

Hubit LED S20 Controller



Overview

The S20 controller is a high-performance video processing solution designed for professional LED display applications. Supporting HDMI 2.0 and DP 1.2 inputs, it delivers reliable signal transmission, seamless source switching, and support for ultra-high resolutions in demanding display environments.

Built for flexibility and dependable operation, the controller features 20 Gigabit Ethernet outputs, redundancy support, and advanced image optimization for smooth, high-quality visual performance across large-scale LED installations.

Key Features



Ethernet Redundancy

Supports backup communication for improved system reliability.



8.85 Million Pixel Load

Supports large LED display configurations up to 4096 × 2560 resolution.



HDMI & DP Inputs

Supports high-definition video input and seamless signal switching.



20 Gigabit Outputs

High-speed Ethernet outputs for reliable LED data transmission.



Colour Adjustment

Supports brightness, colour temperature, and colour gamut management.



Low Brightness Optimisation

Enhanced grayscale performance for improved image quality at low brightness levels.

Video Inputs

Input Interfaces	x1 HDMI 2.0, x1 DP 1.2
Maximum Input Resolution	4096 x 2160 @ 60Hz
Supported Formats	RGB444, YCbCr444, YCbCr422
Frame Rate Support	23.98Hz – 144Hz
Source Switching	Seamless switching supported
EDID Support	Supported

Output Specifications

Ethernet Outputs	x20 Gigabit Ethernet ports
Maximum Loading Capacity	8.85 million pixels
Maximum Width / Height	8192 pixels
Single Port Capacity	Up to 650,000 pixels
Redundancy	Ethernet port redundancy and controller redundancy
3D Support	Optional

Control Interfaces

USB Input	USB IN for PC debugging
USB Output	USB OUT for cascading
RS232 Control	Supported via RJ11 (6P6C)
Audio Input	Supported
Audio Output	Supported

Power

Power	AC 100 – 240V @ 50/60Hz
Rated Consumption	40W

Environment

Storage	-40°C – 80°C / 0% – 90% RH
Working	-20°C – 70°C
Humidity	0 – 80% RH

Mechanical

Dimensions	482.6 x 369 x 88mm
Net Weight	5.1kg
Gross Weight	6.7kg

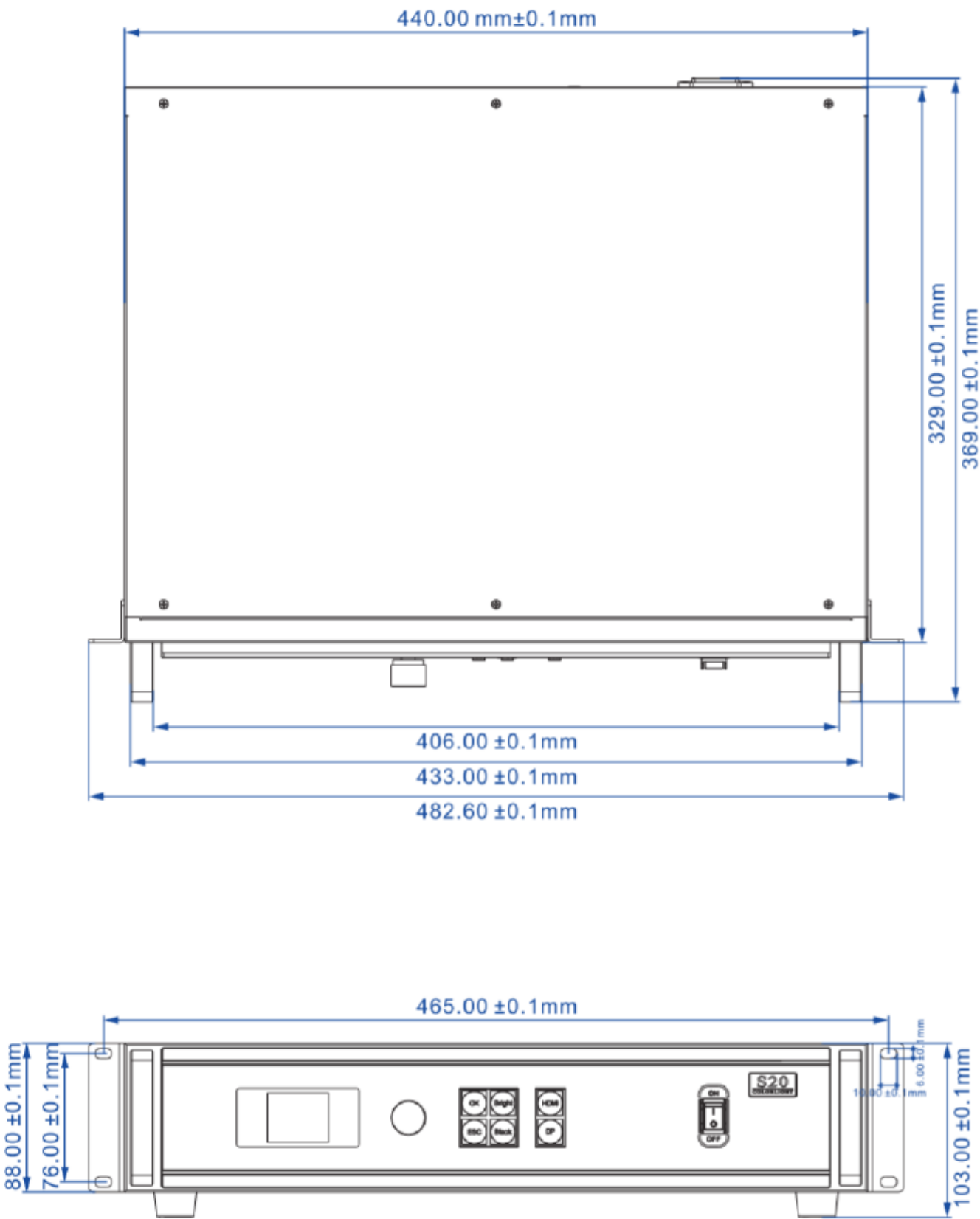
Ordering Information

Part Number	HTL-LED-CTRL-CLS20_01
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Specifications

Unit Structure



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