The Ibanez HD1500 Harmonics Delay
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 recordists 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 flatten 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 ±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.

Tomorrow's Innovations
## Specifications

<table>
<thead>
<tr>
<th><strong>INPUT</strong></th>
<th>HIGH/LOW</th>
<th><strong>OUTPUT</strong></th>
<th><strong>FREQUENCY RESPONSE</strong></th>
<th><strong>HARMONICS</strong></th>
<th><strong>DISPLAY</strong></th>
<th><strong>PRESET CONTROLLER</strong></th>
<th><strong>FOOTSWITCH</strong></th>
<th><strong>EQUIVALENT INPUT NOISE</strong></th>
<th><strong>TOTAL HARMONIC DISTORTION</strong></th>
<th><strong>POWER REQUIREMENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>5kohms</td>
<td>Effecs</td>
<td>1kohms</td>
<td>Harmonics</td>
<td>LED Delay/Harmonics:</td>
<td>3 different Harmonics preset</td>
<td>Bypass/Effect</td>
<td>-93dBm</td>
<td>Effect: Less than 1%</td>
<td>120VAC 60Hz 14W</td>
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<tr>
<td>High</td>
<td>80kohms</td>
<td>Dry</td>
<td>10kohms</td>
<td>+1300 cents</td>
<td>msec, cents: 5 LED ladder</td>
<td>Delay/On/Off</td>
<td></td>
<td>Dry: Less than 0.2%</td>
<td>220-240VAC 50Hz 14W</td>
<td></td>
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<tr>
<td>Receive</td>
<td>500kohms</td>
<td>Send</td>
<td>6dBm Max. at 1kHz</td>
<td>Harmonics Processing Time: Less than 30 ms</td>
<td></td>
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**Range**
- Normal (Dry): 20 - 20kHz
- X1: 0 - 126ms 30 - 8kHz 2ms/Step
- X2: 0 - 252ms 30 - 4kHz 4ms/Step
- X4: 0 - 504ms 30 - 2kHz 8ms/Step

**PC40 PRESET CONTROLLER**
- Delay/On/Off
- Harmonics On/Off
- Bypass/Effect