



# The Ibanez HD1500 Harmonics Delay

Tomorrow's Innovations  
**Ibanez**



## By Popular Request.....

Since the release of the HD1000 the demands on the musician have grown considerably. In response to those demands Ibanez has developed the HD1500. Many recordings released today use some form of harmonization to embellish the sound. This kind of effect has always been a barrier this unique effect can be part of your sound.

### What does the HD1500 have?

The HD1500 has all the features of its predecessor and more! The most outstanding feature is its ability to

create a pitch shift in "real time." This allows you to fatten your instrument's sound, to play musical passages accompanied by a harmony note, and to add an octave pitch above or below. Along with the harmonics section the HD1500 includes a full function digital delay. You can flange and chorus or create small or large room ambiances. With an improved feedback circuit you can develop good hard reverb settings. The HD1500 also features the optional PC40 Preset Controller. The PC40 enables you to store and recall three harmonic pitches (random access), switch between delay and harmonic modes and bypass.

### Ins and outs

The HD1500 provides up to  $\pm 13$  semitones of pitch shift. The processing time is an incredible 30 ms (typically). In the delay section we've developed better modulation and feedback circuits so you can get a rich flange or chorus. Separate dry and mix controls, LED display, and input metering give you one of the most versatile effects available today.

Ibanez is continuing to develop new ideas to assist the musician. With the HD1500 you will find a new experience in sound processing and a key to many of the sounds used today. The Ibanez team has again given you the best in technology and the best in value.

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## Specifications

### INPUT HIGH/LOW

- Low : 50ohms -50dBm Max. at 1kHz
- High : 500ohms -50dBm Max. at 1kHz
- Impedance : 500ohms -50dBm Max. at 1kHz

### OUTPUT

- Effects : 16ohms -50dBm Max. at 1kHz
- Dry : 16ohms -100dBm Max. at 1kHz
- Send : 16ohms -50dBm Max. at 1kHz

### FREQUENCY RESPONSE

Normal (Dry) : 20 — 20kHz

Range	Delay Range	Bandwidth	Delay Step
X1	0 — 125 ms	30 — 8kHz	2ms/Step
X2	0 — 252 ms	30 — 4kHz	4ms/Step
X3	0 — 504 ms	30 — 2kHz	8ms/Step

### HARMONICS

- Harmonics : +1,300 cents
- Harmonics Processing Time : Less than 30 ms

### DISPLAY

- LED Delay/Harmonics : msec, cents
- Input Level : 3 LED ladder

### PC40 PRESET CONTROLLER

- 3 different Harmonics preset
- Delay / On/Off
- Harmonics On/Off
- Bypass/Effect

### FOOT SWITCH

- Bypass/Effect

### EQUIVALENT INPUT NOISE

- 52dBm

### TOTAL HARMONIC DISTORTION

- Effect : Less than 1%
- Dry : Less than 0.2%

### POWER REQUIREMENT

- 120VAC 50Hz 14W
- 220—240VAC 50Hz 14W