

# FSM-400

*A professional fixed format production mixer from Formula Sound*

*The FSM-400 is a fixed format mixer designed for the professional DJ or small installation.*



## Features

- 7 stereo inputs, 3 of which may be selected to RIAA.
- 1 balanced mic input.
- 3 band E.O. per channel. (specially tailored for this mixer).  
E.O. range +5dB to -20dB.
- Fully assignable crossfader, stereo channels.
- 2 gain settings per input on channels 2,3 + 4 (internal jumpers). The gain range is normal  $\pm 15$ dB or low setting +2dB to -19dB.
- Split monitoring.
- Music dim button to allow talk over.
- Individual circuit cards per channel.
- Zone, booth, 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.
- 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 which is designed to operate on 220-240V ac or 110-120V ac.

### Finish:

Front and rear panels; Electric Blue anodised aluminium with etched silver notation which will not rub off in use. (Also available in black on request).

### Case:

Black plastic coated steel.

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

Width 382mm (15")  
Height 283mm (11.125")  
Depth 110mm (4.33")

### Installation Cut-out:

Width 330mm  
Height 270mm

### Performance figures:

Frequency response	E.O. 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 mic in	20dB min 60dB max
	1 line in	$\pm 10$ dB
	Chan 2-4	$\pm 15$ dB normal, +2dB to -19dB low

Inputs A & B may be selected to different gain settings.

Formula Sound are recognised as one of the leading manufacturers of audio equipment and the FSM-400 is built to their usual high standards of construction and audio quality. Although the FSM-400 is a fixed format design the use of individual circuit cards per channel improve reliability and aid servicing should the need arise.

The FSM-400 is primarily aimed at the professional DJ but will also be used in smaller installations where a four channel mixer with each channel switchable to two inputs can be utilised.

Channel 1 is switchable between low impedance microphone and stereo line inputs.

Phantom power is available for microphones (internal selection).

Channels 2 to 4 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. The range is +5dB to -20dB. The large amount of cut eliminates the need for frequency cut switches and is available on all channels allowing creative mixing.

Channels 2 to 4 have internal jumpers to provide 2 gain settings per input. The gain range is - normal  $\pm 15$ dB or low setting +2dB to -19dB.

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 most 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.

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 console.



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