

**AM6401****7.2 Surround Sound Audio Decoder****Description**

This unit is a professional audio processor built on a fully digital DSP audio processing platform. It delivers powerful performance in a compact form factor, integrating multiple functions such as home theater processing, vocal effects, audio crossover, parametric equalization, limiting, and delay into a single central unit. It is easy to use and flexible in configuration, making it suitable for various home karaoke applications, while easily enabling both home theater and karaoke functions in one system.

**Features**

- 4.3 Inch 65.5K-color LCD display with selectable Chinese and English interface, clear and intuitive
- 4-in/1-out HDMI audio and video interface, supporting optical and coaxial digital audio inputs
- Full support for 7.2-channel surround decoding with 7.2-channel audio output
- 15-band parametric EQ for music, with independent 15-band parametric EQ for dual microphone

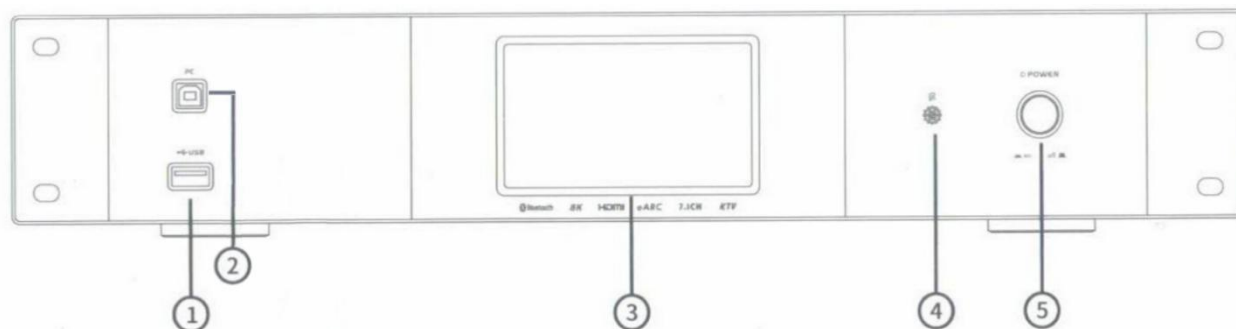
channels (A/B)

- Professional KTV reverb effects, with independent 5-band EQ for echo and reverb, and 4-level microphone feedback suppression for effective anti-howling performance
- Independent 8-band parametric EQ (PEQ) is provided for the main output, center, subwoofer, side surround, and back surround channels, along with adjustable crossover input selection and mix ratio, polarity, delay, limiting, and gain control.
- Equipped with a professional-grade imported DSP chip (400MHz), 48kHz sampling rate, and 32-bit floating-point processing; high-performance 24-bit A/D and D/A converters for excellent sound quality.
- USB control interface with dedicated PC control software.
- 8 preset memory configurations.
- Supports 8K video signal decoding and output.
- Multi-functional remote controller.
- One-touch switching between Cinema, KTV, and Bluetooth modes.
- Built-in 7.2-channel speaker test mode.

## Specifications

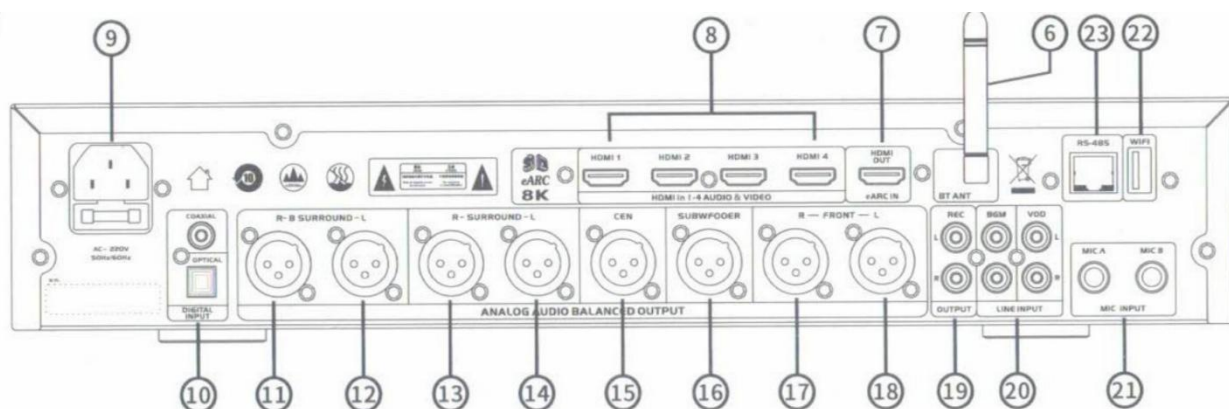
| Model                |                    | AM6401                                                                                                                                                              |
|----------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Channel       |                    | Front Left (FL), Front Right (FR), Center (C), Subwoofer (SW), Surround Left (SL), Surround Right (SR), Back Surround Left (BSL), Back Surround Right (BSR) Channel |
| SNR                  | Microphone         | >95dB                                                                                                                                                               |
|                      | Music              | >97dB                                                                                                                                                               |
| Distortion           | Microphone         | <0.1%                                                                                                                                                               |
|                      | Music              | <0.1%                                                                                                                                                               |
| Max. Input Level     | Microphone         | 250mV                                                                                                                                                               |
|                      | Music              | 1V                                                                                                                                                                  |
| Max. Output Level    | Microphone         | 1V rms                                                                                                                                                              |
|                      | Music              | 1V rms                                                                                                                                                              |
| Sensitivity          | Microphone         | 15mV                                                                                                                                                                |
|                      | Music              | 300mV                                                                                                                                                               |
| Input Impedance      | Microphone         | 10 kΩ, unbalanced                                                                                                                                                   |
|                      | Music              | 47 kΩ, unbalanced                                                                                                                                                   |
| Output Impedance     |                    | 300 kΩ / 1 kΩ, unbalanced                                                                                                                                           |
| Channel Separation   |                    | >87dB                                                                                                                                                               |
| Frequency Response   |                    | 20Hz~20kHz                                                                                                                                                          |
| Feedback Suppression |                    | 4-level feedback control                                                                                                                                            |
| Channel Parameters   | Microphone / Music | 15-band PEQ + Low Pass + High Pass, Gain: -24 dB ~ +12 dB                                                                                                           |
|                      | Output             | Signal mixing + Polarity + 8-band PEQ + Low Pass + High Pass + Limiter + Delay + Gain                                                                               |

## Front / Rear Panel



Note: Please refer to the actual product received for the front and rear panels.

- |                  |                                  |
|------------------|----------------------------------|
| ① USB Interface  | ④ Remote Control Receiver Window |
| ② PC Interface   | ⑤ Power Switch                   |
| ③ Display Screen |                                  |



- |                                        |                                        |
|----------------------------------------|----------------------------------------|
| ⑥ External Bluetooth Antenna           | ②① External Audio Input                |
| ⑦ HDMI Audio / Video Output (HDMI OUT) | ②② Microphone A/B input                |
| ⑧ HDMI Audio / Video Input (HDMI IN)   | ②③ WiFi Interface for PC Configuration |
| ⑨ AC 220V Power Input Socket           | ②④ RS485 Control Interface             |

This socket includes a spare fuse. Open the fuse holder to replace it when necessary.

- |                                           |
|-------------------------------------------|
| ⑩ Coaxial and Optical Digital Audio Input |
| ⑪ Back Surround Right (BSR) Balanced      |

### Output

- |                                            |
|--------------------------------------------|
| ⑫ Back Surround Left (BSL) Balanced Output |
| ⑬ Surround Right (SR) Balanced Output      |
| ⑭ Surround Left (SL) Balanced Output       |
| ⑮ Center (C) Balanced Output               |
| ⑯ Subwoofer (SW) Balanced Output           |
| ⑰ Front Right (FR) Balanced Output         |
| ⑱ Front Left (FL) Balanced Output          |
| ⑲ Recording Output                         |