

VOSS AUDIO SM68 Series Digital Mixing Console



This product is a multi-functional digital mixing console, equipped with Linux operating system. It

has a 15.6-inch large screen, 48KHz sampling rate, 192KHz ADC and DAC converter. The operation is simple and intuitive, the man-machine interface is friendly, The response speed is fast. A variety of effect types and self-identification stage box are available. It is suitable for large,

medium and small performances, mobile performances, multi-function halls and other scenarios.

Features:

▼ 15.6-inch Capacitive Touchscreen

1920×1080 resolution, professional-grade display precision for accurate fingertip control and clear visuals.

▼ 13 x 100mm Travel Dust-Proof Motorized Faders (vertical installation)

Precise level control with smooth, stepless operation.

▼ 28/36 Physical Input Channels

- 22/30 XLR analog input channels with MIC preamps (including 8 COMBO jacks)

- 1 stereo USB playback input

- 1 AES input

▼ 16/24 Physical Output Channels

- 8/16 XLR analog output channels
- 1 stereo TRS monitor headphone output
- 1 USB recording output
- 1 AES output

▼ 22 Mix Buses

- 14 mono buses
- 4 FX buses
- 2 mono MTRX matrix output buses
- 1 stereo main output bus

▼ Input Channel Features

48V phantom power switch, analog/digital gain, phase, 0–500ms delay, pan/balance, volume, custom channel labels, 5-band PEQ (with selectable modes: PEQ/High-shelf/Low-shelf/HPF/LPF), noise gate, compressor, RTA, RTA freeze, all-pass filter, and more.

▼ Output Channel Features

0–500ms delay, pan/balance, volume, custom channel labels, 6-band PEQ (with selectable modes: PEQ/High-shelf/Low-shelf/HPF/LPF), compressor, RTA, RTA freeze, all-pass filter, and more.

▼ New: Channel Freeze Function

Instantly freeze the current RTA state of a channel for easy frequency response analysis during complex live performances.

▼ New: All-Pass Filter

Enables precise phase control, lossless signal routing, and flexible sound field adjustment.

▼ New: Local Music Library

One-touch import of music metadata for quick access.

▼ 4 FX Buses with 12 Effects

Delay, Flanger, Hall Reverb, Room Reverb, Delay Reverb, Overdrive, Phaser, Pitch Shift, Tremolo, Limiter, Distortion, and Chorus—freely combinable.

▼ Built-in professional preset libraries:

Including Noise Gate, Compressor, EQ, GEQ, and Effects – enable one-touch load for effortless sound shaping

▼ Optional Expansion

▼ Gain Finder on Input Channels

Quickly identifies optimal gain settings.

▼ 8 × DCA Groups, 6 × Mute Groups

▼ 15 × Customizable Function Keys

Assign any of 15 programmable functions for streamlined operation.

▼ Supports saving, loading, importing, and exporting scenes/effects.

▼ LAN & USB WiFi Connectivity

Web-based Software control supports multi-device access.

▼ Web-based Software

Import/export functionality in web control mode.

▼ Bilingual UI

Instant toggle between Chinese/English.

▼ Dual-Level Panel Lock

Prevents accidental operation.

Applicable place:

Large, medium and small conferences, mobile performances, multi-function halls, etc.

Technical Parameters:

Processing Channels	Input Channels	28/36 Physical Input Channels - 22/30 XLR analog input channels with MIC preamps (including 8 COMBO jacks) - 1 stereo USB playback input - 1 AES input
	Output Channels	16/24 Physical Output Channels - 8/16 XLR analog output channels - 1 stereo TRS monitor headphone output - 1 USB recording output - 1 AES output
	Mixing Bus	22 Mix Buses - 14 mono buses - 4 FX buses - 2 mono MTRX matrix output buses - 1 stereo main output bus
	Internal Effects	4 FX Buses with 12 Effects: Delay, Flanger, Hall Reverb, Room Reverb, Delay Reverb, Overdrive, Phaser, Pitch Shift, Tremolo, Limiter, Distortion, and Chorus—freely combinable.
	GEQ Modules	6x31-band GEQ
	Noise Gate	Threshold: -100 to -20 dB Attack Time: 3 to 100 ms (1 ms steps) Hold Time: 0 to 2000 ms (1 ms steps) Release Time: 6 to 3200 ms (1 ms steps) Range: -∞, -72 to 0 dB (1 dB steps) Modes: Noise Gate / Ducking (Configurable)
	Compressor	Threshold: -54 to 0 dB Attack Time: 3 to 100 ms Hold Time: 0 to 2000 ms Release Time: 6 to 3200 ms (1 ms steps) Ratio: 1:1 to 50.0:1, ∞:1 Gain: 0 to 18 dB Knee: 0 to 20 dB (Soft) Modes: Compressor / Sidechain (Configurable)
	EQ	Input: 5-band, Output: 6-band Frequency: 20Hz~20kHz (-20dB/+20dB) Q Value: 0.404~18.031 Type: PEQ/High Shelf/Low Shelf/HPF-LPF Gain: -18dB to +18dB
	All-Pass Filter	AP90 & AP180
	High/Low Pass	High pass: 20Hz to 400Hz,

		Low pass: 400Hz ~ 20KHz
	Delay	0 ~ 500 ms.
	Phase	Normal/Invert
	RTA	EQ/GEQ RTA Display: Real-time 31-band frequency spectrum analyzer
	Scene Files	Up to 100 scenes can be saved.
	Effects Library	Up to 100 effect presets can be saved.
	A/D Converter	24-bit, 192KHz, 115dB dynamic range.
	D/A Converter:	24-bit, 192KHz, 129dB dynamic range.
	Microphone/Line Input XLR Ports	22/30 ports, including 8 COMBO ports for balanced input
Connectors	XLR Output Ports	16/24 ports
	Headphone Output TRS Port	1 port, stereo
	USB Port For Sound Card	Rear panel USB port, 2×2 channel, 48kHz, UAC 2.0 protocol
	Other USB Ports	Front panel Dual USB-A Ports for: <ul style="list-style-type: none"> • Stereo recording/playback • Firmware updates • Scene/effect libraries import/export • WiFi module connectivity (wireless control)
	LAN Port	RJ-45 Ethernet port: Enables wired network connectivity
	Expansion Slot	Optional Bluetooth module / 32×16 stage box interface card / 16×16 sound card interface card
Input Characteristics	Input Impedance	Balanced 11KΩ, unbalance 5.5 KΩ
	Frequency Response	20Hz~20KHz (+/-0.5dB)
	Maximum Input Level	+22dBu
	Phantom Power	+48V (IN1 to IN22/IN30)
	Gain	Analog gain: 0dB to 60dB Digital gain: -24dB to +24dB
	S/N R	115dB (Gain = 0dB, A-weighted)
	Dynamic Range	116dB (Gain = 0dB, A-weighted)
Output Characteristics	THD	0.005% (Gain =0dB and Output =0dBu, un-weighted)
	Frequency Response	20Hz~20KHz (+/-0.5dB)

	Maximum Output Level	+21.5 dBu
	Output Impedance	50 Ω
	Channel Separation	113dBu
	Background Noise	-89dBu (Gain = 0dB)
	Phase Difference	<0.05deg
Monitor and Headphone Characteristics	Output Impedance	<50 Ω
	Maximum Output Level	+20dBu
	Background Noise	-76dB (Gain = 0dB)
Digital I/O	Digital I/O	USB Playback and recording via USB flash drive: Supports playback of MP3, WAV, and FLAC files, USB3.0, WAV for recording..
	Channel Crosstalk	111dB
General	Sampling Frequency	48KHz
	Hardware Programming & Circuit Design	FPGA (Field-Programmable Gate Array)
	Display	15.6" touchscreen with 1920x1080 resolution
	Motorized Faders	13 x 100mm travel dust-proof motorized faders (vertical installation)
	System	Linux
	Network	LAN network port and external USB network module, supporting Web-based software control
	Power	AC 100~240V 50/60Hz Input
Hardware	Power Consumption	50W
	Operating Temperature	-10℃~40℃
	Dimensions	
	Weight	
	Accessories	Wi-Fi module