D6919/D6919C/D6919S/D6919D/D6919LED/D6919E/D6919ES

Distributed Digital High-Definition Terminal

Description

The DSPPA 4K Visualized Distributed Integrated Management Platform is developed based on industry customer demands, integrating advanced and stable audio-video transmission control technology, graphic signal switching technology, multi-screen image processing technology, network technology, and intelligent control technology into a unified system. It fulfills users' comprehensive requirements for an intelligent integrated management platform, including "security, stability, scalability, interconnectivity, and visualized convenient operation," thereby enhancing the decision-making efficiency of command and dispatch, the timeliness of resource distribution and fault prevention, as well as the effectiveness of meeting communications.

The system adopts a distributed architecture deployment, ensuring continuous operation even if a single product encounters sudden failure. Utilizing cutting-edge video encoding/decoding technology and lossless transmission methods, it delivers exceptional audio-video experiences and visualized operations for clients. The platform achieves high-definition signal acquisition, uncompressed transmission, HD restoration, environmental control, and interconnectivity across different zones. Users can effortlessly control and dispatch signal sources in various regions in real-time via touch devices, making it widely applicable in diverse settings such as conferences, surveillance, multimedia information distribution, and command dispatch.

The D6919 series is a highly integrated input-output all-in-one terminal that combines multiple core functions such as visual management, KVM seat collaboration, splicing display, network transmission, matrix switching, central control, and multi-system integration. Based on a fully distributed architecture design, the system supports seamless expansion with simple and intuitive operation. Even if a single unit fails, it will not affect the overall system operation, ensuring high reliability. It supports KVM cross-screen seamless roaming with rapid mouse response and extremely low latency. Equipped with built-in video splicing synchronization algorithms, it can directly adapt to LED displays for smooth visual performance.

Features

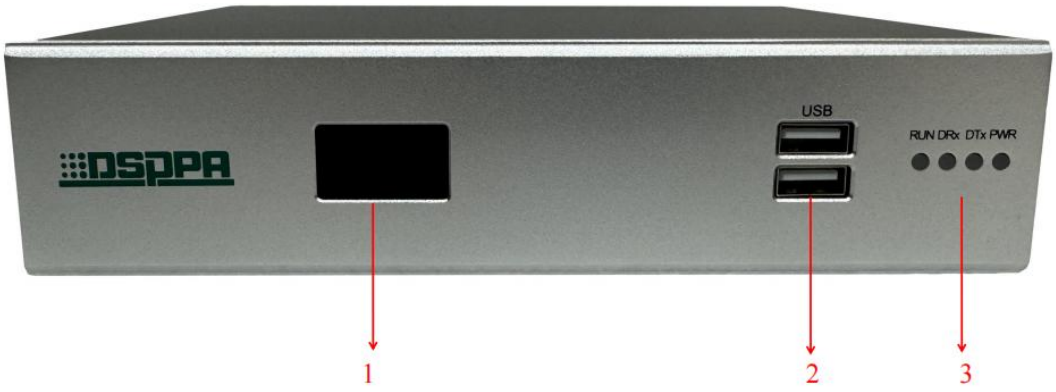
- Flexible configuration, multi-functional integration: Adopting an integrated input-output design, it can be flexibly configured as an input terminal, output terminal, KVM input terminal, or KVM output terminal according to actual needs, meeting diverse scenario requirements.
- Ultra-high-definition signal processing with strong compatibility: As an input node, it supports multiple high-definition video signal inputs including 4K@60fps, 4K@30fps, 1080P@60fps, and 1080P@30fps, while maintaining backward compatibility. It enables 4K@60fps YUV444 capture and encoding to achieve simultaneous multi-stream transmission. As an output node, it supports high-definition outputs at 4K@60fps, 4K@30fps, 1080P@60fps, and 1080P@30fps, while remaining backward compatible. Additionally, it supports 4K@60fps YUV444 decoding and display.
- High-efficiency encoding/decoding and multi-screen processing: As an output node, it supports H.264/H.265 encoding/decoding at 4K@60fps, capable of simultaneously decoding 4 channels of 4K@60fps or 16 channels of 1080P@60fps video streams. It also supports various display modes such as tiling, scaling, overlaying, and splitting to meet the demands of complex scenarios.
- Real-time preview, precise control: The client enables real-time preview of input signals, allowing users to monitor signal status at any time, ensuring efficient and convenient operation.
- Built-in station logo function, convenient and easy to use: When serving as an input node, it can add images as station logos to input sources without requiring additional equipment. It supports displaying the logo in the top-left corner, bottom-left corner, or custom X/Y coordinate positions. Users can upload new images or directly use previously uploaded images for setup, making the operation simple and intuitive.
- Local high-definition background images, easy setup: No additional equipment required, supports directly loading local images as display wall backgrounds. Users can flexibly enable or disable the background image feature through the software, with simple and efficient operation.
- High-efficiency KVM functionality with cross-platform support: Enables takeover and push capabilities to display content on any monitor or large screen; Achieves seamless KVM cross-screen roaming, optimizes operational experience, and offers full compatibility with system platforms including Windows, Linux, Mac, and Kylin.
- Self-developed splicing algorithm with seamless synchronization: Built-in video splicing synchronization algorithm eliminates the need for additional splicing processors, enabling direct connection to LED, LCD, and DLP splicing screens. Achieves tear-free synchronization imperceptible to the human eye, delivering smooth and natural display effects.
- Multi-functional central control interface with programming support: Equipped with 1 RS-485 port, 2 RS-232 ports, 2 weak relay ports, 3 IO ports, and 4 infrared output interfaces, supporting custom programming to meet complex control requirements.
- Ultra-low latency transmission for smooth experience: The entire process from the source image to input node capture, H.265 encoding, network transmission, output node decoding, and final display can achieve latency as low as 30ms, ensuring real-time performance and fluidity.

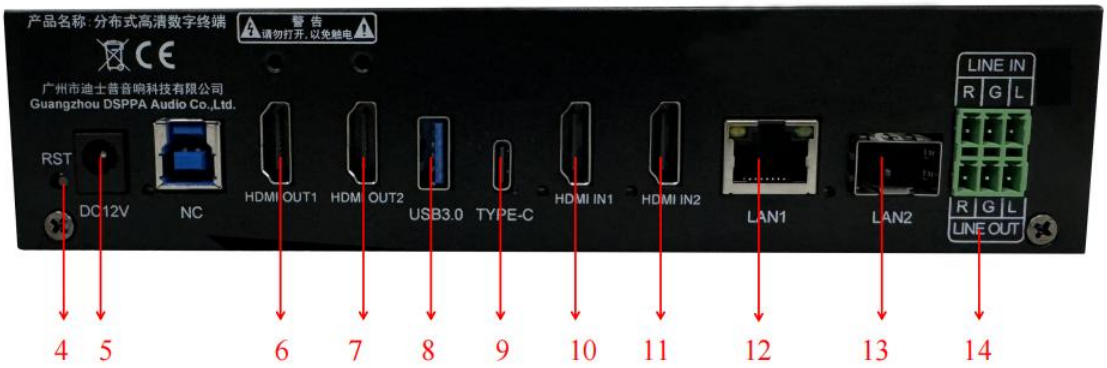
This product supports dual-network backup transmission, featuring 1 Ethernet port (Gigabit) and 1 optical port (optical module not included by default and needs to be purchased separately), enabling dual-network backup to ensure secure data transmission and interaction.

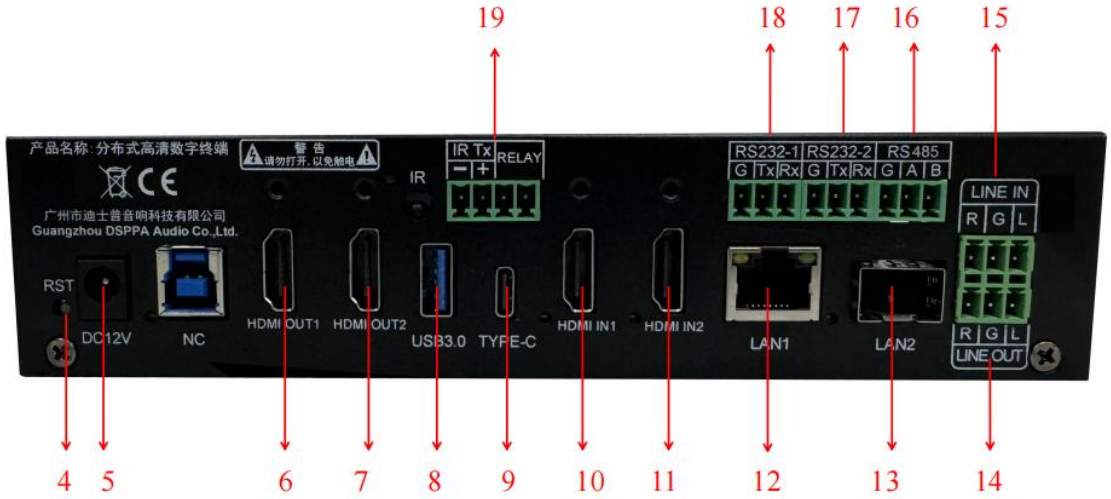
Specifications

Model		D6919/D6919C/D6919S/D6919D/D6919LED/D6919E/D6919ES
Housing Material		Aluminum alloy brushed panel chassis
Installation Method		Rack-mounted installation
Dustproof Function		Slot dustproof
Color		Black
External Dimensions(W x D x H)		190x150x44mm
Power Supply		DC12V@1A Input
Power		8W
Weight	Net Weight	About 1kg
	Gross Weight	About 1.4kg
Package Dimensions(L x W x H)		258x256x82mm
Working Temperature		0℃~+50℃
Storage Temperature		-10℃~+70℃
Working Humidity		5%~90%

Product Information







1. LCD screen

Display device model, IP, and version number

2. USB2.0

Accessing USB devices for use

3. LED Light

Power, Network, Operation Light

4. RST Reset Button

Press and hold the reset button to restore the device to factory settings

5. Power Supply

Supports 12V power input

6. HDMI OUT1

Signal output interface 1

7. HDMI OUT2

Signal output interface 2 (This interface is only available for D6919LED)

8. USB3.0

For connecting USB devices

9. TYPE-C

Connect TYPE-C device for use

10. HDMI IN1

Signal input interface 1

11. HDMI IN2

Signal input interface 2 (this interface is not open for use)

12. LAN1 Network Interface

The network interface of this device

13. LAN2 Network Interface

Fiber optic interface

14. LINE OUT Line Output

Amplification or monitoring output of this device

15. LINE IN Line Input

Audio input interface

16. RS485

RS485 serial port

17. RS232-2

RS232-2 Serial communication port

18. RS232-1

RS232-1 Serial communication port

19. IR TX

Infrared emission interface