

# Product Specification

Multimedia Server

HD-MS1000

V1.4

## 1. Product Introduction

HD-MS1000 is a powerful function 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 4 layers;
- Support 10bit video decoding and playback, hardware decoding, universal decoding, support almost all current video formats;
- 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 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

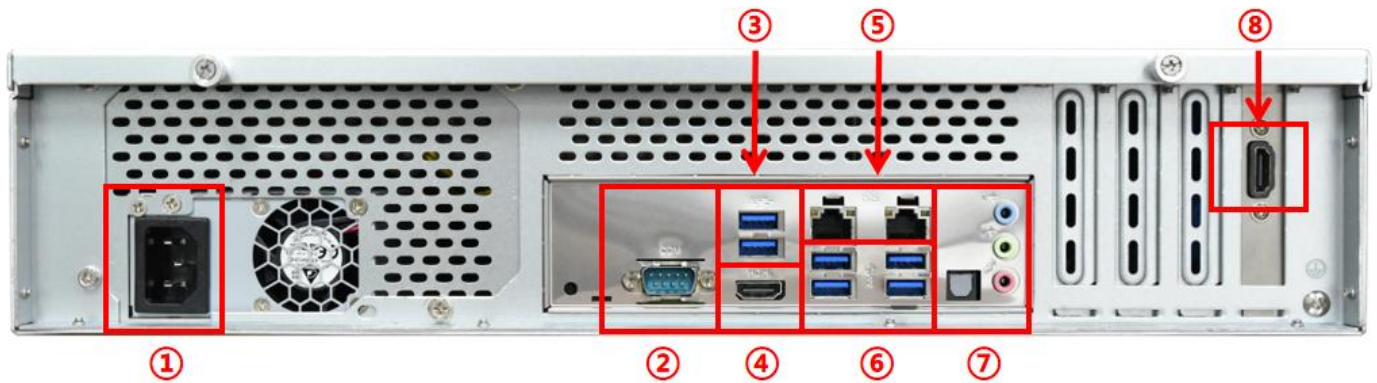
equipment, screen echo and scene switching and other quick operations;

- Support acquisition synchronization;
- Support TCP/UDP/network relay output;
- Support the central control protocol, realize the linkage between software and peripheral equipment, overall control and other requirements;
- 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 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 quick control of external MIDI console.

### 3. Appearance Description

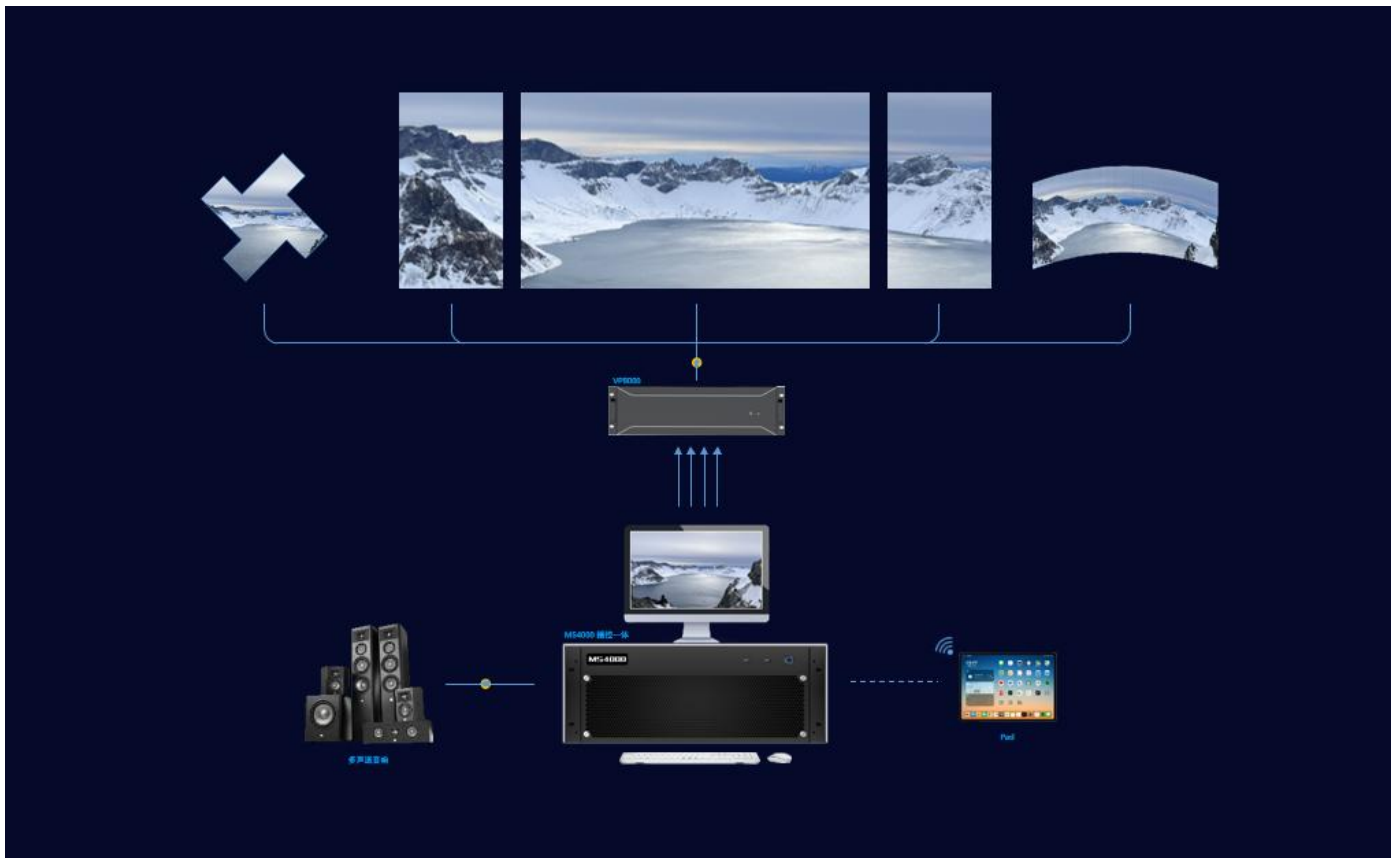


| Front panel |          |                                                                               |
|-------------|----------|-------------------------------------------------------------------------------|
| No.         | Function | Explanation                                                                   |
| 1           | Switch   | Switchgear power supply                                                       |
| 2           | USB      | 2-way USB 3.0 interface, external keyboard, mouse, U disk and other equipment |
| 3           | RESET    | Device reboot                                                                 |



| Rear Panels |                              |                                                                                                                |
|-------------|------------------------------|----------------------------------------------------------------------------------------------------------------|
| No.         | Function                     | Parameters                                                                                                     |
| 1           | Power supply input interface | 100~240V 47-63Hz, 3.5A                                                                                         |
| 2           | RS232                        | Industrial control interface                                                                                   |
| 3           | USB                          | USB 3.0×2                                                                                                      |
| 4           | HDMI 2.0                     | HDMI2.0 output interface, maximum output resolution 3840x2160@60Hz                                             |
| 5           | LAN                          | 2.5G Ethernet port interface×2                                                                                 |
| 6           | USB                          | USB 3.0×4                                                                                                      |
| 7           | Audio interface              | ① Onboard SPDIF interface, support DTS, PMC, Dolby and other 5.1/7.1 audio output<br>② 3.5MM audio interface   |
| 8           | HDMI 1.4                     | Pre-monitoring output connector for connecting to a monitor with a maximum output resolution of 1920x1080@60Hz |

## 4. Application Scenarios



## 5. Specification Parameters

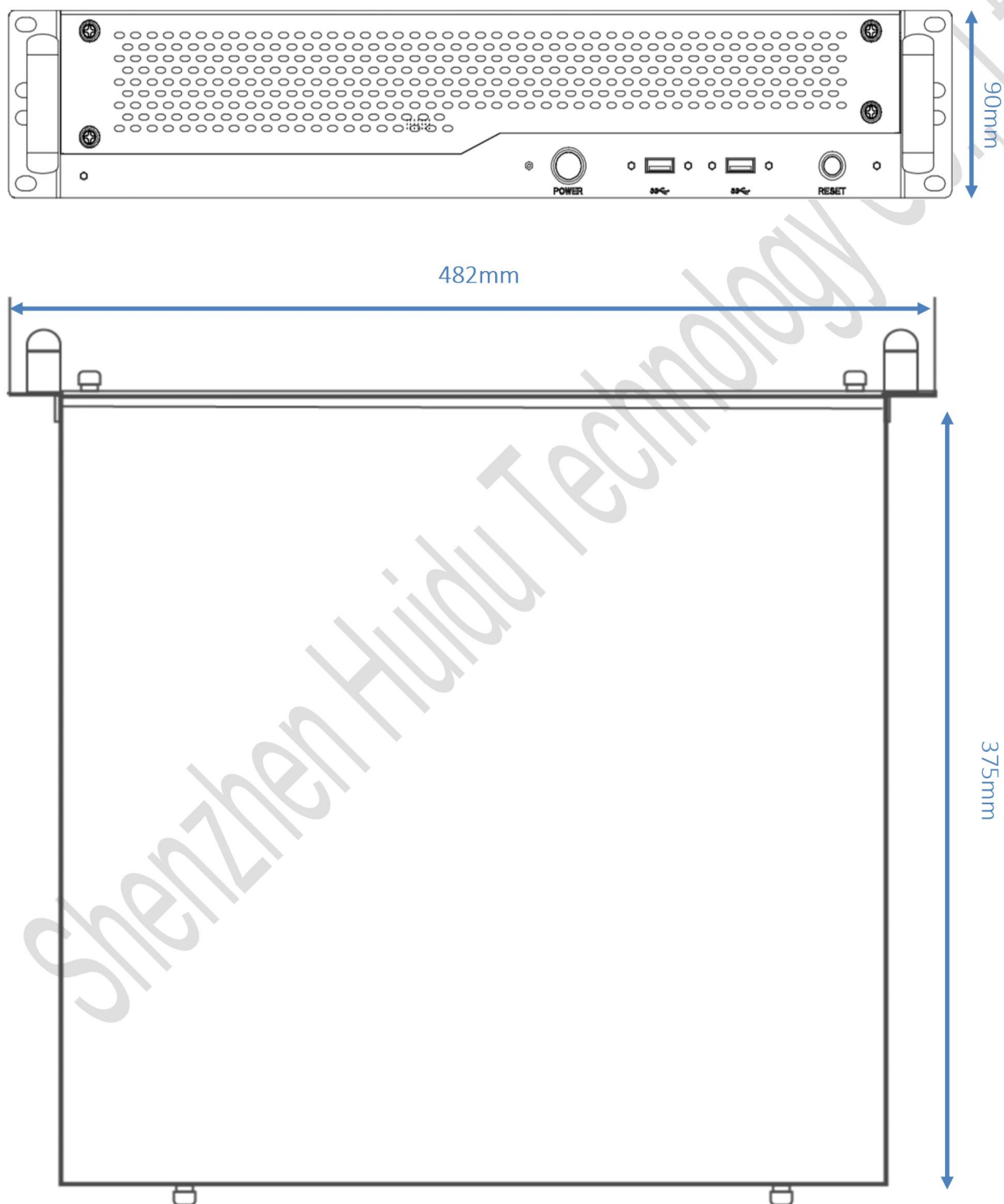
|                            |                                       |
|----------------------------|---------------------------------------|
| Model                      | HD-MS1000                             |
| Monitor interface          | HDMI 1.4 (1920x1080@60Hz)             |
| CPU                        | Intel ® hexa-core 12 threads          |
| Memory                     | 16GB (DDR4)                           |
| Storage                    | M.2 NVME 500G SSD (Expandable)        |
| Video output interface     | HDMI2.0×1                             |
| Single channel Max output  | 3840×2160@60Hz                        |
| Total Max output           | 3840×2160@60Hz                        |
| Audio                      | Audio inputs and multichannel outputs |
| Ethernet                   | 2.5G×2                                |
| Multimedia player software | HD Show C1                            |
| Radiator                   | Silent fan                            |
| Rack unit                  | 2U                                    |
| OS                         | Windows 10 professional edition       |
| Working temperature        | -10~55℃                               |
| Working humidity           | 5%-95%(non-condensing)                |
| Power input voltage        | 100~240V AC, 47-63Hz, 3.5A            |
| Dimension (D×W×H)          | 482mm*90mm*375mm                      |
| Net weight                 | 9.7kg                                 |

## 6. Dimensions

Unit: mm

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

Chassis:





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