

# CS20-8K Pro

Multimedia Server

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Specification



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Version	Release date	Description
V2.2	Sep, 2022	Update the server graphics card.
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 multimedia server with strong playback and control capabilities, high expansibility, and high stability. Adopting high quality hardware, it is designed to meet the performance requirement of 8K video decoding and playback, as well as outputting four 4K@60Hz video signals. With the use of GrandShow, a built-in professional video playback and control software developed by Colorlight, the server can decode and play different formats of contents at the same time. Specially, the screen splitting and various split styles also can be realized. In Addition, it supports multiple layers, multiple scenes, and seamless switching between scenes. All these capabilities and functions can greatly meet the demand from the video playback and control industry.

## Features

### Output

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

### Functions

- Support viewing device information, loading projects, switching scenes, and adjusting image color on the touch screen of the front panel.
- Support playing various contents such as videos, images, PPT files and texts.
- Support editing, previewing, switching, saving, and copying multiple scenes.
- Support functions such as screen freezing, background image display and scene switching.
- Support 10bit HDR video decoding and playback
- Support server 3D phase lock signals
- Support image rotation at any angle and custom display on ultra-long or other special-shaped screens
- Support real-time monitoring of system status, as well as alert of device failure and abnormal playback
- Support previewing playback content and monitoring output images in real time
- Support shortcut control of the external MIDI console

- Support external signal capturing of NDI and video capture card
- Support redundancy backup of multiple processors
- Support timed power on or power off, as well as automatic scene touring
- Support to realize visualized operations as image monitoring and scene switching randomly with Pad APP
- Support protocols of Integrated Control Host to realize scene switching, image playback and volume adjustment

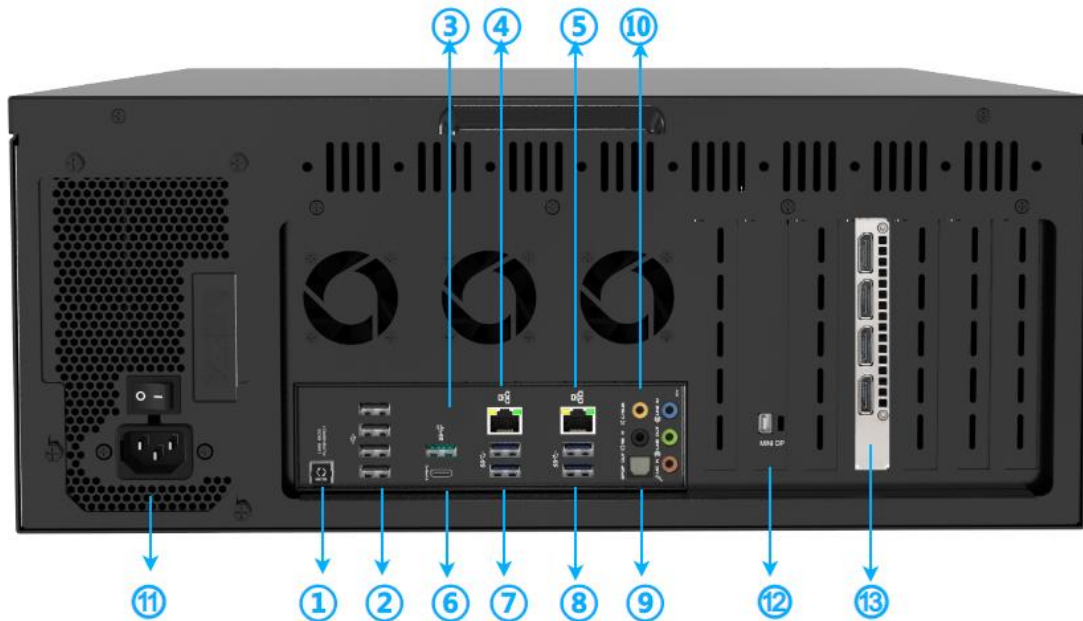
## Hardware

### Front



No.	Item	Description
1	7 " LCD touch screen	Display system information. Some functions can be set on the screen when the playback control software is turned on.
2	USB port	2 × USB3.0 ports, connect to the keyboard, mouse or USB flash drive
3	Power button	Turn on or off the power

## Rear



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	Gigabit Ethernet port
5	Intel LAN1	Gigabit Ethernet 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 output
10	Audio port	3.5 mm audio input and output
11	AC 100~240V	AC power port
12	Mini DP	1 × Mini DP port
13	DP1.4	4x DP1.4, used for image display

## Application scenarios

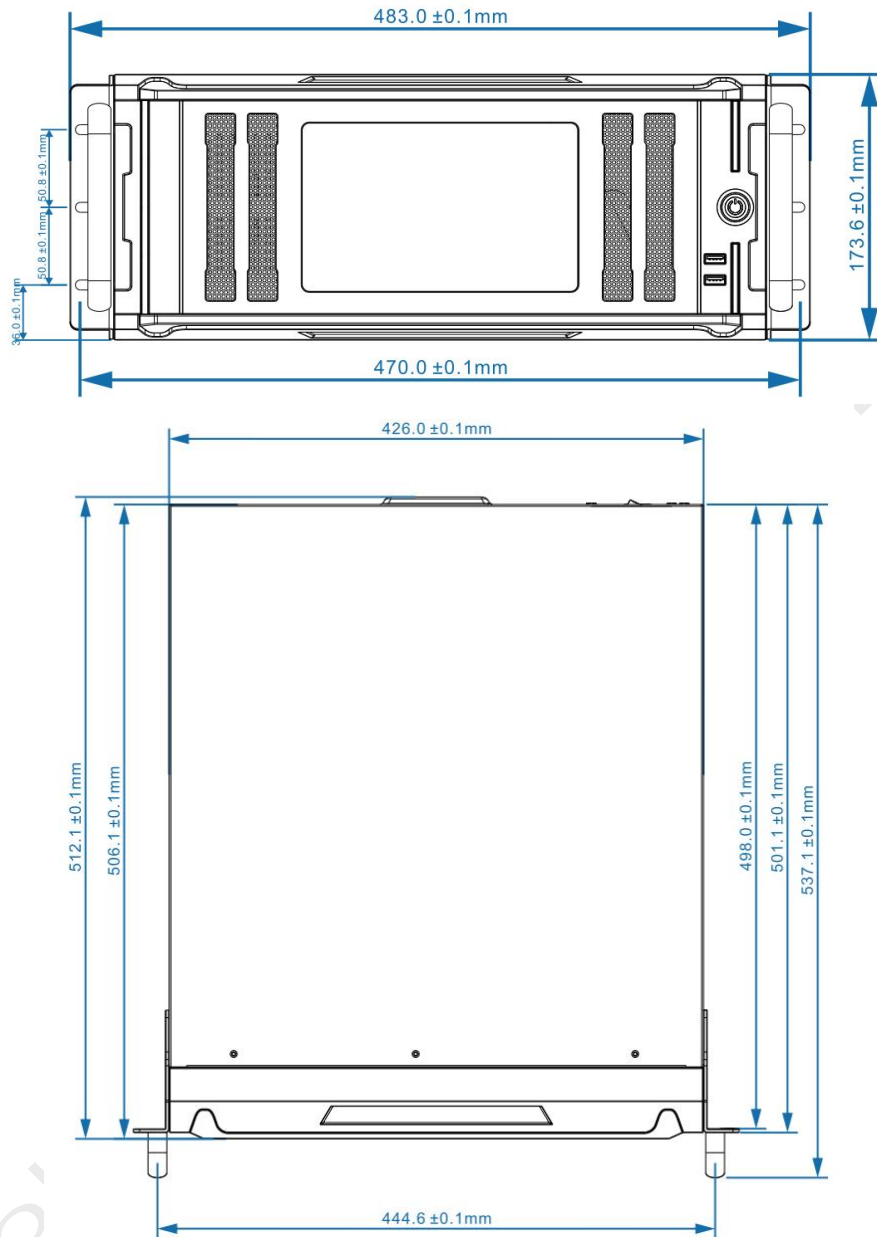


## Specification parameters

Type	CS20-8K Pro	
Chassis	4U	
Operation interface port	Mini DP x1 (Up to 4096×2304@60Hz resolution)	
CPU	intel 10 cores 20 threads	
RAM	32G	
SSD	1TB M.2 high-speed SSD (scalable)	
Acquisition card (optional)	SDI or DVI port	
Graphics card	Quadro <sup>®</sup> 16G professional Graphics	
Video port	DP1.4×4	
Maximum resolution per channel	4096×2304@120Hz	
Maximum resolution	8192×4608@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
	Rated power	425W
Physical specification	Net weight	17kg/37.5lbs
	Dimensions (W×H×D)	483.0mm×173.6mm×506.1mm

## Dimensions

Unit: mm




## Packing list

No.	Name	Qty.
1	CS20-8K Pro Multimedia 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

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