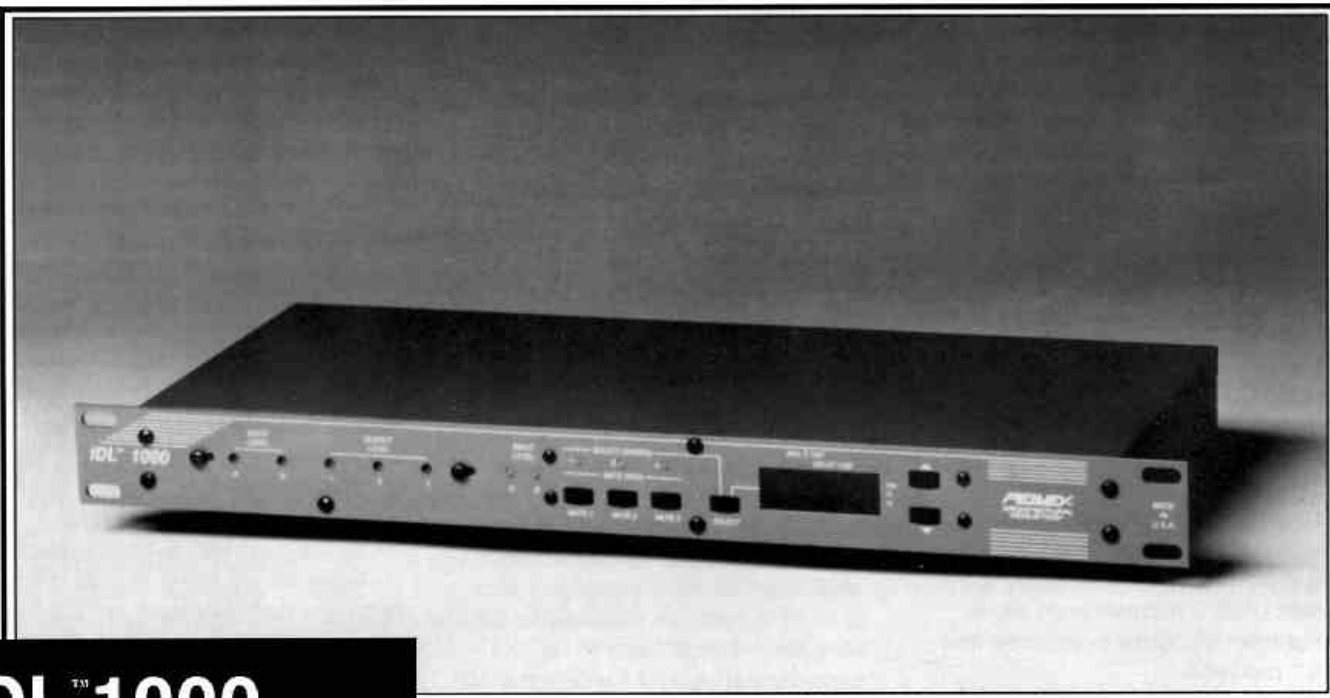


S P E C I F I C A T I O N S



IDL™ 1000 multi-tap delay line

SPECIFICATIONS

Frequency Response:
± 1.5 dB 10 Hz to 20 kHz

Signal to Noise Ratio:
Greater than 90 dB

Total Harmonic Distortion:
Less than 0.015% at 1 kHz

Input Impedance - 15K ohms:
Electronically balanced
(Transformers optional)

Output Impedance - 200 ohms:
Electronically balanced
(Transformers optional)

Maximum Input Level:
+ 25 dBu

Maximum Output Level:
+ 26 dBu (Hi Z load)
+ 24 dBm (600 ohm load)

Maximum Delay Time:
Mono Mode
1.35 seconds

Stereo Mode

Longest delay (Output 1 or 2)
+ delay Output 3 ≤ 1.35 seconds

Minimum Resolution:
20.8 microseconds

Maximum High Resolution Delay:
ms display mode 99.99 ms
ft display mode 99.98 ft (88.48 ms)
1130 ft/sec
m display mode 9.996 m (29.06 ms)
344 m/sec

64x Oversampling

Decimation Delay:
470 microseconds

Input Level Indicator:

Bicolor LED
Green 18 dB of headroom
Red 6 dB of headroom

Analog to Digital Converter:
16 bit 64x oversampled A/D converter

Digital to Analog Converter:
16 bit linear

Non-volatile Memory:
Does not require batteries

Security:

Slide cover for Input and Output level controls.
Rear panel lock switch disables buttons to protect settings.
Delay settings can still be viewed.

Dimensions:

19" wide x 1¾" high x 7¼" deep

Power Requirements:

Domestic

120 V AC 60 Hz

Export

220-240 V AC 50/60 Hz

Weight:

7½ pounds

FEATURES

- Two electronically balanced inputs (transformers optional)
- Three electronically balanced outputs (transformers optional)
- Stereo or mono operation
- 1.35 seconds maximum delay time
- 20.8 microseconds minimum delay steps
- 4-digit, 7-segment LED display for data entry
- Delay can be entered in milliseconds, feet, or meters
- Individual output switches to mute or compare delay to zero
- 16-bit, 64 times oversampled Delta-Sigma A/D converter

PEAVEY®
ARCHITECTURAL ACOUSTICS®

- 48 kHz sample rate
- 20 kHz bandwidth
- Input and output level controls with built-in security cover
- Maximum input level +25 dBu
- Maximum output level +24 dBm
- Rear panel security lock switch to protect delay settings
- Relay bypass or mute with power off
- 1 I.U. 19" rack-mount configuration

DESCRIPTION

The IDL™ 1000 is a 2-input, 3-output, multi-tap delay line designed primarily for time alignment in multi-speaker sound systems. With 1.35 seconds of delay, the IDL 1000 can align multiple speaker systems in the largest arenas and stadiums. The IDL 1000 has mono and stereo modes of operation. The minimum delay increment of 20.8 microseconds allows alignment of drivers in an array with ¼" precision.

Setting the IDL 1000 is easy with its 4-digit display and its variable rate increment buttons. The delays can be set using milliseconds, feet or meters. To further aid the setting of delay times, the IDL 1000 has buttons that allow each output to be muted or temporarily set the delay to zero.

The IDL 1000 uses a 16-bit Delta-Sigma A/D converter and a 48 kHz sample rate to keep the noise and distortion low and to maintain a full 20 kHz bandwidth. Both the inputs and outputs are electronically balanced and use XLR connectors. Transformers for the inputs and outputs are optional.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The multi-tap delay line shall have two electronically balanced inputs with provision for transformers and three electronically balanced outputs with provisions for transformers. It shall have two modes of operation: stereo and mono. It shall be capable of a maximum of 1.35 seconds of delay for each output in mono mode operation and a total of 1.35 seconds in stereo mode operation. It shall be able to fine adjust in 20.8 microsecond increments. It shall have a 4-digit, 7-segment LED display for viewing data entry and settings. It shall have the following units for displaying the delay: milliseconds, feet, and meter. It shall have individual output switches to mute or compare the delay to a zero delay. It shall have 16-bit, 64x oversampling using a Delta-Sigma A/D converter. It shall have a 48 kHz sample rate. It shall have 20 kHz bandwidth. It shall have separate controls for adjusting the input and output levels located on the front of the unit. It shall have an integral security cover to hide the controls which adjust the input and output levels. It shall have a security lock switch, located on the rear of the unit, to protect the delay settings. It shall have a relay for bypass or muting when the power is off. It shall have a frequency response of 10 Hz to 20 kHz, ± 1.5 dB. It shall have a signal to noise ratio of greater than 90 dB. It shall have a total harmonic distortion value of less than

0.015% at 1 kHz. It shall have an electronically balanced input impedance of 15K ohms, with use of transformers optional. It shall have an electronically balanced output impedance of 200 ohms, with use of transformers optional. The maximum input level shall be +25 dBu. The maximum output level shall be +26 dBu (Hi Z load) or +24 dBm (600 ohm load). It shall use a bicolor input level indicator, using green to indicate less than 18 dB of headroom remaining and red to indicate less than 6 dB of headroom remaining. The delay settings shall be stored in nonvolatile EEPROM memory. It shall be 19" wide by 1¾" high by 7¼" deep. It shall weight 7½ pounds. It shall have a single line cord with a 3-prong plug. It shall operate on 120 V AC, 60 Hz, domestic. It shall operate on 220-240 V AC, 50/60 Hz, export. It shall consume 35 watts. The published specifications shall be met or exceeded.

LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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Peavey's liability to the original purchaser for damages for any cause whatsoever and regardless of the form of action, is limited to the actual damages up to the greater of Five Hundred Dollars (\$500) or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. For information on service under this warranty, call a Peavey customer service representative at (601) 483-5376.



Features and specifications subject to change without notice.

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