

# IBANEZ SIGNAL PROCESSORS

Bance has long been a leader is the field of signal processors — and for good reason. An unprocedered international tans of esgievers, designers and artists have combined their latients to create leads resource that are artlatification that are article their areas artilistically stimulating and electronically reliable. No comporchise have been reads in the quest for the most innovative and desirable signal processors available anywhere.

With the introduction of the Ibanez effects devices a new standard was set for others to follow. Callely and versatility were combined with human engineering to make effects devices sealer to use and more effective than ever before. Signal processing had indeed come out of the dark age. Barez reolutionized the signal processing proteins the UF400 Rad signal processing systems: the UF400 Rad System Sarias and the innovative UE300 Floor System Sarias. The benefits of the system catinized design created a new level of performing weaking, relative, re

Ibanez brings its innovative tradition to pro sound with the introduction of two exciting new displat audio processors. The DM1000 Digital Delay and the HD1000 Harmonies Delay break the price/performance barrier to deliver true studio quality signal reconsulty to the musician, professional soundman and recording enginese.

We at Ibanez invite you to look through our catalog and see just what has made Ibanez a leader in quality and innovation.

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### EFFECTS DEVICES FEATURES



#### LED INDICATOR

An easily visible LED indicates the IN/ OUT status of the device and its battery condition. Vital statistics may be visually checked during setup, avoiding embanasing performance disasters.



### BATTERY COMPARTMENT

The battery may be easily accessed without the use of tools or coins. The compartment protects the battery from mechanical shock and circuit board from battery leakage.



SILENT Q-1 SWITCHING

The Q-1 switching system uses field effect transistors for absolutely silent reliable operation. The smooth action switchplate is enlarged for easy actuation.



### CASE DESIGN

The case has a sloped from, human engineered for comfortable activation of the rwitch while standing or siting. The control knobs are reasoned for protection. A subber pad on the case bottom prevents divice movement during use. The case is made of diservice. Concentration and information X 74mm X S3mm1 and lightweight (\$70b.13.18.b).



CIRCUIT DESIGN

Ibanez Effects Device circuits are stateof-the-art designs providing stable, repeatable performance with low noise. Only top grade components and circuit board materials are used. All friezhed assemblies are fully tosted to rigorous quality assumers apecifications.



### AC/DC POWER CAPABILITY

volta DC, typically from an internal battery. They may also be safely powered by an external AC adapter via the rear mounted power jack,





A phase uses phase all reveaus to create "nother" and "speak" is the signal reactors. When the amount of hears with the stranged the sociale and hears with phase affit networks that provide rich deep phasise for galax, keyboard or bass. The PTP's needs circuit is executionable some within and previder adjustable serves within and previder solutions somewith and previder in the solution somewith and previder in the solution is and the phase of the solution is somewith and phase of phasis doesn's the PTD Phaser- versatility and solution (particular for stage of stadies.

### SPECIFICATIONS

Input Impediance 500K ohms Output Impediance 4K ohms Maximum Imput Lavel 0 dBm Oain 0 dB (nrihy) Sweep Speed Range 008 - 13 Hz Daulwitert Input Police \_\_\_\_002 - 13 Hz







Financial is a time delay effect using wave bart time delay model together with the lense (left) closal. This creates a start of the lense (left) closal time to the left of the left of

### SPECIFICATIONS

 Impetience
 500C chros

 Output Impediatori
 <11C chros</td>

 Maximum Imput Level
 <14 dBm</td>

 Oato
 0 dB Gority

 Delay Timpet Range
 1.0 - 12.8 ms

 Sweep Speed Flange
 - 056 HS (HHF A)







The choice effect uses a small time depth this sixed to produce a sight pitch bend. When the delay sight is mixed with the input lefts sight measures used mores with a rich, thick, used size of the tender of multiple vices playing in union. The CBI bend and the size of the size of the size of the table and the size of the size of the lifet data and size when size the size which contains allow the anist to the size of the size of the lifet data of the size of the lifet data of the size of the size of the contains of the size of the

### SPECIFICATIONS





### TS9 TUBE SCREAMER

The warm and powerful sound of an overdriven table amplifier has legge elided effects denice mean/destructure. The T3D Table Sourme has captured this distinctive sound in a remarkably functional format. The Overdrive costs relative, the Toest control adjusts the statistical powerful and costs and statistical powerful and statistical statistical

#### SPECIFICATIONS







The Discretion sound has been account for urner time now and it's an postfar today as ever. The SDB Sonic Distortion excards on the traditional like of distortion to create a wide new range of possibilities. The Tone control allows the artist to modify the distortion with the art wheth possibility of the tradition of the term of the tradition of the tradition of the term of the tradition of the tradition of the term of the term of the tradition and level of distortion. Versatility and performance — The SDB Sonic Distortion is a cut above.

### SPECIFICATIONS

input impedance	500K ohms
Output Impedance	<10K ohms
Maximum Output Level	
Maximum Gain	+65 dB
Equivalent Input Noise100	(IHF-A)





Comprisency Limitors are very useful driven for increasing views until and driven for increasing views until and one, the attack time of the Compression Limitor was fixed — either you like the way it sound or you old'ru. The CPD Compresses/Limitor test sharatic choose his attack time, then for smooth, eight commot of speak tests of sets the common measurement of the set of the composition attack in the sets the set of the common test provides attack or sets for attack in the common views at attack for the results of the common attack in the common views at attack for the results of views the guiter, keyboard on tasks.

### SPECIFICATIONS

Input Impedance	500K olyms
	<10K ohma
Maximum Input Level	+5 dBm
Meximum Output Level	10 dBm
Compression Renge	40 cm
Attack Time Bange	. 6-20 mi
Equivalent Input Noise85 (	dim (IHF-A)





Disperse schol is can of the mont diversion of the mont diversion of the mont diversion of the month of the scholar part of th

#### SPECIFICATIONS

 Input Impediance
 500K of tmil

 Output Impediance
 <1K of their</td>

 Maximum Impet Lavel
 +6 differ

 Oatin
 0 e8 (scritty)

 Delays Time Renge
 10 - 300 ms

 Exploratest Havel
 100 differ





Equipations and according using the charge the source of vicion, instruments and signal processors such a distortion devices, phasers and time delay effects. They are also widely used is feedback control applications. The GIB Graphic control applications. The GIB Graphic with whose quiet circuity, The GIB uses six controvervice minimum phase shift fitteen for 1548 of boost or out. The Least alider allows the signal level to be adjusted without Gisurding the outer adjusted without Gisurding the world addition to amor motion's vavates.

#### SPECIFICATION

 Input Impairse
 DDD C chmp

 Dorpot Impairse
 -<1K chms</td>

 Maximum Corpot Level
 +10 dBm

 Fibre Costend Regulation
 In costen

 Nature Costend Regulation
 In costend

 Level Costend Regulation
 10 db center determind

 Ald Datamer determind
 -10 db center determind

 Ald Datamer determind
 -10 db center determind

Librardian and a second second



PARAMETRIC EQ

of equalization. Its filter center may be

adjusted over a wide frequency range

allowing the artist to affect a specific

frequency band of interest. This feature

is most useful for getting that very

or signal processors. The PQ9 Parametric

EQ contains a wide-ranging sliding filter

type filters. An infinite number of set-

tings - from mild tonal changes to saturante frequency modifications - and

easily obtainable. The PQ9 Parametric

Input Impedance ...... 500K ohms

Middle Filter Center Range .... 75 - 5.6 KHz

Equivalent Input Noise .... -85 dBm (IHF-A)

MALT AND

SPECIFICATIONS



### AF9 AUTO FILTER

Auto filters are automatic "webveit", type aliding filters bat are troggered by the input level. The AFB Auto Filter has taken that idea serval atops further, types, two alide directions and hose takes regress. The Servicity control adjusts the auto threshold and the Park centrol determines the side width. The chosen fiber's alide action may be placed there AFB alides under for any type of instrument. The AFB Auto Filter truly represents the state of them.

### SPECIFICATIONS



All America and Solar Americ America and Solar A





BITHT IAX



# 84

The cerebiastion of distortion and weiwei effects produces a complex source ortentas produces a complex source centras produces by the distortion are literate by the veh-walk for dynamic control of distortion color. The BH Double Source places a raging distortion stage in a rocker type web-walk pield of unservational comfort and control. Utility and the source of the source of the source functions of the and bettery status. The BH Double Source – unicative versatile and dynamic comference.

### SPECIFICATIONS

inout impedance	
Output Impedance	
Maximum Input Level	4 d5m
Maximum Output Level	
+10 dBm (wah-wah)	0 e8m Idistortion)
Equivalent Input Noise	-100 dBm [IHF-A]
Power Supply	
Weight	1.8 Kg. 4.0 Ibi





**93** BLUBBER

The wainwain peak was one of the first effects to let the mitty unique characterize cores through. No two pieces use the wainwain peak in quite the same ways. The 33 Blubber provides the particle bister of electrical and mechanical control to in the utrian's site energy totally unithibitist. The reder settion takes the maximum contectably through the effect and batters pitch. The single setting the setting the site of the setting the setting the site of the site of the setting the setting the site of the setting the setting the setting the site of the setting the set

### SPECIFICATIONS



### PROFESSIONAL PATCH CABLES AND PLUGS



### 215 6 INCHES SHORT

The Ibansz 215 Patch Cable measures six inches short and features two rightangle mais phone plugs. The configurtion of the 216 permits the musician to place his effects side by side as close as desired. The 216 Patsh Cable may be used with any make of effect. Quality components assure a long-lived connection.

### 217 18 INCHES SHORT

The Ibarniz 217 Patch Cable measures 18 inches short and features two reinforced straight male phone plags. The 217 is ideal for keeping rack connections next and manageable. Professional grade components make the 217 Patch Cable perfect for read or studie use.



### 4564 DOUBLE MALE PATCH PLUG

The litence double male Patch Plug is a unique solution to the problems of interconnecting affects devices without the tangle of cables underload. The 4564 provides two male phone plugary effect device available regardless of jack height. Communication provides the the 4664 Patch Plug will never need repairing.

## IBANEZ MULTI-EFFECTS SYSTEMS

As the existionship between the artist and electronics has matured the professional has seen a need for more sophisticated signal processing capabilities. He needs a system that is easily changed in live situations. It must be compact, easy to set up and yet fite/bite enough to accompetent his particular sound.

Ibanez was first to meet this challenge with the UE400 Rack System Series - professional quality rackmount processor systems. The response was tremendous. The UE400 Series have found their way into professional and semi-pro recording studios PA systems as well as musical instrument systems.

Ibanez continues to lead the way with the UE300 Floor System Series – a hold new format for multi-effect systems. And again, the response has been overwhelming. Clearly the time for Ibanez Multi-Effect Systems has corea.

### UE300 FLOOR SYSTEM SERIES

Each system in the UE300 arise scotaiss three integrated isgall processors and an external location for our with external processors. Each effect or the whole system may be available in and out using the OL silent winkings system. The UE300 Series are AC proceeds and include multiple outputs for dimensional enhancement of the sound. LEO's listicate the status of each enhancement of the sound. LEO's listicate the status of each make the UE300 Floor System Series a winking solution for the peddy weary multiple. Multiple Series a single solution for the peddy weary multiple. Multiple Series as a single solution for the peddy weary multiple.





# UE400 RACK SYSTEM

The UE400 flack System Saries are the next advanced multieffects systems in the indurys, "your ignal morecome and an external loop capability are integrated into the most flexible package available. The lances inturbetch without ing system permits the artist to place each effect in any desired location – no pach oracle are necessary. Changes in the insta-Poth program are upick and easy, giving the artist a versatility never before nations.

Each UE400 System is AC powered and housed in a standard EIA 19 inch rackmeant package. A remote footswitch provides foot control of all effects and system byposs\_EDD's on the rack unit and the remote footswitch indicate the status of each effect, the insta-Patch system and master control. Multiple outputs are provided for enhanced dimensional effects.

The UE400 Rack System Series represents the leading edge of multi-effects system technology – maximum flexibility, easy utilization, and the professional quality that is Ibanez.



### **UE300 FLOOR SYSTEM**

The UE300 Floor System utilizes a powerful trip of processors for guitars or bass. The exceptionally quiet Compressor/ sounds, and the Stereo Chorus, the latest of the UE300. The combination of Comideal for creating smooth, ultra-sustained

artist to place additional processors Chours, Q-1 silent switching is provided UE300 Floor System-today's most desired sounds in today's most advanced design.

Comp/Limit, Compression Ratio 40 dB
Tube Screaver Mex. Gain
itereo Chorus
Time Delay Range
nput Impedance
Input, Effect Receive) 500K ohme
August Impedance
Output 1, 2 and Eff Sendi
Smensions 310(w) x 190(d) x 70(h) mm
Veight
Cover Requirements
117 VAC, 60 Hz, 3.7 W
220 - 240 VAC, 50 Hz, 5.2 W



### **UE303B FLOOR SYSTEM**

The UE3038 Floor System contains the three most popular processors for bass. The versatile Auto Filter for attackdriven automatic filtering the Compressor/Limiter with variable attack time. enhance all of the effects of the UE303B when used with two amplifier systems. insert additional signal processors

Stereo Chorus/Flanger, The 0-1 switching SPECIFICATIONS system provides silent switching of all effects and master control. The UE3038 -the most advanced processor system for bass, keyboards or quitar.

Aato Filter Frequency Range	
50 - 1 KHz (Low Renge)	
100 - 2 KHz (High Range)	
Cerea/Lim Compression Range	
Stereo Chorus/Flanger Delay Range	
1.0 - 12.8 ms (Flanger)	
Input Impedence 3.2 - 8.5 ms (Chorus)	
Unput, Effect Receivel 500 K ohre	
Output Impedance	
(Outputs 1 & 2, Eff Send)	
Dimensions	
Weight	
Power Requirements 120 VAC, 60 Hz, 6W	
220 - 240 VAC, 50 Hz 8W	



### **UE305 FLOOR SYSTEM**

The UE306 Floor System contains three popular signal processors for keyboards Delay for quality echo and hand reverb effects, and the Stereo Chorus for a sairing multidimensional sound. The stereo output enhances all the effects of the LIETOS A third output is presided for etho "nino-nore" afferts or for system branchino. An external loop

between the Compressor/Limiter and Analog Delay allow the control of addisystem is used for silent switching of each section and master control. The UE206 another reason why Ihanez leads the way in signal processing.

#### SPECIFICATIONS

Analog Delay Range ...... 10 - 300 ms Stereo Chorus Delay Range ...... 3.2 - 8.5 ms Output Impedance (Outputs 1, 2, 3 and effect send) ... <1K ohms 220 - 240 VAC, 50 Hz, 7N

### **UE400 RACK SYSTEM**



### **UE405 RACK SYSTEM**



The UE00 Rack System contains four professional signal processors, an external effects loop and the Isst-Patch walkhing data system. The Compressor provides sensors, doer users, the Phaser uses sign phase strengs, the Observice possides a unidanerge of desortions sound and the second barrow for the most popular of time design effects. The source for any desorting attacks of attack starmal loop, allow integration of attack technical barrow for lines the system control The remote facilities backfore of the waters waterbrind to each section of the waters

and master control – allowing the artist to change complex processor combinations at the touch of a switch. The UE400 Rack System with Insta-Patch – the most powerful signal processing metrom available.

#### PECIFICATIONS

 Construction Network
 -00 db

 Provide Stage
 -00 db
 -00 db

 Provide Stage
 -00 db
 -00 db
 -00 db

 Starte Discourt/Share
 -00 db
 -00

The UEGOS Risk System previses loar popular and versatile signal processors along with an external loop capability and Banae's laces Arabehonticitring system. The Compression/Limiter is a low ratios Second Darks growthis a maving facture to the loand and stereo outputs for Hanaout multi-dimensional effects. The Parametric Equalizer is the most wanable provides professional delay effects from provides professional delay effects from loss facility provides the dimensional factors.

additional signal processors at any point in the system. The remote footswitch with silent FET switching provides singletouch control of each section and the entire system. The UE405 Rack System with Insta-Patch – the professionalychoice for signal processing systems.

#### SPECIFICATIONS

Computing Companying Restorm - 40 dB Serrer Donco Device Mary 23 https://www.serrer.flagger 23 https://www.serrer.flagger 24 https://www.serrer.flagger 24 https://www.serrer.flagger 24 https://www.serrer.flagg

220 - 240 VAC, 50 Hz, 9.2 W

12

### IBANEZ PROFESSIONAL PRODUCTS

With the investor of signal processor into muscle, marking, sourd interferements and recording, profesionals have domanded products of the higher quark, fostability, wratefity and goods exceedence professional memory and perhaps forzer direct – the professional memory and perhaps forzer direct – the professional's signal processors budget is almost course on his signal processors budget is almost and a meany threage for first, point part one thos. The professional always looks for the best possible sounds are budget and the processors are not have the profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best profession are not first profession are not first rightcours. He wants the best, profession are not first rightcours. He wants the best profession are not first profession are not first rightcours. He wants the best profession are not first profession are not first rightcours. He wants the best profession are not first profession are not first right profession are not first right profession are not first right profesion

Other factures that professional look for in signal processmen locked standard 10 hind and mount processment locked standard 10 hind and mount Menry professional maticians have adopted the ELA standard 10 look nock system for their graph procession and the standard standard standard requirement and the professional maticians and engine procession and the first standard standard requirement and the ELA standard, so professional standard the standard standard standard standard feetional taxolation. — The standard standard standard feetional taxolation. — The standard standard standard standard standards. — The standard standard standard standard standards. — The standard standard standards and standard standards. — The standard standards standards feetible to standard standards and standards and standards standards standards. — The standard standards standards standards standards and standards s

The design and development town at loaver has longreceptions the development town at loaver has longident. As a result, flavor has developed professional of the professional but creates are professional to the professional but creates are professional because theme Professional Products rights in spatial becomes the professional products rights in spatial becomes the professional and the state of the becomes the professional products rights in spatial becomes the professional professional becomes becomes the professional professional becomes the becomes the professional professional becomes the professional professional becomes the professional professional professional becomes the professional becomes beneral content on the last det ways.

Bit leading-edge sethnology will not help the professional Hix other regularements are ignored. Bankz Professional Products incorporate EIA packaging standards and Industry-standard system Interfaing, While being anys to use, Ibankz Professional Products are extremely versatile. And for audio quality, thry defy comparison with arything in their class.

Reliability, versatility and sonic excellence are the absolute essentials of IBANEZ PROFESSIONAL PRODUCTS.









When delay or "acho" was first used in

music making, tape, tape loops or

recording discs were used to pererate

But another equally profound berefit was realized with the width to solid-store circuitry. The elight manipulation of delay time, now made peosible with analog circuitry, opened the door to a vast range of new sounds. Flungha, cherus, double-tracking, reverb and other new effects came under the professional's control. Finally the full popential of time delay became apparent. The ALD22 Availage Daily picture the full parential of transformation processing laws between the second processing laws devices and the second laws prodenty time since the devices, flargingdevices and the second laws probable second laws program of more defines. The Regn contract substants the interactive all second laws of the second devices and the second laws of the second devices the second laws of the second devices and the second laws of the second laws of the second devices and laws the second laws of the second devices and the second laws of the second devices and the second laws of the second devices and the second devices and the second laws. The ALD200 Availage laws the second laws of the second laws of the second devices and allow the second laws. The ALD200 Availage laws the second laws of the second laws of the second laws. The ALD200 Availage laws of the second laws of the second laws of the second laws. The ALD200 Availage laws of the second laws of the second laws. The ALD200 Availage laws of the second laws of the second laws. The ALD200 Availage laws of the second laws of the second laws of the second laws of the second laws. The ALD200 Availage laws of the second laws of

#### SPECIFICATIONS

Input Impedance INST 100K ohms (Unbelanced) MIC -50 cBm to -30 dBm 1NST -30 dBm to -10 dBm Delay Time Rance/Freq. Response Deley 60 - 400 ma/30 Hz - 2 KHz Doubling 12 - 75 rm/30 Hz - 7 KHz Equivalent Input Noise ...... DRY-100 dBm UHP-A DELAY -85 dBm (IHF-A) Pros Regulations .... 117 VAC. 60 Hz. 6.6 W 220 - 240 VAC 50 Hz 8.0 W Dimensions ...... 482(w) x 98(h) x 232(dmm 

### ANALOG DELAY AD202



# DM1000 DIGITAL DELAY



Been equipar bertrologi wai a 'adiore, 'epit anton' in langu d'ingdiore, 'epit anton' in langu d'ingd'overentier anton and a second second d'overentier anton anton anton d'overentier anton anton anton faith and faith anton anton anton faith and faith anton second anton anton anton anton second anton anton

Such a the care with audio delay time. Digital delays can offer improved electrical performance, such as better danal Is more distortion and conductful They often are more compact, socillatement features and are just a include at older damas, in short, distrat desays affer the best performance value to me professional of any delay system avaibles today.

The LMM100C Digital Dalay marks a new principal remains traditionary for the basety comparison traditionary for the basety comparison works of digital actor ships increase and beams near the food on thight dalays comparison that are clear lines as much, all full functions active lines are much, all full functions active lines that dalays comparison to these tables and baset and work with a work to be and the load results.

The DM1000 features deay time up to 900 millinecords of full & KHz basis with All time delay affects are possible with the DM1000-tang orbits who the DM1000-tang obtain schot, Nard reverb, doctoring attrabending choice and the industry's test scalaffer 3.1 fares. The ammunities protermination of the scalar of th

The DM1000 Digital Delay truly repretents the stext generation of slightl audio tolice lines. We at Iberets battle you to bereative this future today.

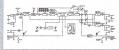
#### REAR PANEL



### SPECIFICATIONS

Delay Time Pange	1.75 - 900 ms Drs 20 - 20 KHz
	Delay 30 - @ KHz
Sweet Modulation Bolic	Commencer Mill
Equivalent indust office -	
Isput impleaded	
LFO Pressence Range .	
ROAM RECEIPTING	
	s 44/hl x 233/dlves
Weg11	

### BLOCK DIAGRAMS



# HD1000 HARMONICS / DEL AY



### gouiltie with a sariable speed tabe

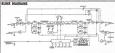
The H01000 Harmonics Divase more function delay! The delay section provides up to 126 millisements at

The HD1000, the cetalt of weers of

### REAR PANEL



	1 and the second second
	at Bindesin
	0 - 604 mer30 Hz - 2 K Hz
	40% 40% 40%
	are the second and the same
frout impedance	
	MIC: \$10 on the unbalanced
	ce toutsut 1, 2
	Nales
	OVS - ACCOUNTS CONCLASSING
	120 VAC. 60 Hr. 10 W
	220 - 240 VAC, 50 HE, 13 W





Stere Chorus
Tabe Screener
Speic Distortion
Compressor/Lincher
Analog Delay
Graphic FO
Parametric ED
Auto Filter
Double Sound
Floor System
Analog Delay



banez electronic accessories sold and serviced by