

'82

Ibanez

**SOUND
EFFECTS**



Ibanez
TOMORROW'S INNOVATION



ELECTRONIC ACCESSORIES

We're proud to bring you the fine 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 spee sheets that will dazzle the engineering community, they, "just don't have that sound that makes you want to get down." And the sound is what it'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 up without mistakes and check battery condition at a glance, even on a dimly light stage.



BATTERY BOX & BATTERY

The quick charge battery pocket allows battery replacement without tools or coins. Use battery 900P 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 hums and other problems when using an external power source, we use recommend you to use the good quality AC adaptor which is on the market.



BODY SHAPE & MATERIAL

The durable one-piece case provides protection and electrical shielding. The human engineered slope is 12" for easy foot activation. A rubber pad on the back of the case keeps the effect where you put it.



CIRCUIT BOARD

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

NEW Q-1 SWITCH
Using FET technology, the Q-1 provides noise free switching. The area of the new switch is larger to allow easier switching.



EFFECTS PATCH CABLES

215

8 Inches Short

This Ibanez patch cable is specifically designed for switching small effects pedals. The two right-angle shape allow you to place your effects side by side as close as you wish.



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 sleeved with two reinforced straight metal ends.

DOUBLE MALE PATCH PLUG

1964
When connecting more than one effect, the sample of patch cables is often

a problem for the musician. Standard double male adaptors aren't much help, since the heights of input and output jacks are rarely the same. The Ibanez Double Male Patch Plug is offered to allow you to connect virtually any right-angle effect together. The solid brass construction assures strength, durability and positive electrical contact.



EFFECTS DEVICES



PT9 PHASER

The Ibanez PT9 is a sophisticated 6-stage phase shifter that provides studio quality phasing effects in a small and convenient package. In addition to shift speed and width control, the PT9 features a feedback control that allows you to "re-phase" 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 0.28 Hz - 13 Hz
Equivalent Input Noise -80 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 570g, 1.3lbs



FL9 FLANGER

A flanger uses time delay circuitry operated in very short time segments 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 circuitry producing a clean and quiet effect. Delay time and width controls are provided to allow the musician to "place" the flange 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 - 12.8 ms
Speed Range 0.28 Hz - 13 Hz
Equivalent Input Noise -75 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 570g, 1.3lbs



CS9 STEREO CHORUS

Another time delay effect is chorusing. By slightly delaying the signal and blending 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 spacious, three-dimensional sound. When using the stereo outputs, one signal is inserted through 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 Hz
Equivalent Input Noise -120 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 560g, 1.3lbs

EFFECTS DEVICES



TS9 TUBE SCREAMER

Distortion units have always had a problem in delivering a warm, tube-type of overdrive. The TS9 Tube Screamer provides dynamics that duplicate the way tubes distort. 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
Maximum Gain 30 dB
Equivalent Input Noise -100 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(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 boost, bass boost or fat response, depending on the setting.



SPECIFICATIONS

Input Impedance 500K ohms
Output Impedance Less than 10K ohms
Maximum Output Level 0 dBm
Maximum Gain 55 dB
Equivalent Input Noise -100 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 570g, 1.3lbs



CP9 COMPRESSOR/LIMITER

Using a new VCA IC the CP9 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 +5 dBm
Maximum Output Level -10 dBm
Compression Range 40 dB
Attack Time 6 ms - 20 ms
Equivalent Input Noise -85 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 570g, 1.3lbs

EFFECTS DEVICES



AD9 ANALOG DELAY

The Ibanez AD9 is the first high-performance delay unit to be available in such a compact package. The extremely low-noise circuit with a sophisticated compressor provides quiet operation with wide bandwidth. The AD9 also features stereo 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 +5 dBm
Gain 0 dB
Delay Time 10 ms - 300 ms
Equivalent Input Noise -100 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 580g, 1.3lbs



GE9 GRAPHIC EQ

In the search for greater tone range, guitarists and keyboard players have turned to external equalization. The GE9 provides control in the musical instrument frequency range and with the 15dB 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
Maximum Output Level +6 dBm
Frequency Bands 100, 200, 400, 800, 1.6 K, 3.2 K-Hz
Filter Control Range 15 dB Boost or Cut
Level Control Range -100 dBm (IHF-A)
Equivalent Input Noise -85 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 580g, 1.3lbs



PQ9 PARAMETRIC EQ

When the need to select a particular frequency for equalization arises, the Ibanez PQ9 Parametric Equalizer is too obvious. This state-of-the-art equalizer features an adjustable mid-frequency control that is infinitely variable from 75Hz to 5.6KHz. 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
Middle Range Frequency 75 Hz - 5.6K Hz
High Range Frequency 5.6 K Hz
Control Range ±15 dB
Equivalent Input Noise -85 dBm (IHF-A)
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 570g, 1.3lbs

EFFECTS DEVICES



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 ranges, the AF9 offers you a nearly infinite realm of effects.



SPECIFICATIONS

Input Impedance 500K ohms
Output Impedance Less than 10K ohms
Filter Frequency Low Range 100 Hz - 2K Hz
High Range 200 Hz - 4K Hz
Equivalent Input Noise -90 dBm
Power Supply One 9 Volt Battery or external AC adaptor
Size 124mm(D)x74mm(W)
x33mm(H)
Weight 580g, 1.3lbs



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 Rubber 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 100K ohms
Maximum Input Level +4 dBm
Maximum Output Level 10 dBm (Max.)
0 dBm (Dist.)
Equivalent Input Noise -100 dBm (IHF-A)
Power Supply One 9 Volt Battery
Weight 1.5kg, 4.0lbs



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 those and more. The rugged die cast housing will take plenty of abuse and the potentiometer is protected from dust infiltration.



SPECIFICATIONS

Input Impedance 1M ohms
Output Impedance Less than 100K ohms
Maximum Input Level 10 dBm
Maximum Output Level -85 dBm (IHF-A)
Equivalent Input Noise -90 dBm (IHF-A)
Power Supply One 9 Volt Battery
Weight 1.1kg, 2.4lbs

UE400

MULTI-EFFECTS UNIT

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 Insta-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 Insta-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 personally tailor his 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.



DEAN PARKS



FRONT PANEL

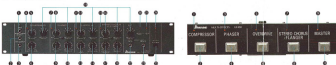
- Input Jack
- Stereo Chorus Output Jack
- Main Output Jack
- Compressor In/Out Indicator
- Sustain Control
- Output Level Control
- Phaser In/Out Indicator
- Insta-Patch Selector
- Width Control
- Feedback Control
- Insta-Patch Selector
- Width Control
- Feedback Control
- Overdrive In/Out Indicator
- Overdrive Control
- Treble Tone Control

- Output Level Control
- Stereo Chorus/Flanger In/Out Indicator
- Speed Control
- Width Control
- Feedback Control
- Insta-Patch Selector
- Master In/Out Indicator
- Ext. Effect Loop Send Jack
- Ext. Effect Loop Receive Jack
- Power Indicator
- Power On/Off Switch

FOOTSWITCH

- Compressor In/Out Indicator
- Compressor In/Out Electronic Switch
- Phaser In/Out Indicator
- Phaser In/Out Electronic Switch
- Overdrive In/Out Indicator
- Overdrive In/Out Electronic Switch
- Stereo Chorus/Flanger In/Out Indicator
- Stereo Chorus/Flanger In/Out Electronic Switch

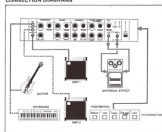
- Master In/Out Indicator
- Master In/Out Electronic Switch



SPECIFICATIONS

- 1) COMPRESSOR**
- Maximum Input Level: +15 dBm at 400 Hz
 - Minimum Output Level: -10 dBm at 400 Hz
 - Maximum Compression Ratio: 20:1
 - Equivalent Input Noise: -85 dBm
 - Frequency Response: 10 Hz - 20 kHz
- 2) PHASER**
- Maximum Input Level: +15 dBm at 400 Hz
 - Gain: 0 dB to -13 dB
 - Equivalent Input Noise: -88 dBm
 - SFR: A Input (Stereo)
- 3) OVERDRIVE**
- Maximum Gain: 20 dB
 - Maximum Output Level: 0 dBm
 - Equivalent Input Noise: -120 dBm
 - SFR: A Input (Stereo)
- 4) STEREO CHORUS/FLANGER**
- Maximum Input Level: +15 dBm at 400 Hz
 - Delay Time: 1.48 msec - 12.8 msec (2 range)
 - Modulation Rate: 0.2 msec - 6.8 msec (2 range)
 - Modulation Depth: 0.2 Hz - 13 Hz (2 range)
 - Frequency Response: 0.2 Hz - 20 kHz (2 range)
 - Gain: 0 dB
 - Equivalent Input Noise: -120 dBm
 - SFR: A Input (Stereo)
- 5) OVERALL**
- Input Impedance: 800 K Ohms
 - Output Impedance: 148 Ohm (S) Output, 10 Ohm (L) Output
 - Stereo Chorus Output: Load Imp. 10 K Ohms
 - External Effect Loop Send: Load Imp. 10 K Ohms
 - External Effect Loop Receive: 800 Ohms
 - Power Requirements: 115V AC, 200V - 240V AC
 - Weight: 4500 (9.9) x 220 (4.5) mm, 3600 (7.9) x 170 (4.3) mm
 - Size: 3.8 x 8.0 x 1.8 in., 1.2 x 2.1 x 1.1 in.
 - Accessories: Remote Footswitch, Connector Card Set

CONNECTION DIAGRAMS



UE405

MULTI-EFFECTS UNIT

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

1) COMPRESSOR/LIMITER

- Maximum Input Level: +15 dBm at 400 Hz
- Output Level Range: -10 dBm to 0 dBm
- Maximum Compression Ratio: 40:1
- Maximum Input Noise: -95 dB
- Attack Time: 8 ms to 20 ms
- Release Time: 30 ms to 20 s (10 s)
- Frequency Response: 10 Hz to 20 kHz

2) STEREO CHORUS

- Maximum Input Level: +15 dBm at 400 Hz
- Delay Time: 0.2 ms to 8.5 ms
- Equalizer Input Noise: -100 dB
- Stereo Spread: 0.9 Hz to 30 Hz

3) PARAMETRIC EQUALIZER

- Maximum Input Level: +15 dBm at 400 Hz
- Maximum Output Level: -80 dBm
- Equalizer Input Noise: 0.9 Hz input threshold: 7 dB, 10 to 12 kHz: 1.5 dB, 15 to 20 kHz: 1.8 dB

4) ANALOG DELAY

- Maximum Input Level: +15 dBm at 400 Hz
- Maximum Output Level: -80 dBm
- Equalizer Input Noise: 10 ms to 300 ms: 1.5 dB, 300 to 1 s: 2.5 dB, 1 s to 10 s: 3.5 dB

5) OVERALL

- Input Impedance: 800 Kohms
- Output Impedance: Less than 10 Kohms
- Stereo Chorus Output: Less than 10 Kohms
- External Effect Loop Send Impedance: Less than 10 Kohms
- External Effect Loop Receive Impedance: 800 Kohms
- Power Requirements: 117V AC, 200 mA @ 100 Hz
- Size: 400 (W) x 140 (D) x 120 (H) mm
- Weight: 3.0 Kg, 6.6 Lbs
- Accessories: Remote Footswitch, Remote Footswitch Interconnection Cord Set, Included

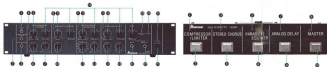
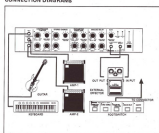
FRONT PANEL

- Input Jack
- Stereo Chorus Output Jack
- Main Output Jack
- Compressor/Limiter In/Out Indicator
- Attack Time Control
- Threshold Control
- Output Level Control
- Stereo Chorus In/Out Indicator
- Speed Control
- Wash Control
- Parametric EQ In/Out Indicator
- Bandwidth Control
- Frequency Control
- Equalization Control
- Analog Delay In/Out Indicator
- Delay Time Control
- Repeat Control
- Stereo Chorus In/Out Electronic Switch
- Stereo Chorus In/Out Indicator
- Stereo Chorus In/Out Electronic Switch
- Parametric EQ In/Out Indicator
- Parametric EQ In/Out Electronic Switch
- Analog Delay In/Out Indicator
- Analog Delay In/Out Electronic Switch
- Master In/Out Indicator
- Master In/Out Electronic Switch

FOOTSWITCH

- Compressor/Limiter In/Out Indicator
- Compressor/Limiter In/Out Electronic Switch
- Stereo Chorus In/Out Indicator
- Stereo Chorus In/Out Electronic Switch
- Parametric EQ In/Out Indicator
- Parametric EQ In/Out Electronic Switch
- Analog Delay In/Out Indicator
- Analog Delay In/Out Electronic Switch
- Master In/Out Indicator
- Master In/Out Electronic Switch

CONNECTION DIAGRAMS



AD100

ANALOG DELAY

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 reverb.

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.



FRONT PANEL

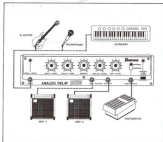
- Peak Level Indicator
- Input Jack
- Input Level Control
- Delay Time Control
- Repeat Control
- Delay Level Control
- Dry Level Control
- Dry Output Jack
- Effect Output Jack
- Normal/Effect Select Switch
- Footswitch Jack
- Power On/Off Switch
- Power Indicator

SPECIFICATIONS

- Input Characteristics
 - Input Impedance 100 Kohms, unbalanced
 - Sensitivity -83 dBm to 0 dBm
- Output Characteristics
 - Output Impedance Less than 10 Kohms, unbalanced
 - Sensitivity -100 dBm (IMP-A Input Shorted)
- Hum and Noise
 - 10 ms - 300 ms, variable
- Delay Time 10 to 300 ms, variable
- Power Requirements 230/240 VAC 50 Hz 2.0 W
- Dimensions 340(W) x 100(H) x 110(D) mm
- Weight 3.0kg, 6.6lbs



CONNECTION DIAGRAM





AD202

ANALOG DELAY

The creative use of time delay circuitry can give the player a wide range of effects from filtering to long echos. The Ibanez AD202 utilizes the latest in delay technology combined with an 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.

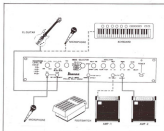


FRONT PANEL

- CH1 Microphone Input Jack
- CH2 Mic/Instrument 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
- Blend Control
- Dry Only Output Jack
- Effect Output Jack
- Effect Normal/Effect Indicator
- Effect Normal/Effect Footswitch Jack
- Power On/Off Switch
- Power Indicator



CONNECTION DIAGRAMS

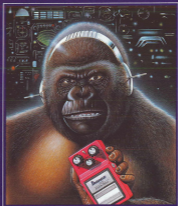


SPECIFICATIONS

- Input Characteristics
 - Channel 1
 - Input Impedance 5 Kohms unbalanced
 - Sensitivity -50 dBm to -30 dBm
 - Channel 2
 - Input Impedance 5 Kohms unbalanced
 - INSTR. 150 Kohms unbalanced
 - MIC. -50 dBm to -30 dBm
 - INSTR. -30 dBm to -10 dBm
- Output Characteristics
 - Output Impedance 12 Kohms unbalanced
 - Output Level 0 dBm
- Delay Time/Frequency Response
 - 0-80 + 2 dB
 - Delay 80 ms - 800 ms/30 Hz - 2 kHz
 - Doubling 12 ms - 75 ms/20 Hz - 7 kHz
 - Stereo Chorus 3.2 ms - 8 ms/10 Hz - 7 kHz
 - Flanger 2.6 ms - 12 ms/30 Hz - 7 kHz
- Hum and Noise
 - Dr. -100 dBm
 - Maximum Input Noise (INSTR.) -80 dBm
 - Maximum Input Noise (MIC.) -117 VAC 60 Hz 5.0W
 - 200/240 VAC 50 Hz 5.0W
 - 90/114/183 (x3) 50 Hz 5.0W
- Power Requirements
- Dimensions
- Weight 3.8kg, 8.5lb



JAY GRAYDON



- PT9 Phaser
- FL9 Flanger
- CS9 Stereo Chorus
- T29 Tube Screamer
- SD9 Sonic Distortion
- CP9 Compressor/Limiter
- AD9 Analog Delay
- GE9 Graphic EQ
- PD9 Parametric EQ
- AF9 Auto Filter
- 84 Double Sound
- 93 Slurder
- 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

Ultanez

These electronic accessories are sold and serviced by

DSC 81180-70,000