

VOKON Digital Mixing Console [20 Channels]

VM-D20FD



Product Overview

VM-D20FD is a professional all-in-one digital mixer powered by a 5-core 1.8GHz Linux processor, boasting a 10.1-inch bilingual touchscreen and 17 motorized faders for intuitive operation. It offers 16 mic/line inputs and abundant output channels, expandable via dual stage boxes, with optional Dante/Bluetooth modules for network audio and wireless streaming.

Loaded with comprehensive DSP algorithms: per-channel feedback suppression, multi-band EQ, auto-mixing, dual effect buses and 96-band RTA. It supports 100 scene storage, USB recording/playback, RS232/UDP central control and cross-platform software management. Featuring ultra-low distortion, wide dynamic range and stable virus-free system, it fits conferences, stages and multi-function venues perfectly.

Suitable for applications including:

- ✓ Indoor & outdoor live stage performances
- ✓ Large multi-functional conference centers
- ✓ Hotel banquet halls and event venues
- ✓ Campus auditoriums and lecture theatres
- ✓ Theater, opera house and performance halls
- ✓ Government press conference rooms
- ✓ Exhibition halls and business launch events
- ✓ Church worship and activity venues
- ✓ KTV, bars and entertainment clubs
- ✓ Sports stadiums and gymnasium events



Key Features

- 10.1-inch Chinese/English switchable HD touchscreen, built-in virus-free Linux OS with 5-core 1.8GHz CPU, fast 17-second boot and auto-save all configurations.
- Rich I/O layout: 16 mic/line inputs, multi-type stereo digital inputs, Main L/R + 12 AUX outputs, expandable via dual stage boxes; optional Dante, Bluetooth and recording modules.
- 17 motorized 100mm faders, quick channel copy, color-labeled channels, 8 DCA/mute/matrix groups and 8 custom physical shortcut buttons.
- Comprehensive built-in DSP processing: independent feedback suppressor per input, multi-band PEQ/GEQ, compressor, noise gate, delay, auto-mixing, dual internal effect buses and 96-band RTA.
- Supports 100 editable scene presets with gapless switching, USB scene import/export, built-in signal generator and talkback function.
- Complete control expansion: RS232/UDP open API, cross-platform control software for mobile & PC, multi-layer password lock and one-key factory reset.
- Premium audio performance: 48kHz sampling rate, 112dB dynamic range, ultra-low THD <0.0003%, flat 20Hz–20kHz frequency response.
- Compact integrated all-in-one console structure, lightweight 10.8kg body, convenient for stage, conference and venue fixed or mobile sound reinforcement.

Technical specifications

Model	VM-D20FD
Touch Screen	10.1-inch HD touch display, Chinese/English bilingual switchable UI
Operating System	Linux system, anti-virus, stable and secure
Processor	5-core CPU (quad-core + 1 auxiliary core), 1.8GHz main frequency, boot time 17s
Input Channels	16×Mic/Line inputs; 3×Stereo inputs (2×RCA, 1×3.5mm TRS AES digital)
Output Channels	Main L/R, 12×AUX, 1×Headphone monitoring, 1×AES digital output
Expandable I/O	Support 2pcs 16-in/8-out stage boxes; optional Dante module / Bluetooth card / 32×32 network recording card
Fader	17pcs 100mm motorized faders
Physical Shortcut Keys	8 customizable function keys
Group Mixing	8 DCA groups, 8 mute groups, 8 matrix groups (custom naming)
Built-in Modules	Signal generator, 96-band RTA real-time analyzer, feedback suppressor, auto-mixer, talkback mic, dual DSP effect buses, USB audio interface
Channel Processing	Input: Compressor, Noise Gate, HPF/LPF, 5-band PEQ, Delay, Phase reverse, Sidechain ducking Output: HPF/LPF, Main 31-band EQ, Aux 15-band EQ, Compressor, Delay
Phantom Power	Independent +48V per mic channel, scene recallable
Scene Storage	Max 100 custom named scenes, USB import/export, 8 quick recall keys
Control Protocol	RS-232, UDP, open API; supporting iOS/Android/Windows/Kylin control software
Input Sensitivity	XLR:1.5mV; TRS:7mV; RCA stereo: nominal +4dB
Input Gain Range	-32dB ~ +10dB
Max Input Level	XLR:+19dBu; TRS:+29dBu; RCA:+29dBu
Input Impedance	MIC > 5kΩ; LINE > 10kΩ; RCA > 7kΩ
SNR	XLR≥92dB; TRS≥82dB
THD	< 0.0003% @1kHz full power
Frequency Response	20Hz–20kHz ±0.5dB
Sampling Rate	48kHz ±100ppm
Dimensions (L×W×H)	515 × 503 × 255 mm
Weight	10.8 kg