminum</li> </ul>
Bandwidth	<ul style="list-style-type: none"> <li>100 - 10000Hz</li> </ul>	Probe kit	<ul style="list-style-type: none"> <li>19-piece Pomona probe kit, including pouch</li> </ul>
Input Gain Stage	<ul style="list-style-type: none"> <li>0 to +60dB, continuously adjustable</li> </ul>		
Hum Filter	<ul style="list-style-type: none"> <li>Six-pole Tschebychev, highpass, 310Hz cutoff</li> </ul>		

Specifications subject to change without notice.



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