

AM6601

7.1 Channel Audio Decoder Cinema KTV System



Description

This product is a professional audio processing device based on a fully digital DSP audio processing platform. Featuring powerful functions and a compact design, it integrates home theater processing, vocal effects, audio crossover, parametric equalization, limiter, delay, and other functions into a single unit.

With a 2U rack-mount design, it is easy to operate and flexible to configure. It is widely suitable for various mid-to-high-end performance venues, KTV rooms, professional entertainment venues, and home karaoke applications, delivering both immersive home theater and karaoke experiences in one system.

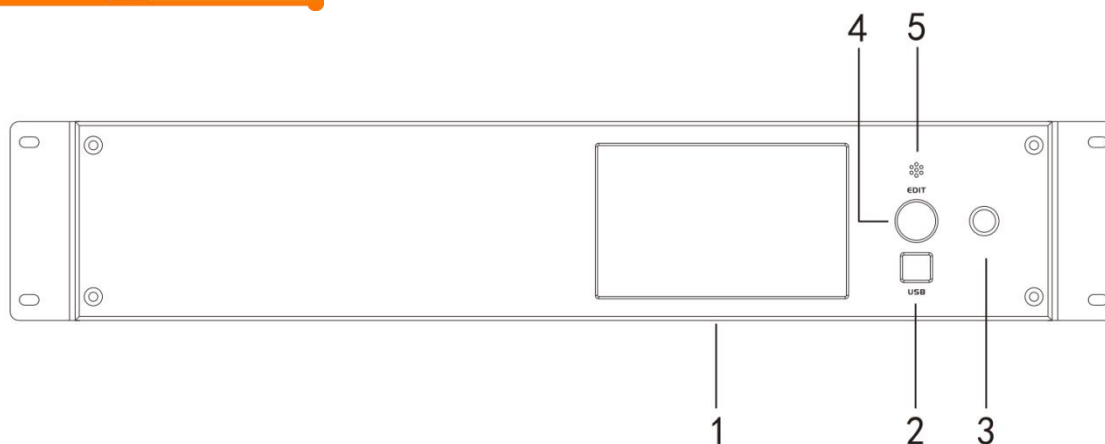
Features

- 5-inch 65.5K-pixel color LCD display with full-touch menu operation; supports both Chinese and English interfaces with a simple and intuitive UI.
- Equipped with 4 HDMI audio/video inputs and 2 HDMI outputs; supports both optical and coaxial digital audio inputs.
- Fully supports DOLBY and DTS 7.1-channel cinema decoding with 7.1-channel balanced output; features 16-band parametric EQ for music and independent 16-band parametric EQ for microphone A/B channels.
- Professional-grade KTV reverb effects; echo and reverb each support independent 3-band EQ adjustment; 4-level microphone feedback suppression ensures worry-free anti-howling performance.
- Main output, center, subwoofer, surround, and rear channels each feature 5-band parametric EQ (PEQ), electronic crossover, input selection and mixing ratio, polarity, delay, limiter, and gain control functions.

- Powered by an ADI DSP chip with a 400MHz main frequency and 48kHz sampling rate, supporting 32-bit floating-point processing.
- Uses high-performance 24-bit A/D and D/A converters for excellent audio quality.
- Supplied with professional PC software; supports USB, RS232, LAN, and WiFi communication connections.
- Supports RS232 and RS485 central control functions, allowing external devices to send control commands to the unit.
- Supports saving and recalling up to 10 preset modes.
- Features 2-level device lock functions, allowing users to set lock levels as required.
- Dedicated recording output function.

Specifications

Model	AM6601	
Output Channel	Main(R/L) / Center / SUB / SURR(L/R)	
SNR	Microphone	>85dB
	Music	>100dB
Distortion	Microphone	<0.01%
	Music	<0.01%
Max. Input Level	Microphone	250mV
	Music	2V
Max. Output Level	Microphone	3Vrms
	Music	3Vrms
Sensitivity	Microphone	15mV
	Music	300mV
Input Impedance	Microphone	10KΩ Balanced
	Music	47KΩ Unbalanced
Output Impedance	300Ω Balanced, 1KΩ Unbalanced	
Channel Separation	>85dB	
Feedback Suppression Function	4-Level Feedback Suppression Setting	
Channel Parameters	Microphone / Music	16-band PEQ + Low-pass + High-pass Gain: -20dB ~ +10dB
	Output	Output: Signal Mixing + Polarity + 5-band PEQ + Low-pass + High-pass + Limiter + Delay + Gain
Decoding Formats	Dolby AC-3, Dolby Digital, Dolby Pro Logic, DTS, DTS 96/24	
Net Weight	4.6kg	
Package Dimensions	560×310×130mm	



1. Color LCD Touchscreen

Displays system information and various adjustable parameters currently being configured.

2. USB Port

The USB port can be connected to a computer for firmware updates or for direct control of the unit via PC software.

3. STANDBY Button

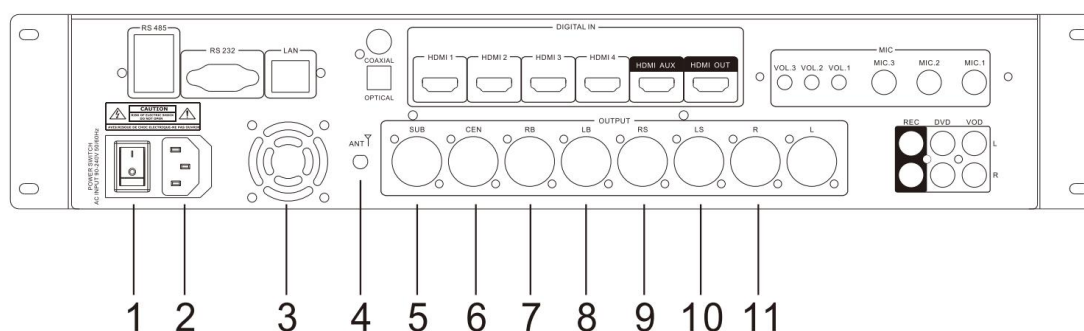
Controls the power on/off function. However, this function is affected by the rear panel master power switch. If the master power switch is not turned on, this button will be inactive.

4. Digital Encoder Knob

Rotate left or right to adjust parameter values in different parameter menus. Press the knob to exit.

5. Remote Control Receiver Window

Receives remote control signals during remote operation.



1. Power Switch: AC INPUT 90–240V~ 50/60Hz.

2. Power Socket: The AC power input terminal of the unit; a matching power cord is provided with the device.

3. Cooling Fan.

4. WiFi Signal Receiving Antenna.

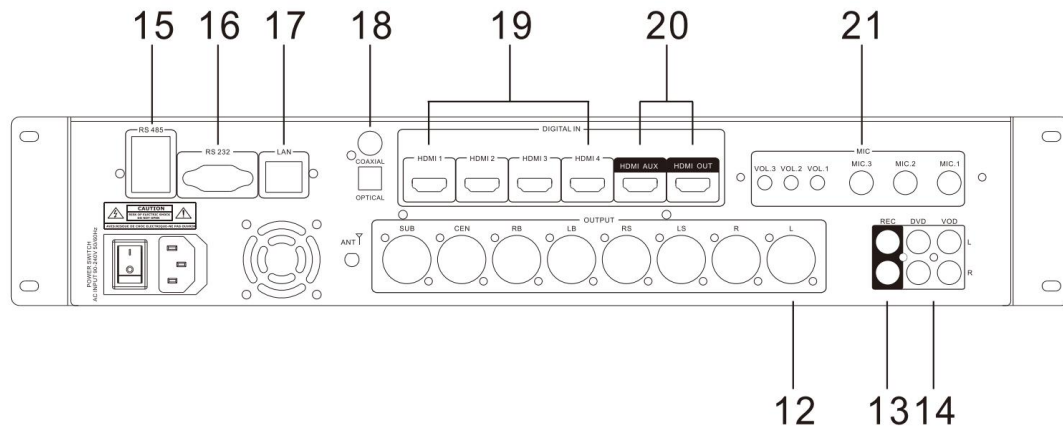
5. Subwoofer Channel Signal (SUB) Balanced Output Port: Connected to the input terminal of the power amplifier.

6. Center Channel Signal (CEN) Balanced Output Port: Connected to the input terminal of the power amplifier.

7. Rear Surround Right Channel Signal (RB) Balanced Output Port: Connected to the input terminal of the power amplifier.

8. Rear Surround Left Channel Signal (LB) Balanced Output Port: Connected to the input terminal of the power amplifier.

9. Surround Right Channel Signal (RS) Balanced Output Port: Connected to the input terminal of the power amplifier.
10. Surround Left Channel Signal (LS) Balanced Output Port: Connected to the input terminal of the power amplifier.
11. Main Right Channel Signal (R) Balanced Output Port: Connected to the input terminal of the power amplifier.



12. Left Main Channel Signal (L) Balanced Output Port: Connected to the input terminal of the power amplifier.
13. Recording Output.
14. Music Input.
15. RS485 Interface.
16. RS232 Serial Port.
17. Network Cable Interface.
18. Optical Fiber and Coaxial Input Interfaces.
19. HDMI Input.
20. HDMI Output: HDMI OUT can also be used as an ARC input source interface.
21. Microphone Input and Volume Control.