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## Soundcraft FX16ii

# Soundcraft FX16ii Professional Compact Recording/Live Lexicon Effects Mixer

User Instruction Manual

## 1. INTRODUCTION

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The Soundcraft FX16ii is a versatile audio mixer designed for both live sound reinforcement and studio recording applications. Building upon the legacy of the Spirit FX16, this model incorporates a high-quality 24-bit Lexicon digital effects processor, offering a wide range of editable effects for enhanced audio production.

Key features include 26 inputs, 16 mono microphone channels, 4 stereo returns, and a 4-bus architecture. Its robust design allows for optional rack-mounting, making it adaptable to various setups.



Figure 1: Top view of the Soundcraft FX16ii mixer, illustrating the layout of channels, controls, and the integrated Lexicon effects section.

## 2. SETUP

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Before operating the Soundcraft FX16ii mixer, ensure proper setup to prevent damage and ensure optimal performance.

### 2.1 Unpacking and Inspection

Carefully remove the mixer from its packaging. Inspect the unit for any signs of physical damage that may have occurred during transit. Retain the original packaging for future transport or storage.

### 2.2 Power Connection

The FX16ii operates on corded electric power. Connect the supplied power cable to the mixer's power input and then to a suitable AC power outlet. Ensure the power switch is in the 'OFF' position before connecting to power.

### 2.3 Placement and Rack Mounting

Place the mixer on a stable, flat surface, ensuring adequate ventilation around the unit. The FX16ii is designed for optional rack-mounting. The rear connector panel can be repositioned to allow for convenient cable connection when rack-mounted in a 10U space, optimizing rack space.



Figure 2: Angled view of the Soundcraft FX16ii mixer, highlighting its compact design and suitability for various installations, including rack-mounting.

## 2.4 Input and Output Connections

Connect your audio sources (microphones, instruments, line-level devices) to the appropriate input channels. Utilize the 16 mono microphone channels and 4 stereo returns as needed. Connect your main outputs to amplifiers, powered speakers, or recording interfaces. The mixer features direct outputs for multi-track recording, which can be individually switched for pre- or post-fader operation.

## 3. OPERATING INSTRUCTIONS

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This section details the primary functions and controls of the Soundcraft FX16ii mixer.

### 3.1 Channel Controls

Each channel on the FX16ii features controls for gain, EQ, auxiliary sends, pan, and fader level. The classic Soundcraft 3-band EQ includes a swept mid-band for precise tonal shaping. A stereo 18dB/octave 100Hz high-pass filter is also available to remove unwanted low-frequency rumble.

### 3.2 Phantom Power

The mixer provides dual global +48V phantom power, split across channels 1-8 and 9-16, for condenser microphones. Ensure phantom power is only activated when required and that connected devices are compatible.

### 3.3 Lexicon Digital Effects Processor

The built-in 24-bit Lexicon digital effects processor offers 32 powerful and editable effects. Use the Tap Tempo function to

synchronize time-based effects. Three parameter adjust rotaries allow for fine-tuning of effects. User effects settings can be stored for quick recall. An effects clip LED indicates when the effects processor is being overdriven.

## 3.4 Routing and Outputs

The 4-bus architecture allows for flexible signal routing, with sub-groups routable to the main mix. The mixer includes two sub-group outputs and a separate mono sum output for additional monitoring or recording flexibility. Channel Mute controls are provided for quick silencing of individual channels.

## 3.5 Metering

A 10-segment tri-coloured metering system provides visual feedback on signal levels, helping to prevent clipping and ensure optimal gain staging.

# 4. MAINTENANCE

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Proper maintenance ensures the longevity and reliable operation of your Soundcraft FX16ii mixer.

## 4.1 Cleaning

Regularly clean the mixer's surface with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no liquid enters the unit. Avoid abrasive cleaners or solvents, as these can damage the finish and internal components.

## 4.2 Environmental Considerations

Operate and store the mixer in a clean, dry environment, away from direct sunlight, excessive heat, humidity, and dust. Avoid placing heavy objects on the mixer. Ensure proper ventilation to prevent overheating.

## 4.3 Cable Management

Organize and secure all cables to prevent tripping hazards and reduce strain on connectors. Regularly inspect cables for wear and tear and replace any damaged cables.

# 5. TROUBLESHOOTING

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This section provides basic troubleshooting steps for common issues you might encounter with your Soundcraft FX16ii mixer.

## 5.1 No Sound Output

- Verify that the mixer is powered on and the power indicator light is illuminated.
- Check all cable connections from audio sources to the mixer, and from the mixer's outputs to your amplification system or recording device.
- Ensure all channel faders, master faders, and subgroup faders are raised to an audible level.
- Confirm that no channels or the main mix are muted.
- Check the gain settings for each input channel to ensure adequate signal level.

## 5.2 Distorted Audio

- Reduce the input gain on the affected channel(s) if the channel clip LED is illuminating frequently.
- Lower the master fader or subgroup faders if the main mix meters are consistently in the red.

- Check the input source for distortion before it reaches the mixer.
- Ensure the Lexicon effects processor is not clipping (check effects clip LED).

### 5.3 No Phantom Power

- Verify that the +48V phantom power switch is engaged for the correct bank of channels (1-8 or 9-16).
- Ensure the microphone cable is a balanced XLR type.

If issues persist after following these steps, consult the detailed user guide or contact Soundcraft customer support.

## 6. SPECIFICATIONS

Feature	Specification
Model Number	FX16ii
Item Weight	24.3 pounds
Product Dimensions	17.4 x 17.4 x 5.8 inches
Country of Origin	United Kingdom
Power Source	Corded Electric
Number of Channels	16 (mono microphone channels)
Total Inputs	26
Connectivity Technology	Auxiliary
Effects Processor	Built-in 24-bit Lexicon Digital Effects

## 7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation provided with your purchase or visit the official Soundcraft website. Soundcraft products are designed for reliability and performance.

### 7.1 Customer Support

If you encounter any issues not covered in this manual or require technical assistance, please contact Soundcraft customer support. You can find contact information on the official Soundcraft website.

### 7.2 Additional Resources

A comprehensive user guide in PDF format is available for download, providing more in-depth information on the Soundcraft FX16ii mixer's features and operation. You can access it via this link: [Soundcraft FX16ii User Manual \(PDF\)](#)

