Eos 16.6

16 Channel Mixing Console



Overview

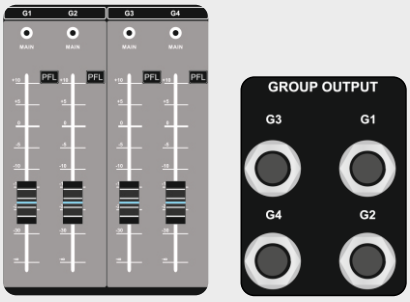
The Studiomaster Professional EOS16.6 is a large-format 16 channel live mixing console. Featuring 16 XLR inputs, 6 Aux sends, 4 subgroups, multiple music playback options, advanced routing and more, the mixing console is ideal for live, front-of-house, touring, and complex installation applications in large venues.

16
MIC INPUTS

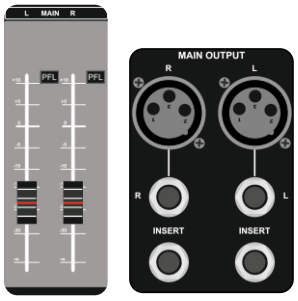
- BALANCED 16 MIC/ 20 LINE INPUTS
- 4 MON:STER (MONO-STEREO) INPUTS FOR FULL FLEXIBILITY
- 4-BAND EQ ON ALL INPUTS
- 75Hz LOW CUT ON MONO CHANNELS



4
SUB GROUPS WITH INDIVIDUAL OUTPUTS



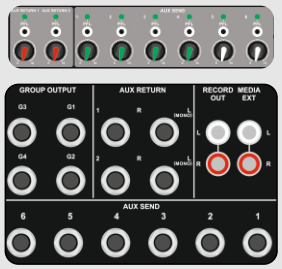
2
MASTER OUTPUTS BAL. XLR & 1/4" JACK





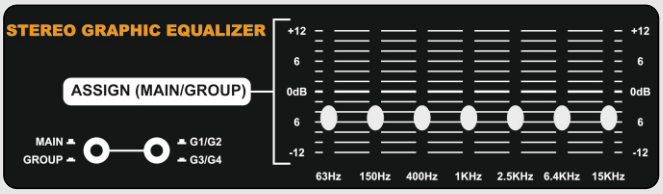
6 AUX SENDS

- AUX 1-4 PRE/POST SWITCHABLE
- AUX 5-6 POST ONLY
- STEREO AUX RETURNS



7 BAND GEQ

- STEREO GRAPHIC EQUALIZERS
- ASSIGNABLE BETWEEN GROUP & MAIN



ONE KNOB COMPRESSOR ON 4 INPUTS

HIGHER EFFECTIVE GAIN

REDUCE EQUIPMENT DAMAGE

EVEN SIGNAL LEVELS

MAKES LOUD SIGNAL SOFTER & SOFT SINGALS LOUDER

DUAL MULTI-EFX PROCESSOR

MULTI-EFX DSP

HIGH RES. SAMPLING RATE

24 DSP PRESETS

- REVERB
- DELAY
- ECHO
- EARLY REF
- GATE REV
- VOCAL ECHO

EFX TO MON ROUTING

MULTIPLE MUSIC PLAYBACK OPTIONS

USB MULTIMEDIA PLAYER (Front Panel)



USB MP3 MEDIA PLAYER & RECORDER

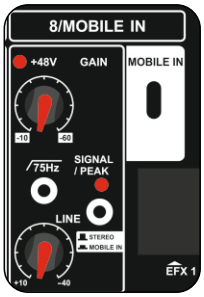
USB ENABLED mp3

REC Bluetooth Recording

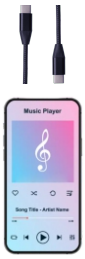


BLUETOOTH 5.0

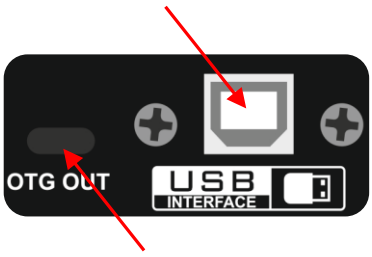
MOBILE MEDIA PLAYER (Ch. 12)



USB TYPE C MOBILE MEDIA PLAYER CONNECTION



USB AUDIO INTERFACE (Rear Panel)



USB TYPE-C OTG RECORDING OUTPUT.

BUILT-IN USB AUDIO INTERFACE



PLAYBACK / RECORDING

STEREO PLAYBACK & RECORDING

PLUG & PLAY

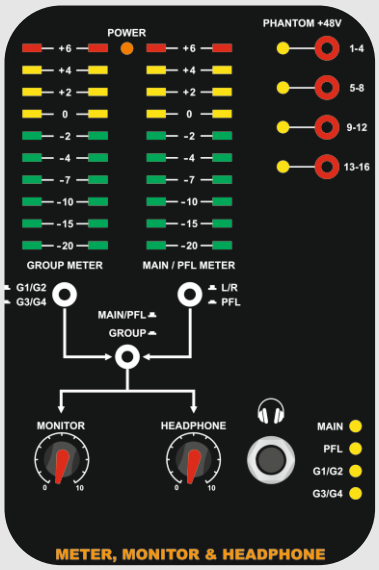
FULLY CLASS COMPLIANT

METERING, MONITORING & PHANTOM POWER

2 x Dual 10 -segment LED Meters

Advanced Meter Routing

¼" Headphone & Monitor Output with Level Control



4 Phantom Power Split Groups

Added Control & Flexibility For Phantom Power Supply

All Features

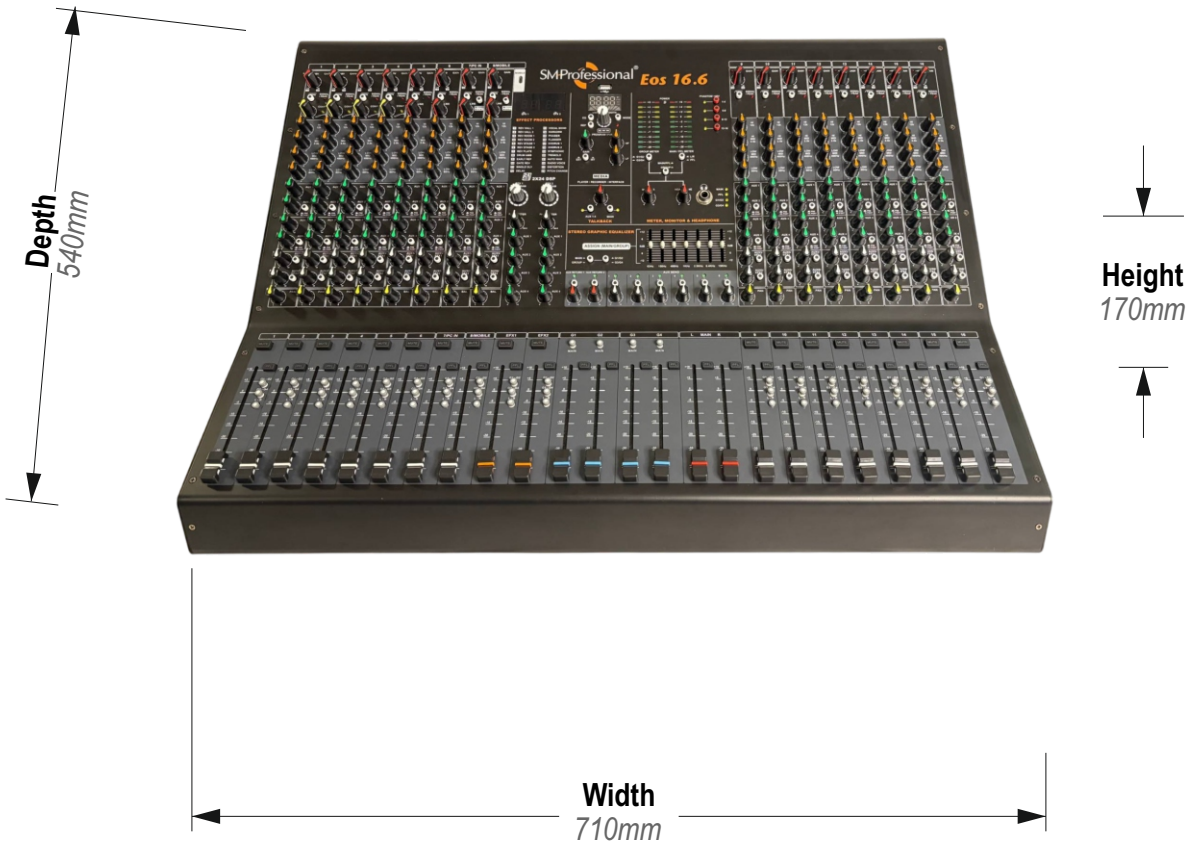


- 16 Channels: 16 Mic / 20 Line Inputs.
- MON:Ster (Mono-Stereo) Inputs for Full Flexibility
- Ultra Low-Noise Preamps With Wide Headroom and Dynamic Range.
- 75Hz low cut on mono channels.
- 4-Band EQ on all Inputs.
- 6 Aux Sends – 4 Pre/Post and 2 Post.
- 4 Sub Groups with Individual ¼" Outputs.
- Insert (Send/Return) On the First 8 Mono Channels and Main Output.
- Split Global Switched +48V Phantom Power Supply (6 Groups of 4 Channels Each).
- Responsive Large 100mm Faders for Easy Mixing.
- One Knob Compressor on Channels 1-4.
- Dual Multi-EFX Processor with 24 DSP Presets And Editable Parameters.
- Provisions to Route EFX to Monitor via 4 Aux Buses.
- USB Audio Interface with Plug & Play Connectivity for RECORDING and Playback using a PC.
- USB Type C Mobile Media Player and Audio Interface.
- USB MP3 Media Player & RECORDER with Bluetooth.
- Additional USB Type C OTG Output for Recording.
- Level Control, 2-band EQ with Internal/External Media Input Selection.
- Stereo AUX Returns.
- Balanced XLR and ¼" Jack Main Outputs.
- Mute, Solo, Group and Main (L-R) routing per Channel.
- Illuminated Mute & PFL (Solo) Switches.
- Additional Talkback Microphone Input.
- Stereo RCA Input and Record Output.
- Headphone Output with Level Control.
- 7-Band Stereo Graphic Equalizers.
- Dual Assignable 10-Segment LED Meters.
- Ergonomically Angled Design for Better Visibility.
- Clutter-free Rear Panel Input and Output Connectivity.

Technical Specifications

Parameter	Specifications
Nominal Gain (Mic / Line / Stereo Line)	60dB / 40dB / 20dB
Max Gain (Mic / Line / Stereo Line)	80dB / 60dB / 40dB
Input Output Levels	
Mic (Gain Min / Gain Max)	-10dBu / -60dBu
Line (Gain Min / Gain Max)	+10dBu / -40dBu
Stereo Line (Gain Min / Gain Max)	+10dBu / -20dBu
Aux Return (Nominal / Max)	-10dBu / +30dBu
Output Levels	
Main Output (Nominal / Max)	0dBu (0.775V RMS) / +20dBu (7.75V RMS) Max
Insert In/Out (Nominal / Max)	0dBu (0.775V RMS) / +20dBu (7.75V RMS) Max
General	
Mic Input Impedance	5 KΩ Balanced
Line Input Impedance	20KΩ Balanced / 10KΩ Unbalanced
Frequency Response	20Hz-20kHz (+0 / -1dB)
Total Harmonic Distortion	< 0.02%
MIC EIN (Equivalent Input Noise)	-128dB
Main Out/Group Out	-80dB
Equalisation	
Mono MIC (Hi / Hi-Mid / Low-Mid / Low)	±15dB @ 12kHz / 2.5kHz / 400Hz / 80Hz
Stereo Line (Hi / Hi-Mid / Low-Mid / Low)	±15dB @ 12kHz / 2.5kHz / 400Hz / 80Hz
Dimensions (W x D x H) mm	710 x 540 x 170
Net Weight (Kg)	12.7

Dimensions


Depth
540mm
SMProfessional Eos 16.6
Height
170mm
Width
710mm

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