



Description

A digital mixer based on high-performance DSP technology, supporting functions including ducker, automatic gain, intelligent mixing, crossover, equalizer and other audio processing functions. Support 16 analog balanced inputs and 4 analog balanced outputs. It is mainly used in the scenarios of analog microphone sound reinforcement and multi-channel sound source mixing, which can meet the application requirements of sound reinforcement systems in conference rooms, courts, auditoriums, multipurpose halls, classrooms, performance venues and other places.

Feature

- * High-performance DSP processing, 64-bit DSP processor, high-precision 32-bit/48kHz AD/DA, providing excellent high-quality sound.
- * With 16 analog inputs and 4 analog outputs, support optional microphone input and line input. Each input supports 48V phantom power, which can be individually configured to turn on or off through PC software.
- * Support 2 mixing groups, each group can freely select input channels and output channel routing.
- * Support the ducker function, which is used to automatically dodge the microphone for background music. It also provides a variety of parameter settings to facilitate flexible on-site application.
- * Support automatic gain function, which is used to control the dynamic range of the input signal to achieve consistent sound quality near and far.
- * Support intelligent mixing functions, including gain sharing mixing and threshold automatic mixing. Input channels can be individually selected to participate in intelligent mixing. According to the application requirements of different scenarios, the corresponding mixing mode and whether the input channel can participate in mixing can be selected. It can effectively solve the pain points of unstable and prone to howling in the sound reinforcement system caused by opening too many microphones.
- * Support the equalizer function and provides graphic equalizer and parametric equalizer types. Each input has a 10-band graphic equalizer or a 5-band equalizer, and each output has a 31-band graphic equalizer or an 8-band parametric equalizer. The graphic equalizer supports multiple types of overhead, bottom shelf, and parametric filters. The graphic equalizer supports single point bandwidth mode configuration.
- * Support the expander function, which can make the audio dynamic range wider by increasing the peak value and attenuation of the audio signal; making the audio sound more real and vivid.
- * The crossover supports three filter types: Bessel, Linkwiche-Rayleigh, Butterworth and 6/12/18/24/32/48db/oct, the filter is adjustable in the entire frequency range.
- * Support device cascading and can be expanded to a maximum of 256 inputs.
- * Support 4 scene switching and flexibly imports and exports scene data.
- * Support restoration of factory settings, device positioning, and automatic power-off memory protection.
- * Support batch upgrade of multiple devices through background management software.
- * With Ethernet Internet interface to control multiple devices online in real time through the network.
- * With intuitive and graphical software interface; support XP/Windows7, 8, 10 and other system environments.
- * Extremely low system delay, delay less than 3ms.



Specification

Model	TS-D1604
Input channel	16 balanced MIC/LINE inputs, using bare wire interface terminals, balanced connection
Output channel	4 balanced line outputs, using bare wire interface terminals, balanced connection
Input sensitivity	MIC IN: 120mV; LINE IN: 775mV
Max input level	15dBu
Max output level	18dBu
Frequency response	20Hz-20kHz (± 1 dB)
THD	MIC $\leq 0.04\%$, LINE $\leq 0.035\%$
Channel isolation	≥ 106 dB @ 1kHz 18dBu (A-weighted)
SNR	≥ 108 dB @ 1kHz 18dBu (A-weighted)
Power supply	AC110V-240V
Working temperature	-10°C~45°C
Power consumption	-10°C~45°C
Cooling method	Fan forced cooling
Dimension (L×D×H)	484×203×45mm
Net weight	2.6kg