

## DSP9201K

### HD Conference Recording and Broadcasting Host



#### Description

To ensure stability of recording equipment, the recording host must adopt an embedded architecture design. It does not accept server or PC architectures and avoids using encoding boxes. The host integrates local and remote directing functions, recording, live broadcasting, on-demand viewing, video resource management, user management, as well as digital audio and amplifier capabilities into a unified system. Featuring Web-based remote management with real-time monitoring capabilities, the recording host's exterior design should meet aesthetic, practical, and installation convenience requirements. The equipment is required to be  $\leq 1U$  in height. The front panel contains a 2-inch LCD display that shows device model, meeting room name, IP address, operational status, temperature, date/time, and disk space. Users can configure network settings and system time. Powered by 12V DC.

#### Features

- The main unit shall support  $\geq 2$  sets of SDI HD inputs,  $\geq 3$  HDMI inputs,  $\geq 1$  VGA input,  $\geq 1$  HDMI output,  $\geq 1$  VGA output, and  $\geq 2$  USB interfaces (\*\*none of the aforementioned interfaces shall be realized via adapters\*\*). For resolutions: HDMI input/output shall support  $3840 \times 2160 @ 30\text{Hz}$  with backward compatibility; SDI/VGA inputs shall support  $1920 \times 1080$  with backward compatibility; VGA output shall support  $1920 \times 1080$  with backward compatibility.
- The system automatically triggers PPT signal switching without requiring any auxiliary software or plugins.
- It enables playback of local hard disk videos, USB video files, and remote RTSP video streams for recording. Featuring 12 customizable split-screen layouts, users can freely configure their preferred split-screen configurations.
- Equipped with a built-in digital audio processing module, it performs intelligent audio processing without external processors, supporting echo suppression, noise cancellation, and automatic gain adjustment. The system requires  $\geq 2$  MIC inputs (with 48V phantom power),  $\geq 1$  line input, and  $\geq 1$  line output.
- Three LED indicators monitor server status: a constant-on power indicator, a flashing hard drive indicator during read/write operations, and a running program indicator.
- The recording system emphasizes simplicity, user-friendliness, and high integration.
- The system supports one-click live streaming, with manual and automated modes that can be freely switched. The manual mode offers video preview, live output pre-monitoring, video switching, audio adjustments, and recording mode switching. It also enables PTZ manual pan-tilt-zoom control, with multiple

preset positions available for camera videos.

- Two recording modes are supported: Movie Mode and Movie Plus Resource Mode, compatible with six formats including MP4, AVI, FLV, MKV, MOV, and TS, using H265MP and H264HP encoding.
- Additional interfaces include:  $\geq 2$  RS232 control ports,  $\geq 2$  RS485 control ports,  $\geq 1$  level control input/output interface, dual network backup via 1 Gigabit Ethernet port and 1 optical port, and 2 USB ports.
- Cloud platform integration enables live stream sharing and multi-user viewing. Remote single-machine streaming and on-demand playback support up to 100 users without requiring servers or cloud platforms.
- The system supports RTSP/RTMP streaming for third-party platforms.
- In conference scenarios, it features automatic file restoration during power or network outages.
- Practical functions include OSD information display, angle markers, and real-time editing of opening/closing sequences.
- For daily recording needs, the system provides  $\geq 2$ TB storage with a maximum of 8TB available.
- FTP/NFS connectivity enables automatic file transfer to third-party cloud storage servers.

## Front / Rear Panel

### Front Panel



#### 1. Power Button

In the case of power failure, the power indicator light is off; when the machine is powered on and turned on, the power indicator is always on and turns blue; when the machine is powered on but turned off, the power indicator light is always on and turns red.

#### 2. USB Port

There are 2 USB jacks, the upper one is USB3.0 jack and the lower one is USB 2.0 jack, which are used to access keyboard and mouse equipment or USB flash disk.

#### 3. Right Button

Mainly used for LCD screen operation. Press the right button to enter the next interface or move the cursor to the right.

#### 4. Down Button

Mainly used for LCD screen operation. Press the down button to move the cursor down or modify the value.

#### 5. Left Button

Mainly used for LCD screen operation. Press the left button to return to the previous interface or move the cursor to the left.

#### 6. LCD Screen

Mainly used to display the information of the recording and broadcasting system host.

#### 7. Home Button

Mainly used for LCD screen operation. Press the home button to return to the home page with one key.

#### 8. Up Button

Mainly used for LCD screen operation. Press the up button to move the cursor up or modify the value.

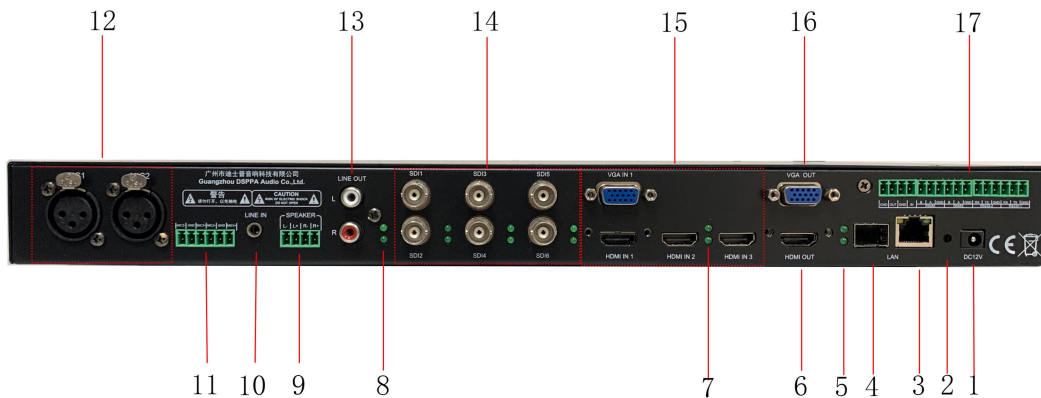
#### 9. OK Button

Mainly used for LCD screen operation. Press the OK button to select and enter the next interface, or confirm the modified information.

#### 10. Indicator Light

Including RUN light, REC light and HDD light. The RUN light is always on, which means that the recording and broadcasting system host is running; the REC light is always on, which means the recording and broadcasting system host is recording files; the HDD light is flashing, which means that the hard disk is reading or storing data.

## Rear Panel



### 1. Power Supply Socket

DC12V power input interface. When connecting, please connect the power cord to the machine first, and then connect to the power grid.

### 2. Reset Button

The reset button of this machine. Long press for 5 seconds to automatically restore the factory settings. (IP: 192.168.1.2; Subnet Mask: 255.255.255.0; Gateway: 192.168.1.1)

### 3. Communication Network Port

The network communication port of the recording and broadcasting system host, which is used to connect to the switch.

### 4. Communication Optical Port

Supports optical port communication (optical modules are purchased separately).

### 5. Communication Optical Port Indicator

When using the optical fiber to communicate, the communication port indicator is on.

### 6. HDMI Output

This machine supports HDMI output, and the output shows the local directing interface or PGM output interface of the recording and broadcasting host, with adjustable resolution. (The default display is the PGM output interface, with the resolution of 1080P60.)

### 7. Video Input Signal Indicator Light

This port is used to indicate the presence or absence of 3 HDMI input signals and the presence or absence of 1 VGA input signal. The indicator light is always on when there is a signal and is off when there is no signal.

### 8. SDI Indicator Light

This port is used to indicate the presence or absence of 2 SDI input signals. When there is a signal, it is always on and off when there is no signal.

### 9. Amplifier Output (not open)

This port is a 2-channel power amplifier output interface, used to connect constant-resistance speakers.

### 10. Line Input

This port is used for external audio input.

### 11. Microphone Phoenix Socket (not open)

This port is used for microphone access, MIC3 and MIC4 respectively.

### 12. Microphone XLR Socket

This port is used for microphone access, MIC1 and MIC2 respectively. Support 48V phantom power supply.

### 13. Line Output

Connect the line output of other sound equipment.

### 14. SDI Signal Source

The unit provides 2 active SDI outputs (SDI1–SDI2).

### 15. Video Input Signal Source

This machine supports 3 HDMI inputs and 1 VGA input, and the supported input resolution is 1920\*1080.

### 16. VGA Output

This machine supports VGA output, and the output shows the local directing interface or PGM output interface of the recording and broadcasting system host, with adjustable resolution. (The default display is the local directing interface, with the resolution of 1080P60.)

### 17. Control Interface

Support RS232/RS485 bidirectional control (the IO port is not open)