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MODEL FP33 PORTABLE STEREO MIXER

Specification Sheet

MODEL FP33

DESCRIPTION

The Shure Model FP33 is a portable stereo mixer designed for:

- Remote audio recording
- Electronic field production (EFP)
- Electronic news gathering (ENG)
- Film production

The extremely low noise of the FP33 makes it an excellent selection for any digital recording format. This compact stereo mixer provides the durability, desired performance, and most needed features for professional remote production.

Features

- Operates on two 9V batteries or 12 to 30V dc external voltage
- Transformer balanced mic/line inputs and outputs
- Internal headphone level adjustments
- High-precision sealed potentiometers
- 48 V/12V phantom and 12V T (A-B) power
- LED indication of input level, peak output level, limiter action, and battery condition
- Input circuit accepts wide range of signal level without input pads
- Pop-up pan potentiometers
- Link switch couples mixer inputs 2 and 3 into stereo pair
- Mix bus jack for connecting FP33 or FP32A mixers
- Output level meters with timed or toggled illumination
- Headphone monitoring mode switch and headphone MS matrix
- Monitor switch routes mixer or Monitor in signal to headphones
- Internal DIP switches provide over 4,000 different set-ups
- Color-coded, soft touch rubberized knobs with tactile position indicators
- Steel chassis with black chrome finish
- Carrying case, strap, and mix bus cable include
- Designed and manufactured in USA

SPECIFICATIONS

Frequency Response

20 to 20,000 Hz, ± 2 dB

Inputs	Designed for Use With	Actual (Internal)	Input Clip Level
Mic	19 to 600 Ω	1k Ω	-10 dBV
Line	≤ 10 k Ω	50k Ω	+36 dBV
Monitor	≤ 1 k Ω	12k Ω	+21 dBV

Outputs	Designed for Use With	Actual (Internal)	Output Clip Level
Mic	Low Z mics	0.5 Ω	-31 dBV
Line	600 Ω	120 Ω	+18 dBV
Tape	>10k Ω	2.2 Ω	+3 dBV
Headphones	8 to 200 Ω	300 Ω	+19 dBV

Total Harmonic Distortion

< 0.25% at +4 dBm; 50 to 20 kHz

Equivalent Input Noise

-127 dBV with 150 Ω source; 20 Hz to 20 kHz

Output Noise (input controls full off)

Master full off: ≤ -100 dBV; 20 to 20 kHz

Master full on: ≤ -80 dBV; 20 to 20 kHz

Pan Attenuation Level

> 45 dB

Oscillators

Tone: 1 kHz $\pm 10\%$

Slate: 400 Hz, $\pm 10\%$

Low Cut Filters

6 dB down at 150 Hz, 6/dB/octave slope

Limiters

Threshold: adjustable, 0 dBm to +15 dBm

Attack time: 1 ms

Release time constant: 100 ms or 1 s

Operating Voltage

Internal: Two 9V alkaline batteries

Battery Life: > 8 hours for normal use

External: 12 V to 30 V dc; dc power jack is non-polarized

Current draw: 41 mA idle with 18V applied

Overall Dimensions and Weight

58 mm H x 161 mm D x 184 mm W
 (2-1/4 in. x 6-3/8 in. D x 7-1/4 in. W)

1.6 kg (3.5 lbs) without batteries

