

## PMC-580Pro

Professional Mixing Controller



**A scion of the PMC-50, the 24bit full digital mixer of the next generation is now here!**

### INTRODUCTION

A multi effector and LOOP control individually equipped on each program channel along with an effect unit for the MASTER and MIC channel section. The significant layout of the buttons and knobs of the PMC-580Pro enable DJs to control 6 different effects and different parameters all at once. The PMC-580Pro also comes with USB connection, SPDIF digital IO, a new AD/DA analog circuit and 2 band EQ for monitor/booth output as an answer to the demands of NEXT STYLE DJs in the scene.

### FEATURES

6 program multi effectors to garnish the mix and DJ performance.

Each program channel has a 6 effect multi effector with simple controllability, in addition to effects equipped in the MIC and MASTER section. A maximum of 6 different effects can be applied to the sound at the same time, powered by 5 DSP's (Digital Signal Processor) and 3 CPU's, the core parts which make such features possible to be performed.

#### <MIC EFFECTER / 3 EFFECTS>

- Pitch Shift
- Distortion
- MIC Echo

#### <PGM CH EFFECTER / 6 EFFECTS>

- LOOP
- DELAY
- LOW CUT DELAY
- REVERB
- FLANGER
- FILTER SWEEP

#### <MASTER EFFECTER / 11 EFFECTS>

- AUTO LPF (Low Pass Filter)
- AUTO BPF (Band Pass Filter)
- AUTO HPF (High Pass Filter)
- FLANGER
- PHASER
- DELAY
- REVERB
- AUTO PAN
- PITCH SHIFT
- TREMOLO
- PANNING DELAY



## FEATURES

### ● Intuitive effect operation

The PMC-580Pro's effects can be operated with 2 different effect switch modes.

#### <MOMENTARY MODE>

Useful for when you want instant effects on short phrases. The effect will be applied to the sound only while the effect button is pushed.

#### <ALTERNATE MODE>

Useful for when you want to apply effects in to a long mix. The effect will be applied to the sound once the effect button is pushed, and will continue to be until the effect button is pushed again.

Some effects apply to the sound differently regarding the selected effect switch mode.

### ● High quality design for supreme CLUB sound

The PMC-580Pro is loaded with 5 high spec DSP chips. 3 to process effects and 2 for mixing sound signals.

The Enhanced Dual Bit method, a high performance chip technology of ASAHI-KASE is applied to the AD/DA section of the PMC-580Pro, where sound signals are converted between digital and analog. (48 kHz/ 24bit)

The PMC-580Pro is generated by a high capacity institutional power adaptor, which gains the heavy low groove required for supreme CLUB sound. The inter-

nal power supply which produces the sound signal circuit runs on  $\pm 18V$ . With the two combined,  $\pm 24dB$  of headroom is produced (analog output), creating dynamic sound.

HI GAIN TRIM control circuit is a new feature designed to bridge the gap between digital media, MP3s and CD source sound levels.

### ● EQ / ISOLATOR select switch

An EQ/ISOLATOR select switch is located on each program channel to enable DJs to select their preference sound adjustment method in regards of the music they play.

### ● BEAT KEY

BEAT KEY is a feature which operates simultaneously with the auto BOOM counter and TAP BPM counter.

BEAT KEY will control the effects BPM along with the detected BPM of the playing track, selected from: 8, 4, 2, 1, 3/4, 2/3, 1/2, 1/4 and 1/8.

BPM controllable effects:

<PGM>LOOP / DELAY / LOW cut DELAY / FLANGER

<MASTER>AUTO HP, BP, LP / FLANGER / PHASER / DELAY/ AUTO PAN / TREMOLO / PANNING DELAY

### ● INPUT/OUTPUT

The two 44.1k, 48kHz sampling rate digital inputs enable digital connection and provide a sound system with no sound deterioration.

Digital music files can be played from computers and tracks can be recorded to computers via USB input/output, a standard feature for digital mixers. (The USB circuitry of the PMC-580Pro utilizes the driver device within the operating system of the computer and does not require any specific driver to be installed)

### ● OPERATION

Smooth 60mm input faders for high precision mixing.

The reliable Vestax CF-PCV is applied as the cross fader together with fader curve control, suitable for mixing and scratching.

The top panel layout is designed considering the DJ to play intuitively without mixing up the effect section and sound control section during club performance.

Large effect knobs for dynamic effect control.

Input faders and the cross fader can be easily replaced by detaching the section top panel.

#### OPTION

The DX panel, an option item to increase inputs and outputs can be installed to the front panel for DJs who wish to use DJ software with the PMC-580Pro.

### ● CLUB DJ FEATURES

2 Band EQ, STEREO / MONO select switch and CUE / MASTER select on BOOTH OUT and headphones to support the DJ when they're in the mix.

The MIC section comes with a 2 Band EQ and TALKOVER switch for advanced mic performance.

Club standard XLR connection applied to MASTER // BOOTH OUT.

### ● MIC EFFECTER

<3 convenient mic effects >

#### PITCH SHIFT

Modulates the mic sound within  $\pm 1$  octave and changes the voice to a high/low pitch.

#### DISTORTION

Deteriorates the mic sound and creates a distortion effect.

#### MIC ECHO

Applies an echo effect to the mic sound.



## SPECIFICATIONS

### <INPUT / OUTPUT>

- PHONO input RCA PIN JACK
- LINE/CD input RCA PIN JACK
- MIC input COMBO JACK (XLR/PHONE)
- DIGITAL input RCA PIN JACK
- RETURN input RCA PIN JACK
- MASTER output (unbal.) PHONE JACK (bal.) XLR JACK
- BOOTH output (unbal.) PHONE JACK (bal.) XLR JACK
- REC1/2(SEND) output RCA PIN JACK
- DIGITAL output RCA PIN JACK
- PHONES output PHONE JACK
- USB input/output B-type USB JACK

### <GENERAL>

- Power AC-ADAPTOR / AC-20
- Power Consumption- 40 W
- Weight 8.5 kg
- Dimension 326 (W) × 406 (D) × 100 (H)
- Sampling Rate 48kHz
- Mixer part full digital, 32 bit DSP
- Effect part full digital, 24 bit DSP
- CPU 32 bit \* 2, 16 bit \* 3
- ADC 24 bit E-Dual bit
- DELTA-SIGMA 106dB
- DAC 24 bit A-Multi bit
- DELTA-SIGMA 100dB
- S/N Ratio over 75 dBv (JIS-A)
- Distortion less than 0.05%
- Freq response 20Hz - 20kHz  $\pm 3dB$

### <OPTION>

- DX LINE input RCA PIN JACK
- DX LINE output RCA PIN JACK
- SEND 0dBv / over 10k ohm

### <LEVEL>

- INPUT Level / INPUT Impedance
- LINE -10dBv / 18k ohm
- MIC -50dBv / 5.4k ohm
- PHONO -45dBv / 45k ohm
- RETURN 0dBv / 32k ohm
- OUTPUT Level / Impedance
- MASTER 0dBv / over 10k ohm (bal.) over 600 ohm
- BOOTH 0dBv / over 10k ohm (bal.) over 600 ohm
- REC -10dBv / over 10k ohm
- SEND 0dBv / over 10k ohm
- PHONES 190 mW/over 8 ohm/68ohm

### <CHARACTERISTIC>

- PGM Equalizer / Isolator
- <Equalizer>
- HI 10kHz  $\pm 12dB$
- MID 100 - 10kHz  $\pm 12dB$
- LOW 100Hz  $\pm 12dB$
- <Isolator>
- HI 10kHz  $\pm 12dB$
- MID 100 - 10kHz  $\pm 12dB$
- LOW 100Hz  $\pm 12dB$
- MIC Equalizer
- HI 3kHz  $\pm 12dB$
- LOW 100Hz  $\pm 12dB$
- BOOTH/PHONES Equalizer
- HI 10kHz  $\pm 12dB$
- LOW 100Hz  $\pm 12dB$