D6919C / D6919D

Distributed Digital HD Terminal

Description

The D6919 Series is a highly integrated all-in-one input and output terminal that combines visualized management, KVM seat collaboration, video wall splicing display, network transmission, matrix switching, central control, and multi-system integration into a single platform. Designed based on a fully distributed architecture, the system supports seamless expansion without perceptible changes to operation, ensuring simple and intuitive control. Even if a single unit fails, the overall system remains unaffected, guaranteeing high reliability.

The system supports seamless KVM roaming across multiple screens, with fast mouse response and ultra-low latency. It also features a built-in video wall synchronization algorithm, enabling direct compatibility with LED displays for smooth and synchronized visual performance.

Features

- Flexible Configuration, All-in-One Design: Featuring an integrated input/output design, the system can be flexibly configured as an input terminal, output terminal, KVM input terminal or KVM output terminal according to actual application requirements, meeting the needs of diverse scenarios.
- Ultra HD Signal Processing with Strong Compatibility: When functioning as an input node, it supports multiple high-definition video signal formats, including 4K@60fps, 4K@30fps, 1080P@60fps, and 1080P@30fps, with backward compatibility. It supports 4K@60fps YUV 4:4:4 acquisition and encoding, enabling simultaneous multi-stream transmission. When functioning as an output node, it supports 4K@60fps, 4K@30fps, 1080P@60fps, and 1080P@30fps HD output with backward compatibility, and supports 4K@60fps YUV 4:4:4 decoding and display.
- Efficient Encoding/Decoding with Multi-View Processing: As an output node, it supports H.264/H.265 encoding and decoding at 4K@60fps. It can simultaneously decode up to 4 channels of 4K@60fps video streams or 16 channels of 1080P@60fps streams. Multiple display modes are supported, including tiling, scaling, overlay, and split-screen, meeting the requirements of complex application scenarios.
- Real-Time Preview for Precise Control: Input signals can be previewed in real time through the client

software, allowing users to monitor signal status at any time for efficient and convenient operation.

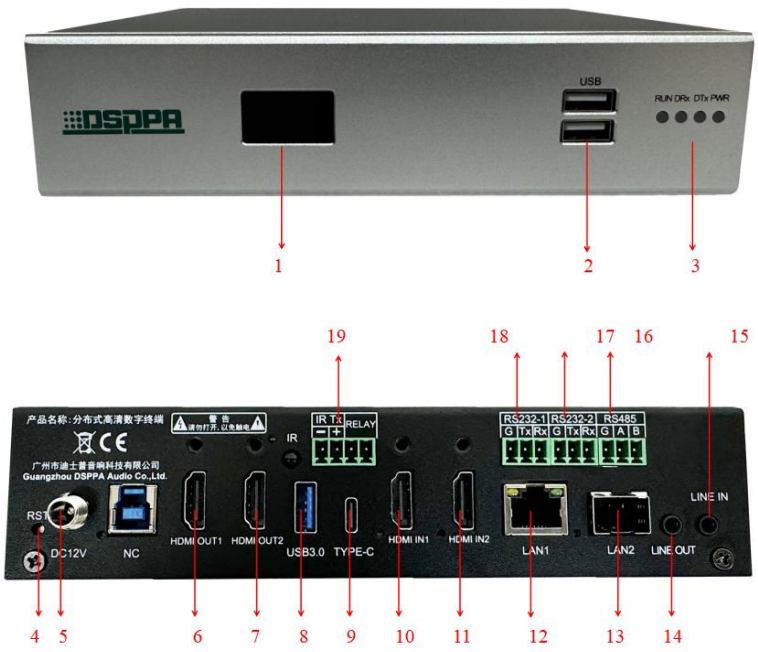
- Built-in Logo (OSD) Function for Easy Operation: When operating as an input node, a logo image can be added directly to the input source without additional equipment. The logo supports display in the upper-left corner, lower-left corner, or at customized X and Y coordinates. Users can upload new images or select previously uploaded images for configuration, ensuring simple and intuitive operation.
- Local HD Background Image for Easy Setup: No additional equipment is required. The system supports direct loading of local images as the video wall background. Users can flexibly enable or disable the background function via software, ensuring simple and efficient operation.
- High-Performance KVM with Cross-Platform Support: Supports takeover and push functions, allowing video sources to be pushed to any display or large screen. Seamless KVM roaming across multiple screens enhances operational efficiency and user experience. Fully compatible with Windows, Linux, macOS, and Kylin operating systems.
- Proprietary Splicing Algorithm with Seamless Synchronization: Featuring a built-in video wall synchronization algorithm, the system eliminates the need for an external video wall processor. It can directly interface with LED, LCD, and DLP video walls, delivering visually seamless synchronization without tearing, ensuring smooth and natural display performance.
- Multi-Functional Central Control Interfaces with Programmability: Equipped with 1× RS-485, 2× RS-232, 2× low-voltage relay ports, 3× IO ports, and 4× IR output interfaces. Supports customizable programming to meet complex control requirements.
- Ultra-Low Latency Transmission for Smooth Performance: From signal acquisition at the input node, H.265 encoding, network transmission, decoding at the output node, to final display, the end-to-end latency can be as low as 30 ms, ensuring real-time responsiveness and smooth visual performance.
- Certain models in this series support dual-network redundant transmission, featuring one Gigabit Ethernet port and one fiber optic port (SFP module not included by default and sold separately), enabling network redundancy to ensure secure and reliable data transmission.

Note: Please ensure that all device connections are correctly completed and the unit is powered on before proceeding. Subsequent configuration and operation shall be carried out via a PC using our DG2001 / DG2001NP Distributed System Integrated Management Platform software. For detailed configuration and operation instructions, please refer to the User Manual of the DG2001 / DG2001NP Distributed System Integrated Management Platform Software.

Specifications

Model	D6919C / D6919D
Enclosure Materials	Aluminum alloy with brushed panel finish
Installation Method	Rack-Mount
Dust Protection	Slot Dust Cover
Color	Black
Dimensions (D×W×H）	150 mm × 190 mm × 44 mm
Power Supply	DC12V @ 1A Input
Power	8W
Weight	Net Weight: Approx. 1kg, Gross Weight: Approx. 1.4kg
Package Dimension (L×W×H))	258×256×82(mm)
Working Temperature	0℃～+50℃
Storage Temperature	-10℃~+70℃
Working Humidity	5%~ 90%

Front / Rear Panel



1. LCD Screen

Displays the device model, IP address, and firmware version.

2. USB2.0

For connecting USB devices.

3. LED Indicators

Power, network, and operation status indicators.

4. RST Reset Button

Press and hold to restore the device to factory settings.

5. Power Supply

Supports 12V DC power supply.

6. HDMI OUT1

Signal output interface 1.

7. HDMI OUT2

Signal output interface 2 (Not supported on this model).

8. USB3.0

For connecting USB devices.

9. Type-C

For connecting Type-C devices.

10. HDMI IN1

Signal input interface 1.

11. HDMI IN2

(This interface is not available for use.)

12. LAN1 Network Interface

Network interface of the device.

13. LAN2 Network Port

Fiber Optic Interface (Supported on D6919D only)

14. LINE OUT

For local sound reinforcement or monitoring

15. LINE IN

Audio input interface

16. RS485

RS485 serial port

17. RS232-2

RS232-2 serial port

18. RS232-1

RS232-1 serial port

19. IR TX

Infrared transmission interface