

CM24 CM32

24 32 Channels Digital Mixing Console



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Description

The Digital Mixing Console is effectively integrated with innovative design and powerful DSP functions, bringing users a very professional functional experience. It adopts the ARM Processor to drive the touch screen display and interface and the Linux System for stable and efficient operation. Electric faders are standard on digital mixing consoles, providing instant control of all channels and main outputs in a compact space: 1 LR main channel fader, 16 channel faders, and 4 fader layers for easy and fast switching.

Features

- 10" resistive touch screen 1280×800 resolution.
- 17 100mm electric faders.
- Can switch between Chinese and English interfaces at any time without reboot.
- With built-in USB recording and playback functions.
- Support playback of APE, FLAC, MP3, WAV lossless audio formats.
- Can recognize Chinese song names with the USB player.
- With built-in 16-channel independent feedback suppressors.
- With 8 DCAs.
- Support iPad touch screen full-featured control, and real-time data synchronization.
- Support 8 terminals to control simultaneously.
- With built-in 2 effect modules.
- Can upgrade the ARM firmware and DSP firmware through the network or USB resistance disk.
- With 4-band parametric EQ, noise gate, feedback suppressor, high and low pass, compressor, and inverter for each input channel.
- With parametric EQ, high and low pass, compressor, inverter, and 1s delayer for each output channel.
- With output channels: L/R, 10 BUS, HeadPhone(L/R).
- Can select pre-fader or post-fader (PRE/POST) for 10BUS mix bus.

- Support 100 groups of scene preset function, and can export and import USB storage, convenient for data backup.
- Support 32 PEQ modes storage.
- With built-in signal generator: sine wave, pink noise, white noise.
- With channel parameter copy function, the same channel can quickly copy data.
- Support wiring method: balanced input and output XLR.
- With 8 fader groups, 8 user-defined buttons, and 4 quick mute buttons.
- With panel lock button (to prevent misuse).
- Support customized channel name.

Specifications

Model	24 Popular Edition	32 Popular Edition	CM24	CM32
Analog Input	24CH (MIC/Line)	32CH (MIC/Line)	24CH (MIC/Line)	32CH (MIC/Line)
Analog Output	L/R+10BUS+Headphone(L/R)			
Noise Floor	-88dBu unweighted, AES17 (20Khz)		-92dBu unweighted, AES17 (20Khz)	
THD+N Distortion	0.005% @4dBu 20~20Khz		0.005% @4dBu 20~20Khz	
SNR	106dB unweighted		108dB unweighted	
Dynamic Range	106dB unweighted		108dB unweighted	
Maximum Input Level	Balanced 19.5dBu		Balanced 20dBu	
Maximum Output Level	Balanced 19.5dBu		Balanced 20dBu	
Frequency Response	20Hz—20KHz ±0.3dB			
Screen Size	10"			
Resolution	1280x800			
Touch Control	Resistive			
Main Control CPU	Samsung 4418 quad-core Cortex™-A9			
Boot Speed	36 seconds			
Operating System	Linux			
DSP	ADSP-21489 400Mhz			
USB	Recording and playback (APE, FLAC, MP3, WAV playback formats)			
DCA	Support			
Chinese and English Interface	Support			
Electric Faders	17			
iPad Control	Support			
Effect	2 effect buses (6 preset effect parameters, 24 users storage)			
Feedback Suppressor	16, independent			
Ethernet	Support			
RS-232 Protocol	Support			
USB Mouse	Support wired USB mouse			
Power Supply	AC 100V-240V; 50/60Hz 155W			
Dimensions (W*D*H)	610x650x230mm			
Net Weight	22.1kg			
Package Weight & Dimensions	39.5kg (Flight case packaging) 800×710×350mm 26.5kg (Carton packaging) 758×735×350mm			

Front / Rear Panel



The physical keys, faders and digital encoders on the front panel of the mixing console can respond in real time.

- **USB:** Can connect a USB flash disk or a mouse.
- **L/R METER:** Main output L/R real-time level.
- **HEADPHONE:** Headphone output jack.
- **MONITOR VOLUME:** Rotate to adjust the headphone monitoring volume; press to set it mute or unmute.
- **GAIN:** Valid after selecting the input channel; adjust the analog gain; rotate for coarse adjustment, step by 1dB; press and rotate for fine adjustment, step by 0.1dB.
- **48V:** Valid after selecting the input channel; turn on or off the phantom power. Light on for open, off for close.
- **HPF/LPF:** Valid after selecting the input or bus channel; rotate to adjust the frequency of the high-pass or low-pass filter; press to toggle the high-pass or low-pass filter.
- **-6/-24/-48:** Valid after selecting the input or bus channel; adjust the slope of the high-pass or low-pass filter.
- **PEQ FREQ/Band:** Valid after selecting the input or bus channel; rotate to adjust the frequency of the current band of parametric equalization; press to switch the parametric equalization band.
- **PEQ GAIN/Band:** Valid after selecting the input or bus channel; rotate to adjust the gain of the current band of parametric equalization; press to switch the parametric equalization band.
- **PEQ Q:** Valid after selecting the input or bus channel; rotate to adjust the bandwidth of the current band of parametric equalization.
- **PEQ Bypass:** Valid after selecting the input or bus channel; set the equalizer bypass or not. Light on for bypass, off for not bypass.
- **GATE:** Valid after selecting the input channel; rotate to adjust the noise gate parameters; press to toggle the threshold / attack time / release time.
- **LIMITER:** Valid after selecting the input / bus / headphone / recording channel; rotate to adjust the limiter parameters; press to toggle the threshold / slope / attack time / release time.
- **DELAY:** Valid after selecting the bus channel; rotate to adjust the delay parameters.
- **GATE/ LIMIT Bypass:** Valid after selecting the input / bus / headphone / recording channel; set the equalizer / limiter bypass or not. Light on for bypass, off for not bypass.
- **EFX:** Rotate to adjust the send amount of the input channel to the effect channel; press to switch the effect channel.
- **BUS:** Rotate to adjust the send amount of the input channel to the bus channel; press to switch the bus channel.
- **PAN:** Valid after selecting the input channel; rotate to adjust the pan.
- **EDIT DATA WHEEL:** Adjust the parameters currently selected on the touch screen.
- **HOME:** Switch the fader layer to IN1-16, and switch the touch screen to the input channel preview page.
- **SCENE:** Switch the touch screen to the scene page.
- **EFFECT:** Switch the touch screen to the effect page.
- **COPY:** Switch the touch screen to the copy page.

- **METER:** Switch the touch screen to the level meter page.
- **LOCK:** Lock the panel and touch screen operations.
- **REC/PLAY:** Switch the touch screen to the Rec/Play page.
- **SETUP:** Switch the touch screen to the setup page.
- **USER DEFINE KEY A/B/C/D/E/F/G/H:** User-defined keys, which can be configured to mute / recall scene / user fader layer. The default button A is the system mute, and other buttons are not configured.
- **IN1~16:** Fixed fader layer. If selected, the fader 1~16 means the input channel 1~16.
- **IN17~32:** Fixed fader layer. If selected, the fader 1~16 means the input channel 17~32.
- **BUS/EFF:** Fixed fader layer. If selected, the fader 1~10 means the bus channel 1~10, and the fader 11~12 means the effect channel 1~2.
- **DCA1~8:** Fixed fader layer. If selected, the fader 1~8 means the DCA channel 1~8.
- **SEL:** Select the channel.
- **MUTE:** Mute or unmute the channel.
- **SOLO:** Turn on or off the solo for the current channel.