

# FSM-600

*A professional fixed format production mixer from Formula Sound*



*The FSM-600 is a compact fixed format stereo production mixer. The design allows the unit to accept two microphone inputs and ten stereo music inputs.*

## Features

- 2 balanced low impedance mic inputs.
- 10 stereo inputs, 4 of which may be selected to RIAA.
- 3 band E.Q. per channel.
- E.Q. range  $\pm 10\text{db}$ ,  $\pm 5\text{db}$ , or no E.Q.
- Stereo aux buss – choice of pre or post send.
- Fully assignable crossfader, stereo channels.
- Internal gain trim, stereo channels.
- Microphone compressor/limiter.
- Voice override.
- Split monitoring.
- Individual circuit cards per channel.
- Zone, booth, aux outputs (mono or stereo).
- Internal selection provided for the unit to be set to individual needs.
- Main output (balanced)  
Separate mono main output.
- 2 pairs record outputs (music only & programme).
- Transformer isolated trigger output.
- Sub bass output.
- 2 headphone output jack sockets.
- Remote music mute.
- Long life crossfader and Punch button.
- 12v socket for external working illumination.
- Alps pots and faders throughout.
- Integral fully regulated power supply.

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<http://www.formula-sound.com>

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## Specifications

### Power:

The mixer features a fully regulated internal power supply that is designed to operate on 220-240V ac or 110-120V ac.

### Finish:

Front and rear panels; Bordeaux coloured anodised aluminium with etched silver notation which will not rub off in use.

### Case:

Black plastic coated steel.

Optional finishes; Front and rear panels available in black on request.

### Dimensions (exc. knobs and connectors):

Width 483mm (19")  
Height 312mm (12.25"-7RU)  
Depth 110mm (4.33")

### Installation Cut-out:

Width 440mm  
Height 305mm

### Performance figures:

Frequency response	E.Q. set flat	20Hz - 20kHz $\pm 0.5$ dB
Maximum output level		+20dBm
Distortion stereo, auxiliary, mic busses to related O/P's		<.02% typically <.005%
Noise@Max gain any chan set flat		EIN < - 98dB
Gain Chan 1&2 mic in		10dB min 60dB Max
1&2 line in		$\pm 10$ dB
Chan 3-6		$\pm 15$ dB

internal trim allows maximum gain to be reduced to 0db

Unlike the majority of fixed format mixers on the market all connectors are fitted to the back face which allows unrestricted access when the mixer is fitted through a work top or in a rack.

Although the FSM-600 is a fixed format design the use of individual circuit cards per channel improve reliability and aid servicing should the need arise. Construction and audio quality are to Formula Sounds usual highest standards.

The FSM-600 is essentially a six channel mixer with each channel switchable to two inputs. Channels 1 and 2 are switchable between low impedance microphone and stereo line inputs. Phantom power is available for microphones (internal selection). Channels 3 to 6 are switchable between A and B inputs. The A input may be internally configured to be either an RIAA equalised input for a magnetic phono cartridge or a normal line input to accept CD, tape etc. The B input is always a normal line input.

Three band equalisation is fitted to all inputs which can be individually internally selected by moveable jumper links to provide  $\pm 10$ dB,  $\pm 5$ dB or no E.Q. range.

A gain and auxiliary send control is fitted to all channels. The auxiliary send may be internally configured to pre or post fader.

The microphone channels may be routed to the output via an integral compressor/limiter to control microphone dynamics. Internal jumper link options provide for the user to select, or be forced, to use this facility.

Channels 3 to 6 have an internal gain trim to control the maximum gain available and these channels are fully assignable to the cross fader or stereo buss.

Push button switches are used for input selection, PFL (pre fade listen) routing etc. and a smooth 60mm fader, which is arranged to eliminate the ingress of dirt, complete the channel controls.

The output section provides plenty of facilities to cope with the most demanding applications. It includes a new design of crossfade circuitry that places less demand on the fader to ensure exemplary attenuation and extended life, a punch button facility is also included.

Illuminated push buttons, led meters and indicators are fitted throughout to provide the operator with good visual indication of the mixer status.

