

## MP6906

### Conference Mixer Amplifier with 6 Mic Input and EQ Control

(60W)



#### Description

This Mixing amplifier is 70V, 100V & 16Ω and rated at 60W. It has 4 line inputs, 1 line output, and 6 microphone inputs. 4 audio source channels can be selected automatically. With mute function, easy to override the normal playing. With built-in chime generator, and the chime output volume is adjustable.

#### Features

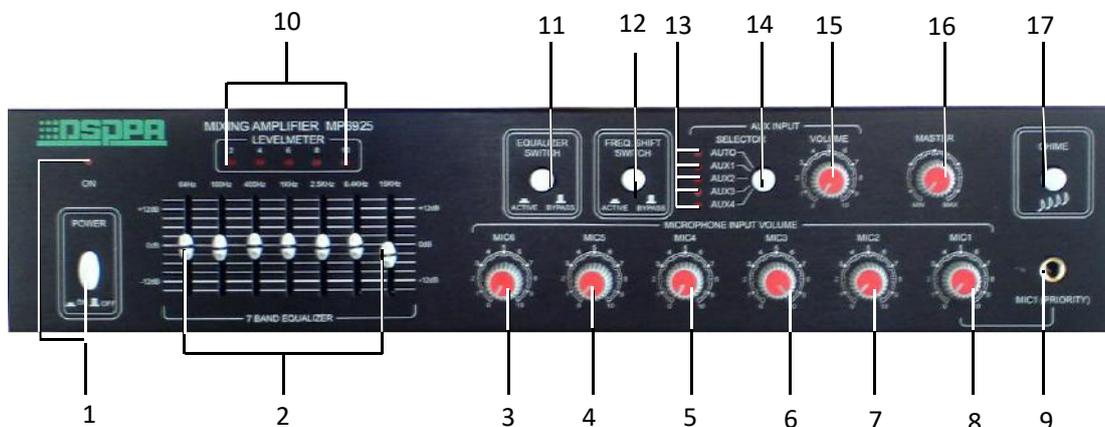
- Convenient and reliable operation mode, integrated functional design.
- 4 line inputs, a line output, 6 microphone inputs (balanced with 24 V phantom power supply).
- 4 audio source channels can be selected automatically by their priority level.
- With mute function, easy to override the normal playing.
- With microphone frequency shift function, and the range of shifted frequency is adjustable.
- With built-in chime generator, and the chime output volume is adjustable.
- The volume of microphones and the audio source channels can be controlled independently, but with a master controller to control the total volume.
- 7-band equalizer, and the adjustment is convenient. The active/bypass option for equalizer is provided to select the output mode.
- With 100 V and 70 V rated voltage output, 4-16 Ω rated resistance output.

#### Specifications

Model	MP6906
Rated output power	60W
Output voltage adjust	Less than 3dB, from off-load to full load
Input sensitivity	Microphone : 2.5mV(±0.5mV) (unbalance input) Microphone : 2.5mV(±0.5mV) (balance input) Wiring : 250mV(±50mV)
Frequency response	50Hz-20kHz (±3dB)
Total harmonic distortion	Less than 1% (1kHz, 1/3 rated output voltage)
S/N ratio (A weighted)	Microphone: Greater than 75dB Wiring: Greater than 85dB

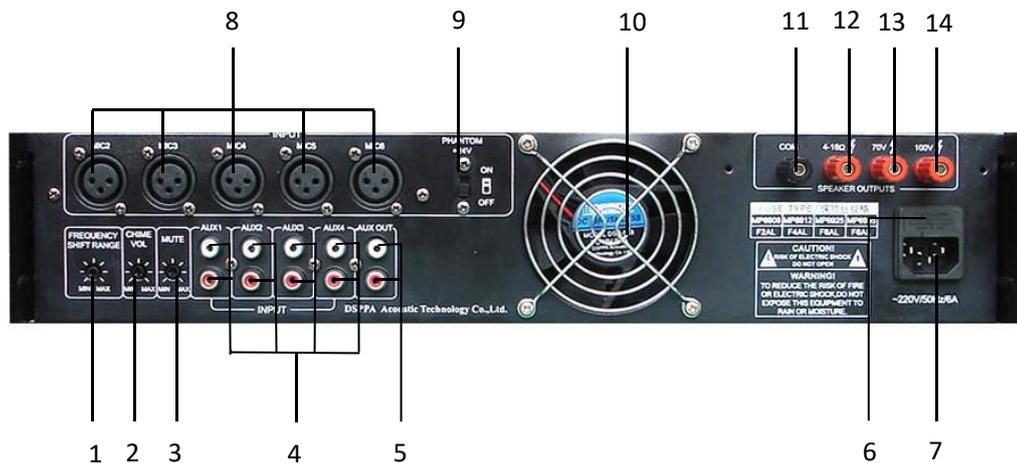
7-band equalizer	64Hz: $\pm 12\text{dB}(\pm 2\text{dB})$
	160Hz: $\pm 12\text{dB}(\pm 2\text{dB})$
	400Hz: $\pm 12\text{dB}(\pm 2\text{dB})$
	1kHz: $\pm 12\text{dB}(\pm 2\text{dB})$
	2.5kHz: $\pm 12\text{dB}(\pm 2\text{dB})$
	6.4kHz: $\pm 12\text{dB}(\pm 2\text{dB})$
	15kHz: $\pm 12\text{dB}(\pm 2\text{dB})$
	Protection function
Mute function	Microphone 1 and chime input covering other inputs
Phantom power	DC24V
Frequency	0-5Hz higher than the input signal frequency
Rating power	AC220-240V/50-60Hz
Power consumed	120W
Outer Packing Size (mm)	(L×W×H)555×455×185
Unit Size (mm)	(L×W×H)430×368×88
Gross weight	12kg
Net weight	10.2kg

## Front / Rear Panel



- (1) Power switch and power indicator      Press down the power switch button to turn on the power, and the power indicator is lit when the power is turned on; If press down the power switch button again to pop up the switch, the power is turned off, and the power indicator is distinguished when the power is turned off.
- (2) 7-band equalizer adjustment slider      With the slider sliding up to increase the gain of frequency band, and sliding down to attenuate the gain of frequency band.
- (3) Microphone 6 volume adjustment knob      To adjust clockwise to increase the volume, and to adjust counter clockwise to decrease the volume.
- (4) Microphone 5 volume adjustment knob      To adjust clockwise to increase the volume, and to

- adjust counter clockwise to decrease the volume.
- (5) Microphone 4 volume adjustment knob      To adjust clockwise to increase the volume, and to adjust counter clockwise to decrease the volume.
  - (6) Microphone 3 volume adjustment knob      To adjust clockwise to increase the volume, and to adjust counter clockwise to decrease the volume.
  - (7) Microphone 2 volume adjustment knob      To adjust clockwise to increase the volume, and to adjust counter clockwise to decrease the volume.
  - (8) Microphone 1 volume adjustment knob      To adjust clockwise to increase the volume, and to adjust counter clockwise to decrease the volume.
  - (9) Microphone 1 port      With the No.1 priority function, to facilitate the inserting of an emergent PA .
  - (10) Output volume level meter      If the 4th and the 5th indicators of the level meter are normally lit, it means that the output has a top chopping distortion, and the adjustment should be given to the corresponding volume control knob to decrease the volume, making the 4th and the 5th indicator flash.
  - (11) Equalizer/bypass mode change over switch      Press down the switch for the equalizer adjustment mode; Press the switch again to pop up for the direct mode.
  - (12) Microphone frequency shift switch      Press down the switch for the frequency shift function; Press the switch again to pop up for the direct mode.
  - (13) Channel status display indicator      When the channel selecton button selects a certain audio source input channel, the indicator of the corresponding channel will be lit and display.
  - (14) Channel selection button      A certain audio source channel can be selected for play by clicking the selection button. The selection is carried out among AUTO, AUX1 to AUX4 respectively, among them AUTO status is for the auto detection.
  - (15) Channel volume adjustment knob      It is used to adjust the volume magnitude for AUX1 to AUX4 channels, and the object adjusted is according to the gating condition of the channel selection switch.
  - (16) Total volume adjustment knob      Adjust clockwise to increase the volume, and adjust counter clockwise to decrease the volume. That knob can also be used to control the chime output volume.
  - (17) Chime output trigger button      Touch it lightly once to trigger the chime output, and after the end of playing the tone signs of '1-3-5- i ', it will stop automatically.



- (1) Frequency shift scope adjust knob      Adjust clockwise to increase the frequency shift, and adjust counter clockwise to decrease the frequency shift.
- (2) Chime adjustment knob      Adjust clockwise to increase the chime volume, and adjust counter clockwise to decrease the chime volume.
- (3) Mute adjustment knob      Adjust clockwise to decrease the mute extent, and adjust counter clockwise to increase the mute extent.
- (4) AUX 1, 2, 3 and 4 input ports      These four input ports are all for input line signals, connecting the external audio source equipment.
- (5) AUX output port      As an line output port, connecting the external power amplifier.
- (6) AC220 V power supply fuse      If the fuse is damaged, please use the fuse of same specifications for replacement.
- (7) AC220 V AC outlet      Please do not pull out the power plug with power on.
- (8) MIC2, MIC3, MIC4, MIC5, MIC6 sockets      They are XLR sockets.
- (9) 24 V phantom power switch      If the switch is turned to "ON", the microphone will then have 24 V phantom power supply, and if the switch is turned to "OFF", the phantom power supply will be turned off.
- (10) Built-in cooling blower fan      The working voltage is 12 V.
- (11) Power amplifier output common terminal.
- (12) Power amplifier 4-16  $\Omega$  rated resistance output terminal      Available to connect several loud speakers that is rated resistance, but requiring that the total impedance should not be lower than 4  $\Omega$ .
- (13) Power amplifier 70 V rated voltage output terminal.
- (14) Power amplifier 100 V rated voltage output terminal.

# System Diagram

