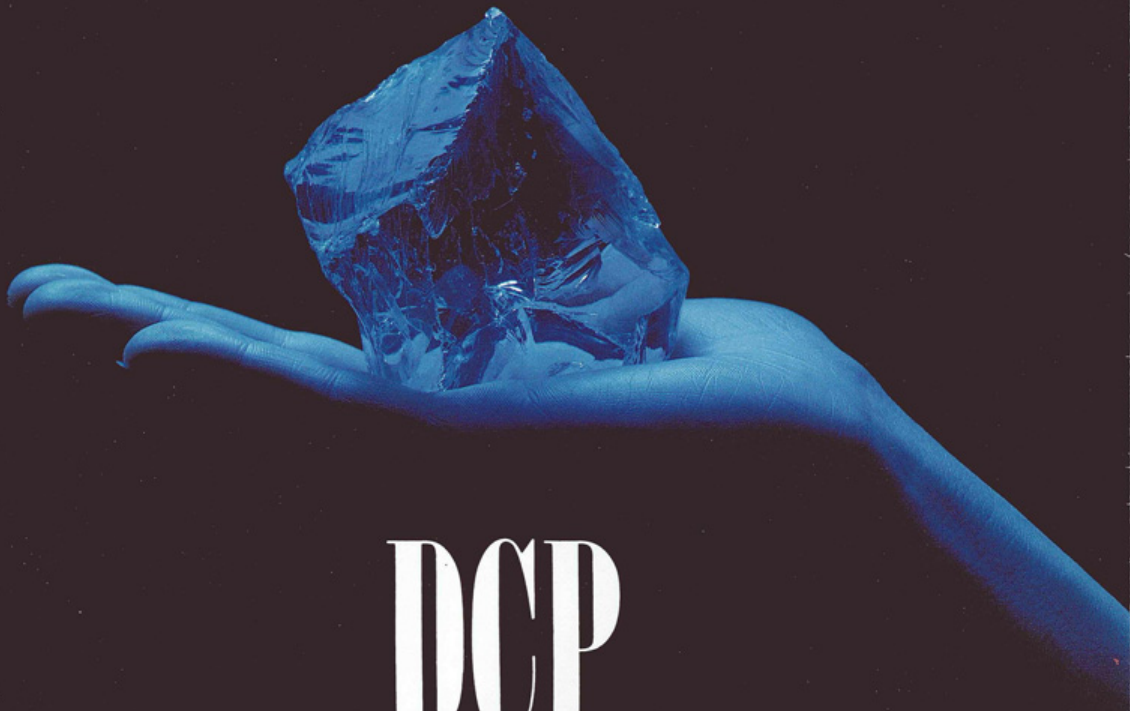


DCP

DIGITALLY CONTROLLED PROCESSOR

Ibanez

DCP

DIGITALLY CONTROLLED PROCESSOR

In the late seventies, musical instrument manufacturers introduced programmable digital processors to the market. Since then, nearly all rack mount electronic effects have been utilizing digital technology. Digital Delays, Pitch Shifters, 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.

FULLY PROGRAMMABLE FUNCTION

All DCP units are fully programmable effects. All parameter values are programmable.

20 SOUNDS AND 100 PROGRAM LOCATION

The effect setting, for example, such as delay, chorus, flange have been programmed on SOUND numbers. There are 20 SOUND numbers consist of 1-bypass, 9-user programs, 10-factory presets that also can be programmed and recalled instantaneously. So, you can get up to 19 effects sound setting. Above 20 sounds will be assigned to 100 program locations that are made up of 10-BANKs and 10-PATCHes. You may think that the BANK numbers are parts of the song which can be, for example, intro., rhythm, solo and rhythm etc...

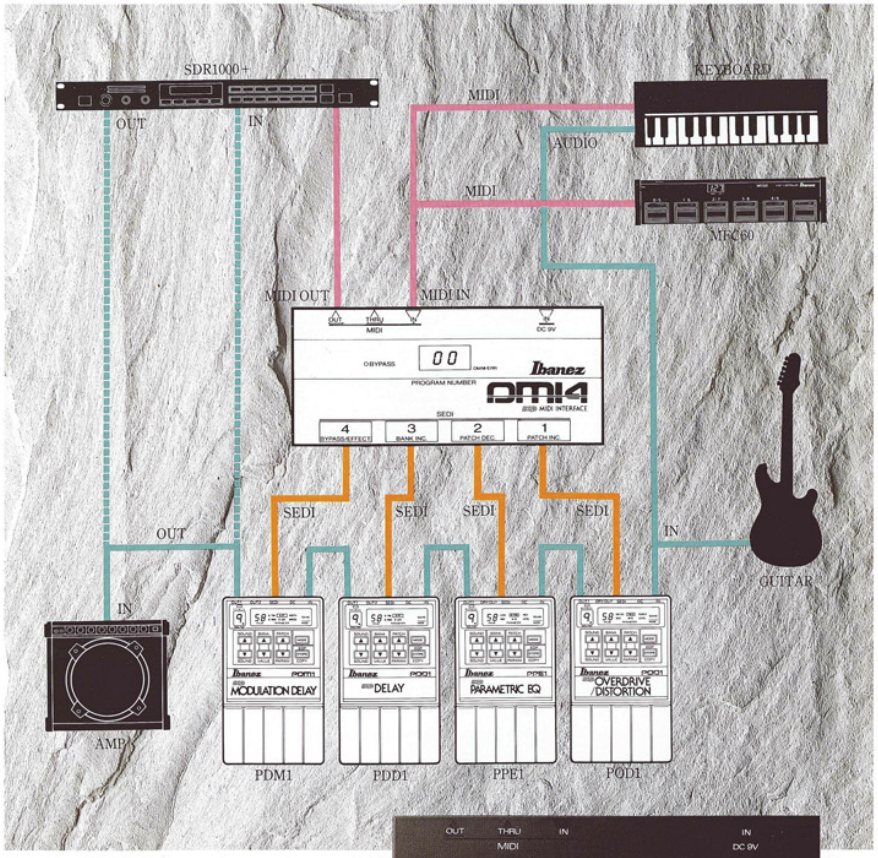
SEDI (SMALL EFFECT DIGITAL INTERFACE)

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

Ibanez

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 DMI4 make it possible.

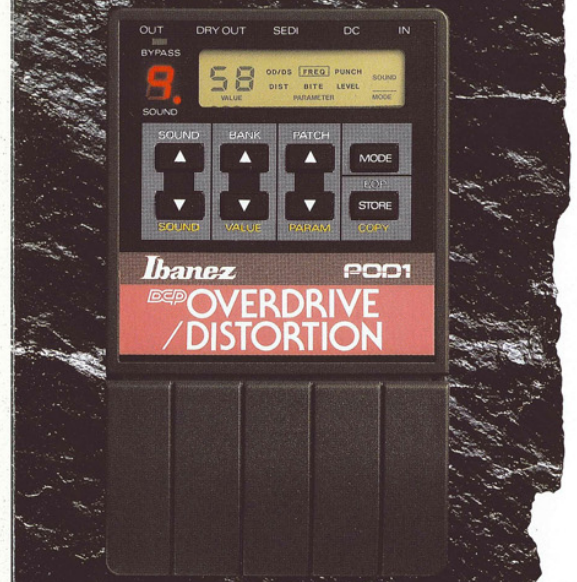


DCP units are primarily designed to work with two or more of together, so DCP units each have SEDI for interfacing with MIDI through the DMI4 (called the DCP SYSTEM). SEDI send and receive program change commands. Also, the DMI4 has the MIDI port; IN, OUT, THRU. So, when DCPs are used with MIDI instruments, you can control the program number both on the MIDI instruments by pushing the DCP footswitch and on the DCP SYSTEM by changing the program number on the MIDI instruments.

DMI4
DCP MIDI INTERFACE

SPECIFICATIONS

Power Supply	AC ADAPTER AC 109
Power Requirement	80 mA
Size	240(W)×108(H)×40(D) mm
Weight	AC adapter, SEDI cable
Accessory	(0.3 m×4) switch sticker



POD1 TUBE SCREAMER +
DCP OVERDRIVE/DISTORTION

The POD1 has two totally independent circuits built in: a special overdrive circuit and an exclusive distortion circuit. With its five sound parameters, the POD1 gives you the kind of sound variations and control that were simply not possible with conventional guitar amplifiers or distortion units — everything from a soft overdrive to extremely powerful hard distortion. First, you select overdrive or distortion by switching between OD and DS. Effect depth is determined with the DIST parameter, while PUNCH and BITE allow control of the bass and treble end of the effect: a low-range equalizer literally lets you achieve PUNCH by boosting the low end, whereas BITE adds just that — a phase exiter gives you control over the treble and harmonic structure of the sound with frequency (FREQ) and depth (BITE) adjustment.
When it comes to distortion sound creativity, the POD1 just can't be beat.

SPECIFICATIONS

Input Impedance	500 KΩ
Output Impedance	<1 KΩ
Maximum Gain	
Overdrive	34 dB
Distortion	57 dB
Equivalent Input Noise	
Overdrive	-110 dBv (IHF-A)
Distortion	-110 dBv (IHF-A)
Memory Size	
Factory Preset	10
User Preset	9
Power Supply	AC ADAPTER AC 109
Power Requirement	60 mA
Size	80(W)×38(H)×132(D) mm
Weight	260 g

PPE1
DCP PARAMETRIC EQ

With middle frequency control covering the incredibly wide range from 100Hz to 9.9kHz in 41 steps of 1/6 octave. Q selection which allows you to determine equalization characteristics, plus independent low (bass) and high (treble) level parameters, the PPE1 is one of the most flexible parametric equalizers around. Also featuring effect level adjustment over a range of ±20dB, it is ideal for a wide variety of applications, from corrective equalization and suppression of howling to truly creative sound processing. Due to a wealth of parameters and superb frequency characteristics that were simply not possible on previous parametric equalizers, the PPE1 offers possibilities of sound variation as well as ease and speed of operation worthy of a first-rate graphic equalizer.

SPECIFICATIONS

Input Impedance	500 KΩ
Output Impedance	<1 KΩ
Low Level	Boost/Cut: ±15 dB
Mid Level	Boost/Cut: ±15 dB
Mid Q	0.5, 2, 5
Mid Frequency	100Hz — 9.9 kHz
High Level	Boost/Cut: ±15 dB
EQ Level	Boost/Cut: ±20 dB
Frequency Response	20 Hz — 20 kHz (+0.5, -3 dB)
Maximum Input Level	+8 dBv
Maximum Output Level	+8 dBv
Total Harmonic Distortion	0.03% (400 Hz, 0 dBv)
Equivalent Input Noise	-96 dBv (IHF-A)
Memory Size	
Factory Preset	10
User Preset	9
Power Supply	AC ADAPTER AC 109
Power Requirement	60 mA
Size	80(W)×38(H)×132(D) mm
Weight	260 g

PDM1 16KHz BANDWIDTH
DCP MODULATION DELAY

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

SPECIFICATIONS

Input Impedance	500 KΩ
Output Impedance	<1 KΩ
Maximum Input Level	+5 dBv
Maximum Output Level	+5 dBv
Delay Time Range 00	0.25 — 1 msec
Range 01	1 — 4 msec
Range 02	4 — 16 msec
Range 03	16 — 64 msec
Range 04	64 — 256 msec
Range 05	256 — 1024 msec
Bandwidth	16 kHz (+0.5, -3 dB)
Sweep Ratio	1 : 4
Speed Range	0.06 Hz — 13 Hz
Total Harmonic Distortion	0.5% (400 Hz, -20 dB)
Equivalent Input Noise	-90 dB (IHF-A)
Memory Size	
Factory Preset	10
User Preset	9
Power Supply	AC ADAPTER AC 109
Power Requirement	150 mA (DC 9 V)
Size	80(W)×42(H)×132(D) mm
Weight	260 g

PDD1 16KHz BANDWIDTH
DCP DELAY

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

SPECIFICATIONS

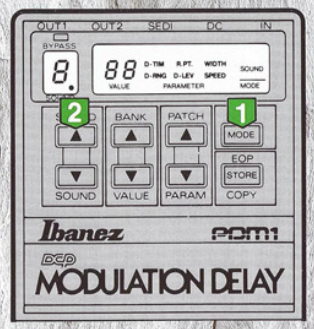
Input Impedance	500 KΩ
Output Impedance	<1 KΩ
Maximum Input Level	+5 dBv
Maximum Output Level	+5 dBv
Delay Time Range 00	1 — 4 msec
Range 01	4 — 16 msec
Range 02	16 — 64 msec
Range 03	64 — 256 msec
Range 04	256 — 1024 msec
Bandwidth	16 kHz (+0.5, -3 dB)
Total Harmonic Distortion	0.5% (400 Hz, -20 dB)
Equivalent Input Noise	-90 dB (IHF-A)
Memory Size	
Factory Preset	10
User Preset	9
Power Supply	AC ADAPTER AC 109
Power Requirement	150 mA (DC 9 V)
Size	80(W)×42(H)×132(D) mm
Weight	260 g

PDS1
DCP 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.

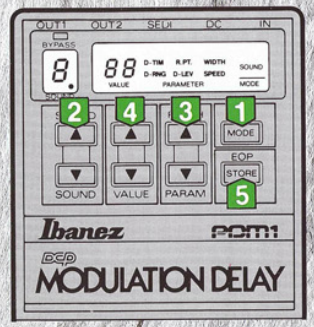
SPECIFICATIONS

Input Impedance	1 MΩ
Output Impedance	<1 KΩ
Maximum Gain	+55 dBv
Equivalent Input Noise	-110 dB (IHF-A)
Memory Size	
Factory Preset	10
User Preset	9
Power Supply	AC ADAPTER AC 109
Power Requirement	100 mA (DC 9 V)
Size	80(W)×42(H)×132(D) mm
Weight	260 g



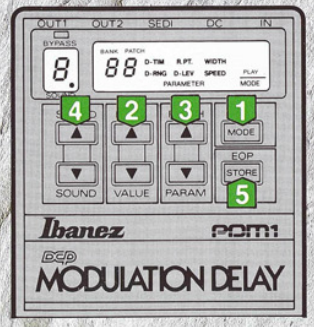
PLAYING A FACTORY SOUND

1. Change to the SOUND mode by pushing the MODE key.
2. Select your favorite Factory sound. If you push the SOUND increment key, the SOUND number on the LED display will change to 0, 1, 2, ... 9, 0., 1., ... 9. This means that you can get 19 different sounds.
   (The SOUND number 0 means BYPASS.)



CREATING YOUR OWN SOUNDS

1. Push the MODE key and change to the SOUND mode.
2. Select the SOUND number you want to edit.
3. Select the PARAMETER you wish to change by pushing the PARAM. keys.
4. Change the VALUE of the PARAMETER by pushing the VALUE keys. (If you want to change another PARAMETER, do 3 , 4 again.)
5. STORE the VALUEs of all PARAMETERs by pushing the STORE key.



SEQUENCING YOUR SOUNDS

1. Change to the PLAY mode by pushing the MODE key.
2. Select a BANK number by pushing the BANK keys.
3. Select a PATCH number by pushing the PATCH keys.
4. Recall the SOUND which you want to assign and push the SOUND keys. (If you want to have the BYPASS in the sequence, recall the SOUND number 0.)
5. Store the SOUND to the BANK-PATCH number and push the STORE key. (If you want to another SOUND to a BANK-PATCH number, do 3 ~ 5 again.)

FACTORY PROGRAM DATA

• PDM1 MODULATION DELAY

SOUND NUMBER	DELAY TIME	DELAY RANGE	REPEAT	DELAY LEVEL	WIDTH	SPEED	NAME
0.	47	05	29	32	01	87	REPEAT ECHO (SOLO MID TEMPO)
1.	73	05	29	20	00	00	LONG ECHO (SLOW SOLO)
2.	14	05	53	22	01	27	SHORT ECHO (SOLO)
3.	34	02	00	70	34	20	CHORUS (BACKING)
4.	44	03	00	99	13	11	DEEP CHORUS
5.	50	03	00	99	00	00	DOUBLING
6.	00	04	68	35	02	27	REFLECTION (SOLO/BACKING)
7.	15	00	86	77	99	02	FLANGING
8.	10	01	80	99	45	14	PHASER
9.	99	05	60	99	80	00	PITCH BEND

• PDD1 DIGITAL DELAY

SOUND NUMBER	DELAY TIME	DELAY RANGE	REPEAT	DELAY LEVEL	NAME
0.	69	04	34	20	LONG ECHO 1
1.	37	04	18	15	LONG ECHO 2
2.	23	04	29	55	MID ECHO
3.	65	03	65	33	SHORT ECHO
4.	50	02	00	99	DOUBLING 1
5.	65	02	00	99	DOUBLING 2
6.	99	04	00	50	SINGLE REPEAT
7.	99	02	58	45	HARD REVERB
8.	99	04	54	75	SOUND ON SOUND
9.	27	02	90	99	STEEL DRUM

• PDS1 DISTORTION

SOUND NUMBER	ATTACK	DISTOR-TION	PUNCH	EDGE	LEVEL	NAME
0.	85	99	70	80	30	DOUBLE STACK
1.	51	99	88	99	20	L.A. MELLOW (SOLO)
2.	99	99	95	22	53	HEAVY METAL (SOLO)
3.	22	90	99	70	20	OVERDRIVE 1 (SOLO)
4.	80	20	81	90	40	OVERDRIVE 2 (BACKING)
5.	65	80	45	70	41	AMERICAN SOUND
6.	80	38	45	80	41	BLUES
7.	20	70	50	94	41	OLD FUZZ
8.	99	99	99	20	30	METAL RHYTHM
9.	90	99	10	99	16	SMALL AMP DISTORTION

• POD1 OVERDRIVE/DIRTORISON

SOUND NUMBER	OD/DS	DIST	FREQ	BITE	PUNCH	LEVEL	NAME
0.	ds	80	15	60	75	18	HEAVY METAL (FULL BOOST)
1.	ds	95	22	32	95	16	TRIPLE STACK
2.	od	90	78	60	48	40	HARD OVERDRIVE 1
3.	ds	30	08	22	45	20	DISTORTION (FAT SOUND)
4.	ds	85	85	76	40	12	DOUBLE DISTORTION
5.	ds	00	60	50	86	30	DIRTY OVERDRIVE
6.	od	78	46	70	45	45	HARD OVERDRIVE 2
7.	od	03	11	16	45	70	TUBE AMP (COMBO)
8.	od	90	15	20	85	40	TUBE AMP (STACK)
9.	od	89	02	60	05	70	FUNKY SMALL AMP

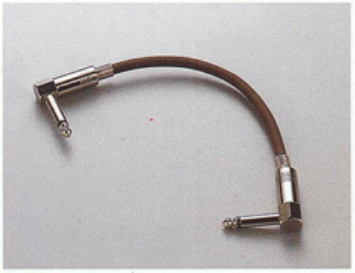
• PPE1 PARAMETER EQ

SOUND NUMBER	LOW	MID	M-FREQ	M-Q	HIGH	LEVEL	NAME
0.	70	80	2.8	0.5	50	33	BASS BOOST FOR SINGLE COIL P.U.
1.	65	15	2.8	0.5	72	68	TREBLE BOOST FOR HUMBACKING P.U.
2.	60	00	4.5	0.5	64	81	EL. ACOUSTIC GUITAR SOUND 1
3.	70	93	2.8	0.5	30	25	MELLOW JAZZ SOUND
4.	40	00	4.5	2.0	95	50	EL. ACOUSTIC GUITAR SOUND 2
5.	56	80	2.5	0.5	00	40	WARM JAZZ SOUND
6.	00	99	10	5.0	75	50	RADIO VOICE
7.	50	70	57	2.0	68	40	LINE REC. 1 (HIGH BOOST)
8.	70	12	8.0	5.0	75	45	LINE REC. 2 (MID CUT)
9.	70	99	20	0.5	69	18	LINE REC. 3 (MID-HIGH BOOST)

ACCESSORIES

SEDI 30
SEDI CABLE

Cable for SEDI (Small Effect Digital Interface), Connect SEDI out of DCP unit to DMI4 BUS input.



PC2
PATCH CORD

130 strands high quality patch cable.

AC109
AC ADAPTER

The AC 109 AC adapter is the optional power supply available for all "Power Series" and "DCP" effects. It is a 200mA regulated power supply that is suggested for extended use situations.

All specifications subject to change without notice or obligation.

IBANEZ ELECTRONIC ACCESSORIES SOLD AND SERVICED BY

Ibanez