



DELAY TIME
30ms
100ms
300ms
1s
3s
10s
30s
1m
3m
10m
30m

# THE IBANEZ DM1000 DIGITAL DELAY

# UP TO 900 MS OF STUDIO DIGITAL DELAY.

**HEADROOM INDICATOR**  
Displays input level of delay signal (including signal through feedback circuit) from -10 dB to +6 dB.

**TONE**  
Tone control for delay signal  $\pm 12$  dB boost or cut at 6KHz.

**DELAY TIME**  
Fine adjustment of  $\times 0.5 - \times 2$  delay range.

**SPEED (MODULATION)**  
Controls rate of delay time sweep.

**DRY**  
Controls level of dry signal to mix output.



**INPUT**  
For use with instrument or direct line.

**INPUT-PULL/MIC**  
Controls input signal level. Push in for instrument and line levels. Pull out for microphone or other low level applications.

**MSEC (DELAY TIME) RANGE SELECTOR**  
Select delay time range (3.5, 7, 14, 450ms)

**WIDTH (MODULATION)**  
Adjusts amount of delay time shift during sweep.

2

4

6

8

10

1

3

5

7

Ibanez, long known as one of the world's leading manufacturers of studio quality effects units, is pleased to announce the introduction of the DM1000 Digital Delay Processor. Through a new developed encoding-decoding system TSADAS (Time sharing Analog Digital-Analog-system), the DM1000 has established a new standard of excellence in digital sound processing. With the advent of the DM1000, digital delay is now easily within reach of virtually every musician or working studio.

**OUTPUT(MIX)**  
Carries the dry (or bypassed) signal from the input section.

**12**

**BYPASS/EFFECT SWITCH AND LED INDICATOR**

**14**

**POWER SWITCH AND LED INDICATOR**

**16**



**FEEDBACK-PULL INVERT**  
Varries the amount of signal fed back into the delay section and controls the number of repeats. Infinitely variable control. Pulling knob inverts the phase on the feedback signal.

**9**

**DELAY**  
Controls level of delay signal mix output.

**11**

**OUTPUT(INVERT-MIX)**  
Carries combination of delay and dry signal (determined previously through mix section controls 12 and 11)

**13**

**HOLD SWITCH AND INDICATOR**  
For infinite pattern holding (repeat). Pushing switch immediately after phrase is played holds phrase indefinitely.

**15**

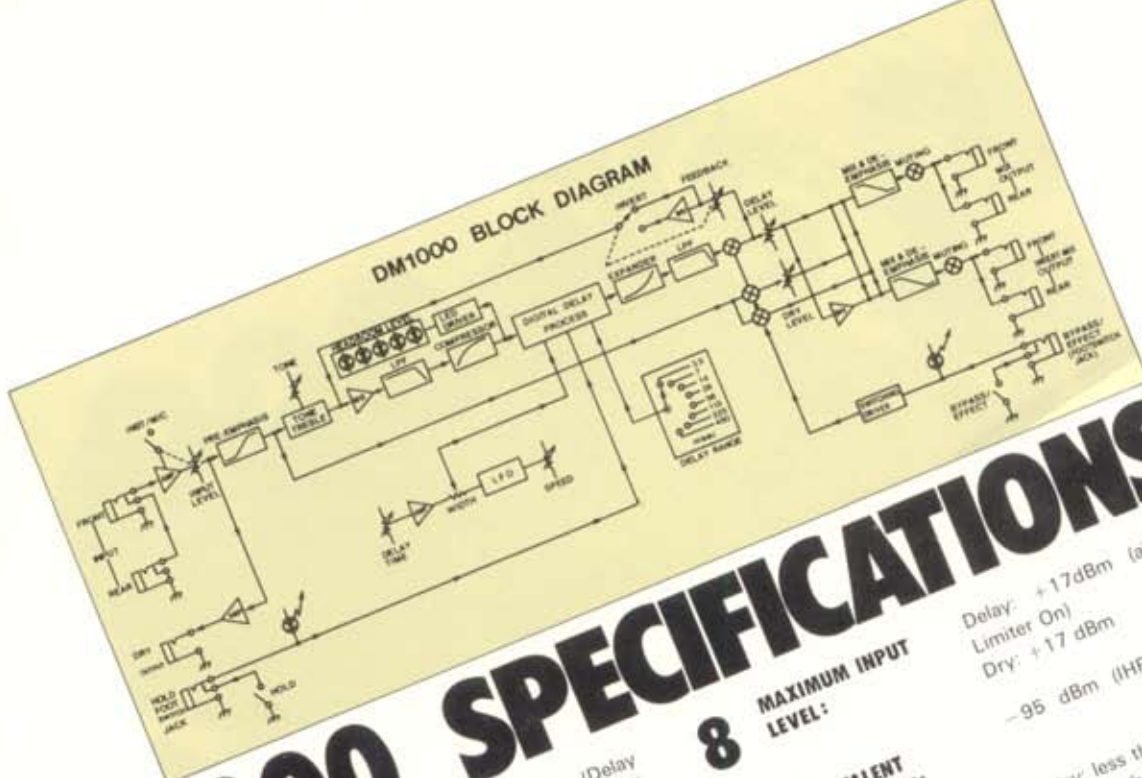
# AT A PRICE WITHIN REACH

**SPECIAL EFFECTS** ▶ An infinitely variable delay time (ranging from 1.75 ms to 900 ms) renders the DM1000 capable of a wide variety of special effects including: doubling, flanging, chorusing, hard reverbation, slap back and long delay. The DM1000 also features a hold switch which permits an audio segment to be repeated infinitely without suffering degeneration of sound quality. When used in conjunction with the long delay setting, an audio segment of up to 900 ms long can be set and held for use as a backing rhythm track or contrapuntal playing. (An optional footswitch is available for operation of this function.)

**APPLICATIONS** ▶ A full range frequency response of up to 8KHz at all delay settings, improved noise reduction circuitry, plus a multipurpose input/output configuration means the DM1000 is ideally suited for all types of P.A., recording and instrumental applications. Housed in a rugged EIA standard 19" cabinet, the DM1000 features a full complement of led indicators (Power on, Infinite hold, Bypass/Effect and Headroom Indicator) the DM1000 will match the performance of other digital delay units costing nearly twice as much.

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## DM1000 BLOCK DIAGRAM



# DM1000 SPECIFICATIONS

**1 CONTROLS:**

Input level, Tone, mSec (Delay Range), Delay Time, Width, Speed, Feedback (Pull Invert), Dry level, Delay level, Effect/Bypass Switch, Hold Switch.

**2 JACK:**

Front: Input, Mix Output, Invert-Mix Output.  
Rear: Input, Dry Output, Mix Output, Invert-Mix Output, Bypass/Effect Footswitch, Hold Footswitch.

**3 DELAY TIME:**

1.75 msec to 900 msec

**4**

**FREQUENCY RESPONSE:**

Delay: 30Hz to 8KHz (+0.5, -3dB)  
Dry: 30Hz to 20KHz (+0, -0.5dB)

**5**

**INPUT CHARACTERISTICS (Front and Rear):**

Instrument: Impedance, 500Kohms, Gain, 0dB  
Microphone: Impedance, 5K ohms, Gain, 30 dB  
Dry, Mix, Invert-Mix: less than 10K ohms.

**6**

**OUTPUT IMPEDANCE (Front and Rear):**

6KHz  $\pm$  12dB

**7**

**OUTPUT / INVERT-MIX**

Carries inverted delay and signal dry.

**OUTPUT DRY**

Carries only dry signal.

**FOOTSWITCH HOLD**  
Footswitch jack for hold function.

**FOOTSWITCH BYPASS-EFFECT**  
Footswitch jack for bypass (dry) effect.

**OUTPUT / MIX**  
Carries delay and dry signal.

**INPUT**  
For Instrument or line input.

**8 MAXIMUM INPUT LEVEL:**

Delay: +17dBm (above +3dBm Limiter On)  
Dry: +17 dBm  
-95 dBm (HF-A, Input-Shorted)

**9 EQUIVALENT INPUT NOISE:**

Delay: less than 1%  
Dry: less than 0.2%

**10 TOTAL HARMONIC DISTORTION:**

3Kg (6.6lbs)

**11 WEIGHT:**

482mm x 44mm x 23mm  
(19" x 1.7" x 0.9")

**12 DIMENSIONS (W x H x D):**

117V 60Hz 11W  
220 to 240V 50Hz 14W

**13 POWER REQUIREMENT:**



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