

16 MIC/LINE INPUT MIXER WITH LEXICON

MAIN FEATURES

-  16 Mono UltraMic™ Inputs
-  4 Stereo Returns
-  Global 48V Phantom Power
-  Lexicon Effects built in
-  3-Band EQ with Swept Mid
-  4-Bus Architecture
-  Direct Outs for Multitrack Recording
-  3 Auxes

- 26 inputs as standard
- 16 mono channels with high quality UltraMic™ pre-amps
- 4 stereo returns
- 4-bus architecture, with sub-group routable to mix
- Built-in Lexicon dual effects processor
- Direct outputs for multitrack recording, individually switchable for pre- or post-fade operation
- Inserts on all mono channels
- Inserts on stereo mix bus
- 3-band 'British' EQ with swept mid-band
- Stereo 18dB/octave 100Hz high-pass filter to cut stage rumble
- +48V phantom power
- Channel Mute control
- 10-segment tri-coloured metering
- Two sub-group outputs
- Separate mono sum output
- Rackmount option (see p24)

The FX16 offers a combination of powerful live and recording features, with enough channels and direct outputs to enable use with 16-track recording systems.

With its 16 mono channels, stereo effects returns and a 2-track return that can be routed to the mix, the FX16 can handle up to 26 inputs simultaneously. Channel direct outputs on all 16 mono channels can be switched pre or post-fader, to feed a multitrack recorder on stage or in the studio.

UltraMic™ pre-amps, plus Spirit 3-band EQ, an effective high-pass filter and full-size 100mm fader equip the mono channels to handle any mic or instrument source. Channels can be routed either to the main or to the Sub stereo bus, and the Sub bus switched into or out of the main mix, which means that complex mixes can be easily set up and controlled.

Using the FX16's Sub outputs, you can set up two separate stereo mixes to different sets of speakers, which is particularly useful in more demanding live or installed sound environments.

Live situations are rarely free of sources of noise and interference, which is why the FX16 is built like a tank, and has balanced connections in and out. The relocatable jackfield can be rotated through 90° to suit table-top or rackmount use, saving space and leading cables away in a sensible direction.

A studio-grade Lexicon processor offers a broad range of classic effects treatments, from chorus and reverbs to combinations such as delay + reverb.

Effects presets can be edited via a simple but versatile interface, and 16 user variations stored alongside the 16 presets.

As well as the direct outputs, the FX16 also has three aux sends for effects or monitors. Inserts on all mono channels, and on the main and sub busses, are provided to make it easy to patch in vital processors.



"The FX16 is one of the best thought-out compact mixing desks ever".
NIGEL LORD, FUTURE MUSIC

"The direct outputs, comprehensive effects returns and price all blow raspberries at the competition".
NORMAN FAY, THE MIX

APPLICATIONS

Live Sound:
Bands, Small Venues, Clubs, Conferences, Schools, Houses of Worship

Studio Recording:
Digital/Analogue Multitracking (8 or 16 track), Small/Home Studios, Pre-/Post-Production

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SPIRIT FX16

MONO INPUTS

Connectors

Neutrik XLR for mics. Phantom Power available globally from the master section (condenser mics). 1/4 inch jack for line level instruments. Mic and line inputs are balanced. Direct Out and Insert point.

Gain Control

UltraMic™ padless preamp provides 60dB of gain range. Maximum 22dBu of headroom.

Equaliser Section

Steep 18dB per Octave 100Hz High Pass Filter.

3-band British EQ with swept mid. ±15dB at Lo 80Hz, Hi 12kHz and Mid variable 240-6kHz. Q = 1.5.

See page 5 for EQ curves.

Auxiliary Section

4 flexible auxiliary controls:

Aux 1 is pre-fader/post EQ for foldback or stage monitor mixes.

Aux 2 and 3 are post-fader/post EQ but Aux 2 is switchable pre-fader on each channel.

LexFX dedicated to Lexicon effects (post-fader).

Pan

To position signal in stereo mix or for subgroup routing.

Routing Section

Any channel can be routed to Mix and/or Sub Outputs. Signal to Auxes, Mix and Sub Out can be muted.

Solo

Monitors the pre-fade signal of a "solo" channel before it reaches the main mix. If SIP is pressed in master section, gives true stereo position, after fader and with effects.

Direct Pre

Allows direct outs to be switched to pre-fader (live recording to prevent multitrack levels from being affected by changes to the FOH mix) or post-fader for studio work.

100mm Fader

GROUP/MASTER SECTION

Connectors are on rear panel – see below.

2-Track Return

Two phono connectors allow playback of master stereo recording or for pre-show music.

Mono Sum Output

Useful as additional bass bin send, side fill feed, mono PA feed or for induction loops.

Monitor Outputs

For nearfield monitors via an amplifier.

Mix Outputs

2 impedance-balanced XLRs send mix signal to PA speakers or a stereo recorder.

Mix Inserts

For processing all signals routed to mix with a compressor/limiter or other device.

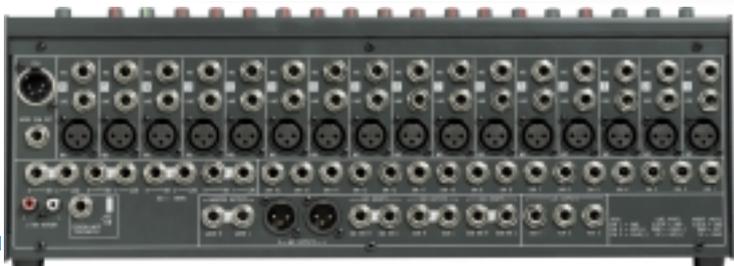
Subgroup Outputs

2 impedance-balanced 1/4" jacks send subgroup signal to a multitrack or additional speakers.

Subgroup Inserts

For processing the subgroup signal.

Rear Connector Panel



Auxiliary Outputs

3 impedance-balanced 1/4" jacks send signals to effects units or monitor/foldback amplifiers.

Phantom Power

Supplies +48V globally to power condenser mics. LED indicates +48V active.

Stereo Return Section

4 inputs routable to Mix or Submix, with access to Auxes 1 or 2.

Aux/FX Master Section

4 rotaries govern master levels of Auxes and Lexicon effects. Each master may be solo'd after the fader.

2-Track Return Section

Rotary sets playback level. Can be routed to Mix.

Monitor Source

Monitor Mix and/or Submix. Press 2TK to play back master recordings without repatching. Rotary controls monitor output level.

Solo in Place (SIP)

Replaces PFL with SIP. LED lights in SIP mode. See "Solo" mode operation.

Meters

Two 3-colour, 10-segment bargraph meters show mix, submix, control room or 2-track levels. Peak reading (PPM). When any PFL, SIP or AFL switch is pressed, meters switch to show solo level.

Phones

For headphones of 200 Ohms or greater impedance. Rotary pot governs output level.

Sub-Mix and Mix Faders

Pressing the "Sub to Mix" switch routes submix buses to the mix. Insert points allow signal processors to be connected across submix and mix.

LEXICON EFFECTS SECTION

Effects Controls

The Lexicon dual effects section provides combinations of delay, reverb and chorus. Each effect has two editable, storable/recallable parameters.

See Lexicon Effects table on page 7.

Programme Select

Select from 16 pre-programmed effects combinations.

Parameter Adjust

Param 1 / 2 alter values of two effect parameters using encoder. Alterations are held in memory when Parameter switch is released; User Mode LED indicates an alteration has been made to factory preset (restorable).

Lexicon Effects Return

Rotary sets Lexicon effects return level, routable to Mix or Sub. Internal effects have access to Aux 1 or 2, allowing you to add reverb to a foldback mix, or to mix external effects with the Lexicon processor to create unique combination effects.

Lexicon Foot Switch

Allows effects to be turned on or off on stage using a guitar foot-pedal.

