

# Product Specification

Multimedia Server

MS4000 Pro

V0.2

## 1. Product Introduction

MS4000Pro 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

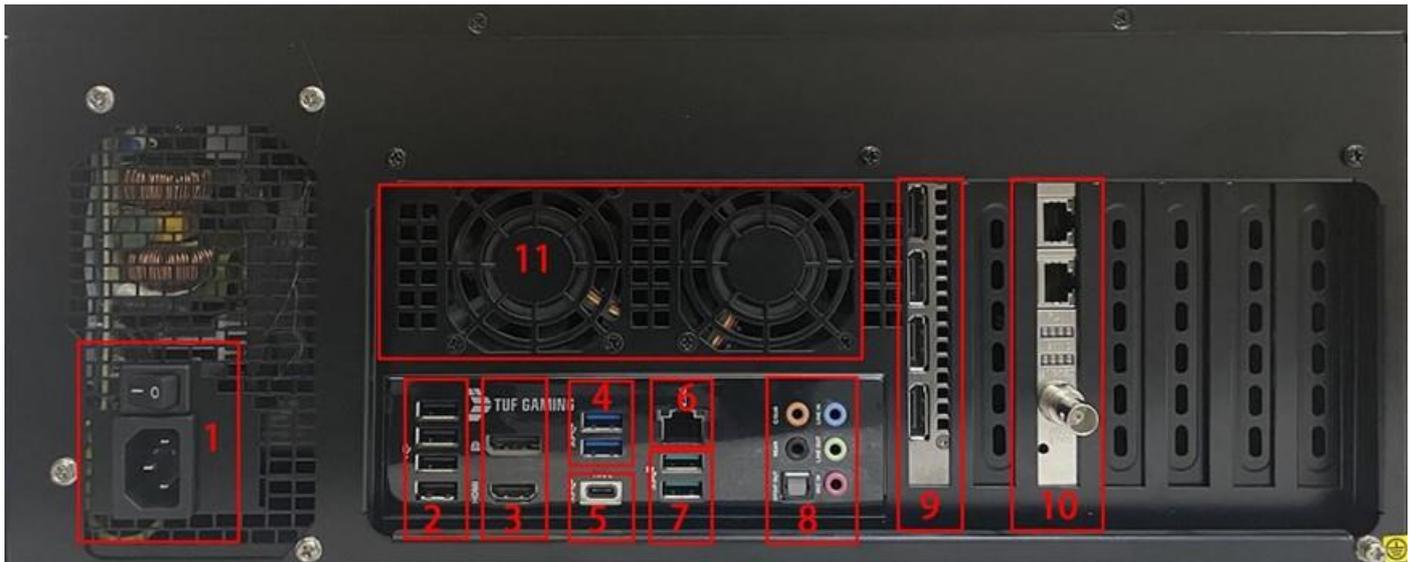
- Support adding layers arbitrarily, no limit on the number;
- Support DP1.4 video interface output; DP supports 4K@60Hz;
- Support the maximum output of the whole machine 8192x4320;
- Support 10bit video decoding and playback, hardware decoding, universal decoding, support almost all current video formats;
- 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

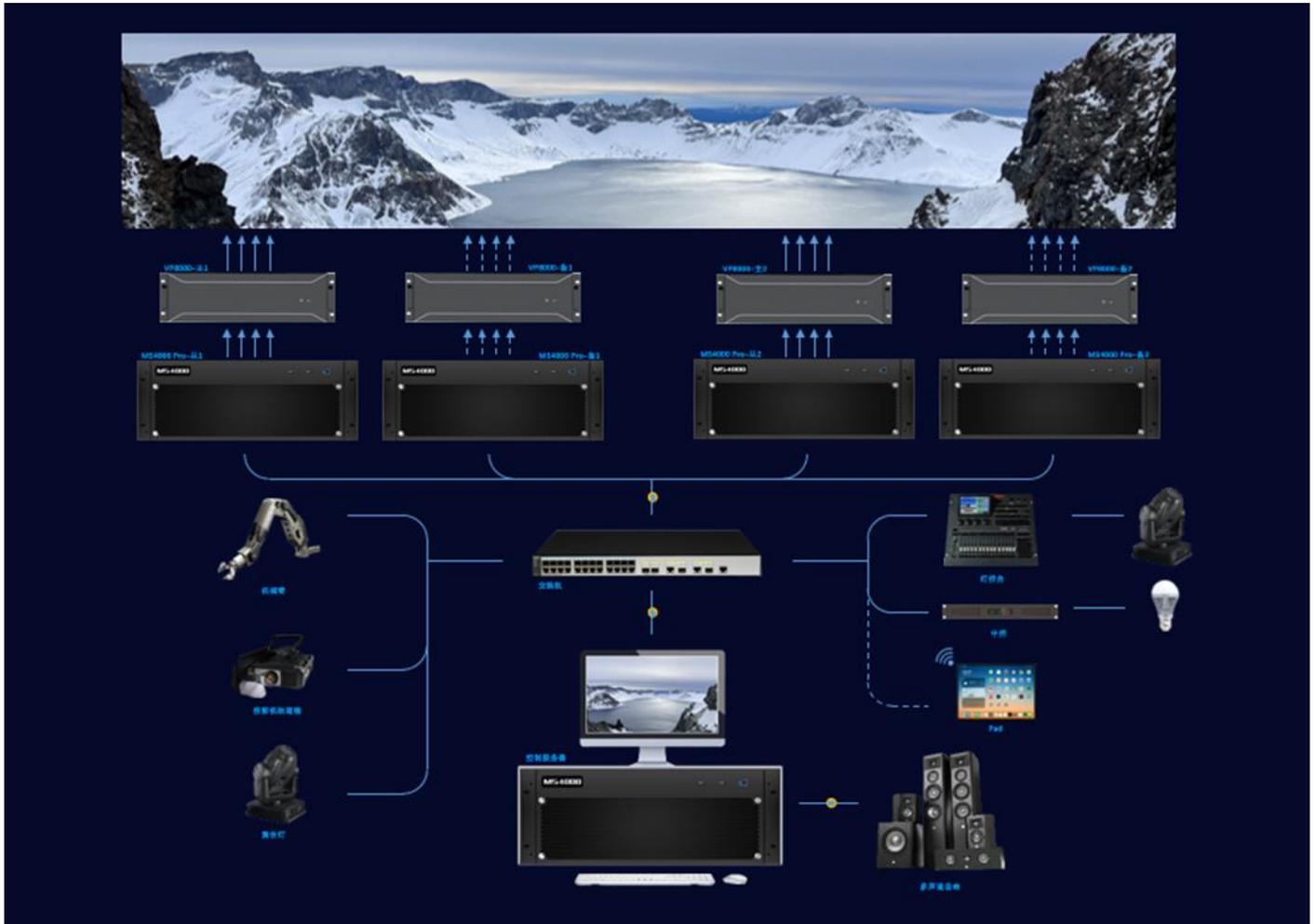


Front panel		
No.	Function	Explanation
1	USB	2-way USB3.0 interface, external keyboard, mouse, U disk and other equipment
2	Switch	Switchgear power supply



Rear panel		
No.	Function	Parameters
1	Power supply and switch	600W power supply
2	USB2.0	USB x 4
3	HDMI2.0x1、DP1.4x1	Video output interface
4	USB3.0	USB x 2
5	Type-C	Type-C x 1
6	Intel LAN	2.5G Network interfacex1
7	USB	USB x 2
8	Audio port	7.1 Channel audio interface
9	DP 1.4 interface	DP Video output interface x 4
10	Synchronous card	Synchronous card interface
11	Cooling fan	Cooling fan x2

## 4. Application Scenarios



## 5. Specification Parameters

Model	MS4000Pro
Operation interface	HDMI2.0x1、 DP1.4x1
Processor	Intel 10700K@3.80GHz
System memory	32G
Extended storage	512G(Scalable)
Graphics card	NVIDIA RTXA4000
Video interface	DP1.4 x 4
Single channel maximum output	4096 x 2160@60Hz
The maximum output of the whole machine	8192 x 4320@60Hz
Audio	Audio input and multi-channel output
Network	2.5G
Broadcast control software	HD Show C2
Heat sink	Silent fan
Chassis	4U
Wire	DP (4K) transfer to HDMI x 4
Operating system	Windows 10 Professional Edition
Operating temperature	0-45℃
Working humidity	10%-90% non-condensing
Input voltage	100-240V AC~50/60Hz
Power	480W
Equipment size (DxWxH)	483W*450D*178H (mm)
Equipment net weight	12.5kg

## 6. Equipment Dimensions

Unit: mm

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

Chassis:

