

AD-190
ELECTRONIC DELAY with FLANGER

TIME MACHINE



The new Ibanez AD-190 Time Machine takes advantage of the latest advances in analog delay technology to bring you a unit of outstanding performance at a very modest cost.

Here are some of the features of the AD-190:

In addition, it's packed with these other fine features:

Fully electronic delay with no moving parts, tape transports, magnetic tape, or tape heads to wear out or become noisy.

Newly developed 5120-stage IC's and special variable filter provide a delay range of 20ms to 400ms with excellent signal to noise ratio.

Wide dynamic range complimented by low noise (-85dbm).

Treble equalization of delayed signal ($\pm 12\text{db}$ at 7KHz).

Mixed and delay only outputs expand the versatility to virtually any instrument, sound reinforcement or recording application.

SPECIFICATIONS

DELAY TIME	Delay: 20 ms to 400 ms
	Flanger: 2.56 ms to 12.5 ms
INPUT IMPEDANCE	- 20 dB 500 k Ω
	- 35 dB 500 k Ω
	- 50 dB 5 k Ω
DRY + DELAY/DRY ONLY OUTPUT IMPEDANCE	Less than 5 k Ω
DELAY ONLY OUTPUT IMPEDANCE	Less than 5 k Ω
EQUIVALENT INPUT NOISE	-85 dBm (input shorted IHF A-curve)
POWER	117 VAC 50/60 Hz or 220~240 VAC 50/60 Hz
SIZE	85 mm(H) 3 $\frac{1}{2}$ " \times 340 mm(W) 13 $\frac{1}{2}$ " \times 145 mm(D) 5 $\frac{3}{4}$ "
WEIGHT	2.2 kg
OPTION	Remote footswitch · EIA black rack mount adapter

Ibanez®

FLANGER

FL-301

A breakthrough in circuit design by Ibanez has produced this magical little box - the Ibanez Mini-Flanger FL 301. This flanger offers a wide range of control combined with clean, distortion-free performance and an incredible 100db signal to noise ratio.



In addition, It's packed with these other fine features:

- Using new technology, this unit outperforms nearly any other flanger, but is the most compact and lowest priced on the market.
- New FET electronic switch for completely noiseless and pop-less switching. Because there is no mechanical switching, the unit can be switched with the foot or even with the fingertips.
- LED indicator to visually display the status of the unit and to check the battery.
- External DC (18V) jack for use with AC adaptor.

SPECIFICATIONS

CONTROLS	SPEED, WIDTH, REGEN
SWITCH	NORMAL/EFFECT
INPUT IMPEDANCE	500 k Ω
OUTPUT IMPEDANCE	10 k Ω
EQUIVALENT INPUT NOISE	100 dBm (Input shorted IHF A curve)
DELAY RANGE	2.5 msec ~ 12 msec
CONTROL SPEED	0.05 Hz ~ 11 Hz
MAXIMUM INPUT LEVEL	+ 4 dBm
GAIN	0 dB
BATTERY	5006P 9 Volt 2 required. Or external AC adapter: "AC-18" optional.
SIZE	111 mm \times 60 mm \times 36 mm
WEIGHT	320 g

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