



## Technical Data Sheet

### Soundcraft EFX

#### Key Features

- 8+2 and 12+2 channel frame sizes
- Built-in 24 bit Lexicon® digital effects processor
- 32 FX settings
- Tap Tempo and FX setting store function
- 1 FX send on each channel
- 1 configurable auxiliary bus
- XLR-type and ¼" metal jack connector sockets
- RCA phono stereo playback inputs and record outputs
- 3-band EQ with a swept mid on mono inputs
- 3-band EQ on stereo inputs
- TRS insert sockets and inserts on all mono inputs and mix output
- Ten-segment LED output metering
- Intuitive and comprehensive solo system
- Headphone output
- Easily rack mountable

### Architect's and Engineer's Specifications

#### Soundcraft EFX 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 12 (or 8) mono input channels, two stereo input channels, an FX master control and a stereo mix master output. It shall be possible to have the audio mixer mounted on a desktop or rack-mounted through optional rack mounting ears, and shall be made 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 -5dBu, globally switched 48V phantom power, 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. One auxiliary and one FX send shall be provided on each mono channel with individual level controls. The Aux send shall be globally switch-able to be pre-fade or post-fade. Routing to the mix output shall be in stereo via a Pan control with -4.5dB centre-drop, along with Mute and PFL Solo functions. 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 60mm fader shall control the overall channel signal level.

The stereo input channel shall have the following features: Line input connectors on electronically balanced ¼" jack connectors with input gain continuously variable from -10 to +20dB. There shall be a three-band equaliser with HF, MF and LF shelving controls at 12kHz, 720Hz and 80Hz with cut or boost of 15dB. One auxiliary and one FX send shall be provided with individual level controls. The Aux send shall be globally switch-able to be pre-fade or post-fade. Routing to the mix output shall be in stereo via a Balance control, along with Mute and PFL Solo functions. A Peak LED shall warn of signals within 6dB of clipping, and a 60mm 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 controls and an FX level clip LED. It will have a Tap Tempo, aux send, PFL and Mute function as well as the ability to store user defined FX settings.

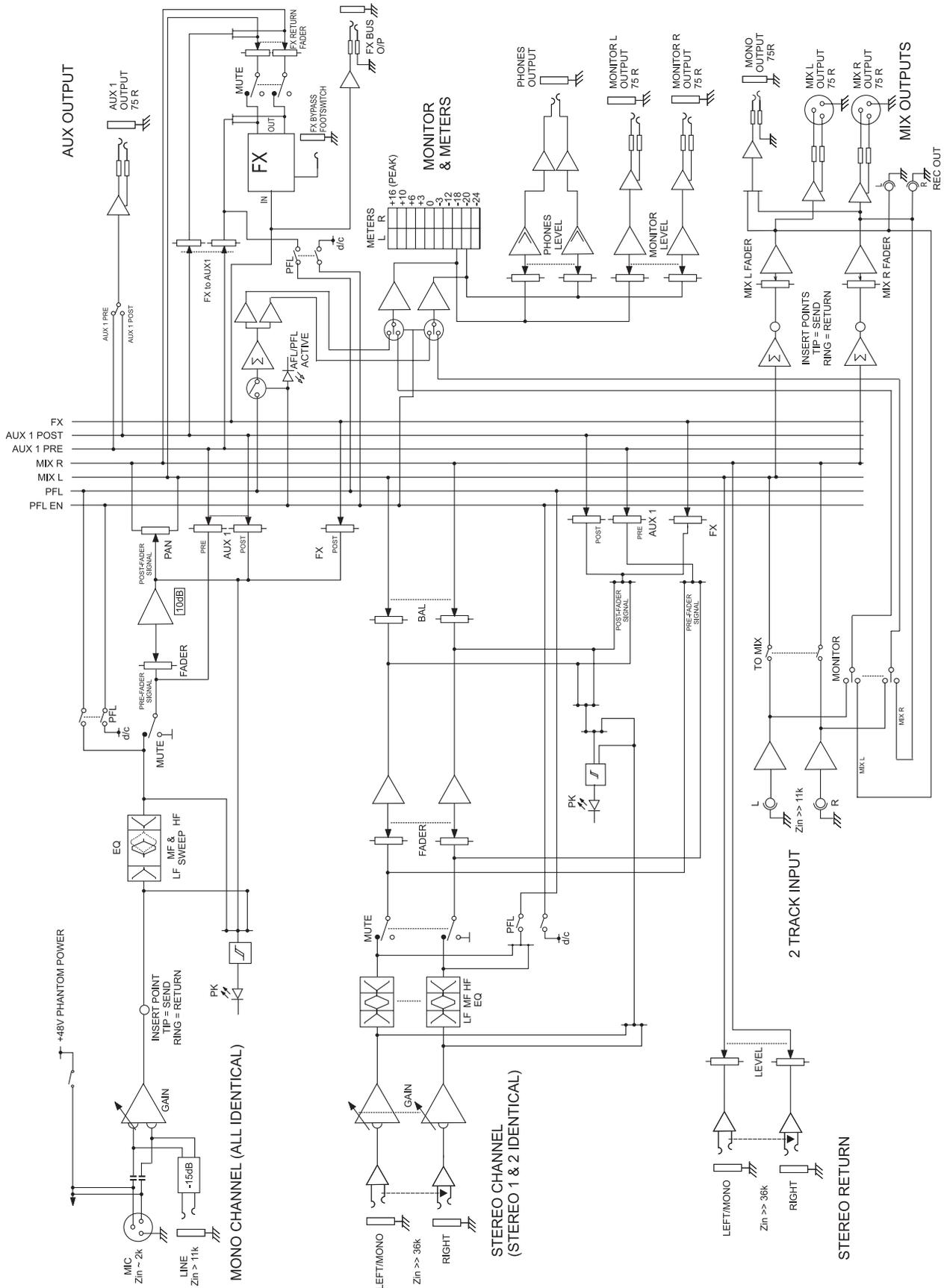
The master section will also contain the following facilities: a 2 Track playback input and record output, a stereo mix output, monitor outputs, output metering, headphone output mounted on the console front panel, Aux master output, FX Bus master output and a global 48V phantom power switch with LED. The 2 Track playback inputs shall be routed to the Mix outputs when the 2 Track TO MIX button is pressed, and to the monitor outputs when the 2 Track MONITOR button is pressed. Ten-segment LED bargraph meters shall be used to display L-R output levels, which shall be replaced by an active SOLO signal. The main stereo mix output shall be controlled by 60mm faders and fed to electronically balanced XLR connectors.

The Aux Master output and FX Bus output shall be fed to electronically balanced ¼" jack connectors. The output level of the ¼" jack headphone and monitor feeds shall be variable and may be replaced automatically by any SOLO signal.

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 EFX Console**.

# Block Diagram



# Inputs and Outputs

## Mono Input

**1**

MIC

LINE

INSERT

GAIN 30

LINE = -15

HF 3 -0+ 3

MF 750

LF 3 -0+ 3

AUX1

FX

PAN

PFL MUTE

PEAK

**1**

## Stereo Input

**STEREO 1**

L

[MONO]

R

GAIN

HF 3 -0+ 3

MF 750

LF 3 -0+ 3

AUX1

FX

BAL

PFL MUTE

PEAK

**STE1**

## Lexicon® FX Processor

**Lexicon®** 24-BIT DIGITAL EFFECTS PROCESSOR

A: PRE-DEL B: TIME/SPD

A: DECAY B: FBK/DPH

A: VARI

FX TO AUX1

CLIP

FX ON

PROGRAM SELECT

PFL MUTE

STORE TAP TEMPO

**EFFECTS**

## Master Section

PHANTOM POWER 48V

FOOTSWITCH FX MUTE

2TK IN L R

INSERT-L INSERT-R

MIX-L MIX-R

AUX1 OUT FX BUS OUT

REC OUT L R

STEREO RETURN L R

MONITOR OUT L R

MONO OUT

LEVEL PK

MIX / SOLO

POST PRE

MONITOR TO MIX

2 TRACK

POWER

**Soundcraft®**

**EFX12**

L MIX R

# 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) ..... -127dBu (150Ω source)  
Aux, Mix and Masters (@ 0dB, faders down)..... < -84dBu

## Crosstalk (@ 1kHz)

Channel Mute..... > 90dB  
Fader Cut-off (rel +10 mark)..... > 90dB  
Aux Send Pots Offness..... > 83dB

## EQ (Mono inputs)

HF ..... 12kHz, +/-15dB  
MF (swept)..... 150Hz - 3.5kHz, +/-15dB  
LF..... 80Hz, +/-15dB  
Q..... 1.5

## EQ (Stereo inputs)

HF ..... 12kHz, +/-15dB  
MF..... 720Hz, +/-15dB  
LF ..... 80Hz, +/-15dB

**Power Consumption**..... Less than 35W

## 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 (@150Ω) ..... 300mW

## Input & Output Impedances

Mic Input ..... 2kΩ  
Line Input ..... 10kΩ  
Stereo Input ..... 65kΩ (stereo), 35kΩ (mono)  
Outputs ..... 150Ω (balanced), 75Ω (unbalanced)

E & OE.

Soundcraft reserves the right to change specifications without notice.



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