



Soundcraft FX16ii

Key Features

- 26 inputs
- 16 mono microphone channels.
- 4 stereo returns
- 4-bus architecture, with sub-group routable to mix
- Built-in 24 bit Lexicon® digital effects processor
- 32 FX settings
- Tap Tempo
- 3 FX parameter adjust rotaries
- User FX settings store function
- Direct outputs for multi-track recording individually switch-able for pre-post-fade operation
- Inserts on all mono channels
- Inserts on stereo mix bus
- Classic Soundcraft 3-band EQ with swept mid-band
- Stereo 18dB/octave 100Hz high-pass filter
- Dual global +48V phantom power split channels 1-8 and 9-16
- Channel Mute control
- 10-segment tri-coloured metering
- Two sub-group outputs
- Separate mono sum output

Architect's and Engineer's Specifications

Soundcraft FX16ii Mixing Console

The audio mixing console shall be a self-contained unit complete with input, output, FX and master sections and an integral switched mode power supply capable of operating under various AC voltage inputs from 90VAC to 240V AC. The audio mixing console shall have 16 mono input channels, four stereo returns, an FX master control, Sub L and R as well as Mix L and R master controls. It shall be possible to have the audio mixer mounted on a desktop or rack-mounted through optional rack mounting ears, and shall be of a rugged steel panelled construction. All jack sockets shall be of a metal construction.

The mono input channel shall have the following features: an electronically balanced wide range mic and line input on XLR and ¼" jack connectors with continuously variable sensitivity between -60dBu and -0dBu, a 100Hz HPF, dual global 48V phantom power split channels 1-8 and 9-16, a 3-band equaliser with shelving HF and LF controls at 12kHz and 80Hz with 15dB of cut or boost, and an MF control continuously variable from 150Hz to 3.5kHz with a Q of 1.5 and cut or boost of 15dB. Three Auxiliary sends and an FX send shall be provided, with individual level controls. Aux 1 shall be permanently sourced pre-fade. Aux 2 is individually switchable between pre-fade or post-fade operation. Aux 3 and the FX send are permanently sourced post-fade. Routing to the mix output shall be in stereo via a Pan control with -4.5dB centre-drop, Mute, SOLO (PFL or SIP), Mix and Sub routing switches will also be provided. A Peak LED shall warn of signals within 6dB of clipping. There shall be a pre-EQ insert point on a ¼" TRS jack and a direct output on each channel with pre/post fader switch. A 100mm fader shall control the overall channel signal level.

The Master section shall contain a built-in 24-bit digital FX processing unit with an effects master fader, 32 preset FX settings, 3 FX parameter rotary controls, tap tempo function, an FX level clip LED as well as the ability to store user-defined FX settings.

The Master section shall also contain the following facilities: Mix output on XLR, Four stereo returns, a Lexicon FX bypass input, a mono output, monitor outputs, mix inserts, sub outputs, sub inserts and aux outputs (mono) all on ¼" Jacks. A 2 track input will be provided on RCA phono connectors. A ¼" jack headphone output will be provided on the front panel with output level control. A monitor output control will also be provided.

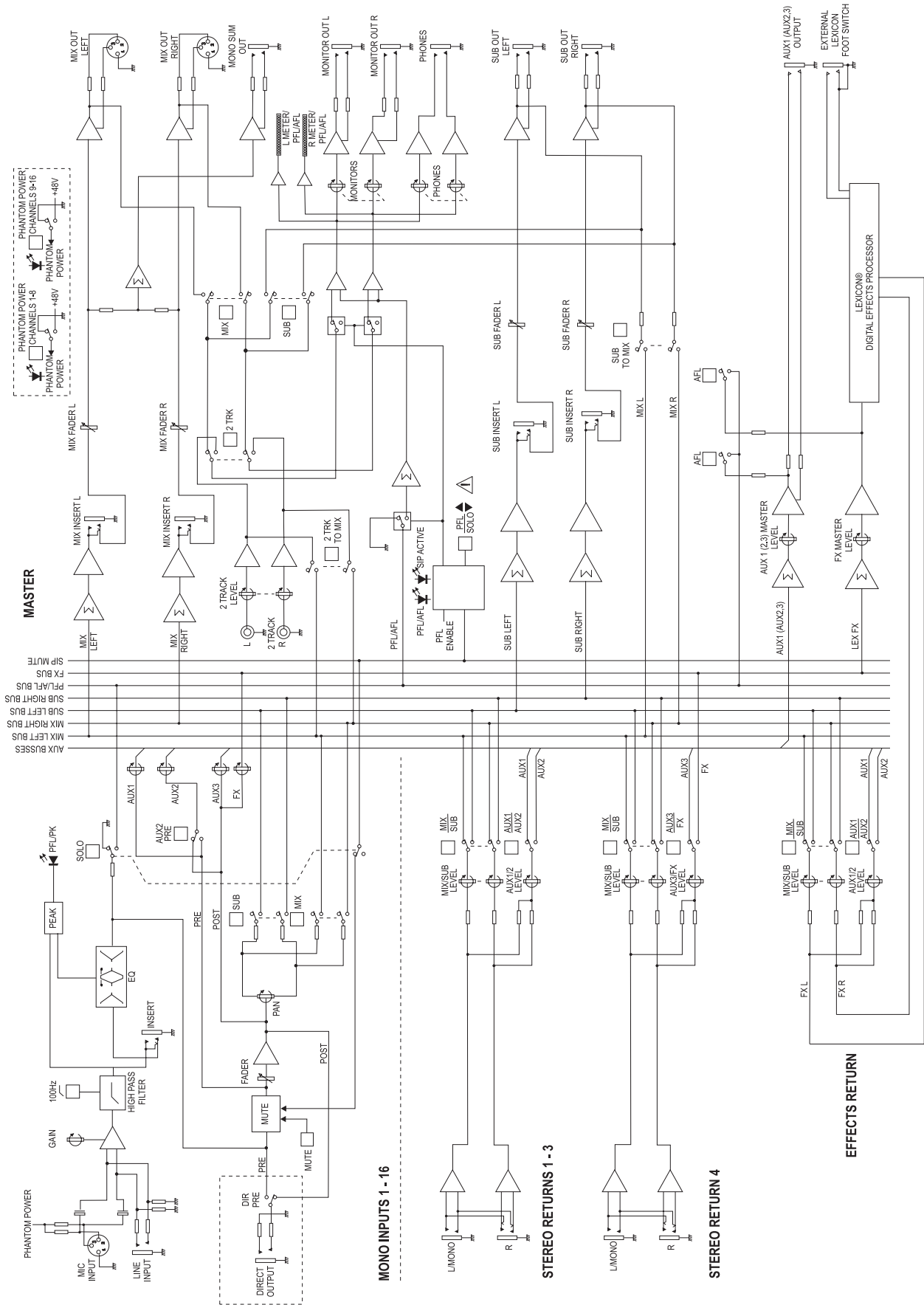
Ten-segment LED bar-graph meters shall be used to display L-R output levels, which shall be replaced by an active SOLO signal. A PFL/AFL Solo and SIP Solo LED indicator will be provided and a Solo mode switch. 2 track, mix and sub selector switches shall be provided as well as a two track to mix and two track level control. The main stereo mix and sub output shall be controlled by 100mm faders and a sub to mix switch will also be provided.

The three aux and FX output levels will be controlled by rotary controls each with an AFL switch. The FX return shall have its own level control switchable to aux one or two with a separate level control switchable to mix or sub. Stereo returns one to three shall have their own level control switchable to aux one or two with a separate level control switchable to mix or sub. Stereo return four shall have its own level control switchable to aux three or FX send with a separate level control switchable to mix or sub.

The specifications and dimensions of the console shall be as published in the Soundcraft Multi-Purpose Range brochure.

The audio mixing console shall be the **Soundcraft FX16ii Console**.

Block Diagram



Inputs and Outputs

Mono Input

1

GAIN 30
0 60dB
100 Hz

HF 3 6 9 12 15
3 6 9 12 15

MF 750
150 3.5k
3 6 9 12 15

LF 3 6 9 12 15
3 6 9 12 15

AUX1 0 10

AUX2 0 10
PRE

AUX3 0 10

FX 0 10

PAN 0
L R

MUTE SUB

MIX

SOLO 10
5
PK

DIR PRE -10 -15 -20 -30 -∞

1

Master Section

Lexicon®
24-BIT DIGITAL EFFECTS PROCESSOR

EFFECTS RETURN
ADJUST1 A:PRE-DELAY B:TIME/SPEED
ADJUST2 A:DECAY B:BACK/DEPTH
ADJUST3 A: VARIATION

STEREO RETURN 1
AUX1 MIX SUB
AUX2

STEREO RETURN 2
AUX1 MIX SUB
AUX2

STEREO RETURN 3
AUX1 MIX SUB
AUX2

STEREO RETURN 4
AUX3 MIX SUB
FX

PROGRAM SELECT
BANK A FX ON BANK B FX ON
CLIP
TAP TEMPO STORE

2 TRACK TO MIX **2 TRACK LEVEL**

2 TRACK MIX SUB

SIP ACTIVE PFL/AFL

SOLO MODE
PFL
SOLO IN PLACE

16
10
6
3
0
-3
-6
-9
-12
-16

AUX/FX OUTPUT MASTERS
AUX1 AFL
AUX2 AFL
AUX3 AFL
FX AFL

FX16II

MONITORS **HEADPHONES**

SUB TO MIX

10 5 0 -5 -10 -15 -20 -30 -∞

10 5 0 -5 -10 -15 -20 -30 -∞

L SUB R **L MIX R**

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) -127dBu (150Ω source)

Aux, Mix and Masters (@ 0dB, faders down) < -84dBu

Crosstalk (@ 1kHz)

Channel Mute > 96dB

Fader Cut-off (rel +10 mark) > 96dB

Aux Send Pots Offness > 86dB

EQ (Mono inputs)

HF 12kHz, +/-15dB

MF (swept) 150Hz - 3.5kHz, +/-15dB

LF 80Hz, +/-15dB

Q 1.5

Power Consumption Less than 40W

Operating Conditions

Temperature Range 5°C to 40°C

Input & Output Levels

Mic Input +15dBu max

Line Input +30dBu max

Stereo Input +30dBu max

Mix Output +20dBu max

Headphones (@150 Ω) 300mW

Input & Output Impedances

Mic Input 2kΩ

Line Input 10kΩ

Stereo Input 65kΩ (stereo), 35kΩ (mono)

Outputs 150kΩ (balanced), 75kΩ (unbalanced)

E. & O.E.

Soundcraft reserves the right to change specifications without notice.



H A Harman International Company
www.soundcraft.com

SOUNDCRAFT
Harman International Industries Ltd.,
Cranborne House, Cranborne Road,
Potters Bar, Herts., EN6 3JN U.K.
Tel: +44 (0) 1707 665000
Fax: +44 (0) 1707 660742
EMAIL: info@soundcraft.com

SOUNDCRAFT USA,
8500 Balboa Blvd
Northridge
CA 91329
Tel: +1-818- 920-3212
Fax: 1-818- 920-3208
Toll Free: 888 251 8352
EMAIL: soundcraft-usa@harman.com