

Fostex®



LR16

Live Recording Mixer

LM16

Live Mixer



# LR16 Live Recording Mixer

## All-in-One 16:4:2 Digital Mixing and 16-Track Multitrack Recording

The new Fostex LR16 is clever all-in-one solution integrating a flexible, feature-rich live digital mixer with a full-specification 16-track multitrack Hard Disc recorder.

A totally new concept, this easy-to-use audio tool can serve as a FOH or on-stage mixer and is ideal for schools, houses of worship, clubs, coffee houses, project studios, mobile recording and rental sound/recording, etc. - In fact any application where flexibility of use is important.

The 16-channel digital mixer features analog-style operation, 3-band EQ and 3 AUX sends and 1 EFF send plus built-in master FX and recorder transport controls. The recorder I/O box meanwhile, houses 16 balanced mic / line inputs, other I/O and a 'better than CD-quality' multitrack recorder offering up to 16 hours of uncompressed 16-track multitrack recording/playback at 44.1/48kHz plus simultaneous stereo mix recording.

These two components can be rackmounted, are linked together via a standard single CAT-5 cable, (no bulky multicore here), and

can be placed up to 50m apart, allowing for easy portability, easy installation and enormous flexibility in operation.

The new Fostex LR16. A totally new concept in livesound mixing and recording.

### LR16 Main Features

- Recorder I/O and Mixer components can be flexibly separated up to 50m apart
- Single CAT-5 cable - no heavy and expensive multicore snake required
- Intuitive analog-like mixer with 16 input, 4 group bus and master faders
- Built-in 80GB HD for approx. 16 hours of 16-track uncompressed digital recording at 16bit/44.1kHz or 9 hours at superior digital quality of 24bit/48kHz\*
- Multitrack ('dry' sound after TRIM) and Stereo Mix ('wet' sound after Stereo Faders) can be recorded simultaneously creating 16 x mono WAV files plus 1 x Stereo WAV file
- Memory Play allows you to Instant Start Playback via 10 keys.
- 99 Mark points per Project for quick Locate.
- FAT 32 formatted HD can be mounted on PC or Mac via USB
- Save recorded data to USB 'thumb drive' for easy transfer to PC or Mac



\*Recording times per Project may vary depending on number of recording tracks, HD remaining capacity and 4GB file size limitation.

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## INTUITIVE 'ANALOG-STYLE' DIGITAL MIXING

Mixing with an LR16 is intuitive and simple as it is a real 'knobs and buttons' mixer. Each of the 16 channels features balanced mic and line inputs (XLR / TRS Combo), phantom power, digitally controlled TRIM and analog LIMITER, 3-band EQ with swept mid frequency, no less than 3 AUX sends, digital effects and level. And as all these controls are accessed by physical knobs and faders just like an analog mixer, using an LR16 does not require a steep learning curve.



### Easy Mac / PC Integration

Although designed to spend most of its life in a live recording environment, the LR16 also plays nice in the studio. Its integral 80GB Hard Disc is FAT32 formatted which means it can easily be mounted on a PC or Mac via USB. The recorder can create individual track and stereo-mix WAV files and you can use a USB 'thumb drive' to backup and transfer data.

### No Expensive Bulky Multicore Snake

Connecting the LR16 Mixer and Recorder I/O components is a single 'off-the-shelf' CAT-5 cable which can be up to 50m (164 ft) in length. This means it's great for HOW, clubs, schools and coffee houses where a quick set-up and easy installation are paramount.

### Flexible Recording

Never has capturing a live performance been so easy: Set-up, mic-up, mix and hit the 'REC' button to instantly start 16-track recording. No convoluted procedures. No drawn-out configuration process - Just easy operation.



### Rack Mount Operation

The two LR16 components can be used free-standing or mounted in standard 19-racks with the included rack ear kits. In addition, the mixer and recorder I/O section can also be used as a conventional MTR device as a kit is also included to bolt the two components together making one, integrated mixer / recorder unit.

## LR16 / LM16 SPECIFICATIONS

### Input and Output (Main Unit)

*OdBu = 0.775Vrms, OdBV = 1.0Vrms*

<b>Microphone Input (1 ~ 16)</b>	
Connectors:	XLR 3-31, balanced (combo)
Nominal input level:	-60dBu ~ -12dBu
Input impedance:	more than 1.5kΩ
Phantom power:	P48V (1~8CH & 9~16CH switchable, on/off)
<b>Line Input (1 ~ 16)</b>	
Connector:	Ø6.3mm TRS Phone, balanced (combo)
Nominal input level:	-40dBu ~ +8dBu
Input impedance:	more than 10kΩ
<b>Insert (1 ~ 8)</b>	
Connector:	Ø6.3mm TRS Phone (Tip: Out, Ring: In)
Load Impedance:	more than 10kΩ
Nominal output level:	-10dBV
Input impedance:	more than 10kΩ
Nominal input level:	-10dBV
<b>Stereo Bus Out (L, R)</b>	
Connector:	XLR 3-31, balanced
Reference output level:	+4dBu
Load impedance:	more than 10kΩ
<b>Group Bus Out (1 ~ 4)</b>	
Connector:	Ø6.3mm TRS Phone, balanced
Reference output level:	+4dBu
Load impedance:	more than 10kΩ
<b>AUX Send (1 ~ 3)</b>	
Connector:	Ø6.3mm Phone, unbalanced
Reference output level:	-2dBu
Load impedance:	more than 10kΩ
<b>Effect Send</b>	
Connector:	Ø6.3mm Phone, unbalanced
Reference output level:	-2dBu
Load impedance:	more than 10kΩ
<b>Rec Out (L, R) - LR16 Only</b>	
Connector:	RCA unbalanced
Reference output level:	-10dBV
Load Impedance:	more than 10kΩ
<b>Footswitch - LR16 Only</b>	
Connectors:	Ø6.3mm Phone
<b>Stereo Mix Out (L, R) - LM16 Only</b>	
Connector:	RCA unbalanced
Reference output level:	-10dBV
Load Impedance:	more than 10kΩ
<b>USB (Host) USB2.0 Hi-Speed for Storage connection</b>	
Connector:	A type
<b>USB (Host) USB2.0 Hi-Speed for PC connection - LR16 Only</b>	
Connector:	A type
<b>MIDI Out</b>	
Connector:	DIN 5-pin
<b>To Control Box</b>	
Connector:	RJ45 (CAT5, straight)

### Input and Output (Controller)

<b>Phone</b>	
Connector:	Ø6.3mm Stereo Phone
Load Impedance:	more than 32Ω
<b>Monitor Out (L, R)</b>	
Connector:	Ø6.3mm Phone, unbalanced
Reference Output Level:	-12dBV
Load impedance:	more than 10k Ω
<b>Sub In (L, R)</b>	
Connector:	RCA, unbalanced
Reference input level:	-10dBV
Input impedance:	more than 10kΩ
<b>To I/O Box</b>	
Connector:	RJ45 (CAT5, straight)

### General

Dimensions:	482 (W) x 136 (H) x 570 (D) mm
Weight:	LR 16 Approx. 13kg, LM16 Approx. 10kg
Power requirement:	JPN 100VAC, USA 120VAC, UK/Eur 230VAC
Power consumption:	LR16 60W, LM16 20W

# LM16 Live Mixer

## All-in-One 16:4:2 Digital Mixing

Offering all the mixing flexibility, functionality and I/O of the LR16 but without the 16-track multitrack recording feature, the LM16 version could just be the best tool for those wanting a flexible, all-in-one, high quality livesound digital mixing / multicore solution.

### Real 'Knobs and Faders' Digital Mixing - Full Compliment I/O

Using an LM16 holds no surprises. Each of the 16 channels features a balanced mic and line inputs (XLR/TRS Combo), phantom power, digitally controlled TRIM and analog LIMITER, 3-band EQ with swept mid frequency, no less than 3 AUX sends, digital effects and level. And as all these controls are accessed by physical knobs and faders just like an analog mixer, using an LM16 does not require a steep learning curve.

### No Expensive Bulky Multicore Snake - Rack Mount or Free Standing

Just like the LR16, connecting the Mixer and I/O components is a single 'off-the-shelf' CAT-5 cable which can be up to 50m (164 ft) in length. In addition, the two LM16 components can be used free-standing, bolted together or mounted in standard 19-racks with the included fitting kits. This makes the LM16 great for HOW, clubs, schools and coffee houses where a quick set-up and flexible installation are paramount.



### LM16 Main Features

- I/O and Mixer components can be flexibly separated up to 50m apart
- Single CAT-5 connecting cable - no heavy and expensive multicore snake required
- Stand-alone or mount in 19-rack
- Intuitive analog-like mixer with 16 input faders, 4 group bus faders and master faders
- Individual balanced mic and line inputs (XLR / TRS Combo) with phantom power
- Digitally controlled TRIM with analog LIMITER on all 16 channels
- 3-band EQ with swept-mid frequency on all 16 channels
- Built-in Digital Mastering Effects (Reverb/Delay)

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www.fostex.jp

Fostex Company, 3-2-35 Musashino, Akishima, Tokyo, Japan 196-0021  
Tel: +81 (0)42-546-4974 Fax: +81 (0)42-546-9222