

# Product Specification

Multimedia Server

HD-MS4000

V1.3

## 1. Product Introduction

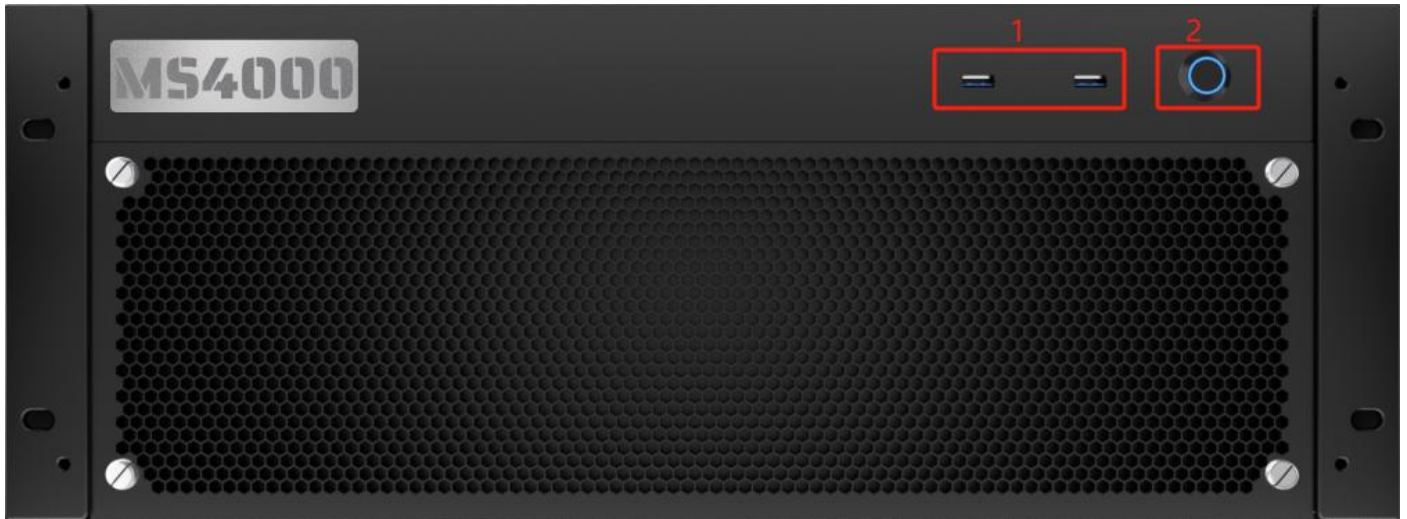
HD-MS4000 is a high-end multimedia broadcast control server, which can be used with HD Show C series broadcast control software. It can realize powerful broadcast control functions, good scalability and high working stability. It is widely used in performing arts exhibitions, creative displays, and multimedia displays, and other occasions. It adopts professional-grade graphics processing software and hardware, and has high-quality ultra-high resolution decoding, ultra-high resolution point-to-point display, various creative splicing displays and professional dance performance media arrangement functions. At the same time, it also provides convenient stage management, visual human-computer interaction and labor-saving unattended functions, which can fully meet the broadcast control needs of complex scenes.

## 2. Features

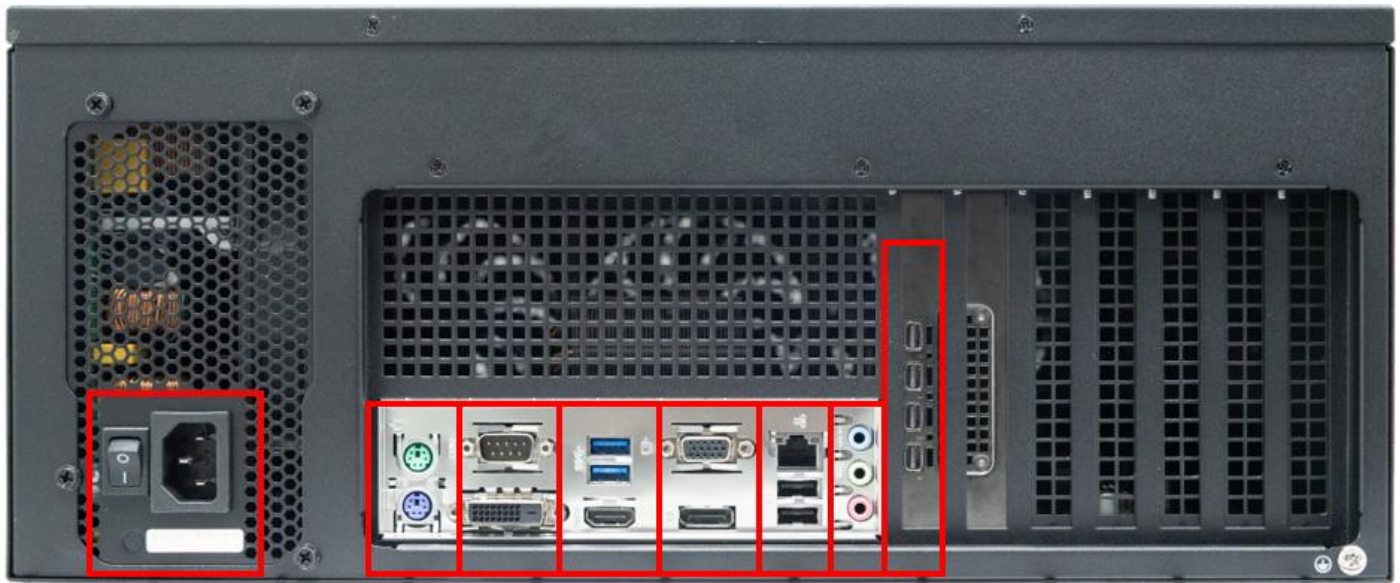
- Support adding layers arbitrarily, no limit on the number;
- Support DP1.4 video interface output; DP supports 4K@60Hz;
- Support the maximum output of the whole machine 8192×4320;
- Support 10bit video decoding and playback, hardware decoding, universal decoding, support almost all current video formats;
- Supports a single video resolution up to 16384x16384;
- Support program switch/screen jump response time <50 milliseconds;
- Support monitoring video frame rate, audio and video delay and other parameters; real-time monitoring of each screen status;
- Support arbitrary segmentation and reorganization of images, geometric deformation and rotation, and complete splicing display of different shapes and angles;
- Support window mode, you can edit video and other materials through the program window; conveniently synchronize peripheral devices such as light consoles and audio consoles; provide integrated solutions for sound and light;
- Support timeline, strict timecode synchronization;
- Support preset programs, automatic execution of instructions, automatic power on and off, playback, peripheral control, etc.;
- Support video, audio, picture, PPT, text playback; support capture screen;

- Support adding network pictures and Spouts, and can play large-resolution interactive screens;
- Support NDI network screen, can obtain NDI capture screen sent by other devices in the LAN, and can also send NDI data;
- Support mobile control terminal APP to realize centralized management and control of exhibition hall equipment, screen echo and scene switching and other quick operations;
- Support acquisition synchronization;
- Support TCP/UDP/DMX512/MTC/LTC/network relay output, DMX512/LTC/MIDI time code/sensor input;
- Support the central control protocol, realize the linkage between software and peripheral equipment, overall control and other requirements;
- Support to record the DMX lighting program of the lighting console, record it as a .DMX project file, and add the recorded file to the input control to realize the screen playback control and lighting control;
- Support editing material position scaling, cropping, opacity, rotation, brightness, contrast, hue, saturation, feathering, volume, vertex coordinates and other attributes;
- Support programs to add various special effects including border, splash screen, Gaussian blur, color wheel, marquee, etc.;
- Support material encryption to fully guarantee the security of engineering documents;
- Support abnormal state detection function, prompt information when equipment and playback materials are abnormal;
- Support local performance monitoring, monitor equipment CPU, memory, GPU, video memory, etc., and automatically record server work logs;
- Support lock screen password, user management;
- Support the interactive docking of Spout interface;
- Support dongle authorized encryption;
- Support multi-machine master-slave backup, and the output of the backup server can be synchronized with the master;
- Support scene editing, preview, switching, saving and copying, etc.;
- Support screen freezing, base map display, and quick scene switching;
- Support server EDID signal locking;
- Support quick control of external MIDI console

### 3. Appearance Description



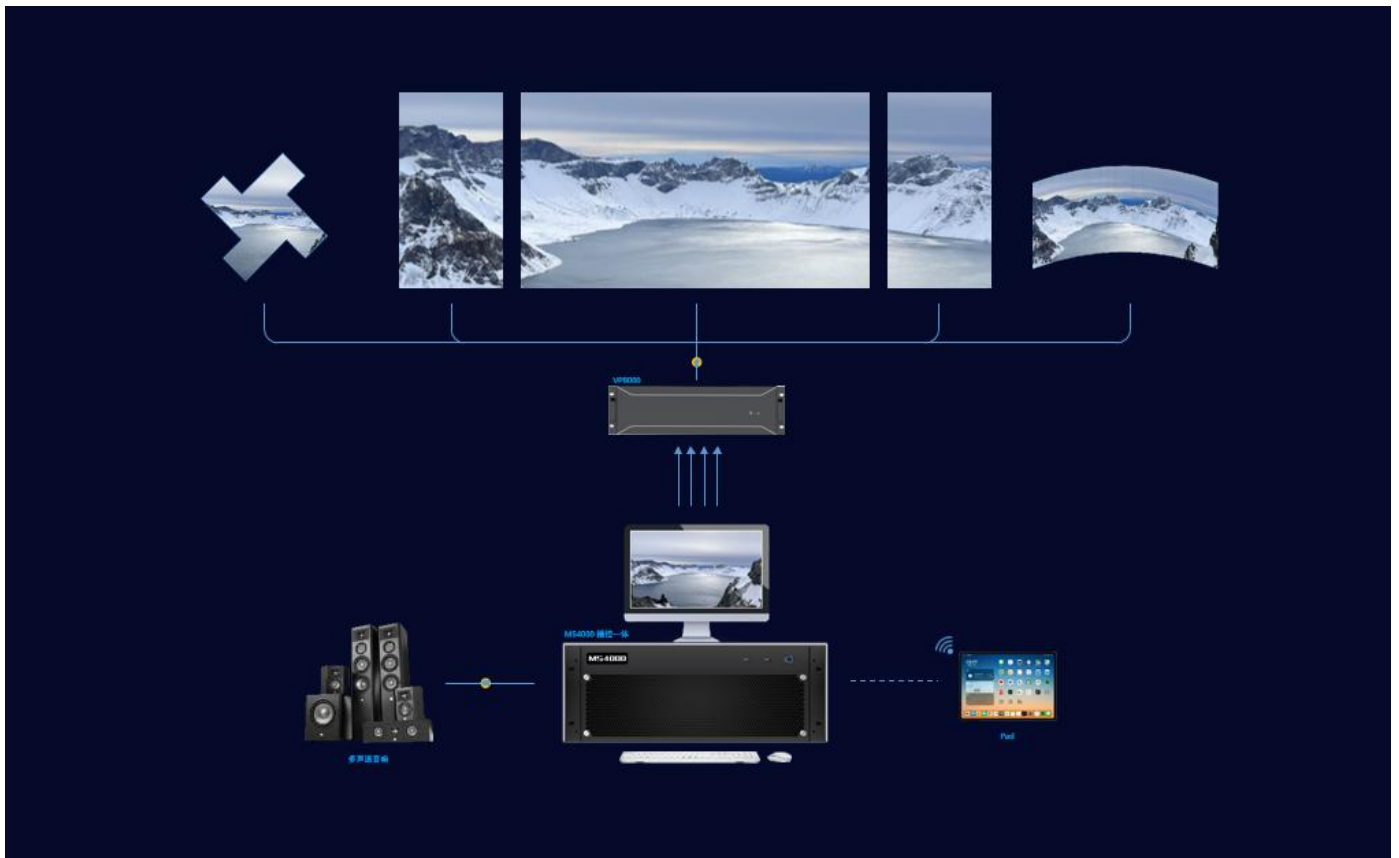
Front panel		
No.	Function	Explanation
1	USB	2-way USB 3.0 interface, external keyboard, mouse, U disk and other equipment
2	Switch	Switchgear power supply



1 2 3 4 5 6 7 8

Rear Panels		
No.	Function	Parameters
1	Power supply and switch	650W power supply
2	PS/2	keyboard/ mouse interface
3	COM+DVI interface	Industrial control interface + video output interface
4	USB 3.0+HDMI	USB 3.0×2+ video output interface
5	VGA+DP	video output interface
6	LAN+USB 2.0	Gigabit Ethernet port +USB 2.0×2
7	Audio interface	3.5MM audio interface
8	Mini DP 1.4 接口	Mini DP video output interface×4

## 4. Application Scenarios



## 5. Specification Parameters

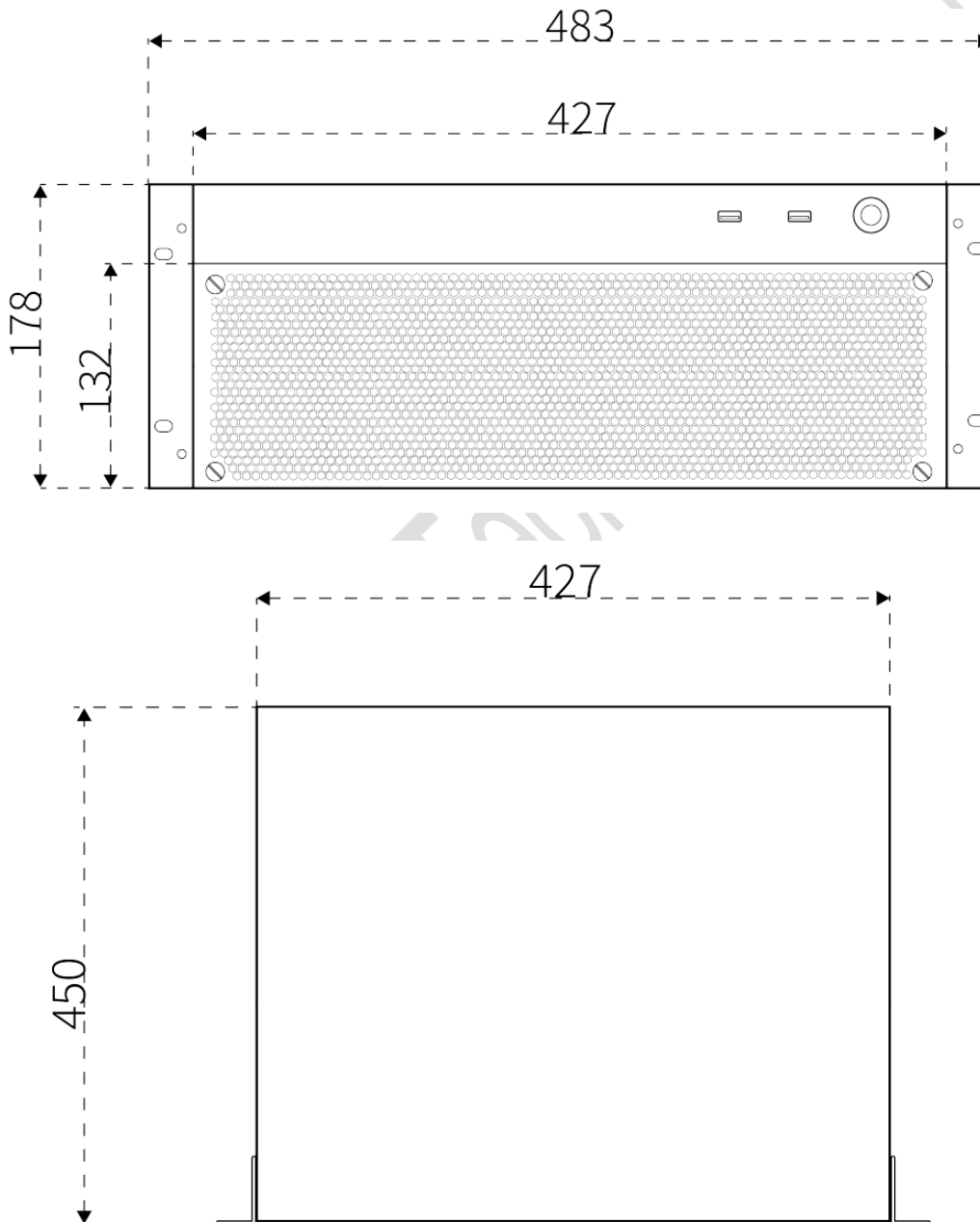
Model	HD-MS4000
Monitor interface	HDMI 1.4×1、 DP 1.2×1、 DVI×1、 VGA×1
CPU	Intel ® octa-core 16 threads
Memory	16GB
Storage	500GB
Graphics memory	12GB
Video output interface	Mini DP1.4×4
Single channel Max output	4096×2160@60Hz
Total Max output	8192×4320@60Hz
Audio	3.5MM audio inputs and multichannel outputs
Ethernet	1000M
Multimedia player software	HD Show C2
Radiator	Silent fan
Rack unit	4U
Adaptors	Mini DP (4K) to HDMI×4
OS	Windows 10 professional edition
Working temperature	0-45°C
Working humidity	10%-90%
Power input voltage	100-240V AC~50/60Hz
Dimension (D×W×H)	483W×450D×178H (mm)
Net weight	12.5kg

## 6. Equipment Dimensions

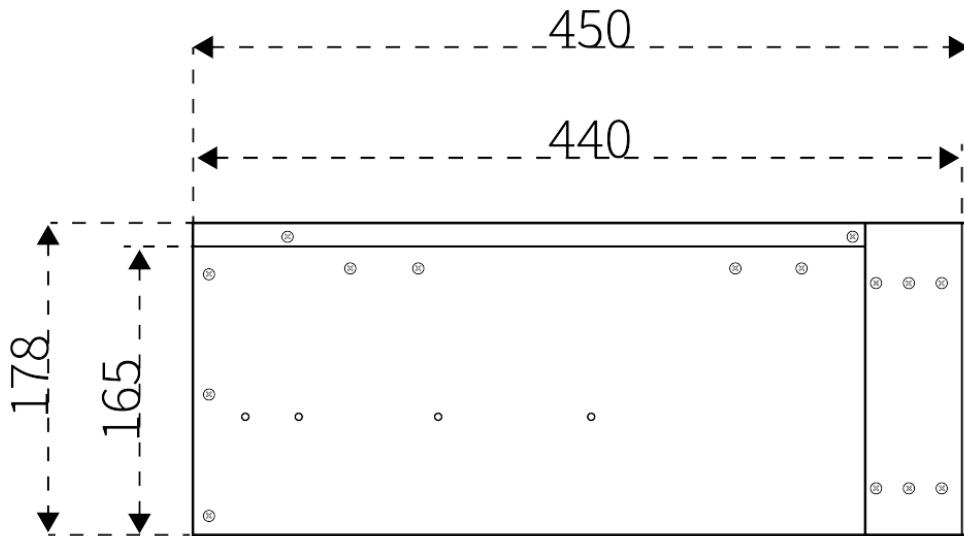
Unit: mm

Tolerance:  $\pm 0.1\text{mm}$

Chassis:







Shenzhen Huidu Technology