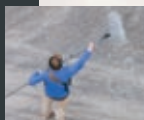


Fostex®

Applications include:

EFP (Electronic Field Production)
On-location TV programs
Film / Movie productions
Sports event broadcasting
Single camera ENG applications

FM-4 : FM-3 Portable Location Mixers



FM-4 : FM-3 Portable Location Mixers



Exclusively Machined Aluminum Knobs
Light but robust aluminum body construction with exclusively-machined large aluminum fader knobs. Metal axis fader pots using conductive plastic for higher durability.



Organic LED Display
High resolution metering offering both VU and Peak level with selectable Stereo and Mono indication. Various settings status (mic/line, phantom on/off, etc) can also be viewed.



Battery Pack
8 x AA batteries or DC10-24V external powering. More than 6 hours operation with alkaline batteries (phantom off). Remaining battery capacity available on both display and LED indicator.



FM-4 : ELECTRONIC FIELD PRODUCTION, ON-LOCATION TV & FILM

FM-3 : ENG, NEWS REPORTING, DOCUMENTARY



Robust, high specification, professionally engineered portable mixers specifically designed for location film & TV production, electronic field production and ENG applications.

Fostex has an unrivalled pedigree and a unique understanding of the broadcast, film and TV environments, having designed and manufactured world class location recorders for almost 20 years. So when we decided to introduce portable location mixers, we first canvassed opinions from our professional users, listening to their needs and understanding their working practises.

The culmination of this process is two thoroughly professionally engineered Portable Location Mixers with feature sets tailored for specific 'over-the-shoulder' applications: EFP (Electronic Field Production) for on-location TV program and film productions in the case of the FM-4 and ENG (professional electronic news gathering) for the FM-3.

FM-4 : EFP on-location TV and Film

As a 4-channel portable audio mixer designed specifically for EFP, broadcast, on-location TV and film applications, you would expect exceptional audio performance with flexible

output options and the FM-4 does not disappoint. Each of the 4 balanced XLR inputs can accept mic or line level inputs and features 12T and 48V Phantom power, an ultra-low noise pre-amp design with high quality custom transformers and switchable Hi Shelving EQ and Mid Sweep EQ. Metering is taken care of by an easy to read, highly visible organic LED display with high resolution metering offering both VU and peak level indication, battery level and selectable stereo and mono modes.

There are multiple output options including sub outputs, a Tape output and 2 x AUX outputs with channel select. The main outputs (x2) and sub outputs (x2) also double as 1-4ch Direct Out (post-fader). In addition, a dedicated monitor return input is available for referencing audio from VTR or Camera feeds.

FM-3 : ENG

The FM-3 Portable Mixer offers a three-input, stereo output portable mixing solution and has been designed primarily for ENG (professional

electronic news gathering) but is also at home in on-location film productions. It's equipped with 3 balanced inputs (switchable phantom power), with a 2ch main output plus a wide variety of sub outputs.

Both the FM-4 and FM-3 are robust, rugged designs with all controls, inputs and outputs easily accessible on three main surfaces with no 'round the back' controls. Special care has been taken to ensure noise levels are kept extremely low, which makes these mixers perfect for use in any over-the-shoulder production application including digital transmission links or digital video and audio recording media.

New Benchmarks

With their low-noise circuitry, exceptional audio fidelity and unique feature sets the new Fostex Portable Mixers are not only more than suitable for all professional broadcast and film applications, they set a new benchmark for portable on-location mixing devices.

Main Features

- **FM-4** Balanced 4ch inputs (Mic/Line) and 2ch main outputs with high quality custom transformers
- **FM-3** Balanced 3ch input and 2ch main outputs with high quality custom transformers

FM-4 & FM-3 Common Features

- Highly visible Organic LED display
- Mixer's parameter setting status (mic/line, phantom on/off, etc) can be seen on the display
- Phones outs accept standard and mini plugs on each socket with multiple source and PFL monitoring
- Comprehensive outputs including Sub outs, Tape out, 2 x AUX outs with channel select
- Switchable level settings at +40/0/-10/-60 (FM-4) and +40/0/-20/-60 (FM-3) on Main and Sub outputs
- Dedicated monitor return input to check the audio from VTR or Camera feeds

FM-4 Only Features

- Main outputs (x2) and Sub outputs (x2) double as 1-4ch Direct Out (post-fader)
- Hi Shelving EQ and Mid Sweep EQ for ch1/3 and 2/4
- Seamless PAN control and Fader Link function (1-2ch & 3-4ch)

FOSTEX



FM-4 Portable Location Mixer



FM-3 Portable Location Mixer

FM-4 / FM-3 SPECIFICATIONS

Inputs

FM-4 INPUT 1 through INPUT 4: XLR-3-31 type (transformer balanced)

FM-3 INPUT 1 through INPUT 3: XLR-3-31 type (transformer balanced)

MIC input

Input impedance: 2 kΩ or more

Nominal input level: -70 dBu to -30 dBu

Phantom Power: P48V or T12V (selectable)

LINE input

Input impedance: 10 kΩ or more

Nominal input level: -20 dBu to +4 dBu

AUX IN: XLR-5-51 type (electronically balanced)

Input impedance: 20 kΩ or more

Nominal input level: +4 dBu

RTN IN: Connector: ø3.5mm stereo mini-phone jack (unbalanced)

Input impedance: 10 kΩ or more

Nominal input level: -10 dBV

Outputs

FM-4 MAIN OUT (L, R) / DIRECT OUT (CH1-2): XLR-3-32 type (transformer balanced)

FM-3 MAIN OUT (L, R): XLR-3-32 type (transformer balanced)

Applicable load impedance: 600 Ω or more

Nominal output level: +4, 0, -10 or -60 dBu (FM-4) / +4, 0, -20 or -60 dBu (FM-3) (switchable)

FM-4 SUB OUT / DIRECT OUT (CH 3-4): XLR-5-52 type (electronically balanced)

FM-3 SUB OUT: XLR-5-52 type (electronically balanced)

Applicable load impedance: 10 kΩ or more

Nominal output level: +4, 0, -20 or -60 dBu (switchable)

TAPE OUT: Connector: ø 3.5mm stereo mini-phone jack (unbalanced)

Applicable load impedance: 10 kΩ or more

Nominal output level: -10 dBV

AUX OUT: Connector: ø3.5mm stereo mini-phone jack (unbalanced)

Applicable load impedance: 10 kΩ or more

Nominal output level: -10 dBV or -60 dBu (switchable)

PHONES: Connectors : 1/4" stereo phone jack and ø3.5mm stereo mini-phone jack

Applicable load impedance: 8Ω or more

LIMITER:

Attack time: approx 5 msec. Release time: approx 200 msec.

Threshold level: +6, +9 or +12dBu (FM-4) / +6 or +12dBu (FM-3) output level

Ratio: 3:1 or 5:1 (level and ratio can be selected using the status mode)

DC IN: XLR-4-32 type (male). Input voltage: DC10V to DC 24V

DC OUT: Hirose 4 pin (female). Applicable plug: Hirose HR10A-7P-4P. DC7.2V - 24

Performance

Frequency response:

LINE IN - MAIN OUT: 20Hz to 20kHz +/- 1dB (reference level)

MIC IN - MAIN OUT: 40Hz to 20kHz +/- 1dB (reference level)

HEADPHONES (32Ω load, 25mW output power): 20Hz to 20kHz +/- 3dB

S/N ratio (A-weighted):

LINE (INPUT GAIN: +4 dBu): 80dB or better

MIC (INPUT GAIN: -70dBu: 55dB or better (equivalent input noise: -125 dBu)

Total harmonic distortion:

LINE: 0.1% or less at 1 kHz (Input Gain +4dBu)

MIC: 0.1% or less at 1kHz (Input Gain -70dBu)

Headphones residual noise: (PHONES level control at minimum)

-72 dBV or less (A-weighted)

Crosstalk: -70 dB or less at 1kHz

FM-4 Only Specifications

HPF: 40Hz to 200Hz, -12dB/oct. The cutoff frequency is continuously sweepable.

EQ: HI: 10kHz fixed, +/-12dB MID: 200-8kHz variable, +/-12dB

Physical

FM-4 Physical

External dimensions: 274 (W) x 57 (H) x 180 (D) mm (Including protrusions)

Weight: Approximately 1.5kg (not including the internal batteries)

FM-3 Physical

External dimensions: 210 (W) x 57 (H) x 156 (D) mm (Including protrusions)

Weight: Approximately 1.2kg (not including the internal batteries)

Internal batteries: Eight AA batteries (alkaline: 12V, nickel hydride: 9.6V)

Power requirement: DC7.2 to 12V

External power supply: Optional AC adaptor (AD15C / AD15-4300)

Interfacing

FM-4 & FM-3

Portable Audio Interface.

The easy to operate, rugged FM-4 is equipped with a balanced 4ch input and 2ch main output mixer featuring individual high quality, ultra-low noise signal transformers, whilst the FM-3 is compact and rugged. It is equipped with a balanced 3ch input and 2ch main output mixer each featuring individual high quality signal transformers, plus it offers a wide variety of sub outputs.



FM-3



FM-4

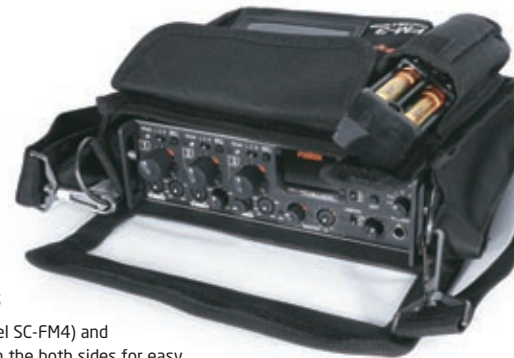


Optional Extras

Carrying Cases

The perfect protection for Fostex Portable Mixers

Bespoke padded carry cases are available for both FM-4 (model SC-FM4) and FM3 (SC-FM3) mixers. Each features velcro-taped side flaps on the both sides for easy cable access, front pockets, (handy for placing a wireless receiver, extra battery cases and/or microphones), vinyl window on the top flap for easy viewing of top panel controls, a name card holder on the front pocket, four plastic legs on the bottom and extra reinforcing sheets inside the back and bottom materials for additional protection.



EX-BP2

FM-3 and FM-4 Battery Case

The FM-3 and FM-4 uses an Internal 8 x AA batteries or DC10-24V external powering. It has more than 6 hours operation with alkaline batteries (phantom off).



www.fostex.jp

Fostex

Fostex Company

3-2-35 Musashino, Akishima, Tokyo, Japan 196-0021

Tel: +81 (0)42-546-4974 Fax: +81 (0)42-546-9222