

# CS20-8K Pro

## Media Server

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Specification V2.1



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Version	Release date	Description
V2.1	Sep, 2022	Update the server graphics card and effect image.
V2.0	March, 2022	Update the hardware parameters and renderings of the server graphics card.
V1.2	Jan, 2022	Hardware upgrade, update parameters
V1.1	July, 2021	Update hardware parameters, software functions and chassis dimensions.
V1.0	Feb, 2021	Update the application scenario diagram and some function descriptions.

## Overview

CS20-8K Pro is a professional media server with powerful playback and control capabilities, high stability, and great scalability. Based on robust hardware, it is optimized for media playback of 8K videos and output four 4K@60Hz videos. With the built-in GrandShow, a professional playback and control software, the server is capable of decoding and playing different formats of contents. Specially, various styles of screens can be realized, such as screen split, special-shaped screen splicing and recombination, etc. In addition, other features are also supported including multiple layers, multiple scenes, and seamless switching between scenes, and more. All these capabilities and functions can greatly meet the demands from the video playback and control.

## Features

### Output

- Supports 4x DP1.4 video outputs – each output supports up to 4K@60Hz
- Supports up to 8192×4608@60Hz pixel-to-pixel display

### Functions

- Supports LCD touch screen operation on the front panel for viewing device information, loading projects, switching scenes, and adjusting colors.
- Supports playing various contents such as videos, images, PPT files, texts, etc.
- Supports edit, preview, switching, saving, and copying of multiple scenes.
- Supports functions such as freeze, background image display and scene switching
- Supports HDR video decoding and playback
- Supports display content rotation at any angle; and various styles of screens, such as screen split, special-shaped screen splicing and recombination, etc
- Supports real-time monitoring of system status, as well as alert of failure and anomaly
- Supports PVW mode for program edit and PGM mode for output contents monitoring
- Supports capturing of NDI or capture card
- Supports redundancy backup
- Supports timed power on or off, as well as automatic scene touring
- Supports Pad control for visualized operations, such as screen monitoring

and scene switching

- Supports control via third party devices for scene switching, screen adjustment and volume adjustment, etc.

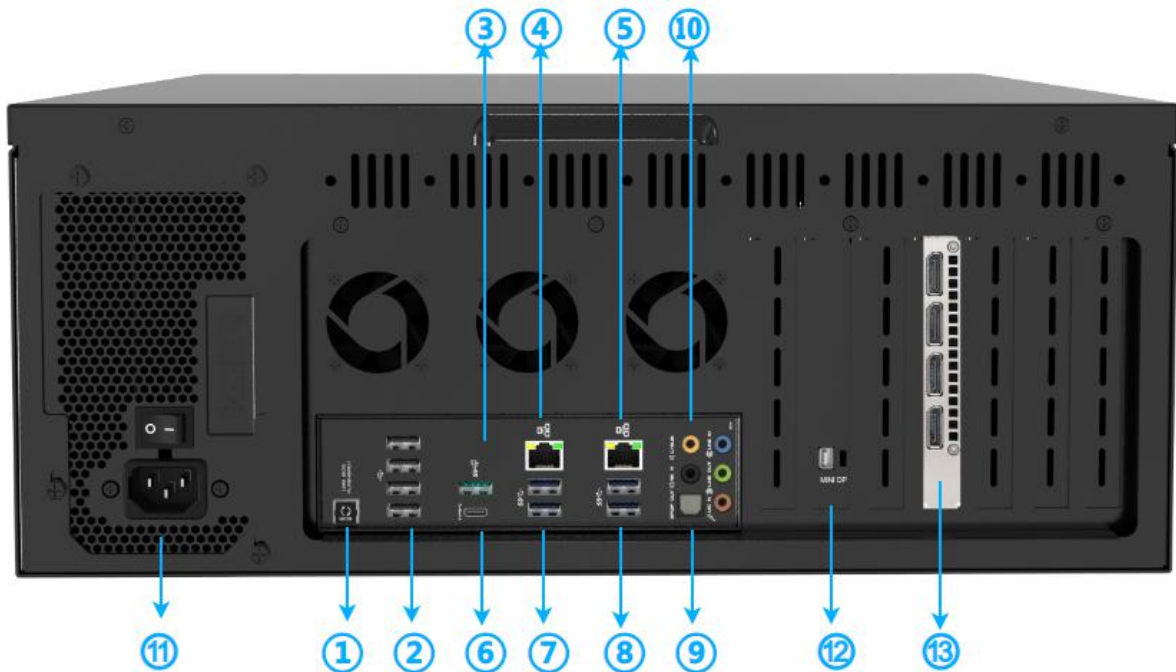
## Hardware

### Front



No.	Item	Description
1	7" LCD touch screen	System information and some function shortcuts.
2	USB port	2×USB 3.0 ports.
3	Power switch	Power on or off.

## Rear



No.	Item	Description
1	USB BIOS Flash Back	Mainboard BIOS program refresh button
2	USB 2.0	4x USB 2.0
3	USB 3.1 Gen 1	2x USB 3.1
4	Intel LAN2	1GbE port
5	Intel LAN1	1GbE port
6	Type-C	1x USB 3.1 Gen 2, Type-C
7	USB 3.1 Gen 1	2x USB 3.1
8	USB 3.1 Gen 1	2x USB 3.1
9	S/PDIF Fiber	Connection port of S/PDIF Fiber optic cable
10	Audio port	3.5 mm audio input and output
11	AC 100~240V	AC power port
12	Mini DP	1x Mini DP port
13	DP1.4	4x DP1.4

## Application scenarios



## Specification parameters

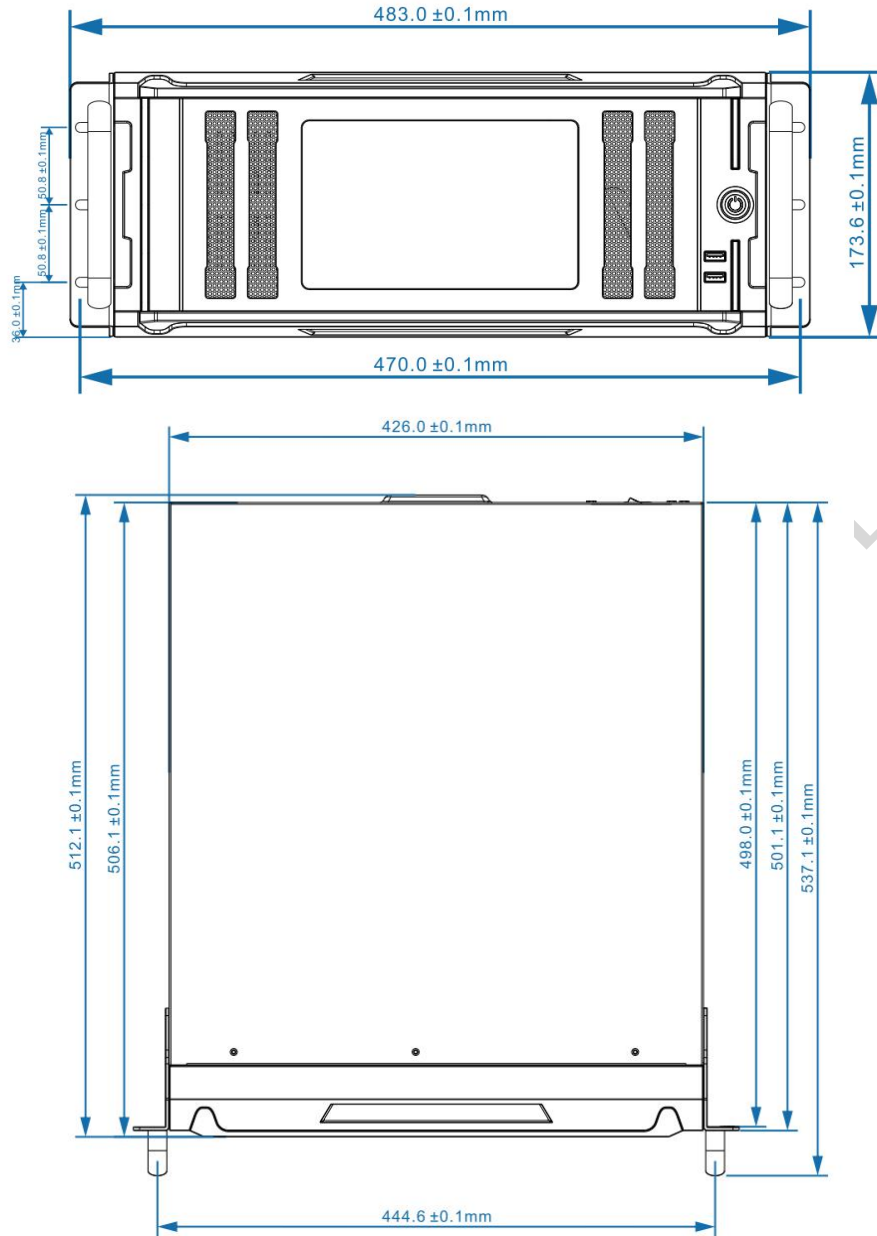
Model		CS20-8K Pro
Chassis		4U
Operation interface port		1x Mini DP (up to 4096×2304@60Hz)
CPU		Intel® 10 cores, 20 threads
RAM		32G
SSD		1TB M.2 high-speed SSD (expandable)
Capture card (optional)		SDI or DVI port
Graphics card		Quadro® 16G professional Graphics
Video port		4x DP1.4
Maximum resolution per channel		4096×2160@120Hz
Maximum resolution		8192×4320@60Hz
Audio		Audio input and multichannel output
Network bandwidth		1000M
Software		GrandShow
Operating environment	Temperature	0°C~45°C/32°F~113°F
	Humidity	10%RH~80%RH, non-condensing
Storage environment	Temperature	0°C~50°C/32°F~122°F
	Humidity	10%RH~90%RH, non-condensing
Electrical specification	Power supply	AC100~240V, 50/60Hz
	Power	425W
Physical specification	Net weight	17kg/37.5lbs
	Dimensions (W×H×D)	483.0mm×173.6mm×506.1mm

## Dimensions

Unit: mm

Tolerance: ±0.1mm

Chassis:





## Packing List


No.	Name	Qty.
1	CS20-8K Pro Media Server	1PCS
2	GrandShow software kit	1PCS
3	DP cable	4PCS
4	Mini DP-HDMI cable	1PCS
5	Power cord	1PCS
6	Keyboard and mouse kit	1PCS
7	Product Certification	1PCS
8	Warranty card	1PCS

Colorlight Cloud Tech Ltd

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