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INTRODUCTION

The Soundcraft SM12 is a professional monitor console offering twelve mono sends and one stereo send, for use in touring of fixed applications. A compact frame reduces on-stage space requirements and the modular design allows for future expansion and ease of maintenance.

➡ **32, 40 AND 48 INPUT FRAMES**

4-BAND EQ ➡

➡ **12 MONO OUTPUTS PLUS STEREO MIX**

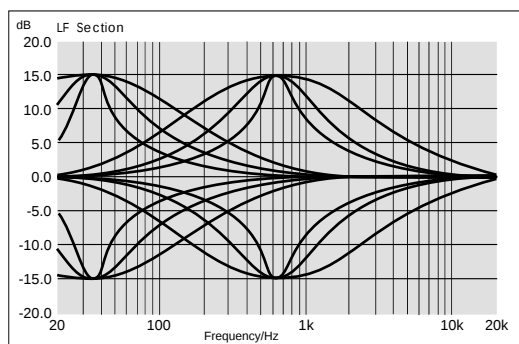
FLEXIBLE SUB-GROUPING ➡

➡ **COMPACT RUGGED FRAME**

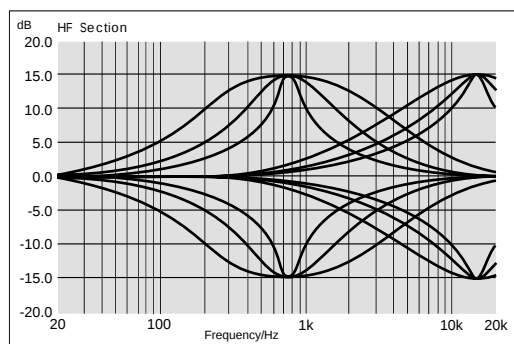
4 MUTE GROUPS ➡

TYPICAL EQ CURVES

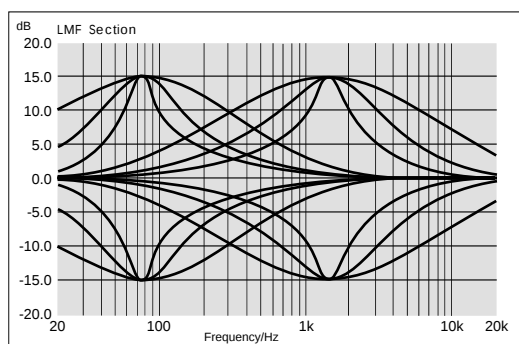
LF



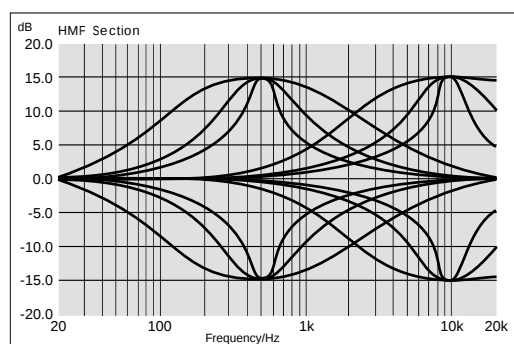
HF



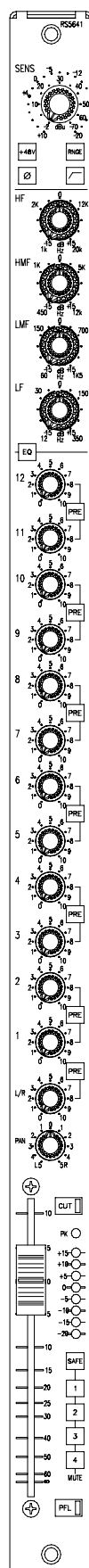
LMF



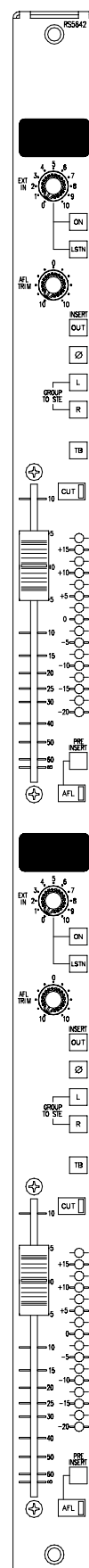
HMF



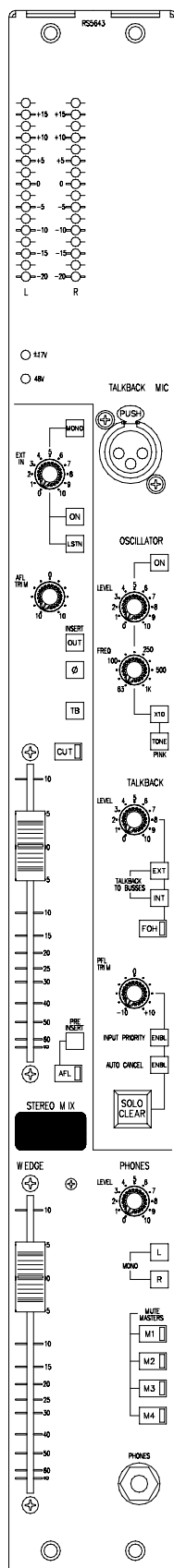
INPUT MODULE

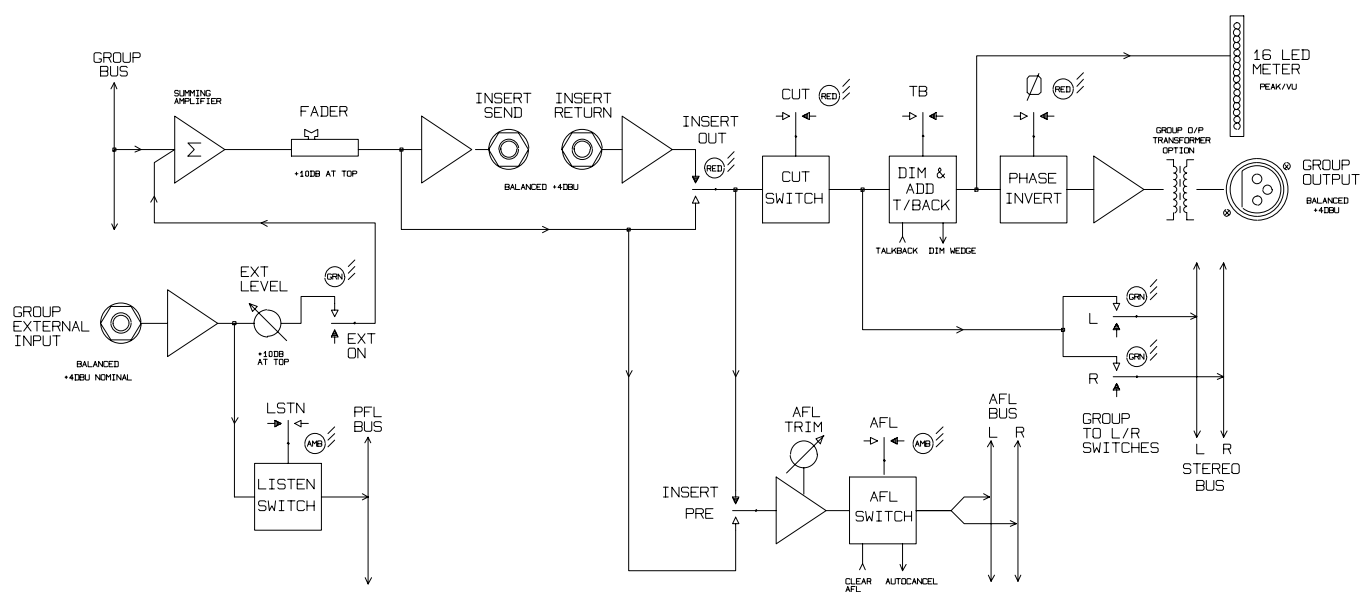
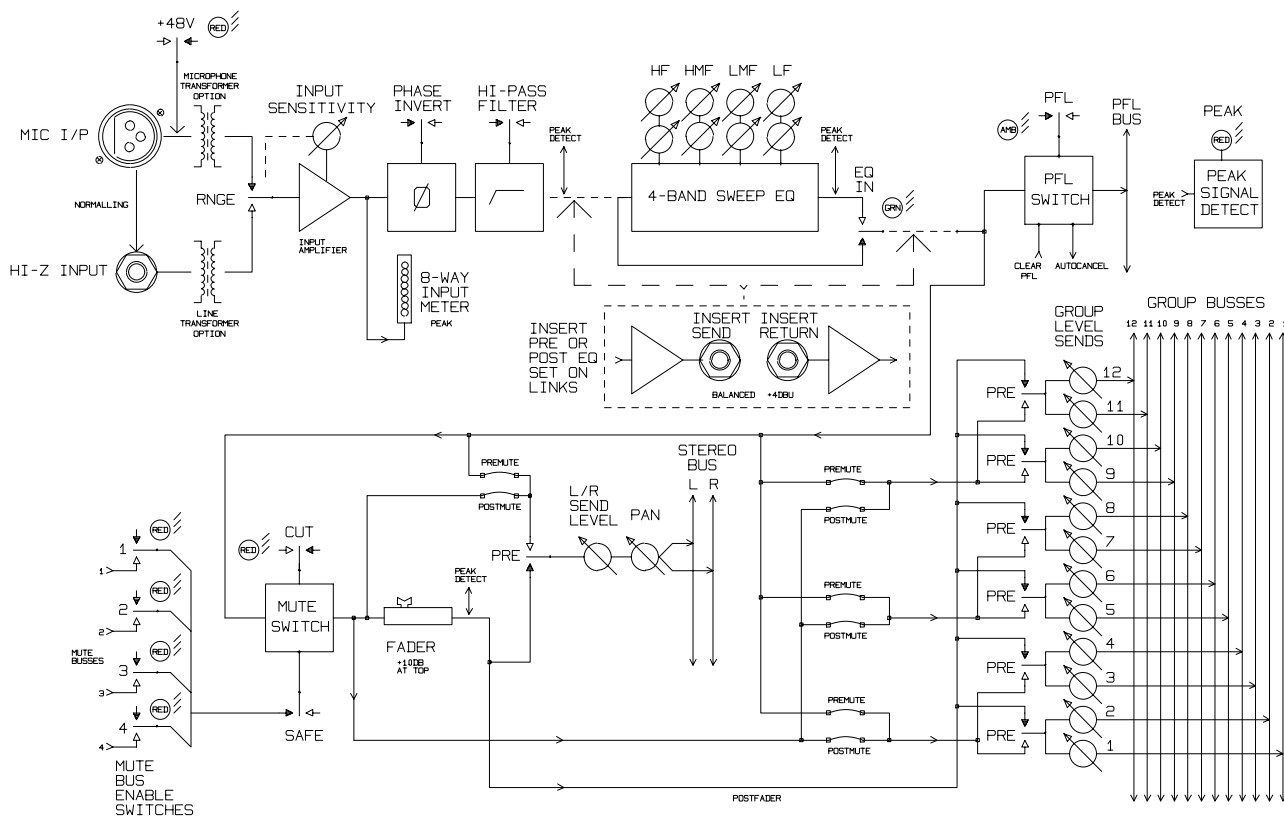


OUTPUT MODULE



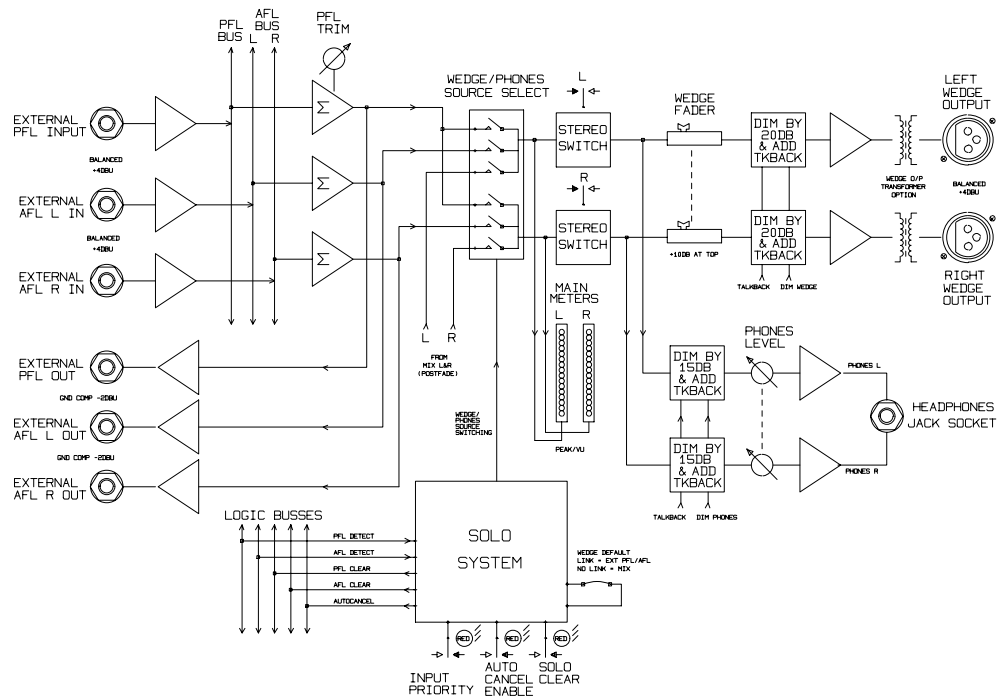
MASTER MODULE





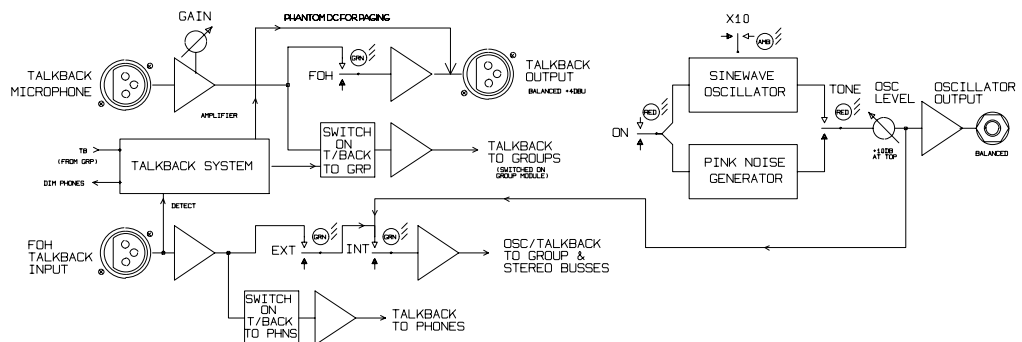
MASTER MODULE

WEDGE & HEADPHONES

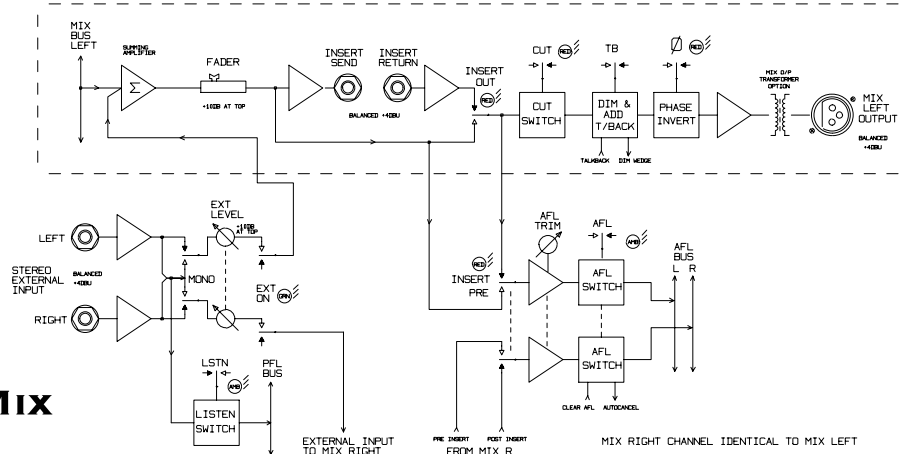


TALKBACK

OSCILLATOR



STEREO MIX



ARCHITECT'S SPECIFICATION

The **Mixing Console** shall be of a fully modular construction available in 32, 40 and 48 input frames. The mixing console shall provide twelve mono sends, a single stereo send and stereo engineer's wedge output. As standard, the console shall be provided with 6 Dual Group Output modules and 1 double-width Master module. All frames will be supplied with a separate PSM300 19 inch rack-mounting **Power Supply**.

The **Input Module** shall have the following features; an electronically balanced low impedance input via an XLR socket and high-impedance input on a three-pole balanced jack with a continuously variable gain giving a sensitivity range of -2dBu to -70dBu (high gain range) and -20dBu to +10dBu for high level inputs, switchable 48V phantom power, a 100Hz filter and phase switch, by-passable 4-band sweep equaliser 1kHz to 20kHz (HF) 450Hz to 12kHz (HMF), 60Hz-1.5kHz (LMF) and 12Hz to 350Hz (LF) with a fixed Q of 1.3. All bands have a cut and boost of 15dB (centre detented). 12 mono sends shall be provided with individual level controls and pre/post fader switching in pairs with internal selection to pre or post mute. Routing to the stereo feed shall be via rotary level and pan controls which may be switched pre or post fader and internally selected to be pre or post mute. Illuminated Solo and Cut switches shall control the main signal path and allow the prefade signal to be monitored at all times. An 8 segment LED meter and a separate peak indicator shall be provided, plus a Peak LED to indicate internal levels within 6dB of clipping. Four mute assign switches shall be fitted, with an additional Safe switch for removing a channel from one of the four mute groups. There shall be a link-selectable pre or post EQ insert point using separate balanced send and return jacks. All connectors shall be integral with the main module.

The **Mono Output Module** shall contain 2 identical output sections as follows; 100mm fader with 20-segment peak or average-reading LED meter, balanced by-passable insert point, illuminated Cut switch and AFL switch which may be switched to monitor pre or post the insert point, stereo routing switches, Talkback switch and phase reverse. A mono external input shall be provided to allow console linking, with rotary level control, On and Listen switches. An AFL trim control shall be provided with a range of +/-10dB. External inputs shall be connected via balanced jacks; mono outputs shall use electronically balanced XLRs with a transformer option.

The **Master Module** shall have a stereo L/R 100mm master fader with illuminated Cut switch and AFL switch which may be switched to monitor pre or post the insert point, stereo routing switches, Talkback switch and phase reverse. An AFL trim control shall be provided with a range of +/-10dB. A stereo external input shall be connected via balanced jacks and will have a rotary level control, On and Listen switches. The Master module shall also contain a Talkback mic socket with routing to internal busses, FOH and external output, variable frequency oscillator/pink noise generator, Solo Clear, Input Priority and Intercancel selection with PFL trim control, stereo/mono engineer's wedge fader, independent headphone socket and level control, 4 mute group master switches and 2 x 20-segment LED L and R master meters.

The dimensions and specifications shall be as published on page 8 of the SM12 brochure (part no. ZL0177/0178). The console shall be the Soundcraft SM12.

CONFIGURATION INFORMATION

SM12 32 channel

SM12 40 channel

SM12 48 channel

(Above consoles supplied with 1 x PSM300 PSU)

RW5149

RW5150

RW5151

SM12 Mono Input Module

SM12 Output Module

SM12 Master Module

SM12 Blank Module

Spare PSM300 Power Supply

RS4641/RS5641

RS4642/RS5642

RS4643/RS5643

PB0672-01

RW5234

SM12 Customer Spares Kit

Spare User Manual

Technical Manual

Littlite 18" 4 pin XLR

RZ2388

ZM0075

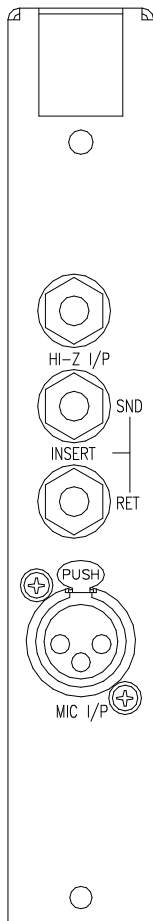
ZM0076

JB0154

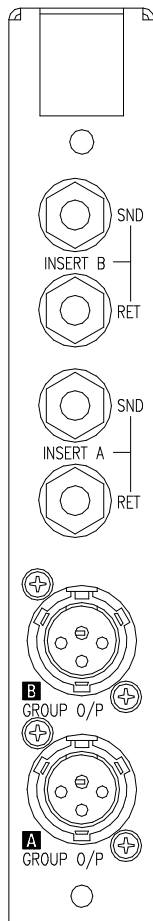


REAR CONNECTOR PANELS

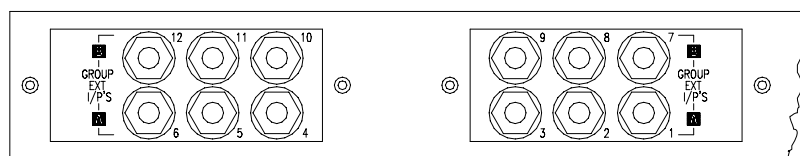
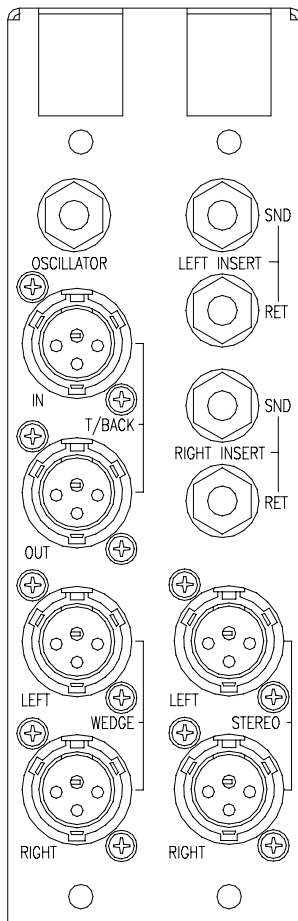
Input



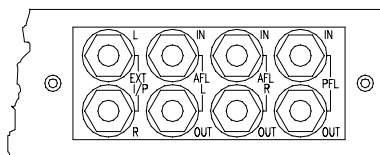
Output



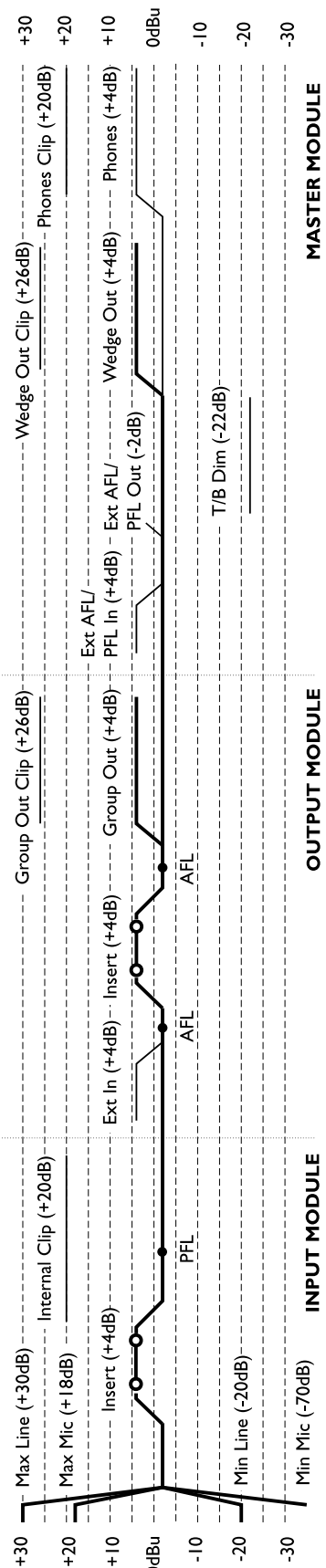
Master



External Inputs



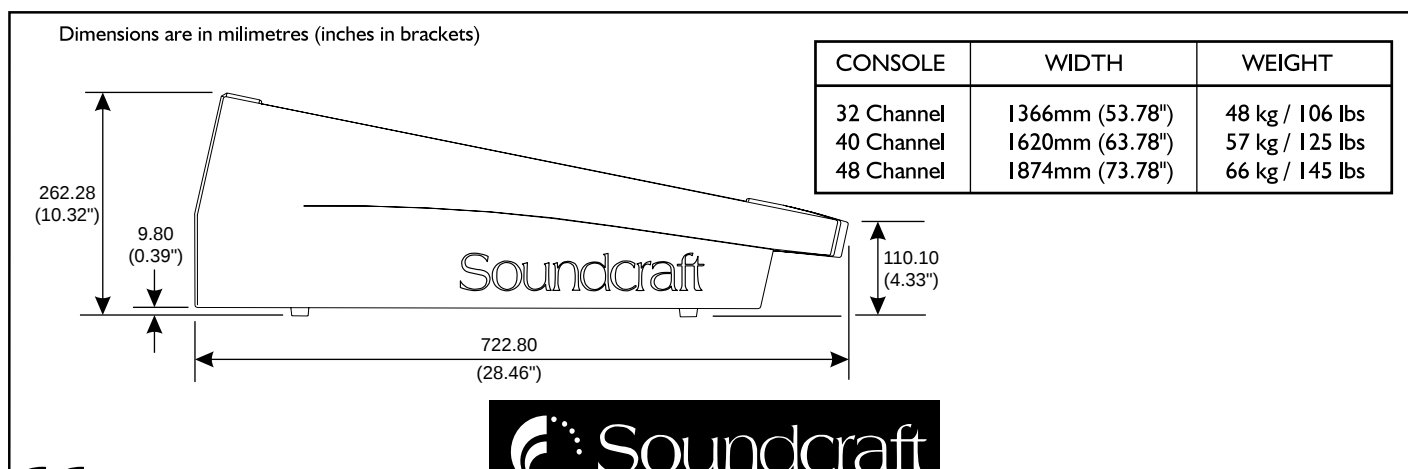
NOMINAL LEVEL DIAGRAM



TYPICAL SPECIFICATION

Frequency Response	Any input to any output	20Hz - 20kHz, +0/-0.5dB
Total Harmonic Distortion	(All measurements at +20dBu) Line In to Group or Mix out	Less than 0.005% @ 1kHz Less than 0.025% @ 10kHz
Noise	(22Hz-22kHz bandwidth, unweighted) Mic Input Equivalent Input Noise Group Output Noise Mix Noise	Less than -127.5dBu (150Ω Source) Less than -82dBu (40 ch routed) Less than -84dBu (40 ch routed)
Crosstalk	(All measurements at 1kHz) Input Channel Muting Input Channel Send Pot isolation Group Fader isolation Group to Group crosstalk Group to Mix crosstalk Mix to Group crosstalk	Greater than 100dB Greater than 75dB Greater than 95dB Less than -75dB Less than -75dB Less than -75dB
Input and Output Impedances	Mic Inputs Hi-Z and Line Input Input Insert Send Input Insert Return Output Insert Send Output Insert Return Outputs	2kΩ balanced Greater than 10kΩ balanced Less than 75Ω balanced Greater than 10kΩ balanced Less than 75Ω balanced Greater than 10kΩ balanced Less than 75Ω balanced
Input/Output Capability	Mic Maximum Input Level Line Maximum Input Level Input Insert Sends Input Insert Returns Output Insert Sends Output Insert Returns All Balanced Outputs Headphone Output	+28dBu +30dBu +26dBu into 1kΩ +26dBu +26dBu into 1kΩ +26dBu +26dBu into 1kΩ +20dBu into 1kΩ 150mW into 8Ω
Input and Levels	Mic Input Sensitivity (XLR) Line Input Sensitivity (0.25" jack) Input Insert Send/Return Output Insert Send/Return Outputs	-2dBu to -70dBu, +10dBu to -20dBu +10dBu to -20dBu +4dBu nominal +4dBu nominal +4dBu for 0VU

DIMENSIONS AND WEIGHTS



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