



Description

A powerful and flexible digital mixing console. Equipped with a 15.6-inch touchscreen, it features built-in parametric equalizer, compressor, noise gate, and other DSP processing functions. It also boasts 2-channel FX effects, automatic mixing, feedback suppression, and other practical features. Supporting multi-terminal control and scene storage, it is suitable for various applications such as conference rooms and small lecture halls.

Features

- *It features a 15.6-inch 1920×1080 pixel color TFT capacitive multi-touch screen that can display information such as menu bar, channel level, gain, device name, USB connection status, temperature, and runtime in real time.
- *It features a panel lock function, supporting screen lock/unlock, requiring a password to unlock to prevent accidental operation; and also supports changing and resetting the password.
- *It features 12 microphone/line inputs (XLR, supporting 48V phantom power and can be switched on and off individually), 2 line stereo inputs, 1 USB stereo input, and 1 USB sound card stereo input, with sensitivity that can be flexibly adjusted according to different audio sources.
- *It features 2 main outputs (XLR), 6 AUX auxiliary outputs (XLR), 1 stereo monitor output (1/4" TRS), and supports sound card L/R recording output.
- *It features USB recording and playback capabilities, supporting playback of MP3, M4A, AAC, WAV, FLAC, AMR, and OGG audio formats, and recording of WAV audio formats.
- *It features a USB sound card, allowing users to connect to a computer via a USB cable and synchronize audio between the computer and the device.
- *It has one RS-485 interface, which supports connection to the central control system via the 485 protocol to realize remote control of the device, including control of input channel gain, mute setting and mute cancellation, output channel gain, mute setting and mute cancellation, USB playback previous track, next track, start playback, pause playback, playback mode switching, and 1-99 scene mode switching functions.
- *It has one RJ45 Ethernet interface, and PC software can centrally manage one or more devices via a local area network.
- *It features equalizer functionality: each input has a 12-band parametric equalizer; each output can be selected as either a 12-band parametric equalizer or a 31-band graphic equalizer; the parametric equalizer supports three types: high-pass, low-pass, and peak filtering, while the graphic equalizer supports single-point bandwidth adjustment.
- *It features a crossover function and offers three filter types: Bessel, Linkwitz-Rayleigh, and Butterworth. It supports multiple slope settings of 6/12/18/24/32/40/48 dB/oct, and the filter is adjustable across the entire frequency band.
- *It has a compressor function, which can effectively compress the dynamic range of the signal and control the size of the output signal.
- *It has a limiter function, which can limit the amplitude of the output signal and prevent damage to the sound reinforcement equipment due to excessive signal.



Digital Mixer with Built-in Software V3.156

TS-20DM-8

- *It features a noise gate function, which can eliminate background noise according to the actual usage environment and improve speech clarity.
- *It features a delay function, supporting delay adjustment from 0 ms to 2000 ms, used to coordinate the timing of each output signal and ensure audio synchronization for the listener.
- *It features a built-in 2-channel FX effects engine processor, supports dual-channel output, and offers 17 effect types that can be selected according to different application scenarios to create a rich listening experience.
- *The system has extremely low processing latency, with end-to-end audio latency ≤ 2.3 ms.
- *It supports 6 automatic mixing functions, including gain-sharing mixing and gate automatic mixing modes. Each input channel can be independently set to participate in the mixing to adapt to different scenario needs.
- *Built-in feedback suppressor function, supporting notch filtering, frequency shifting, and dynamic/fixed (24 points) to effectively suppress howling.
- *It has a built-in signal generator that can produce three types of noise: white noise, sine wave, and pink noise. The volume is adjustable and it can be assigned to aux1-6 and MAIN channels.
- *It has bus grouping processing function, with 4 built-in DCA groups, 4 silent groups and 6 SUB groups.
- *With built-in monitoring functionality, users can monitor the input channels, effects channels, group channels, and output channels, and adjust the monitoring volume.
- *It supports exporting/importing scene files via USB flash drive, and the device can store 99 user scenes for easy and quick scene switching.
- *Supports channel duplication and channel integration functions.
- *It supports two control methods: PC client and Android tablet, enabling device login, scene switching, input/output configuration, and channel settings; it also supports multiple devices logging in simultaneously and maintaining data synchronization.
- *It features four customizable physical buttons that can be set to "scene recall" or "mute group" control for flexible operation.
- *It has four physical shortcut buttons (main interface shortcut button, menu shortcut button, settings shortcut button, and scene shortcut button), which can directly access the corresponding interface with one click and simplify the operation process.

Specification

Input channel processing	12-band parametric equalizer with high/low frequency rack equalization, HPF and LPF, compressor, noise gate, phase, channel copy, and delay.
Maximum input level	$\geq +22$ dBu
17 FX Effect Modes	REVERB, GATE_REVERB, DOUBLING, MONO_DELAY, STEREO_DELAY, PING_PONG_DELAY, ECHO, SLAP_DELAY, TAPE_DELAY, CHORUS, TREMOLO, WAHWAH, PHASER, SHIFTER, DISTORTION, EARLY REFLECTION, MODULATION_DELAY
Output channel	One main L/R output (XLR), six auxiliary AUX outputs (XLR), one monitor output (stereo 1/4" TRS), and supports sound card L/R recording output.
Output channel processing	1/3 octave band graphic equalizer, parametric equalizer, notch filter, limiter, HPF and LPF channel replication, delay (2 seconds).
Gain	Microphone 75 dB (60 dB analog gain + 15 dB digital gain)
Maximum output level	$+22$ dBu ± 0.2 dBu
audio sampling rate	48kHz
Audio bit depth	32-bit
Total Harmonic Distortion (THD)	$< 0.005\%$, @+4dBu
Frequency response	20Hz–20kHz (± 0.5 dB)
Dynamic range	≥ 111 dB
Signal-to-noise ratio	≥ 110 dB
Operating ambient temperature	-10°C ~ +45°C
Working environment humidity	20%–80% relative humidity, no condensation
working power supply	100-240VAC, 50/60 Hz
Overall power consumption	30W
Dimensions (length × width × height)	448 × 258 × 163mm
Weight	Net weight 5.3kg