

**DIGITAL DELAY
DD100**



**DUAL DIGITAL DELAY
DD200**



**1/3 OCTAVE 31BAND EQ
GE131**



PS PERSONAL
STUDIO
RACK SERIES
Ibanez

**2/3 OCTAVE STEREO 15 BAND EQ
GE215**



**STEREO COMPRESSOR/LIMITER
CP200**




**4 BAND PARAMETRIC EQ
PQ104**





CREATIVE CONTROL FOR THE MULTI-TRACK MIND

PS PERSONAL
STUDIO
RACK SERIES
Ibanez



In keeping with the tradition of quality, performance, and price, Ibanez is proud to introduce the Personal Studio Rack Series. This is Line of signal processors includes two digital delays, three equalizers, and a compressor-limiter. These units were designed to fit a wide range of applications, including multi-track recording, instrument amplification racks, and many sound reinforcement situations. All units are of a single rack space (1 3/4inch) compact design, and equipped with both 1/4inch and RCA type jacks, making connections a breeze in any situation. Specifications and quality of the Personal Studio Rack Series rival professional units costing considerably more. These models make it possible for musicians to add the kind of quality and creativity to their music that could only be achieved by top engineers not too long ago. External power supplies (multi-unit chaining) in addition to the most current technology, efficient design and manufacture, are responsible for the low noise, full bandwidth and dynamic range of this series. Whether your application is live or recording and no matter what instrumentation is being used, the Personal Studio Rack Series will provide you with professional signal processing to meet your needs.

Take 1
Key A

QUALITY SIGNAL PROCESSING FOR



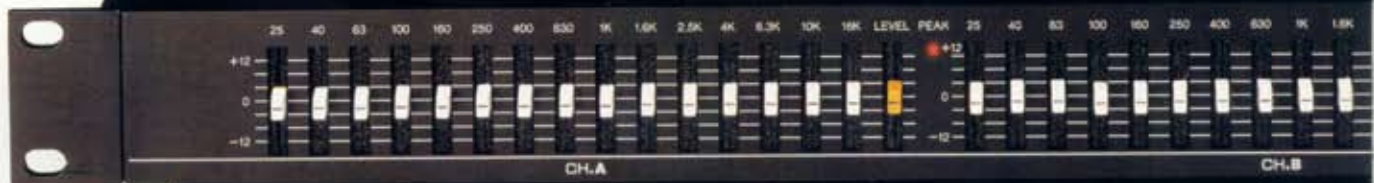
DIGITAL



DUAL DIGITAL



1/3 OCTAVE 31



2/3 OCTAVE STEREO 15



STEREO COMPRESSOR/



4 BAND PARAMETER

R COMPLETE CREATIVE CONTROL



DELAY DD100

DD100 DIGITAL DELAY

- New custom LSI increases the available delay time and expand the bandwidth resulting in a clean, 12 kHz frequency response.
- The Delay Time range from 10 msec. to 4096 msec. in 4 settings. Over 4 seconds of delay available!
- For convenience, 1/4 inch and RCA type inputs and outputs for both home studio and live applications.
- 6 to 1 modulation sweep ratio provides flanging, chorusing and other sweep effects....all in Stereo!



DELAY DD200

DD200 DUAL DIGITAL DELAY

- Same clean, quite performance as the DD100, using the same LSI.
- The DD200 is two fully independent Digital Delays in one single 19 inch rack package.
- Process two tracks of multitrack recording simultaneously, or combine the two channels, for a variety of unique sounds.
- The RMS sensing noise reduction circuitry offers efficient noise reduction, lowering harmonic distortion and increasing dynamic range.
- With the modulation control available in channel A, various modulated effects such as flanging, chorusing, vibrato and doubling are available. "Mix" and "Inverted Mix" allows stereo output when used independently.
- Channel B offers various delay times and "Delay" and "Mix" outputs for independent stereo use. This channel, along with the footswitchable "Bypass", features a versatile "Hold" function.



BAND EQ GE131

GE131 1/3 OCTAVE 31 BAND GRAPHIC EQ

- Full 31 bands of signal control in 1/3 octave increments; center frequencies from 20 Hz to 20 kHz.
- ± 12 dB Boost/Cut range for accurate filter control.
- Peak-reading LED level indicator.
- 19 inch standard single space rackmount format.
- -10 dBv / -20 dBv input level attenuation switch on rear panel.
- 1/4 inch and RCA type inputs and outputs for live and studio operation.



BAND EQ GE215

GE215 2/3 OCTAVE 15 BAND STEREO GRAPHIC EQ

- Two totally independent channels.
- 15 bands of signal control in 2/3 octave increments; center frequencies from 25 Hz to 20 kHz.
- ± 12 dB Boost/Cut range for accurate filter control.
- 19 inch standard single space rackmount format.
- -10 dBv / -20 dBv input level attenuation switch on rear panel.
- 1/4 inch and RCA type inputs and outputs for live and studio operation.



LIMITER CP200

CP200 STEREO COMPRESSOR/LIMITER

- Release time is automatically adjusted by the input level.
- The high quality VCA circuitry features an excellent frequency response to accommodate a wide variety of wide bandwidth signal sources.
- Exceptional low noise, low distortion characteristics.
- 3 point LEDs indicate gain control.
- "Stereo" and "Dual Mono" modes are available for both stereo and mono signal inputs.
- 19 inch standard single space rackmount format.
- 1/4 inch and RCA type inputs and outputs for live and studio operation.



TRIC EQ PQ104

PQ104 4 BAND PARAMETRIC EQ

- Each band offers "Frequency", "Bandwidth" and "Gain" controls.
- Bass and Treble controls are available for total sound shaping.
- Switchable High Pass Filter rolls off 18 dB/octave starting at 40 Hz to protect woofers and amplifiers from harmful low frequency transients.
- 19 inch standard single space rackmount format.
- 1/4 inch and RCA type inputs and outputs for live and studio operation.

SPECIFICATIONS

DD100 DIGITAL DELAY **DC**

DELAY TIME	1: 10 msec~ 64 msec 2: 43 msec~ 256 msec 3: 170 msec~ 1024 msec 4: 683 msec~ 4096 msec
MODULATION SWEEP SPEED	0.06 Hz~13 Hz
MODULATION SWEEP RATIO	1: 6
FREQUENCY RESPONSE	20 Hz~12 kHz (+0, -3 dB)
TOTAL HARMONIC DISTORTION	0.3% (INPUT 400 Hz, -20 dB)
EQUIVALENT INPUT NOISE	-100 dBv (IHF-A INPUT SHORTED)
INPUT IMPEDANCE	1 Mohms (-20 dBv) / (-10 dBv)
OUTPUT IMPEDANCE	1 kohms (-20 dBv) / 5 kohms (-10 dBv)
CURRENT CONSUMPTION	190mA (DC 9V)
DIMENSIONS	482(W)×141(D)×44(H)mm
WEIGHT	1.4 kg

DD200 DUAL DIGITAL DELAY **DC**

CHANNEL A	
DELAY TIME	1: 0.5 msec~ 4 msec 2: 2 msec~ 16 msec 3: 8 msec~ 64 msec 4: 32 msec~ 256 msec
MODULATION SWEEP SPEED	0.06 Hz~13 Hz
MODULATION SWEEP RATIO	1: 8
CHANNEL B	
DELAY TIME (HOLD TIME)	1: 8 msec~ 32 msec 2: 32 msec~ 128 msec 3: 128 msec~ 512 msec 4: 512 msec~ 2048 msec
FREQUENCY RESPONSE	20 Hz~12 kHz (+0, -3 dB)
TOTAL HARMONIC DISTORTION	0.3% (INPUT 400 Hz, -20 dB)
EQUIVALENT INPUT NOISE	-100 dBv (IHF-A INPUT SHORTED)
INPUT IMPEDANCE	1 Mohms (-20 dBv) / 47 kohms (-10 dBv)
OUTPUT IMPEDANCE	1 kohms (-20 dBv) / 5 kohms (-10 dBv)
CURRENT CONSUMPTION	190mA (DC 9V)
DIMENSIONS	482(W)×141(D)×44(H)mm
WEIGHT	1.5 kg

GE131 1/3 OCTAVE 31 BAND GRAPHIC EQ **DC**

FREQUENCY RESPONSE	20 Hz~20 kHz (±1 dB) @ -30 dBv (ALL EQUALIZATION CONTROLS AT FLAT)
EQUIVALENT INPUT NOISE	-105 dBv (-20 dBv) / -95 dBv (-10 dBv) IHF-A (ALL EQUALIZATION CONTROL AT FLAT)
MAXIMUM INPUT LEVEL	+9 dBv @ 1 kHz THD<3%
INPUT IMPEDANCE	1 Mohms (-20 dBv) / 47 kohms (-10 dBv)
OUTPUT IMPEDANCE	LESS THAN 10 kohms
EQUALIZATION CONTROL (1/3 OCTAVE)	CENTER FREQUENCY ±7% (MAX) 20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k RANGE OF BOOST/CUT ±12 dB TURN ON WHEN THE OUTPUT LEVEL REACHES +4 dBv
PEAK INDICATOR	+4 dBv
CURRENT CONSUMPTION	70mA (DC 9V)
DIMENSION	482(W)×132(D)×44(H)mm
WEIGHT	1.4 kg

GE215 2/3 OCTAVE 15 BAND STEREO GRAPHIC EQ **DC**

FREQUENCY RESPONSE	±1 dB 20 Hz~20 kHz @ -30 dBv (ALL EQUALIZATION CONTROLS AT FLAT)
EQUIVALENT INPUT NOISE	-105dBv (-20 dBv) / -98 dBv (-10 dBv) IHF-A (ALL EQUALIZATION CONTROLS AT FLAT)
MAXIMUM INPUT LEVEL	+9dBv @ 1 kHz THD<3%
INPUT IMPEDANCE	1 Mohms (-20 dBv) / 47 kohms (-10dBv)
OUTPUT IMPEDANCE	LESS THAN 10 kohms
EQUALIZATION CONTROL (2/3 OCTAVE)	CENTER FREQUENCY ±7%(MAX) 25, 40, 63, 100, 160, 250, 400, 630, 1k, 1.6k, 2.5k, 4k, 6.3k, 10k, 16k RANGE OF BOOST/CUT ±12dB TRUN ON WHEN THE OUTPUT LEVEL REACHES +4dBv
PEAK INDICATOR	+4dBv
CURRENT CONSUMPTION	80mA (DC 9V)
DIMENSIONS	482(W)×132(D)×44(H)mm
WEIGHT	1.4 kg



DC4 DC CORD

The DC4 operates as an extension cord to power up to 4 "Personal Studio Rack Series" effects from one AC109. Please note that the AC109 and DC4 combination are rated at 200 mA current capacity and exceeding this may damage the effects, or effect their performance.



AC109 AC ADAPTER

The AC109 AC adapter is the optional power supply available for "Personal Studio Rack Series" Effects. It is a 200 mA regulated power supply that is suggested for extended use situations.

NOTE: The use of any AC adapter, other than the AC109 may damage or impede the performance of any "Personal Studio Rack Series" effect.

CP200 STEREO COMPRESSOR/LIMITER **DC**

CHANNEL	2 CHANNEL
MODE	STEREO/DUAL MONO
FREQUENCY RESPONSE	20 Hz~20 kHz (±1 dB)
TOTAL HARMONIC DISTORTION	LESS THAN 0.05% (1 kHz, -10 dBv)
EQUIVALENT INPUT NOISE	-94 dBv (IHF-A)
INPUT IMPEDANCE	500 kohms (-20 dBv) / 30 kohms (-10 dBv)
OUTPUT IMPEDANCE	470ohms
MAXIMUM LIMITING	60 dB
GAIN REDUCTION INDICATOR	3 POINT LED
COMPRESSOR	
THRESHOLD	-40 dBv~0 dBv
RATIO	1: 1~∞: 1
EXPAND NOISE GATE	
THRESHOLD	-60 dBv~0 dBv
RATIO	1: 1~1: 100
THRESHOLD RESPONSE	SOFT KNEE
ATTACK TIME (10 dB)	15 msec~35 msec
RELEASE TIME	25 msec/dB
CURRENT CONSUMPTION	95mA (DC 9V)
DIMENSIONS	482(W)×138(D)×44(H)mm
WEIGHT	1.5 kg

PQ104 4 BAND PARAMETRIC EQ **AC**

INPUT IMPEDANCE	47 kohms
OUTPUT IMPEDANCE	LESS THAN 10 kohms
FREQUENCY RESPONSE	20 Hz~20 kHz (FLAT)
EQUIVALENT INPUT NOISE	-95 dBv (IHF-A, FLAT)
CENTER FREQUENCY	LOW 20 Hz~ 2 kHz LOW-MID 50 Hz~ 5 kHz HIGH-MID 100 Hz~10 kHz HIGH 200 Hz~20 kHz
BANDWIDTH	0.7~4.3 OCT
GAIN LIMIT	±15 dB
CONTROL	INPUT LEVEL×1 FREQUENCY×4 BANDWIDTH×4 GAIN×4 OUTPUT LEVEL×1 TONE BASS 100 Hz±15 dB TREBLE 10 kHz±15 dB
SWITCH	HIGH PASS FILTER (18 dB/OCT AT 40 Hz) EFFECT (NORMAL/PARAMETRIC EQ)
JACK	INPUT (PHONE, PIN) OUTPUT (PHONE, PIN)
INDICATOR	POWER EFFECT IN INPUT LEVEL HIGH PASS FILTER IN
POWER EQUIREMENT	120V AC 60Hz 8W, 220~240V AC 50Hz 10W
DIMENSION	482(W)×222(D)×44(H)mm
WEIGHT	3.0 kg

All Specifications subject to change without notice or obligation.

