

## IDL™ 1000



The IDL 1000 is a 2-input, 3-output, multi-tap digital delay line designed primarily for time alignment in multi-speaker sound systems. With 1.35 seconds of delay (over 1/4 mile), the IDL 1000 can align multiple speaker systems in even the largest arenas and stadiums. In the stereo mode, Input “B” and Output 3 form a second delay line that dynamically shares the delay memory. The minimum delay increment of 20.8 microseconds in the IDL 1000 allows alignment of drivers in an array with 1/4” precision.

### Features:

- Two electronically balanced inputs (transformer optional)
- Three electronically balanced outputs (transformer optional)
- Stereo or mono operation
- 1.35 seconds maximum delay time
- 20.8 microseconds minimum delay steps
- 4-digit, 7-segment LED 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
- 48 kHz sample rate
- 20 kHz bandwidth
- Input and output controls with 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 RU 19” rack-mount configuration

## IDL™ 1000

Frequency Response:	+/- 1.6dB 10Hz to 20kHz
Signal to Noise Ratio:	Greater than 90dB
Total Harmonic Distortion:	Less than 0.015% @ 1kHz
Input Impedance:	15k Ohms - Electronically Balanced (transformer optional)
Output Impedance:	200 Ohms - Electronically Balanced (transformer optional)
Maximum Input Level:	+25dBu
Maximum Output Level:	+26dBu (Hi Z Load), +24dBm (600 Ohm Load)
Maximum Delay Time:	Mono 1.35 Sec., Stereo (output 1 or 2 + 3) < or = to 1.35 Sec
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
64xOversampling Decimation:	470 microseconds
Input Level Indicator:	BiColor LED: Green=18dB headroom, Red=6db headroom
A/D Converter:	16 Bit 64xoversampled A/D converter
D/A Converter:	16 Bit Linear
Non-volatile Memory:	Does not require batteries
Security:	Slide cover for input and output controls, rear panel lock switch disables buttons to protect settings, delay settings can still be viewed
Dimensions:	19" W x 7.25" D x 1.75" H (48.3cm x 18.4cm x 4.4cm)
Power Requirements:	Domestic: 120VAC 60Hz, Export: 220-240VAC 50/60Hz
Weight:	7.5 lbs. (3.4 kg)



Logo referenced in Directive 2002/96/EC Annex IV  
(OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005  
The bar is the symbol for marking of new waste and  
is applied only to equipment manufactured after  
13 August 2005



Commercial Audio

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Features and specifications subject to change without notice.

Peavey Electronics Corporation  
5022 Hartley Peavey Drive  
Meridian, MS 39305  
(601) 483-5365 • FAX (601) 486-1278 • www.peavey.com

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