

D6642HD D6643HD D6644HD

8 / 12 / 16 Channel Digital Audio Processor with Echo Suppressor and Dante



Note: The picture use D6644HD as an example.

Description

The device supports 16 analog input/output channels and 1 USB extended recording channel. It features a high-quality 21-stage preamplifier circuit, a DSP processing bus architecture, and built-in feedback, noise, and echo cancellation functions to ensure high-quality sound reproduction. It is primarily used in a variety of large-scale venues, meeting the application requirements of theaters, concert halls, remote video conferencing rooms, gymnasiums, chapels, conference centers, theme parks, and other public sound reinforcement systems. Operation is simple and intelligent. Based on the number of physical input/output interfaces, the series is available in three models: D6642HD (8 in / 8 out), D6643HD (12 in / 12 out), and D6644HD (16 in / 16 out).

Features

- Comprehensive matrix mixing function with 24-bit/48kHz sampling frequency, high-performance A/D and D/A converters, and a 32-bit floating-point DSP processor.
- High-precision input sensitivity adjustment with 21 levels, 3dB per step, and a maximum input gain of 51dB.
- Effective algorithm processing: AFC, AEC, ANS, AUTOMIXER, EQ, GATE, AGC, and more.
- Rich interface expansion: 8-channel configurable GPIO with support for external input levels of 3.3V to 24V; USB interface for recording and playback; RS-485 for automatic camera tracking to simplify video conferencing integration; RS-232 bidirectional serial control for sending or receiving commands to/from video matrix, cameras, and other equipment.
- Supports multiple scene presets and scene storage; user-friendly software interface.
- Convenient web-based control: built-in web control portal for quick operation on Windows, Android, iOS, and other platforms.
- Dedicated control software for the iOS platform has been released.

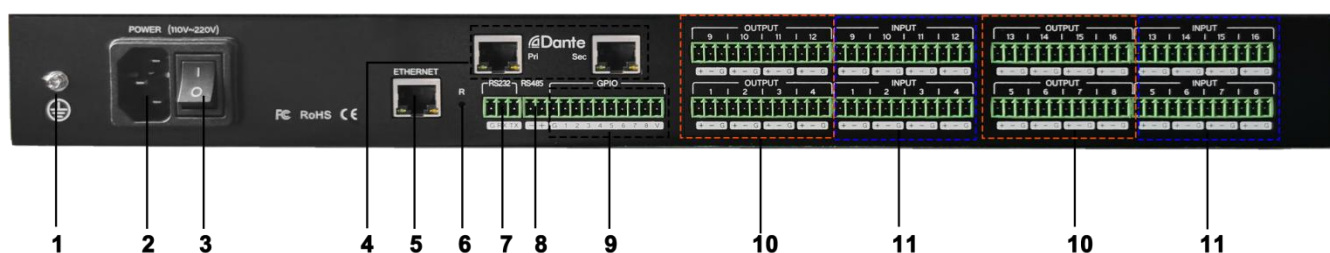
Specifications

Model	D6642HD	D6643HD	D6644HD
Max. Numbers of Inputs	8	12	16
Max. Numbers of Outputs	8	12	16
Number of RS232 Serial Ports	1		
Number of RS485 Serial Ports	1		
GPIO Quantity	8, Freely configurable inputs and outputs		
RJ45 Quantity	1		
USB Quantity	1, The recording and broadcasting is available		
Max. Analog Gain	51dB		
Phantom Power	48V		
Input&Output Quantization	48KHz/24bit		
A/D Dynamic Range	120dB		
Input Common Mode Rejection	70dB @ 80Hz		
Input Resistance	20k Ω balance, 10k Ω unbalance		
Max. Input	18dBu		
D/A Dynamic Range	120dB		
Channel Isolation	100dB		
Frequency Response	20~20kHz (± 0.25 dB)		
Total Harmonic Distortion (THD+N)	$\leq 0.003\%$ @1kHz, +4dBu		
Output Resistance	100 Ω balance, 50 unbalance		
Max. Output	18dBu		
Working Power	AC 110V/220V 50Hz/60Hz		
Working Temperature	-10~70 $^{\circ}$ C		
Package Size (mm)	567×377×98		
Product Size (mm)	483×270×44		
Gross Weight	3.2kg		
Net Weight	2.15kg		

Front/Rear Panel



- (1) PWR: Power indicator light, the device power supply is normal when the light is on, and the power supply of the device is abnormal when the light is off;
- (2) SYS: status indicator light, the flashing light indicates that the equipment is operating normally, otherwise the equipment is faulty;
- (3) USB: support recording and broadcasting function;



Note: Take the D6644HD as an example

- (1) Chassis Grounded Point
- (2) POWER: 220VDC Power Input Interface
- (3) Power Switch
- (4) Dante: Used to connect to Dante digital audio network;
- (5) ETHERNET: 10M/100MEthernet interface, used to connect to the control terminal (PC, router, etc.);
- (6) RESET: Restore factory settings, long press for 5 seconds is effective;
- (7) RS232: Support central control commands and camera tracking, RX: receive data, TX: send data, G: ground;
- (8) RS485: Support camera tracking;
- (9) GPIO: GPIO control;
- (10) OUTPUT: Analog output;
- (11) INPUT: Analog input;