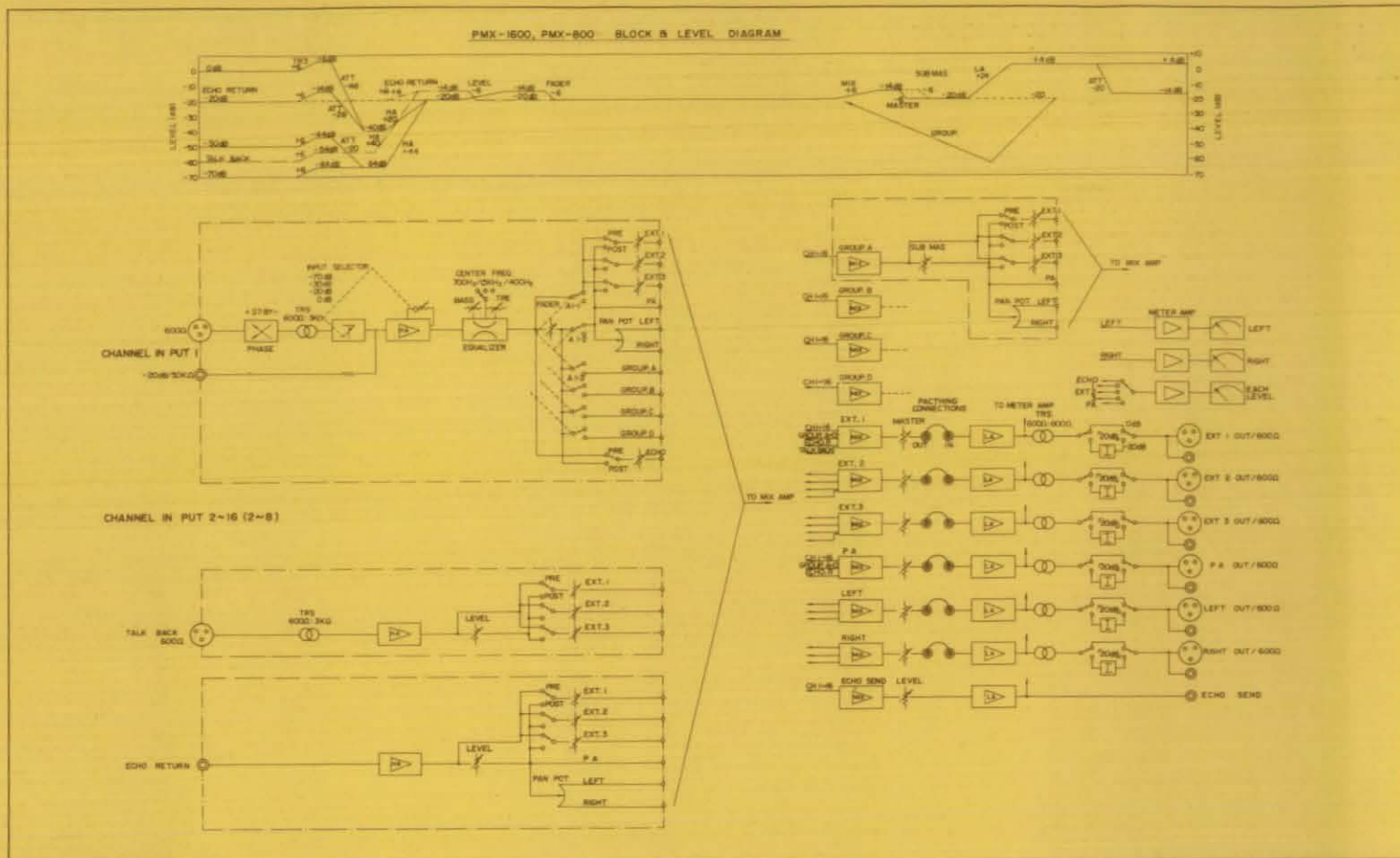


# PMX-1600, PMX-800 BLOCK & LEVEL DIAGRAM



## SPECIFICATIONS

	PMX-1600	PMX-800
<b>INPUT</b>	16 CHANNEL -70 to 0 dbm 600 ohms Balanced	8 CHANNEL -70 to 0 dbm 600 ohms Balanced
LINE INPUT	4 CHANNEL -20 dbm 50K ohms Unbalanced	2 CHANNEL -20 dbm 50K ohms Unbalanced
TALK-BACK MIC INPUT	1 CHANNEL -60 dbm 600 ohms Balanced	1 CHANNEL -60 dbm 600 ohms Balanced
ECHO RETURN	1 CHANNEL -20 dbm 50K ohms Unbalanced	1 CHANNEL -20 dbm 50K ohms Unbalanced
LINE OUTPUT	2 CHANNEL (L&R) +4 dbm, -20 dbm Switchable 600 ohms Balanced	
<b>EXTRA OUTPUT</b>	3 CHANNEL +4 dbm, -20 dbm Switchable 600 ohms Balanced	
PA OUTPUT	1 CHANNEL +4 dbm, -20 dbm Switchable 600 ohms Balanced	
ECHO SEND	1 CHANNEL +4 dbm 3K ohms Unbalanced	
MASTER LINE IN & OUT (PATCHING CONNECTIONS)	6 CHANNEL -20 dbm 10K ohms Unbalanced	
VU METER	LINE OUT (L&R) 2 CHANNEL EXTRA OUT, PA OUT AND ECHO SEND Switchable 1 CHANNEL	
<b>POWER SUPPLY</b>	AC 100V to 240V 50 or 60 Hz 50 VOLT AMPERE	AC 100V to 240V 50 or 60Hz 40 VOLT AMPERE
<b>DIMENSION</b>	W 940 x D 570 x H 190	W 620 x D 570 x H 190
<b>WEIGHT</b>	50 kg (60 kg)	32 kg (39 kg)
<b>NORMAL GAIN</b>	74 db	74 db
Equalizer, Channel Fader and Master Fader Central		
<b>INPUT SATURATION LEVEL</b>	-19.8 dbm	-19.8 dbm
Input Gain at Max		
<b>NOISE REFERRED TO INPUT</b>	-128 dbm	-128 dbm
Equalizer Central Gain at Max		
<b>RESIDUAL NOISE</b>	-68.2 dbm	-68.2 dbm
Channel Fader at Zero		
Master Fader at Max		
<b>MAXIMUM OUTPUT</b>	+25.8 dbm	+25.8 dbm
No Load		
<b>DISTORTION</b>	0.05%	0.05%
Through whole system with output level of +4 dbm		
<b>METERS</b>	OVU = +4 dbm	OVU = +4 dbm

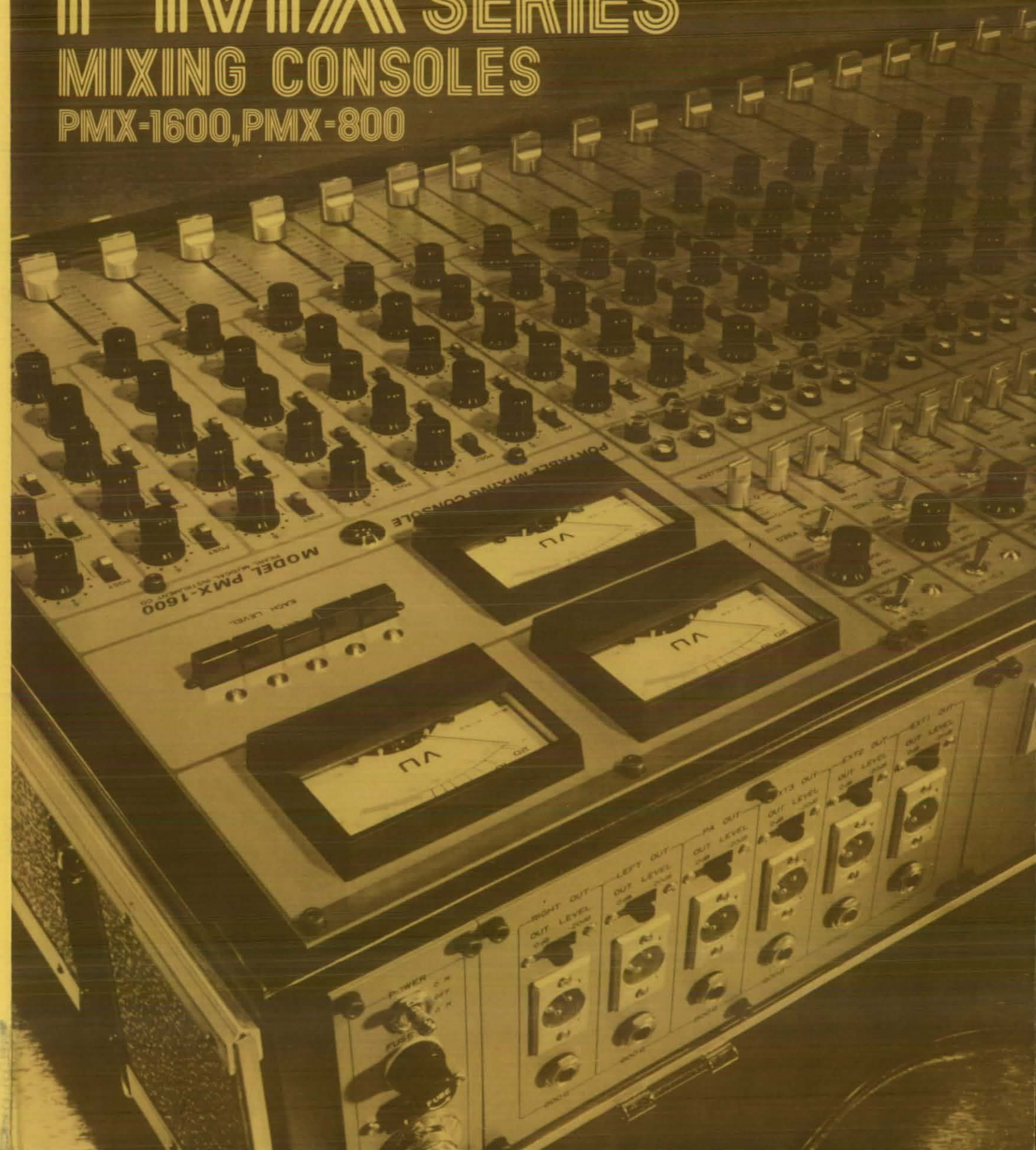
**Pearl** PEARL MUSICAL INSTRUMENT CO.  
2-1, 10-CHOME, YACHIYODAI-NISHI,  
YACHIYO-SHI, CHIBA Pref., JAPAN

Printed in Japan

# PMMIX SERIES

## MIXING CONSOLES

### PMX-1600, PMX-800



# PORTABLE MIXING CONSOLE PMX-1600, PMX-800

PMX Mixing Console is the new compact, portable and highly facilitating console with the additional functions above those consoles used mainly for PA system and Recordings. These ideal PMX series have the following special feature:

## FEATURE

### 1. Main feature in Channel Module:

Input 4 levels switchable attenuators, Input phase switch, cross-over frequency 3 points switchable equalizer, Pan-pot. In addition to the above features contains 4 Grouping Circuits; any of each channel can be grouped into these main 4 Grouping Circuits.

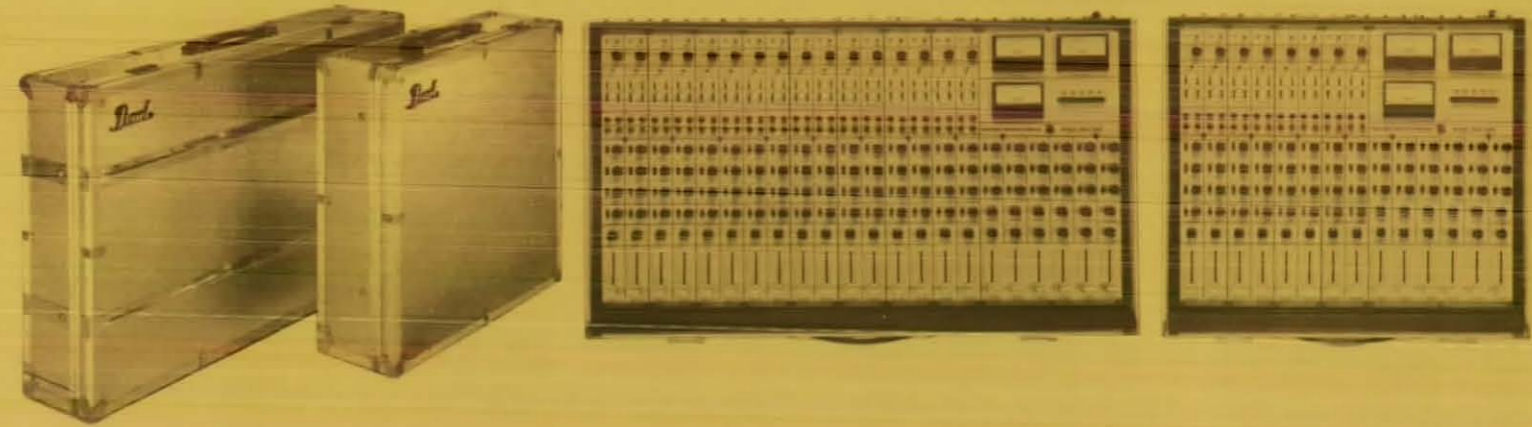
### 2. Output facilities:

6 Outputs and 1 Echo send include:  
2 line outs, 3 extra line outs and 1 PA out. These lineups are functionally sufficient to perform PA, Recording and all other purposes.

The channels distributed to each output is controlled by volume, and with the simultaneous use of pre-post switch enables the manipulation from the most complex and elaborate mixing to flip touch mixing. Effect connection and output changing are acquired simply by use of the rear patching connection.

### 3. Special design:

This compact mixer, built into an aluminum flight case with the sturdy and durable construction offers the attractive design and color on mixing board.



## CHANNEL MODULE

- **PHASE SWITCH** At + side set identical phase and ordinary use. At - side set reversed phase and substitutable the reversed phase input. At ST-BY the input is cut off.

- **INPUT SELECTOR** 4-position switch for different levels of input sources. **EQUALIZER** Controls the treble and bass. The center position is flat.

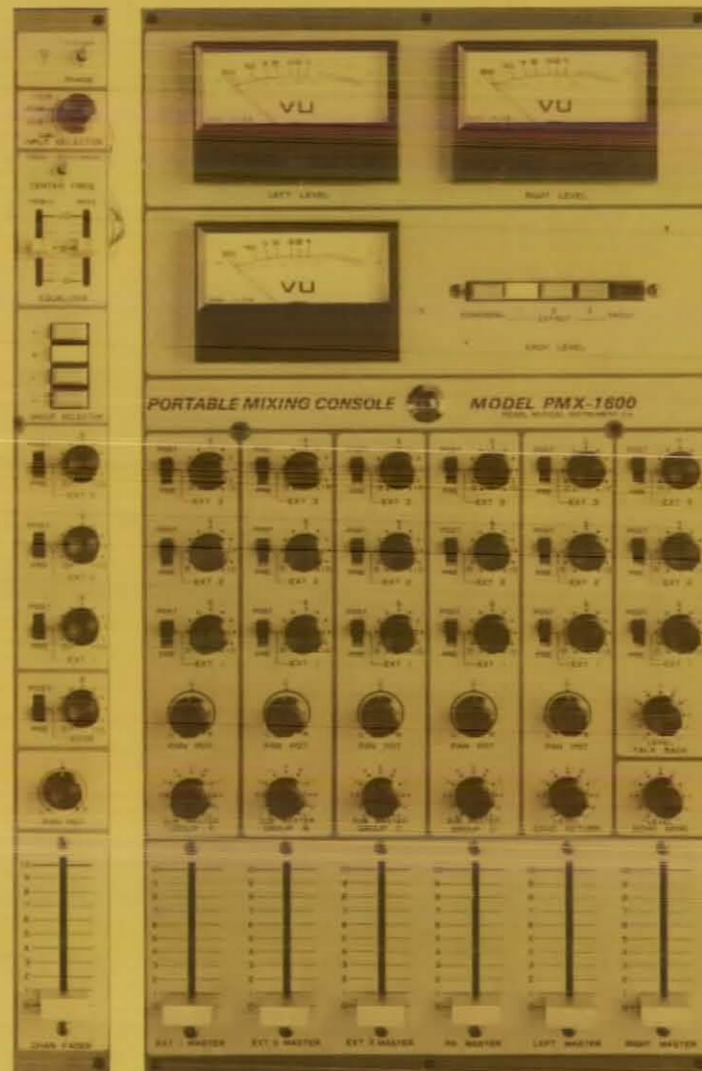
- **EQUALIZER CENTER FREQUENCY** The cross-over frequency of equalizer for being used according to frequency distribution of the said input source. That is, 1.5KHz for the input source with high frequency distribution, 700KHz for the input source with medium frequency distribution, and 400KHz for the input source with low frequency distribution.

- **GROUP SELECTOR** When input source requires the use of sub-mixers, for example, drum sound picked up by several microphones, then this group selector is used. There are 4 circuits, A, B, C and D. If A is pushed down, the cue send of the post Chan Fader except echo is cut off, then the signal automatically is sent to the Group A of the master module.

- **ECHO, EXT 1, 2 AND 3.** Control the cue send volume to each output of the signal in this channel. The each of these volumes has pre-post switch, and at the pre-position the signal is set to send pre Chan Fader, then controllable the cue send volume without relation to the Chan Fader operation. At the post-position, on the other hand, the signal is set to send post Chan Fader and controllable the cue send volume by operating the Chan Fader.

- **PAN POT** Distributes the cue send volume to the right-out and left-out for stereo recording use. The position C balances right and left.

- **CHAN FADER** Controls the cue send volume of the channel.



## MASTER MODULE

- **GROUP A - D** When the group selector of the channel module is switched on, the cue send of the Pan Pot, Ext 1, 2 and 3 are connected to these groups. The operation is the same as the channel module. The sub-master volume controls the total level of the group.

- **ECHO SEND** Controls the final cue send volume of the total signals which sent from each channel module by echo volume.

- **ECHO RETURN** The delayed signal sent from the echo machine is adjusted to proper level, and distributed to required output. The cue send is the same as the case of the channel module.

- **TALK BACK** Controls the talk back volume and the cue send volume to each output of Ext 1, 2 and 3.

- **EXT 1 MASTER, EXT 2 MASTER, EXT 3 MASTER, PA MASTER, RIGHT MASTER AND LEFT MASTER** Control the final cue send volume to each 6 outputs.

- **VU METER (OVU = +4db)** The right out and the left out have its independent VU meter. Echo Send, Ext 1 Out, Ext 2 Out, Ext 3 Out and PA Out enable to observe each send level by switching.

## INPUT PANEL

### OUTPUT LEVEL

#### OUT LEVEL

Standard out level can be set at 0db or -20db. Output terminal can be used by both Cannon plug or Stereophone plug.

- **CHANNEL INPUT/600Ω**

1-16 Balanced input terminal.

- **-20db/50KΩ**

1-4 Unbalanced input terminal. This input is directly made without any relation to phase switch and input selector.

- **TALK BACK**

Talk back input terminal.

## OUTPUT PANEL

### POWER PANEL

Power switch supplies the entire power to the mixer. Accessory power chord can be connected to this module for power supply.

- **ECHO RETURN & ECHO SEND**

Connection terminal for Echo machine.

- **PATCHING CONNECTION**

Used for back line intermediate connection or changes. Example: When EXT 1 out is connected to PA-IN, the signal of EXT 1 will go through PA LINEAMP and picked out from PA OUT. In addition, each LINEAMP for any sound effector use, the signal can be sent. Input and output levels are -20db/10KΩ.

