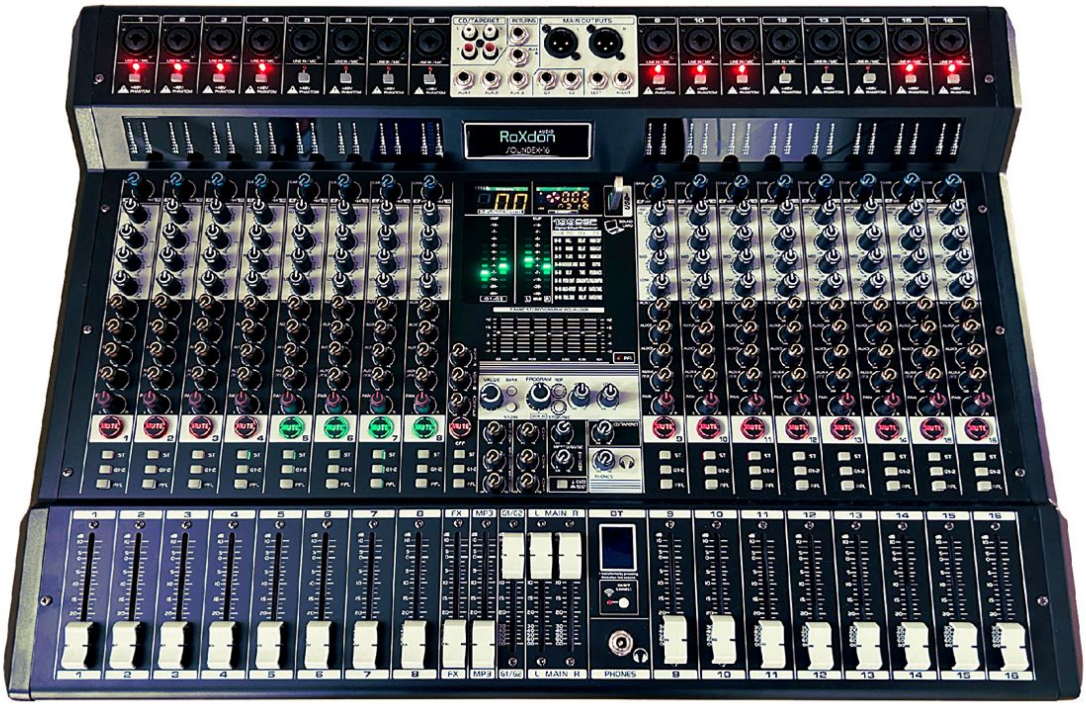
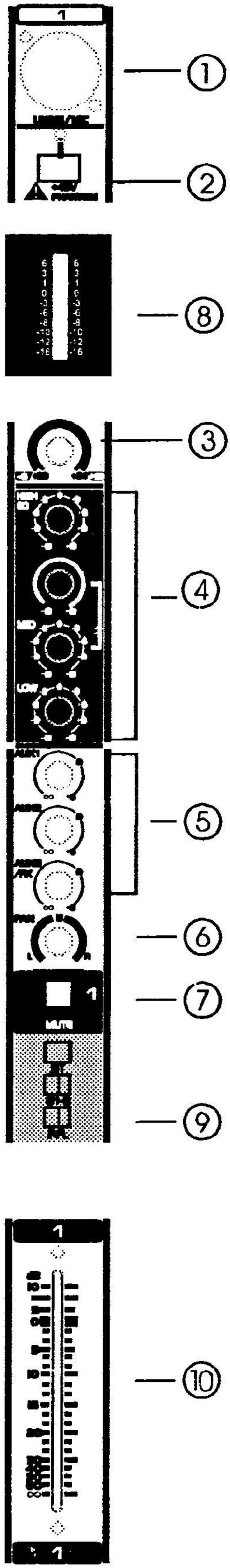
MANUAL



RoXdon Soundex-16

Multi Channel Mixing Console

www.roxdon.com



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1. XLR Microphone Input, 1/4” Jack Line Input
2. 48v Phantom power Indicator LED
3. Input Gain Control
4. 3-Band EQ section with sweepable Mid band
5. Auxiliary 1 - 3 SENDS, Aux 4 is post fader to the onboard FX processor
6. PAN control
7. Channel MUTE switch
8. Bar graph input level LED
9. Switches for: channel to stereo bus (ST), channel to G bus (G1-2), Pre fader listen (PFL)
10. Channel Fader

CONNECTION CENTRE SECTION

11. CD phono inputs or other line level device
12. Record out phonos to tape machine or other recording device
14. Auxillary SENDS and Return jacks
15. MAIN outputs (Balanced XLR’s or 1/4” Jacks, G1/G2 output jacks

CENTRE SECTION

BT: Bluetooth input with on/off connect button

PHONES: Stereo Headphone Socket

USB: Connection for USB device playback

PFL LED: Prefade listen indicator

LEFT / RIGHT: Main output LED bargraph meters

G1 / G2: Output LED bargraph meters

7 BAND EQ: Stereo Output Graphic Equaliser

PHONES: Headphone output level control

G1/G2 to ST: G Bus to Stereo bus switch

199DSP: Digital Effects Processor with full control for selection and storage

Specifications

MICROPHONE INPUTS

Type	XLR, electronically balanced, discrete input circuit
Mic E.I.N. (20 Hz - 20 kHz)	
@ 0 Ω source resistance	-134 dB / 135.7 dB A-weighted
@ 50 Ω source resistance	-131 dB / 133.3 dB A-weighted
@ 150 Ω source resistance	-129 dB / 130.5 dB A-weighted
Frequency response	<10 Hz - 150 kHz (-1 dB), <10 Hz - 200 kHz (-3 dB)
Gain range	+10 to +60 dB
Max. input level	+12 dBu @ +10 dB Gain
Impedance	approx. 2.6 kΩ balanced
Signal-to-noise ratio	110 dB / 112 dB A-weighted (0 dBu In @ +22 dB gain)
Distortion (THD+N)	0.005% / 0.004% A-weighted

Line input

Type	¼" TRS connector electronically balanced
Impedance	approx. 20 kΩ balanced
	10 kΩ unbalanced
Gain range	-10 to +40 dB
Max. input level	30 dBu

FADE-OUT ATTENUATION[1] (CROSSTALK ATTENUATION)

Main fader closed	90 dB
Channel muted	89 dB
Channel fader closed	89 dB

FREQUENCY RESPONSE

Microphone input to main out

<10 Hz - 90 kHz	+0 dB / -1 dB
<10 Hz - 160 kHz	+0 dB / -3 dB

Stereo inputs

Type	¼" TRS connector, electronically balanced
Impedance	approx. 20 kΩ
Max. input level	+22 dBu

EQ mono channels

Low	80 Hz / ±15 dB
Mid	100 Hz - 8 kHz/ ±15 dB
High	12 kHz/ ±15 dB

EQ stereo channels

Low	80 Hz / ±15 dB
Low Mid	500 Hz / ±15 dB
High Mid	3 kHz / ±15 dB
High	12 kHz / ±15 dB

Aux sends

Type	¼" TS connector, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Stereo aux returns

Type	¼" TRS connector,
	electronically balanced
Impedance	approx. 20 kΩ bal. / 10 kΩ unbal.
Max. input level	+22 dBu

Main outputs

Type	XLR, electronically balanced and ¼" TRS balanced
1622FX only:	¼" TS connector unbalanced
Impedance	approx. 240 Ω symm. / 120 Ω unbalanced
Max. output level	+28 dBu
	+22 dBu

Control room outputs

Type	¼" TS connector unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Headphones outputs

Type	¼" TRS connector, unbalanced
Max. output level	+19 dBu / 150 Ω (+25 dBm)

DSP

Converter	24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	40 kHz

MAIN MIX SYSTEM DATA[2]

Noise

Main mix @ -∞ Channel fader @ -∞	-101 dB -100 dB
Main mix @ 0 dB, Channel fader @ -∞	-93 dB -96 dB -87 dB
Main mix @ 0 dB, Channel fader @ 0 dB	-81 dB -83 dB -80 dB

Power supply

Mains voltage	230 V~, 50/60 Hz