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 (+12db at 7KHz).
- Mixed and delay only outputs expand the versatility to virtually any instrument, sound reinforcement or recording application.

**SPECIFICATIONS**

- **Delay Time**: 20 ms to 400 ms
- **Flanger**: 2.56 ms to 12.5 ms
- **Input Impedance**
  - -20 dB: 500 kΩ
  - -35 dB: 500 kΩ
  - -50 dB: 5 kΩ
- **Dry & Delay/Dry Only Output Impedance**
  - Less than 5 kΩ
- **Delay Only Output Impedance**
  - Less than 5 kΩ
- **Equivalent Input Noise**
  - -85 dBm (input shorted 1kHz A-curve)
- **Power**
  - 117VAC 50/60Hz or 220~240VAC 50/60Hz
- **Size**
  - 85 mm(H) x 340 mm(W) 131/4 x 145 mm(D) x 51/2
- **Weight**
  - 22 kg
- **Option**
  - Remote footswitch, EPA black rack mount adapter
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**

<table>
<thead>
<tr>
<th>Controls</th>
<th>Speed, Width, Regen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch</td>
<td>Normal/Effect</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>500 kΩ</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>10 kΩ</td>
</tr>
<tr>
<td>Equivalent Input Noise</td>
<td>100 dBm</td>
</tr>
<tr>
<td>Delay Range</td>
<td>2.5 μsec ~ 12 μsec</td>
</tr>
<tr>
<td>Control Speed</td>
<td>0.05 Hz ~ 11 Hz</td>
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<tr>
<td>Maximum Input Level</td>
<td>4 dB</td>
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<tr>
<td>Gain</td>
<td>0 dB</td>
</tr>
<tr>
<td>Battery</td>
<td>9 Volt 2 required. Or external AC adapter: &quot;AC-18&quot; optional.</td>
</tr>
<tr>
<td>Size</td>
<td>111 mm x 60 mm x 36 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>320 g</td>
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</tbody>
</table>