

Ibanez
Digitally Controlled Processor



In the late seventies, musical instrument manufacturers introduced programmable digital processors to the market.

Since then nearly all rack mount electric effects have been utilizing digital technology. Digital delays, flangers, and digital reverbs now have more memory, better programmability, better specs, and certainly have become more affordable. Recent breakthroughs in digital technology now allow compact effects to reach a level of sophistication once available only from the most expensive rack mount equipment.

Now, Ibanez introduces three fully programmable Compact Effects:

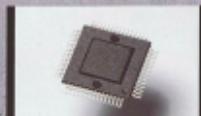
PDM1 Modulation Delay
PDD1 Digital Delay
PDS1 Distortion

TWO CUSTOM LSI

MC4105F DIGITALLY CONTROLLED POTENTIOMETER LSI

VCA technology has been widely used in synthesizers and mixing boards. Unfortunately, high performance VCA chips are generally expensive and don't perform well at lower operating voltages with its 9 volts.

Ibanez has developed a custom LSI which goes beyond VCA technology. This LSI has 6 parameters & different controls, and each parameter has 100 increments to control value.



MC4102 DIGITAL DELAY PROCESSOR LSI

Ibanez introduced UDPC (Ibanez Digital Processing Conversion) LSI two years ago. Now we have improved a new LSI so perform much better than before. 44 dB wide dynamic range and better S/N ratio. It performs equivalent to a 15 bit PCM digital delay system, thus eliminating the need for any analog noise reduction circuitry.



1 10 FACTORY PROGRAMS

Each effect has 10 factory programmed sounds, all of which can be loaded by the user and saved in to a user location.

2 SOUND MODE

Users can create their own sounds by using PARAM & VALUE buttons. In this mode, user can change effect on or off from footswitch. 10 sounds can be stored in the memory location 0 to bypass.

3 PLAY MODE

In play mode user can set up their own sound sequence for each song. Each DCP effect has 10 different banks and patches, so each bank will be able to sequence up to 10 different patches.

4 SEDI (SMALL EFFECT DIGITAL INTERFACE)

Multi pin cable that transmits program change commands to the DCP effects from the DMI4 Master Controller, in addition to providing DC power to individual DCP pedals.



5 COPY MODE

The copy mode enables you to copy a patch to another location. This can save time in programming if you want to make subtle changes to a sound and enter it as a new patch in a new location.

6 FOOTSWITCH

The DCP footswitch performs two different functions:

Sound Mode: When DCP unit is in this mode, footswitch turns effect on/off.

Play Mode: In this mode, footswitch will advance program numbers. You may advance thru all programs or insert an EOP (End of PATCH) command after any program number, in which case you cancel up a sequence of pre-set patches as few as two, or as many as ten.



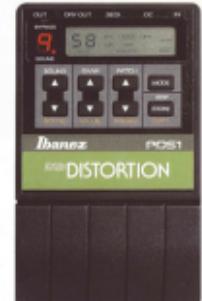
PDM1 | WIDE BANDWIDTH
MODULATION DELAY

PDM1 can provide Chorusing, Flanging, or straight delay. New LSI allows for 16kHz bandwidth without any noise reduction circuitry.



PDD1 | WIDE BANDWIDTH
DELAY

PDD1 is the same as PDM1, but without the modulation section.



PDS1 | WIDE BANDWIDTH
DISTORTION

PDS1 Distortion is basically designed like Ibanez MS10. All filters (such as attack, punch, edge) have been improved to provide more variety in distortion sounds.

SPECIFICATIONS

Input Impedance	100 kΩ
Output Impedance	<1 kΩ
Maximum Input Level	+10 dBV
Minimum Output Level	-10 dBV
Maximum Output Level	+20 dBV
Delay Time Range #1	0.20 ~ 1 msec
Delay Time Range #2	1 ~ 4 msec
Range #3	4 ~ 16 msec
Range #4	16 ~ 256 msec
Range #5	256 ~ 2048 msec
Range #6	2048 ~ 16384 msec
Range #7	16384 ~ 131072 msec
Range #8	131072 ~ 1048576 msec
Range #9	1048576 ~ 8388608 msec
Range #10	8388608 ~ 66536000 msec
Total Harmonic Distortion	<0.005% (0.005%)
Equivalent Input Noise	<0.005 dBV (0.005 dBV)
Feedback	None
Feedback Depth	0 ~ 100%
Feedback Rate	0 ~ 100%
User Preset	9
Factory Preset	10
Footswitch	RC ADAPTER AC 100
Power Supply	AC ADAPTER AC 100
Power Requirement	100 mA (DC 9 V)
Dimensions	160(W) × 96(H) × 40(D) mm
Weight	0.9 kg

SPECIFICATIONS

Input Impedance	100 kΩ
Output Impedance	<1 kΩ
Maximum Input Level	+10 dBV
Minimum Output Level	-10 dBV
Maximum Output Level	+20 dBV
Memory	10
Memory Preset	0
Power Supply	AC 100V
Dimensions	160(W) × 96(H) × 40(D) mm
Weight	0.9 kg



DMI4 | WIDE BANDWIDTH
MIDI INTERFACE



DMI4 | WIDE BANDWIDTH
MIDI INTERFACE

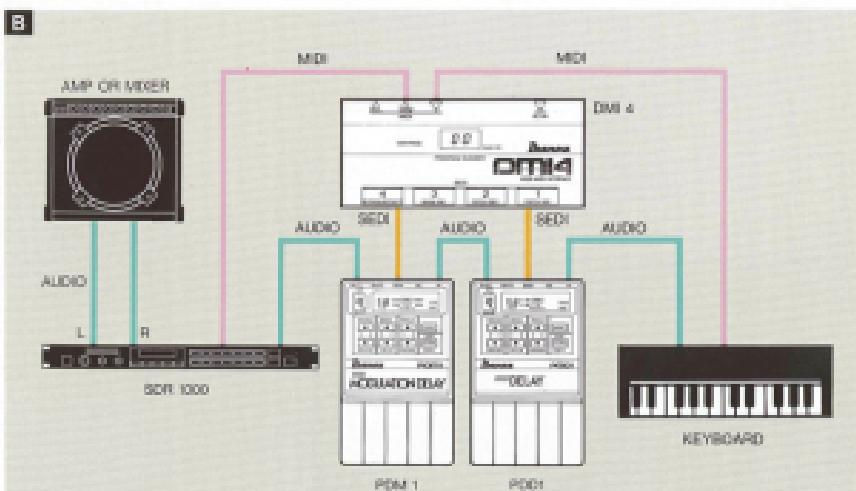
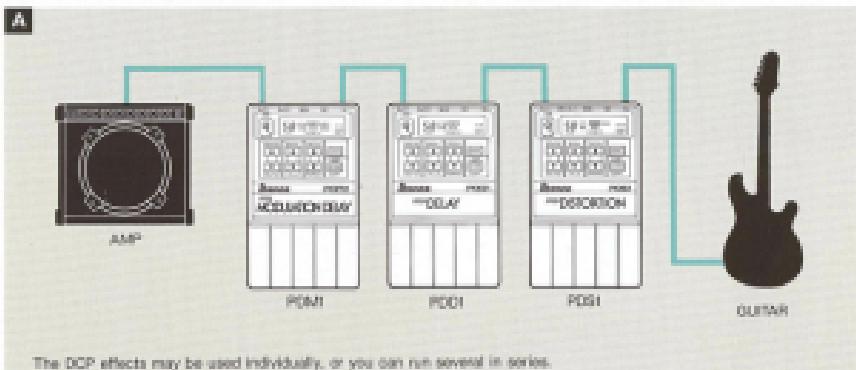
DMI4 is the interface unit for SEDI to MIDI Controller. It has 4 SEDI inputs to accept DCP units, and will send program change information to DCP pedals (from external Midi controller).

Power Supply	AC 100V
Power Requirement	20W
Dimensions	240(W) × 96(H) × 40(D) mm
Weight	0.9 kg
Accessory	AC adapter, SEDI cable, 8x20 mm 10-pins shielded

DCP SYSTEM



All musicians want to be able to recall the exact sound that they want. But, current compact effects don't allow you to do that. Now, the DCP compact effects and DMX 4 make it possible.



ACCESSORIES



SEDI 30 SEDI CABLE

Cable for SEDI (Small Effect Digital Interface). Connect SEDI out of DCP unit to DMI 4 BUS input.



CN404 CONNECTION CABLE

Color connection cable set. 4 inch (10 cm)×4 pcs.

CN104 CONNECTION CABLE

Color connection cable set. 1-1/4 feet (40 cm)×4 pcs.

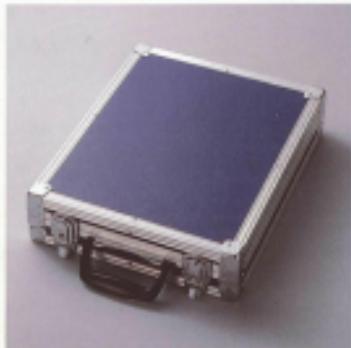


AC109 AC ADAPTER

The AC109 AC adapter is the optional power supply available for all "Power Series" and "DCP" 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 "Power Series" and "DCP" effect.

All specifications subject to change without notice or obligation.



DCP4SC DCP SYSTEM CASE

The case is designed for DMI 4 system.

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