



FX16ii

THE PROFESSIONAL'S CHOICE FOR MORE THAN 10 YEARS, NOW THE FX16 GETS STUNNING 24-BIT LEXICON EFFECTS.

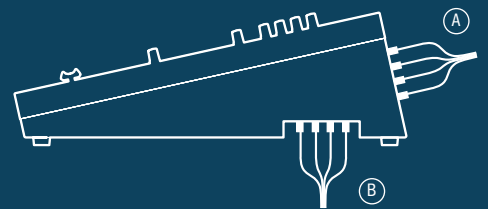
Great sound quality, professional build quality, flexible 4-bus architecture and a space-saving sixteen mic inputs and direct outputs in a rack-mounting frame made the original Soundcraft FX16 popular in both live and recording applications. Now the pro's choice gets even better with a new 24-bit Lexicon on-board effects section and universal internal power supply (see right).

A comprehensive feature set includes 16 mic/line inputs and 26 inputs to mix in total (including stereo returns and tape return to mix). In addition to the mix outputs, 2 buses allow groups of instruments to be sent to additional speakers, or sub-grouped to mix. 16 Direct Outputs are individually switchable pre or

post fader, making them equally useful for multitrack recording or live use. Both Solo In Place and PFL solo are available, for studio monitoring and channel gain set-up applications respectively.

All 16 mic/line inputs are equipped with high quality UltraMic™ preamps while a 'truly British' 3-band EQ with swept mid benefits from custom designed pots which give greater control across carefully chosen frequencies. There are 4 Auxiliary Sends, including a dedicated effects send, 1 pre-fade send and 2 pre/post-fader selectable sends which are equally useful as extra foldback sends or as effects sends in studio mixdown situations. In addition, there are 4 Stereo returns, a separate Mono Sum Output and 2 Subgroup Outputs.

A truly professional feature set is completed by 100mm faders for precision mixing control, and the FX16ii fits all of these features into a rugged, compact frame which can be optionally rack-mounted into a 10U space. Cables can be conveniently located behind the rack by simply rotating the connector pod.



A - Connector pod positioned for desktop use.
B - Connector pod rotated for rack-mounting.

FX16ii



ON-BOARD EFFECTS FROM THE WORLD-LEADERS IN DIGITAL SIGNAL PROCESSING.



Empowers the FX16ii, MFXi & EFX consoles.

KEY FEATURES
· 26 inputs as standard
· 16 mono channels with UltraMic™ preamps
· 4 stereo returns
· 4-bus architecture with sub-group routable to mix
· 24-bit Lexicon effects processor
· Direct outputs for multitrack recording individually switchable for pre/post fade operation
· 100mm faders
· Inserts on all mono channels
· Inserts on stereo mix bus
· 3-band 'British' EQ with swept mid-band
· 100Hz high-pass filter
· +48V phantom power
· 10 segment tri-coloured metering
· 2 sub-group outputs
· Rack mountable with rotating rear panel
· Universal internal power supply

For more than 35 years, Lexicon has been synonymous with the best reverb and processing in the business, continuously introducing ground-breaking technology to the audio industry. Today, Lexicon processing is heard on over 80% of all recordings - broadcast and film soundtracks. Now Soundcraft empowers three ranges of multi-purpose mixers - FX16ii, EFX, and MFXi - with stunning 24-bit digital effects processing using the same AudioDNA® processor used in the highly-acclaimed Lexicon MX300 processor.

A total of 32 preset effects including reverbs, delays and choruses are available along with 3 effects parameter controls and a tap tempo button.

The versatility of the effects section is further enhanced by the facility to store user-defined effects settings allowing the user to return to their favourite settings time after time.

Effects can be switched on and off using a footswitch.

Effects section from EFX mixer shown above. Features and functionality of FX16ii, EFX and MFXi mixers are the same, but layouts differ slightly.



MONO INPUT MODULE

Mic Input

A female XLR connector accepts balanced or unbalanced mic signals. At -127dbu EIN the mic amp is extremely quiet and transparent with excellent overload characteristics.

Line Input

A balanced 1/4" jack for connecting balanced or unbalanced electronic instruments, such as keyboards.

Insert

A pre-EQ insert is available on a 1/4" jack.

Direct Output

A Direct Output for multitrack recording is available on a 1/4" jack and can be switched pre/post fader.

Sensitivity

A rotary control on each input alters the sensitivity of the input signal, from -60dBu to 0dB.

High Pass Filter

A switchable stereo 18dB/octave 100Hz high-pass filter can be used to cut stage rumble.

EQ Section

Equalisation is split into three bands with shelving HF and LF controls providing 15dB of cut or boost (gain adjustment) at 12kHz and 80Hz. A swept mid frequency control enables frequencies from 150Hz to 3.5kHz to be adjusted with up to 15dB of cut or boost at the selected frequency, with a Q of 1.5.

Auxiliary Section

For sending separate monitor mixes in live applications, or for use with FX units, three Aux sends on each input channel cater for all requirements. Aux 1 is permanently sourced pre-fade, Aux 2 is individually switchable pre/post fade and Aux 3 is permanently sourced post fade.

FX Send

For sending signal to the internal 24-bit Lexicon effects.

Pan, Muting, Sub and Solo

The Pan control positions each channel's signal across the stereo image, with a Mute button to cut the signal completely. The Sub/Mix buttons sends the signal to a separate group (for multitrack recording or to an additional set of speakers) or to a subgroup to mix. Both Solo In Place and PFL solo are available, for studio monitoring and channel gain set-up applications respectively.

Faders and Metering

Each mono channel features a smooth 100mm fader, and a peak level LED indicating signal levels within 6dB of clipping.

MASTER SECTION

Effects

A rotary control selects the effect program, with three rotary controls for effect parameters and one to control the effects level sent to Aux 1. Buttons for PFL, Mute, Store (user effect set-up) and Tap Tempo (for time/speed-based effects such as delays). Footswitch input for FX on/off.

+48V Phantom Power

Dual global control over professional +48V phantom power is offered via push buttons (split channels 1-8 and 9-16). LEDs illuminate when active.

2-Track Inputs

2-track recorder inputs are on unbalanced RCA phono connectors. A 2-track level control is also provided.

Monitor Output and Mix Insert

Available on balanced 1/4" jacks.

Sub Group Output and Insert

Available on balanced 1/4" jacks.

Mix Outputs

The main left and right mix outputs are provided on balanced XLR connectors.

Monitor & Phones Level

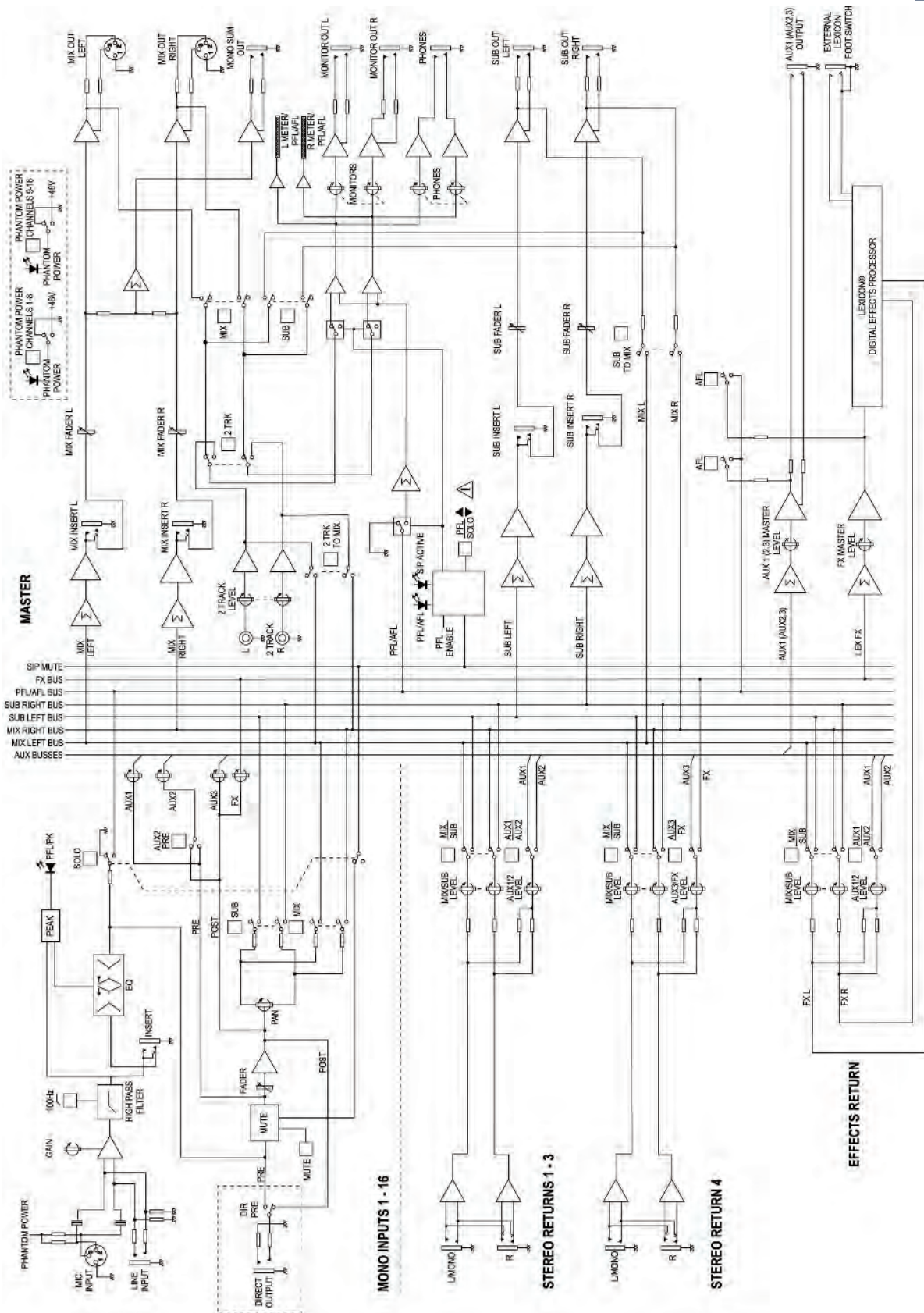
Levels sent to the monitor output and headphones can be independently adjusted using these two rotary controls. And when a pair of headphones are plugged into the phones socket at the bottom right of the mixer, the monitor outputs are still operational for simultaneous listening by a performer and engineer.

Faders and Metering

Controlling the sub group outputs and overall stereo mix level are two pairs of 100mm faders, with a Sub to Mix switch provided. Two 10-segment 3-colour LED peak-reading bargraph meters display the L-R output levels, which are replaced by an active Solo signal. A Solo Mode switch selects PFL/AFL Solo or SIP Solo, indicated by LEDs. 2-track, Mix and Sub selector switches are also provided.

Aux Outputs and Stereo Returns

3 Aux outputs are available on 1/4" jack, each with rotary level controls and AFL switch. In addition, a rotary level control and AFL switch is provided for FX. 4 pairs of stereo returns are provided on 1/4" jacks. Returns 1-3 have their own level control switchable to Aux 1 or 2 with a separate level control switchable to Mix or Sub. Return 4 has its own level control switchable to Aux 3 or FX send with a separate level control switchable to Mix or Sub. The FX return has its own level control switchable to Aux 1 or 2 with a separate level control switchable to Mix or Sub.



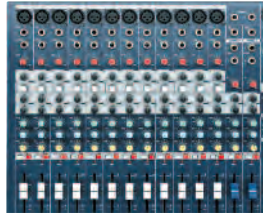
DIMENSIONS & WEIGHTS

FX16ii



	Width	Height	Depth	Weight
FX16ii	442mm (17.4")	148mm (5.8")	442mm (17.4")	8.5 kg (19.0 lbs)
FX16ii with rack ears (10U)	481mm (19")	148mm (5.8")	442mm (17.4")	8.5 kg (19.0 lbs)

EPM



	Width	Height	Depth	Weight
EPM6	280mm (11.0")	91mm (3.6")	362mm (14.3")	4.0 kg (8.8 lbs)
EPM8	330mm (13.0")	91mm (3.6")	362mm (14.3")	4.6 kg (10.1 lbs)
EPM12	432mm (17.0")	91mm (3.6")	362mm (14.3")	5.8 kg (12.8 lbs)

EFX



	Width	Height	Depth	Weight
EFX8	330mm (13.0")	91mm (3.6")	362mm (14.3")	4.6 kg (10.1 lbs)
EFX12	432mm (17.0")	91mm (3.6")	362mm (14.3")	5.8 kg (12.8 lbs)

MPM



	Width	Height	Depth	Weight
MPMi12/2	482mm (19.0")	94mm (3.7")	405mm (16.0")	6.7 kg (14.8 lbs)
MPMi20/2	688mm (27.0")	94mm (3.7")	405mm (16.0")	9.3 kg (20.4 lbs)

MFxi



	Width	Height	Depth	Weight
MFxi8/2	383mm (15")	94mm (3.7")	405mm (16.0")	4.0 kg (8.8 lbs)
MFxi12/2	482mm (19.0")	94mm (3.7")	405mm (16.0")	6.7 kg (14.8 lbs)
MFxi20/2	688mm (27.0")	94mm (3.7")	405mm (16.0")	9.3 kg (20.4 lbs)

Notepad



	Width	Height	Depth	Weight
102	215mm (8.5")	45mm (1.8")	220mm (8.7")	1.2 kg (2.6 lbs)
124	242mm (9.5")	45mm (1.8")	220mm (8.7")	1.6 kg (3.5 lbs)
124FX	242mm (9.5")	45mm (1.8")	220mm (8.7")	1.6 kg (3.5 lbs)

SPECIFICATIONS

FX16ii TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output.....	+/-1dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output.....	< 0.09% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain)..... Aux, Mix and Masters (@ 0dB, faders down).....	-127dBu (150Ω source) < -84dBu
Crosstalk (@ 1kHz)	Channel Mute..... Aux Send Pots Offness.....	> 96dB > 86dB
EQ (Mono inputs)	HF..... MF (swept)..... LF..... Q.....	12kHz, +/-15dB 150Hz - 3.5kHz, +/-15dB 80Hz, +/-15dB 1.5
Power Consumption		Less than 40W
Operating Conditions	Temperature Range.....	5°C to +40°C
Input & Output Levels	Mic Input..... Line Input..... Stereo Input..... Mix Output..... Headphones (@150Ω).....	+15dBu max. +30dBu max. +30dBu max. +20dBu max. 300mW
Input & Output Impedances	Mic Input..... Line Input..... Stereo Input..... Outputs.....	2kΩ 10kΩ 65kΩ (stereo), 35kΩ (mono) 150Ω (balanced), 75Ω (unbalanced)

MPMi/MFXi TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output.....	+/-1.5dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output.....	< 0.01% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain)..... Aux, Mix and Masters (@ 0dB, faders down).....	-126.5dBu (150Ω source) < -82dBu
Crosstalk (@ 1kHz)	Channel Mute..... Aux Send Pots Offness.....	> 90dB > 82dB
EQ (Mono inputs)	HF..... MF (swept)..... LF..... Q.....	12kHz, +/-15dB 150Hz - 3.5kHz, +/-15dB 80Hz, +/-15dB 1.5
EQ (Stereo inputs)	HF..... MF..... LF..... Q (MF).....	12kHz, +/-15dB 720Hz, +/-15dB 80Hz, +/-15dB 0.8
Power Consumption		Less than 40W
Operating Conditions	Temperature Range.....	5°C to +40°C
Input & Output Levels	Mic Input..... Line Input..... Stereo Input..... Mix Output..... Headphones (@150Ω)..... Recommended headphones impedance.....	+15dBu max. +30dBu max. +30dBu max. +20dBu max. 300mW 32 - 200Ω
Input & Output Impedances	Mic Input..... Line Input..... Stereo Input..... Outputs.....	2kΩ 10kΩ 45kΩ 150Ω (balanced), 75Ω (unbalanced)

EPM/EFX TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output.....	+/-1.5dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output.....	< 0.02% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain)..... Aux, Mix and Masters (@ 0dB, faders down).....	-127dBu (150Ω source) < -85dBu
Crosstalk (@ 1kHz)	Channel Mute..... Aux Send Pots Offness.....	> 96dB > 86dB
EQ (Mono inputs)	HF..... MF (swept)..... LF..... Q.....	12kHz, +/-15dB 150Hz - 3.5kHz, +/-15dB 80Hz, +/-15dB 1.5
EQ (Stereo inputs)	HF..... MF (EFX Only)..... LF..... Q (MF).....	12kHz, +/-15dB 720Hz, +/-15dB 80Hz, +/-15dB 0.8
Power Consumption		Less than 35W
Operating Conditions	Temperature Range.....	5°C to +40°C
Input & Output Levels	Mic Input..... Line Input..... Stereo Input..... Mix Output..... Headphones (@150Ω).....	+15dBu max. +30dBu max. +30dBu max. +20dBu max. 300mW
Input & Output Impedances	Mic Input..... Line Input..... Stereo Input..... Outputs.....	2kΩ 10kΩ 65kΩ (stereo), 35kΩ (mono) 150Ω (balanced), 75Ω (unbalanced)

NOTEPAD TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output.....	+/-1.5dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +10dBu @ Mix output.....	< 0.005% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain)..... Aux, Mix and Masters (@ 0dB, at unity).....	-128.5dBm (150Ω source) < -85dBu
Crosstalk (@ 1kHz)	Channel Faders..... Master Faders.....	> 87dB > 100dB
CMRR (@ 1kHz)	Master Faders.....	> 90dB
EQ	High Pass Filter..... HF..... MF..... LF..... Q.....	100Hz @ 12dB/Octave 12kHz, +/-15dB 1kHz, +/-15dB 80Hz, +/-15dB 0.7
Power Consumption		Less than 40W
Operating Conditions	Temperature Range.....	5°C to 40°C
Input & Output Levels	Mic Input..... Line Input..... Stereo Input..... Mix Output..... Headphones (@32Ω).....	+10dBu max. +22dBu max. +20dBu max. +25dBu max. 300mW
Input & Output Impedances	Mic Input..... Line Input..... Stereo Input..... Outputs.....	2kΩ 18kΩ 20kΩ 150Ω

Note: These figures are typical of performance in a normal electromagnetic environment and are often exceeded. Performance may be degraded in severe conditions. All measurements refer to electronically balanced inputs and outputs.