ELECTRONIC ACCESSORIES

We’re proud to bring you the finest quality electronic accessories in this catalog. Each one is the result of much development by our engineering staff, in the United States, Japan and around the world. Most of our field input comes from musicians, some famous, some not — and our thanks goes out to them for their invaluable assistance in making the best sounding, most durable effects we can.

Art and technology have always had a difficult time coexisting, but we feel that we’ve made the best of the compromise. While some audio products have spec sheets that will dazzle the engineering community, they, “just don’t have that sound that makes you want to go down.” And the sound is what’s all about. Most of the engineers who work on the development of Ibanez effects are also musicians, and believe us, it helps.

So, in a nutshell, our philosophy is to bring you the state-of-the-art in audio products, with the main criteria being warmth of sound and distinction of character.

EFFECTS DEVICES FEATURES

LED INDICATOR

The LED shows normal effect status and battery condition. You can set it on without mistakes and check battery condition at a glance, even on a dimly-lit stage.

BATTERY BOX & BATTERY

The quick-change battery pocket allows battery replacement without tools or tools. Use battery 900F 9V or alkaline MN1604 9V.

AC/DC POWER SYSTEM

All effects operate on 9 Volt DC. You can use batteries or an AC adaptor. To avoid harm and other problems when using an external power source, we recommend you use the good quality AC adaptor which is on the market.

BODY SHAPE & MATERIAL

The durable black laminated case provides protection and electrical shielding. The human engineered slope is 13° for easy foot activation. A rubber pad on the back of the case keeps the effect when you put it.

CIRCUIT BOARD

Ibanez effects circuit boards are designed and built to provide quality, stability and low noise. The miniaturized circuitry is protected by a cover to avoid damage from rough handling. All circuit boards are fully tested and match all input quality control specifications.

NEW 5.1 SWITCH

Using FET technology, the 5.1 provides noise-free switching. The area of the new switch is larger to allow easier switching.

EFFECTS PATCH CABLES

216 6 Inches Short

This Ibanez patch cable is specifically designed for patching and effects pedals. The two right-angle plugs allow you to place your effects cable by side without any wire wrap.

217 18 Inches Short

The Ibanez 217 patch cable is designed to be used with rack mounted effects and other applications where a slightly longer cable run is necessary. The 18-inch cable is supplied with two reinforced straight metal acetal.

DOUBLE MALE PATCH PLUG

4564

When connecting more than one effect, the range of patch cables is when a problem for the musician. Standard size male connectors aren’t much help since the height of input and output jacks are rarely the same. The Ibanez Double Male Patch Plug is offset to allow you to connect virtually any right-hand-up effects together. The solid brass construction assures strength, durability and positive electrical contact.
**Effects Devices**

**PT9 Phaser**

The Ibanez PT9 is a sophisticated 8-range phase shifter that provides studio quality phasing effects in a small and convenient package. In addition to shift speed and width controls, the PT9 features a feedback control that allows you to "loop" the signal, providing added depth and color to the sound.

**Specifications**

- Input Impedance: 500K ohms
- Output Impedance: Less than 10K ohms
- Maximum Input Level: 0 dBm
- Gain: 0 dB
- Speed Range: 0.25 Hz – 7.5 Hz
- Equivalent Input Noise: –80 dBm
- Power Supply: One 9 Volt Battery or external AC adapter
- Size: 124mm(D)x74mm(W)x32mm(H)
- Weight: 580g, 1.3lbs

**FL9 Flanger**

A flanger uses time delay circuitry operated in very short time intervals to produce a tone filtering effect. When these short delay times are varied and mixed with the dry signal, the resulting sweeping effect of flanging is produced. The FL9 features very low noise and high quality output signals. Delay time and width controls are provided to allow the musicians to "place" the flanger anywhere in the audio spectrum.

**Specifications**

- Input Impedance: 500K ohms
- Output Impedance: Less than 10K ohms
- Maximum Input Level: 4 dBm
- Gain: 0 dB
- Delay Time: 1 ms – 12.5 ms
- Speed Range: 0.75 Hz – 12 Hz
- Equivalent Input Noise: –80 dBm
- Power Supply: One 9 Volt Battery or external AC adapter
- Size: 124mm(D)x74mm(W)x32mm(H)
- Weight: 570g, 1.3lbs

**CS9 Stereo Chorus**

Another delay effect is the chrous, by slightly delaying the signal and adding its pitch to a small degree, the effect of two voices or instruments is produced. The CS9 also features stereo output allowing you to use two amplifiers to create a spacey, three-dimensional sound. When using the stereo outputs, one signal is inverted providing a 180° phase shift, allowing an even wider range of sounds.

**Specifications**

- Input Impedance: 500K ohms
- Output Impedance: Less than 10K ohms
- Maximum Input Level: 4 dBm
- Gain: 0 dB
- Delay Time: 3.2 ms – 8.5 ms
- Speed Range: 0.3 Hz – 3.4 Hz
- Equivalent Input Noise: –80 dBm
- Power Supply: One 9 Volt Battery or external AC adapter
- Size: 124mm(D)x74mm(W)x32mm(H)
- Weight: 580g, 1.3lbs

**TS9 Tube Screamer**

Distortion units have always had a problem in delivering a warm, tube-like overdrive. The TS9 Tube Screamer provides dynamic response that delivers the: tube-like distortion. An active tone control gives you complete control over the brightness of the distorted sound.

**Specifications**

- Input Impedance: 500K ohms
- Output Impedance: Less than 10K ohms
- Maximum Output Level: 0 dBm
- Gain: 30 dB
- Equivalent Input Noise: –100 dBm (HF-A)
- Power Supply: One 9 Volt Battery or external AC adapter
- Size: 124mm(D)x74mm(W)x32mm(H)
- Weight: 570g, 1.3lbs

**SD9 Sonic Distortion**

The Ibanez SD9 produces a wide range of distortion effects from soft and gentle to hard and driving. The active tone control provides extra boost or flat response, depending on the setting.

**Specifications**

- Input Impedance: 500K ohms
- Output Impedance: Less than 10K ohms
- Maximum Output Level: 0 dBm
- Gain: 55 dB
- Equivalent Input Noise: –100 dBm (HF-A)
- Power Supply: One 9 Volt Battery or external AC adapter
- Size: 124mm(D)x74mm(W)x32mm(H)
- Weight: 570g, 1.3lbs

**CP9 Compressor/Limiter**

Using a new VCA IC the CPS produces a low noise sound with wide dynamic range. The new Attack Time Control enables you to vary the effect from compression to limiting.

**Specifications**

- Input Impedance: 500K ohms
- Output Impedance: Less than 10K ohms
- Maximum Input Level: +6 dBm
- Gain: 10 dBm
- Comp按下ion Level: 40 dB
- Attack Time: 0.5 ms – 20 ms
- Equivalent Input Noise: –85 dBm (HF-A)
- Power Supply: One 9 Volt Battery or external AC adapter
- Size: 124mm(D)x74mm(W)x32mm(H)
- Weight: 570g, 1.3lbs
**AD9 - ANALOG DELAY**

The Ibanez AD9 is the first high-performance delay unit to be available in a compact package. The extremely low-noise circuit with a sophisticated companion provides quiet operation with wide bandwidth. The AD9 also features mono outputs allowing you to use two amplifiers to create a spacious, three-dimensional sound.

**SPECIFICATIONS**
- **Input Impedance:** 500K ohms
- **Output Impedance:** Less than 10K ohms
- **Maximum Input Level:** +6 dBm
- **Gain:** 0 dB
- **Delay Time:** 10 ms – 300 ms
- **Equivalent Input Noise:** –90 dBm (EPA)
- **Power Supply:** Battery or external AC adapter
- **Size:** 124mm(D) x 74mm(W) 
- **Weight:** 560g (1.2 lbs)

**GE9 - GRAPHIC EQ**

In the search for greater tonal range, guitarists and keyboard players have turned to external equalization. The GE9 provides control in the musical instrument frequency range and with the x150 level control, the GE9 can also be used as a booster.

**SPECIFICATIONS**
- **Input Impedance:** 500K ohms
- **Output Impedance:** Less than 10K ohms
- **Maximum Input Level:** +10 dBm
- **Minimum Output Level:** –3 dBm
- **Frequency Bands:** 100, 300, 1K, 2.2K, 4K
- **Level Control Range:** 15 dB Boost or Cut
- **Equivalent Input Noise:** –100 dBm (EPA)
- **Power Supply:** Battery or external AC adapter
- **Size:** 124mm(D) x 74mm(W) x 33mm(H)
- **Weight:** 560g (1.2 lbs)

**PQ9 - PARAMETRIC EQ**

When the need to select a particular frequency for equalization arises, the Ibanez PQ9 Parametric Equalizer is the top choice. This three band equalizer features an adjustable mid-frequency control that is infinitely variable from 70Hz to 5.5KHz. Each band may be controlled through a 30 dB range (±15 dB) for the utmost in flexibility.

**SPECIFICATIONS**
- **Input Impedance:** 500K ohms
- **Output Impedance:** Less than 10K ohms
- **Low Range Frequency:** 75 Hz
- **Mid/Hi Range Frequency:** 75 Hz – 5.5K Hz
- **High Range Frequency:** 5.5K Hz
- **Control Range:** ±15 dB
- **Equivalent Input Noise:** –90 dBm (EPA)
- **Power Supply:** Battery or external AC adapter
- **Size:** 124mm(D) x 74mm(W) x 33mm(H)
- **Weight:** 560g (1.2 lbs)

**AF9 - AUTO FILTER**

The Ibanez AF9 Auto Filter is the most versatile filter of its type on the market today. Most envelope sensitive filters offer only one sound, but with low-pass, band-pass and high-pass filter capability and high and low range, the AF9 offers you a nearly infinite range of effects.

**SPECIFICATIONS**
- **Input Impedance:** 500K ohms
- **Output Impedance:** Less than 10K ohms
- **Filter Frequency Range:** 60 Hz – 2K Hz
- **High Range:** 800 Hz – 4K Hz
- **Equivalent Input Noise:** –90 dBm
- **Power Supply:** Battery or external AC adapter
- **Size:** 124mm(D) x 74mm(W) x 33mm(H)
- **Weight:** 560g (1.2 lbs)

**84 - DOUBLE SOUND**

The Ibanez Double Sound is a wah wah and distortion unit in combination. The wah wah has the same distinctive features as the Blubber and the distortion mode features a separate on/off switch and distortion and tone balance control.

**SPECIFICATIONS**
- **Input Impedance:** 1M ohms
- **Output Impedance:** Less than 10K ohms
- **Maximum Input Level:** –4 dBm
- **Minimum Output Level:** –10 dBm (EPA)
- **Power Supply:** Battery
- **Size:** 124mm(D) x 74mm(W) x 33mm(H)
- **Weight:** 1.8kg (4.0 lbs)

**93 - BLUBBER**

Wide frequency response and effective level control are two of the main requirements for a good sounding wah wah pedal. The Ibanez Blubber has these and more. The rugged all cast-housing will take plenty of abuse and the potentiometer is protected from dust infiltration.

**SPECIFICATIONS**
- **Input Impedance:** 1M ohms
- **Output Impedance:** Less than 10K ohms
- **Maximum Input Level:** –4 dBm
- **Minimum Output Level:** –10 dBm
- **Power Supply:** Battery
- **Size:** 124mm(D) x 74mm(W) x 33mm(H)
- **Weight:** 1.8kg (4.0 lbs)
The Ibanez UE400 is unique in the world of effects. This rugged, rack-mountable unit houses four of the most popular effects and a convenient switching matrix called Intra-Patch.

The four effects in the UE400—compressor, phaser, overdrive, and stereo chorus/flanger—share the same power supply and are internally connected with the Intra-Patch system. Each effect can be placed anywhere in the "chain" that the player desires. This feature expands the flexibility of the UE400 and allows the player to personalize their sound.

In addition to the four effects, an external effects loop featuring buffered inputs and outputs is provided so that other effects may be connected to the UE400's switching capability.

An outstanding feature of the UE400 is the remote footswitch board. A separate FET footswitch for each effect is provided for easy, noiseless switching. A master footswitch is also incorporated to allow you to preset effects combinations and bring them in and out at the touch of a single switch. The UE400 is truly the most unique effects device on the market today.
The UE405 is the second generation of multi-effects devices from Ibanez. The combination of effects in the UE405 has been specially chosen to suit the needs of guitar players, bassists, keyboard players and sound men alike.

The four effects included in the UE405 — compressor/limiter, stereo chorus, parametric equalizer and analog delay—are often found only in separate rack-mount units. This makes them heavy, cumbersome and expensive. The UE405 puts these four high-performance units in a compact and sensible package.

The remote FET electronic footswitch board contains on and off switches for the individual effects, plus a master switch, which allows the musician to preset any combination of effects and bring them in at the touch of a switch. In addition, both the footboard and main unit feature LED status indicators for each effect.

An external effects loop is provided so that other effects may be connected to the UE405's switching capability.

**Specifications**

<table>
<thead>
<tr>
<th>Compressor/Limiter</th>
<th>1.5 gpm at 400 psi</th>
<th>1.0 gpm at 400 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Level</td>
<td>1.5 gpm at 400 psi</td>
<td>1.0 gpm at 400 psi</td>
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<tr>
<td>Maximum Compressor Ratio</td>
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<td>Master</td>
<td>40 dB</td>
<td>60 dB</td>
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<tr>
<td>Stereo</td>
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<td>60 dB</td>
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<tr>
<td>Analog Delay</td>
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</tr>
<tr>
<td>Digital Memory</td>
<td>40 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>Analog Memory</td>
<td>40 dB</td>
<td>60 dB</td>
</tr>
</tbody>
</table>

**Connection Diagrams**

[Diagram showing connections]
Due to the tremendous strides Ibanez has made in the application of the state-of-the-art in delay technology, the AD100 is a unit of excellent performance at a very reasonable price.

The latest in low-noise circuitry allows Ibanez to publish an amazing -100 dBm noise level. This is equivalent to units costing many times the price of the AD100.

The delay time is infinitely variable from 10 milliseconds to 300 milliseconds, yielding a wide range of effects from slapback to doubling to hard reverberation.

The AD100 also features dry and delay outputs controlled by separate level controls. This opens numerous stereo possibilities to the user.

The AD100 will provide you with a full range of delay effects in a simple, reliable and high performing package.

**Specifications**
- Input Characteristics: 100 kOhms, unbalanced
- Input Jacks: -40 dBm to -6 dBm
- Gain: Less than 10 kOhms, unbalanced
- Volume: 0 dBm
- Power Consumption: 117 VAC 50 Hz 2.1W
- Dimensions: 340 x 162 x 245 (mm)
- Weight: 2.2kg.

**Connection Diagrams**

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**Feature List**
- Peak Level Indicator
- Input Jack
- Input Level Control
- Delay Time Control
- Repeat Control
- Delay Level Control
- Dry Level Control
- Dry Output Jack
- Effect Output Jack
- Normal/Effect Select Jack
- Footswitch Jack
- Power ON/OFF Switch
- Power Indicator
AD202
ANALOG DELAY

The creative use of time delay circuitry can give the player a wide range effects from filtering to long echoes. The Ibanez AD202 utilizes the latest in delay technology combined with a unique switching and ranging system to give you virtually any time delay effect you could want. The mode switch of the AD202 lets you choose between echo, doubling, chorus, flanging, all with stereo capability. The switch automatically ranges the delay circuitry to produce the desired effect, eliminating the need for excessive knob tweaking. Two inputs are provided to allow the use of two microphones or an instrument and a microphone. The input levels are adjustable over a wide range and will accept virtually any signal source. The AD202 is ruggedly built for the road with a heavy-gauge steel cabinet and it will fit into any EIA standard audio rack.

JAY GRAYDON

FRONT PANEL
- CH1 Microphones Input Jack
- CH2 Microphone Input Jack
- Headroom Level Indicator
- CH1 Level Control
- CH2 Level Control
- Tone Control
- Mode Selector Switch
- Delay Time Control
- Modulation Speed Control
- Modulation Width Control
- Regeneration Control
- Band Control
- Dry Only Output Jack
- Effect Output Jack
- Effect Normal/Off Switch
- Power On/Off Switch
- Power Indicator

CONNECTION DIAGRAMS

SPECIFICATIONS
- Input Characteristics
  - Input Impedance: 10 kohms minimum
  - Sensitivity: 250 mV
  - Frequency Range: 30 Hz to 20 kHz
  - Total Harmonic Distortion: 0.05%
  - Unity Gain Frequency: 100 Hz
  - Supply: 117/230 VAC 50/60 Hz

- Output Characteristics
  - Output Impedance: 10 kohms balanced
  - Frequency Response: 40 Hz to 20 kHz
  - Dynamic Range: 90 dB
  - Power Requirements
    - 117 VAC 60 Hz, 6 Amp
    - 230/240 VAC 50 Hz, 6 Amp

- Dimensions: 40 x 24 x 20 cm
- Weight: 3.8 kg
PT9 Phaser
FL9 Flanger
CS9 Stereo Chorus
TS9 Tube Screamer
SD9 Sonic Distortion
CP9 Compressor/Limiter
AD9 Analog Delay
GE9 Graphic EQ
PQ9 Parametric EQ
AF9 Auto Filter
84 Double Sound
93 Blubber
UE400 Multi-Effects Unit
UE405 Multi-Effects Unit
AD100 Analog Delay
AD202 Analog Delay
415 Effects Patch Cable
417 Effects Patch Cable
4564 Double Male Patch Plug

Ibanez electronic accessories are sold and serviced by