

DS24-HC

Lighting Controller

Specification V4.0



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1 Update Records

File Version	Hardware Version	Release Time	Updates Records
V4.0	DS24-HC (V1.0)	03/12/2025	First Time

2 Product Introduction

The DS24-HC is a lighting controller meticulously developed by Mooncell, featuring 24 output ports. Each port supports a load of up to 500 pixels at 60Hz, enabling the entire unit to control a maximum of 12,000 pixels at 60Hz. Its high refresh rate ensures flicker-free visuals, while support for multi-unit cascading with frame synchronization prevents image tearing and mosaic artifacts. With Gamma processing support, it delivers superior control performance and precise grayscale management.



*Product photos are for reference only. Actual product may vary.

3 Controllable Driver Chip

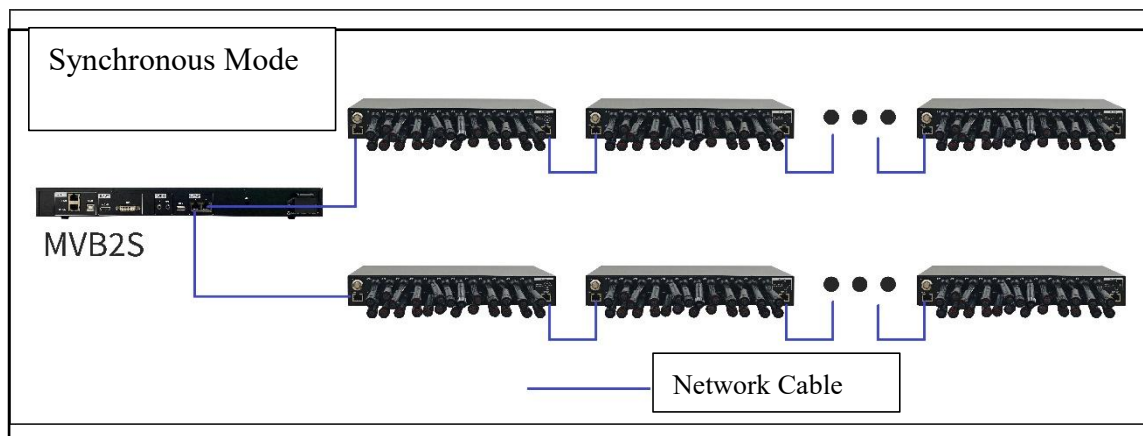
Chip List
SM16188、General Zero-Code Chip、MT1865、UCS2903、FL2811XH、GJ1911、FL3101、HBS1923、HBS1910、SK9816、T2020M、RT7920、WS2816A、GM2020、HBS2910、TX1816、CP2025D、SK9828、HL1812、UCS9812、SM16212、SM16212_N、SK9818、SM16288S 等。

4 Product Parameters

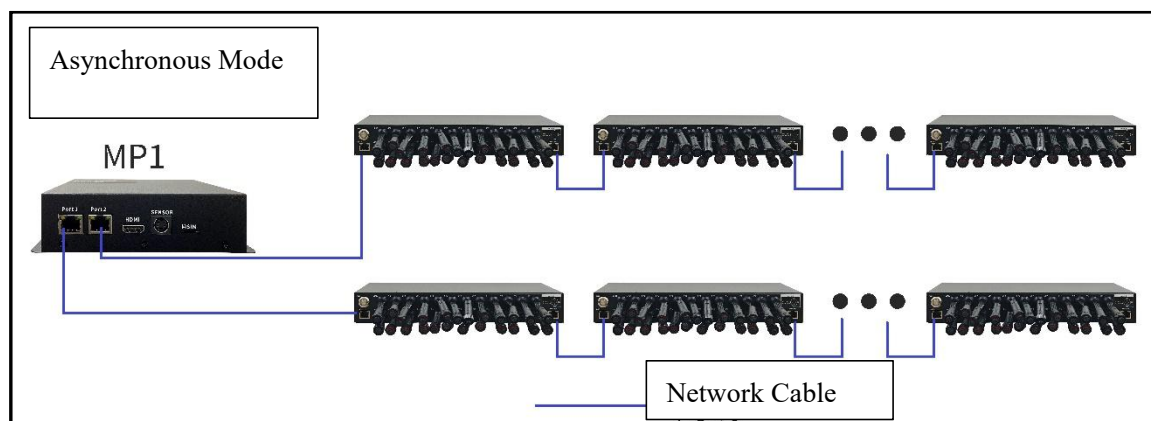
4.1 Network Topology Diagram

Port 2 can be configured as the primary control port, allowing operation with a single network port. The common setup is illustrated below:

Synchronization Mode: Connect to an external PC or media player via HDMI signal source to synchronize display output.



Asynchronous Mode: Supports program publishing and management via PC, mobile apps, and cloud platforms.

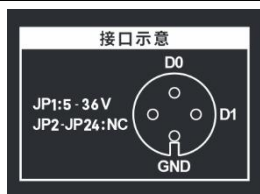


4.2 Network Port Indicator Status

Green	Steady light indicates power on; flashing indicates an active signal.
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4.3 Controller Interface Illustration

JP1-JP8							
JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8
5~36V	NC	NC	NC	NC	NC	NC	NC
JP9-JP16							
JP9	JP10	JP11	JP12	JP13	JP14	JP15	JP16
NC	NC	NC	NC	NC	NC	NC	NC
JP17-JP24							
JP17	JP18	JP19	JP20	JP21	JP22	JP23	JP24
NC	NC	NC	NC	NC	NC	NC	NC

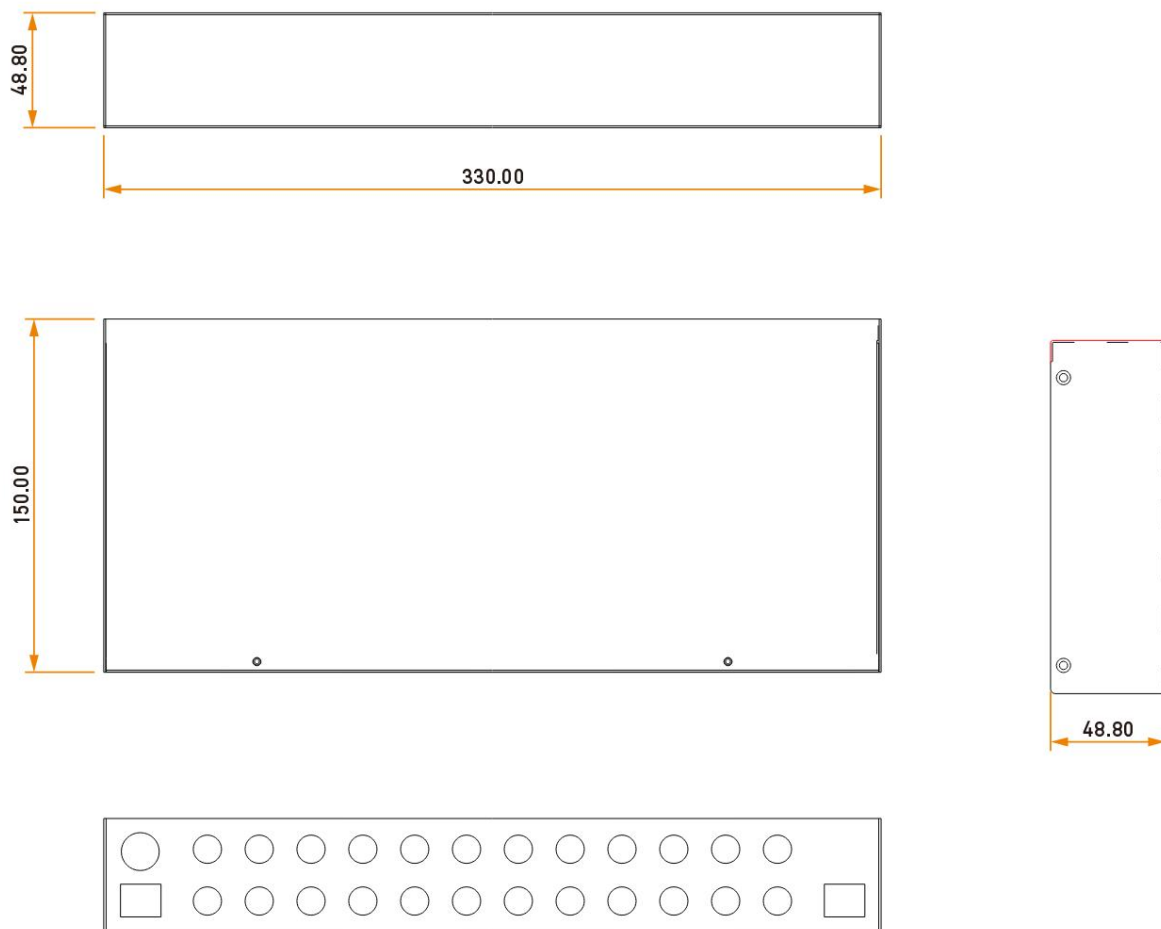


4.4 Product Appearance



*Product photos are for reference only. Actual product may vary.

5 Dimensions



Tolerance: ± 0.3 Size: mm

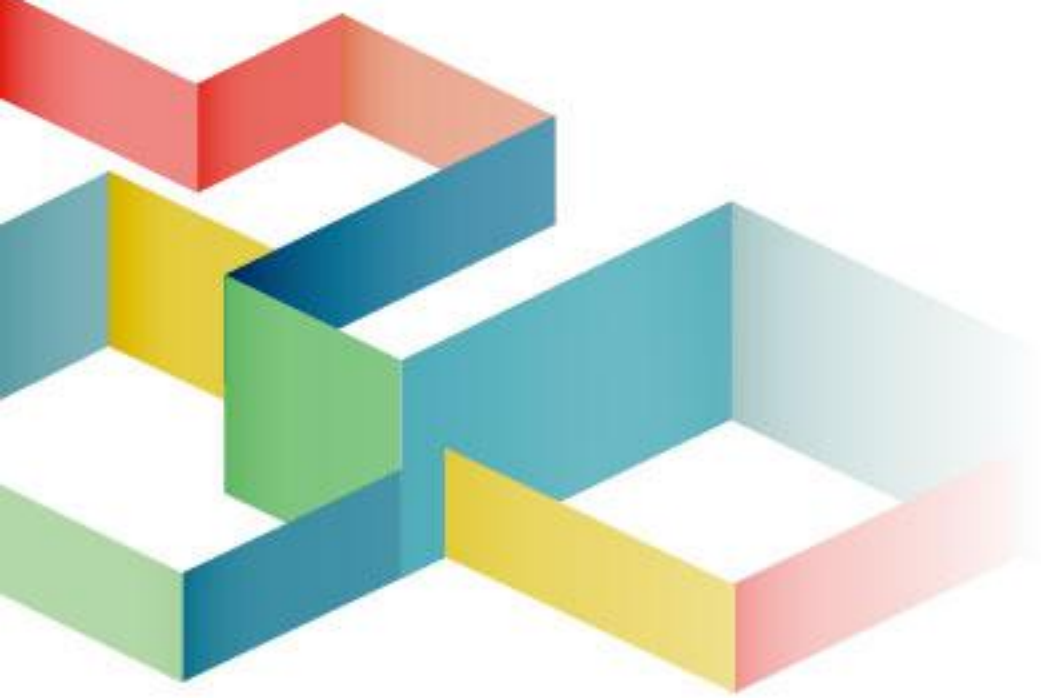
6 Specification

Electrical Parameters	Input Voltage	AC100~240V/50~60HZ
	Rated Current	3A
	Rated Power	36W
Operating Environment	Operating Temperature	-20°C~70°C
	Operating Humidity	10%RH~90%RH No condensation
Storage Environment	Temperature	-40°C~85°C
Dimensions	330mm×150mm×48.8mm	
Net Weight	1.57Kg	
Outer Packaging Dimensions	400×245×97mm	
Gross Weight	1.95Kg	
Accessory List	1×1.5m Network Cable、1× Certificate of Conformity	
Certification Information	Compliant with RoHS standards Compliant with CE-EMC standards	

*Current consumption and power usage may vary depending on factors such as product usage, environment, and settings.

7 Precautions

- The installation process must be completed by professionals.
- Must be antistatic.
- Please pay attention to waterproof and dust removal.



National after-sales service hotline: 400-881-3531

Official website: www.mooncell.com.cn.

Address: Mooncell Building, No.3 Industrial Zone, Baoshi South Road,
Shiyan Street, Baoan District, Shenzhen

