

THE SHADOW

STANDBY MIXER



WHAT WOULD HAPPEN IF YOUR SOUND SYSTEM FAILED?

Dancing would stop, customers would go home and may even demand some form of compensation.

SO WHAT CAN CAUSE FAILURE IN A SOUND SYSTEM?

1. Amplifiers and loudspeakers.
Usually there is more than one so a failure would impair the system but not be disastrous.
2. Turntables and other sources.
Again there will be more than one so a failure would be inconvenient but not disastrous.
3. The mixer. The heart of the system.
If the mixer fails or has a drink spilt over it, total system failure will result in NO SOUND! It does happen and the costs can be substantial.

Formula Sound has addressed this problem and created THE SHADOW, a dedicated low cost mixer with enough facilities to keep the music playing in an emergency or when the main mixer needs essential service.

THE SHADOW can be installed as part of a new sound system or can easily be retro-fitted. It has all the switching required to replace the main mixer instantly in the event of trouble. Simply switch on the unit and this causes internal relays to re-route four stereo music input sources, one microphone and the output connections, to be controlled by THE SHADOW. Music is restored and the customers remain happy.

'THE SHADOW' has one microphone channel and four stereo music channels, two of which are equalised to RIAA for phono cartridges. (RIAA inputs

can be selected internally to a normal line input if required).

PFL (Pre-fade listen) switches are provided on the four music channels for cueing purposes. All inputs have a pre-set gain control accessible through holes in the rear panel. The microphone channel has an illuminated ON/OFF switch for ease of operation.

2 band equalisation is provided via pre-sets on the back panel, for the mic channel.

To keep the size of the unit as small as possible rotary controls are used. The only exception is a cross-fader which fades between channels 1 & 2 and 3 & 4. The cross-fader may be switched off if not required. A master volume control and headphone volume control, with associated jack socket, are also provided on the front panel.



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'THE SHADOW' IS ALSO DESIGNED TO OPERATE PERFECTLY WELL ON ITS OWN, IN A MOBILE OR SMALL SYSTEM, WHEN ONLY BASIC FACILITIES ARE REQUIRED.

In true Formula Sound fashion no compromises have been made in the quality of 'THE SHADOW'. The specification section confirms the high level of audio performance.

'THE SHADOW' - The sensible insurance policy for entertainment venue operators.



SHADOW | TECHNICAL SPECIFICATION

All inputs and outputs have a connector of the same type. When the unit is un-powered these sockets are connected to each other to provide the normal signal routing.

Once the SHADOW is powered, the input and output connections are routed automatically via the SHADOW. Signal switching relays with gold plated silver contacts are used throughout to ensure reliability.

Frequency Response:	20Hz - 20KHz \pm 0.5dB. Distortion THD@1KHz	O/P +26dBV <0.01% (typically .004%)
Outputs:	Connector type 2 XLR's Balanced Output: Output Impedance: Max O/P Level: Balanced outputs are self compensating and may be linked for unbalanced operation without degradation in performance.	<100R Balanced +26dBV into 600R load
Microphone Input:	Connector type XLR Gain Max: Noise Ref 150R: Max I/P Level at Min Gain: Input Impedance (Mic): Mic E.Q. (via presets on the rear panel):	+70dB. EIN -127dBV. 0dBV. >2K ohms active balanced. Treble \pm 10dB @ 10KHz (Shelving). Bass \pm 10dB @ 120Hz (Bell).
STEREO INPUTS 1 - 4	Connector type gold plated phono sockets. Stereo input channels 2 and 3 are internally selectable to RIAA inputs. Gain Max. Noise (DIN audio band) @ 10dB Gain: Max I/P Level: Input Impedance: Line: RIAA.	+20dB. EIN -90dBV +20dBV 10K ohms. 47K ohms.
Power:	220 - 240V AC standard (110V to order). Mains Fuse 250mA slow blow. I.E.C. Mains connector.	
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.	
Dimensions:	19" rack mounting, 1RU. Width 482mm (19") Depth 200mm (7.9") Height 44mm (1.75")	
Formula Sound reserve the right to alter specifications at any time without notice.		



Formula Sound Ltd.

Ashton Road, Bredbury, Stockport SK6 2SR, England.

Tel +44 (0)161-494 5650 Fax: +44 (0)161-494 5651

e-mail: info@formula-sound.com

website: www.formula-sound.com