

FLEXNOVA

— P15 —



FLEX NOVA P15

    /illusioncad

DESIGNED FOR CANADA 

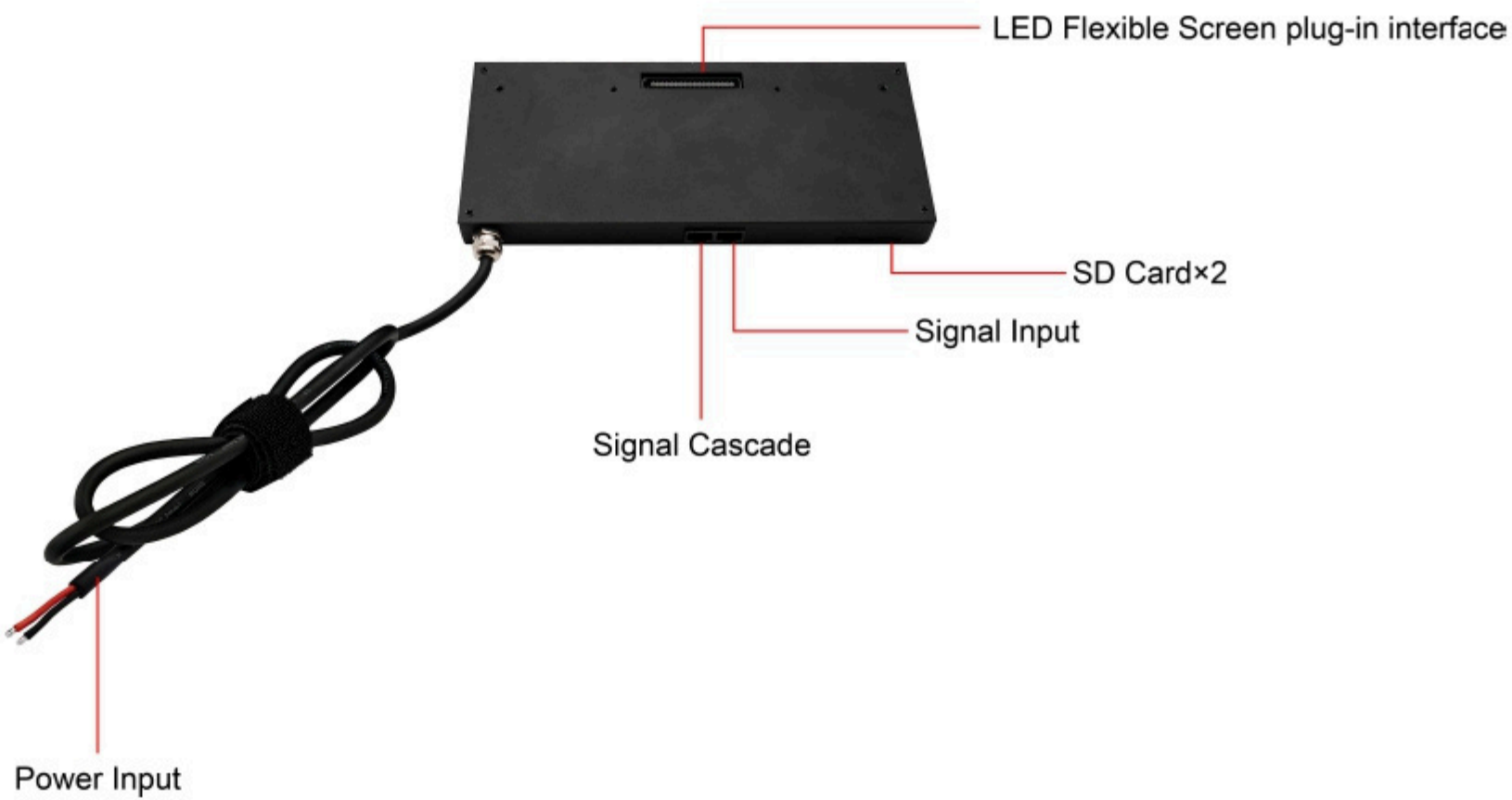

ILLUSION
UNIVERSE

 www.illusionuniverse.ca

1、 Basic information

- **Overview :** This product uses a 24V DC low-voltage DC power supply and features high transparency, light weight, modularity, and high flexibility in installation, without obstructing the building's natural form and color. Its built-in Artnet control system allows for easy adjustment of lighting effects to suit specific needs, making it easy to operate. Its P15 pixel pitch, while maintaining a certain viewing distance, offers a relatively low cost and a significant cost-performance advantage. This product is widely applicable in commercial advertising, shopping malls, commercial streets, cultural and entertainment venues, theaters, cinemas, gymnasiums, and other venues.

2、 Product Size

Size parameters	0.5m
Dimension	 <p>The diagram shows a black rectangular control unit. On the left, a cable with two red wires is labeled "Power Input". On the top edge, a slot is labeled "LED Flexible Screen plug-in interface". On the right edge, there are two slots labeled "SD Card×2" and "Signal Input". On the bottom edge, a port is labeled "Signal Cascade".</p>
10m per roll	 <p>The image shows a roll of black flexible LED screen material with a grid of small, circular white LEDs. The roll is partially unrolled, showing the material's flexibility and the arrangement of the LEDs.</p>

3、Parameter list

Parameter	Unit	Min	Typical	Max
Length	M	-	10	-
Working Voltage (U)	V	-	24	-
Max Power (P)	W	-	-	400
Operating Temperature	Topt	-	-20°C-65°C	-
Storage Temperature	Tstg	-	-20°C-65°C	-
LED Type	-	-	2020RGB	-
LED Quantity	PCS	-	16*660	-
Pixel	PCS	-	16*660	-
Brightness (M)	CD	-	-	300
Pixel Pitch	MM	-	P15	-
Beam Angle	Deg	-	120	-
Grey Scale	-	-	256	-
Working Mode	-	-	ART-NET/SD	-
LED Service Life	H	-	> 50000	-
Control Mode	-	-	ART-NET/DMX	-
IP Grade	-	-	IP40	-
Product Color	-	-	Black	-
Product Size	M	-	0.24*10	-
Product Weight (including controller)	KG	-	2KG	-

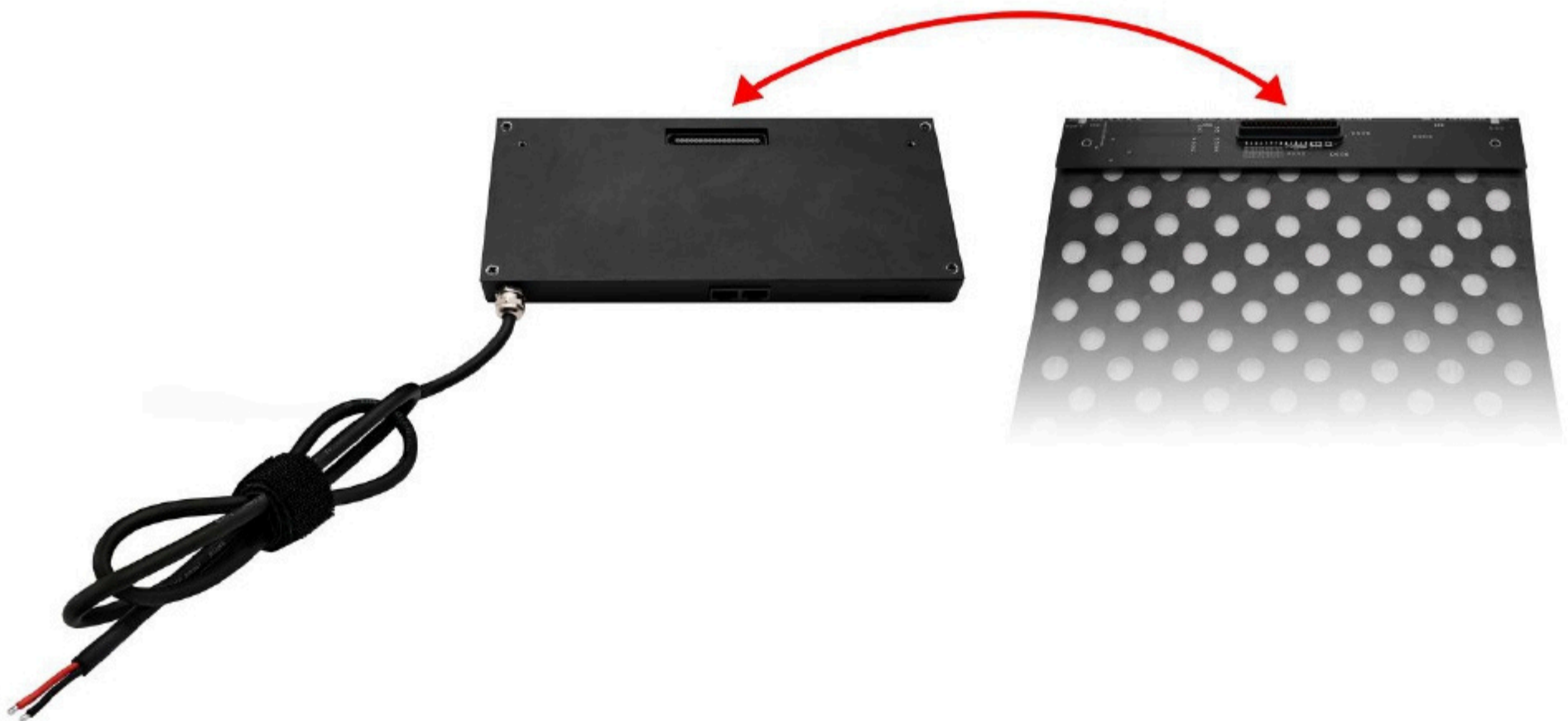
4、 Features

1. Plug-and-play convenience: Built-in controller, no complex setup required, ready to use upon connection.

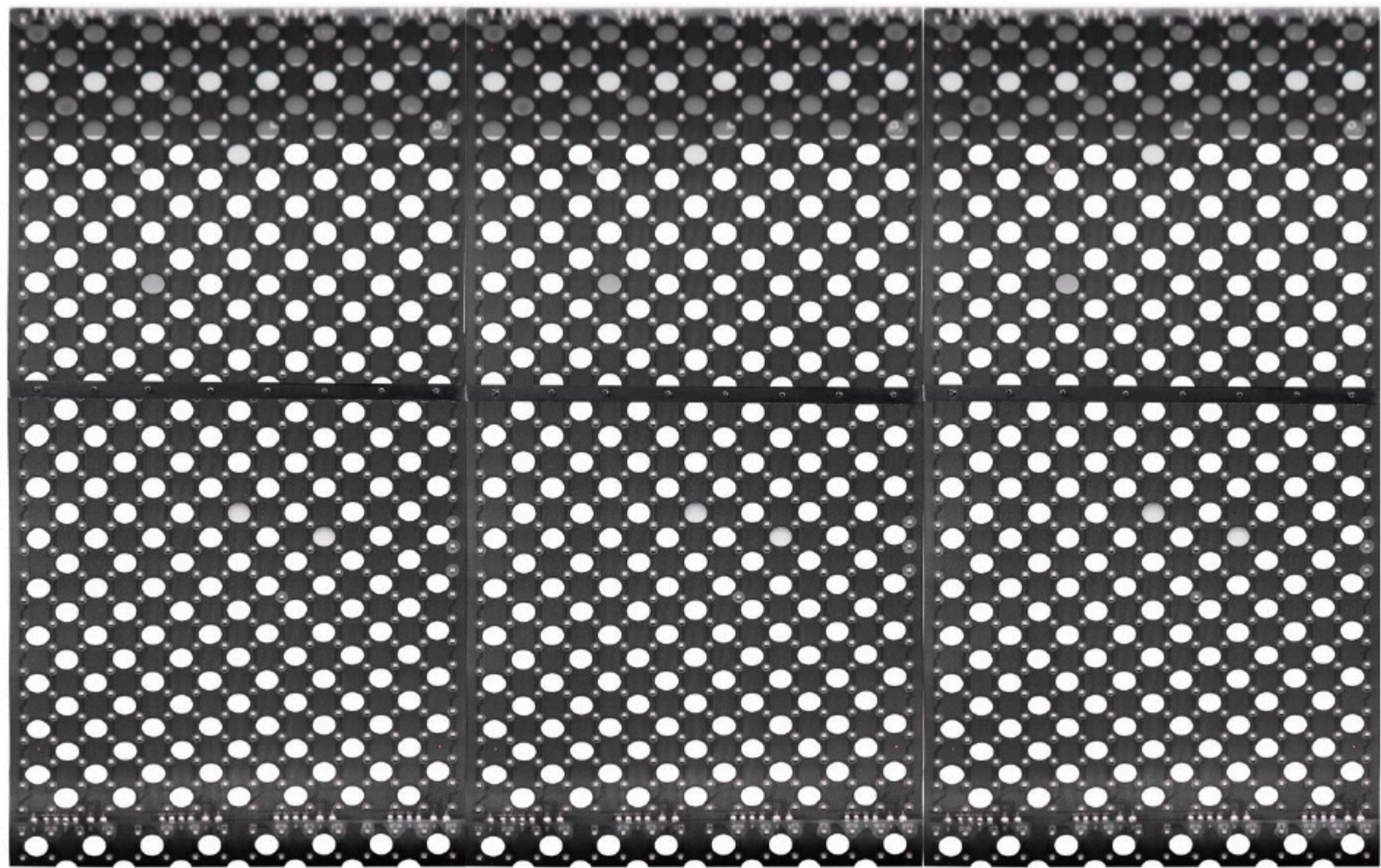
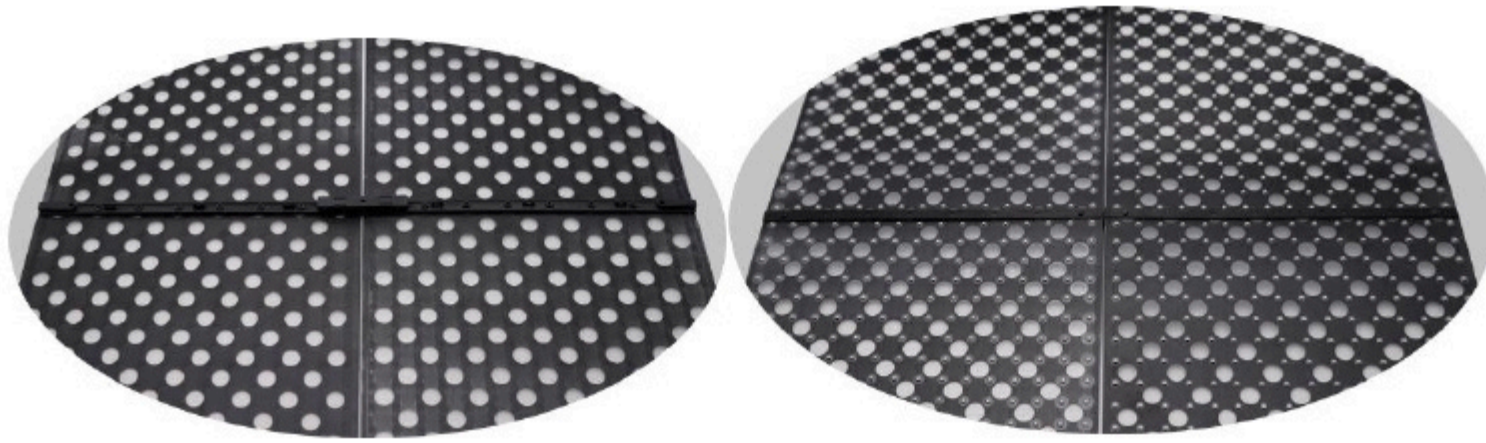
2. Flexible shaping adaptability: Using flexible FPC, it features softness, thinness, and lightness, allowing for bending, folding, and rolling. It can be freely combined into various shapes to meet creative design needs in different scenarios.



3. High-efficiency installation: Modular design, the controller and led flexible screen are detachable, making installation easy and convenient.



The led flexible screens can be joined together with customized connectors to achieve easy integrated installation and seamless visual presentation.



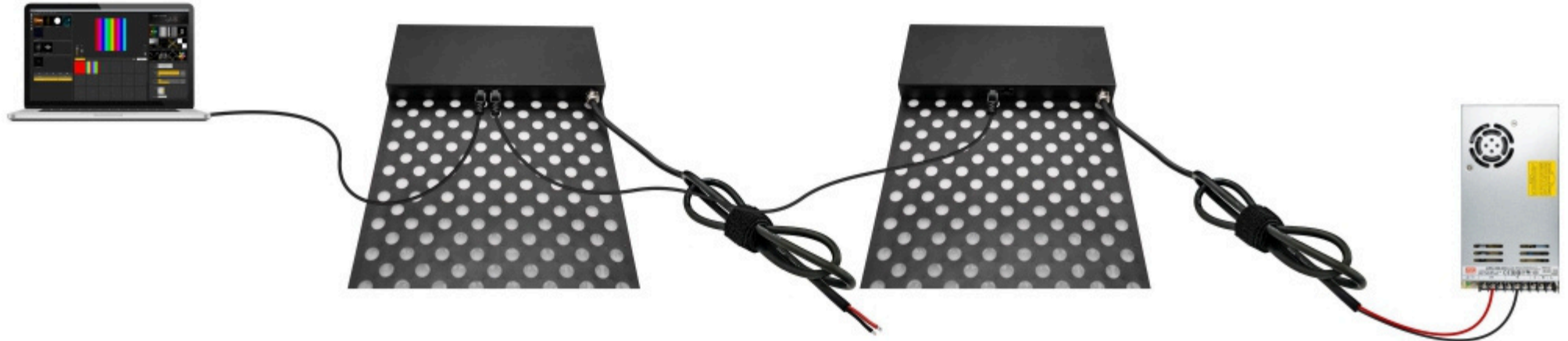
Hanging mounting: the connector can do hanging with steel wire ropes for hanging installation;



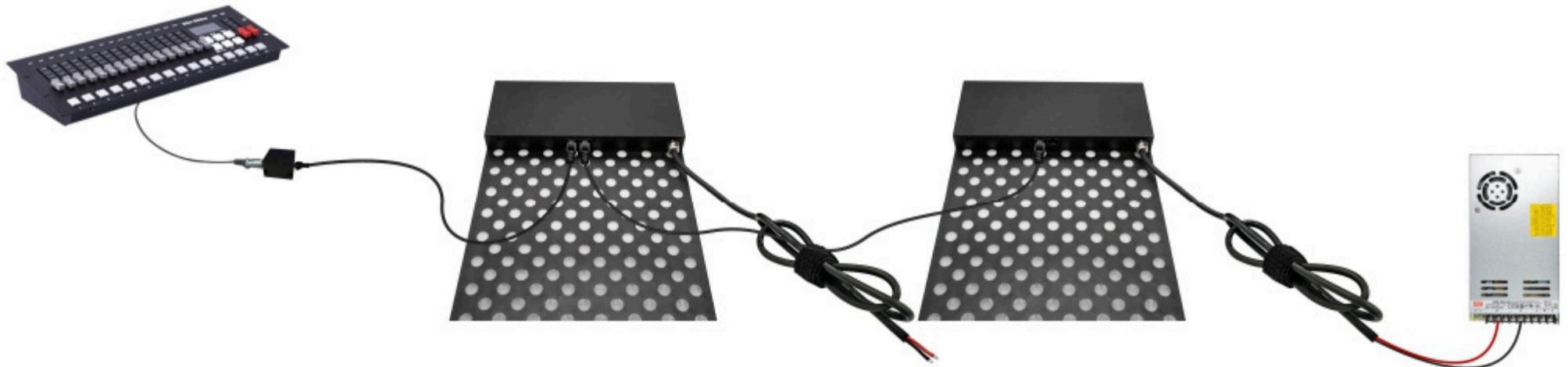
5、 Connection and control

Connection Control

Software connection to ribbon screen: Connect to the controller signal input port via a network cable.



Console Connection to Flexible Screen: The control console is connected to the controller via a signal conversion board.



6、 DMX Channel Table Description

Channel	Name	Figure	Instructions
1	Mode selection	000-247	Call internal 31 effects (one effect for every 8 addresses, and 0-7 for SD card effect 1)
		248-255	Switch to ART_NET mode
2	Speed	000-255	0 is the slowest speed, 255 is the fastest speed, SD card mode is valid
3	Brightness	000-255	0 is the brightness off, 255 is the brightest, SD card mode is valid
4	R- mask	000-255	Subtract red from the effect. 000 is the original effect, and 255 means subtract all red from the effect
5	G-mask	000-255	Subtract green from the effect. 000 is the original effect, and 255 is subtracting all green from the effect
6	B-mask	000-255	Subtract the blue in the effect. 000 is the original effect. 255 means subtract all the blue in the effect
7	Invalid	000-007	
	Normally on	008-015	Constant bright white, color selection by mask (brightness, mask channel available)
	Stroboscopic	016-255	The higher the value, the faster the strobe (speed, brightness, mask channel is effective)
8	Invalid	000-200	
	Record	201-255	When the value of channel 4.5.6 is 255, the recording is valid and the ART_NET effect is recorded to the file specified by channel 1

7、 Application scenario

- 1. Commercial Advertising:** Suitable for installation in shopping malls, commercial streets, office buildings, and other locations.
- 2. Cultural and Entertainment:** Suitable for theaters, cinemas, stadiums, and other venues.
- 3. Transportation Hubs:** Suitable for installation in airports, train stations, subway stations, and other locations.
- 4. Corporate Exhibition Halls:** Suitable for displaying corporate imagery, product introductions, and development history.

8、 Notice:

I. Pre-installation Preparation

1. Product Inspection: Before installation, inspect the display module, connecting cables (signal and power cables), and connectors to ensure they are intact, free of damage, loose components, or malfunctioning LEDs.

II. Installation Procedure Specifications

1. Wiring Standards: The power cable must match the screen's rated voltage (DC24V). The positive and negative polarity must not be reversed. The wiring sequence must strictly follow the product markings (e.g., "red positive, black negative"). Handle the connector with care when plugging or unplugging to avoid damage caused by pulling violently.

III. Power Supply and Control Considerations

1. Power supply stability control: Use a DC power supply that matches the screen's power output (recommended power margin $\geq 20\%$) to avoid voltage fluctuations caused by using inferior power supplies.

IV. Environmental Protection Key Points

1. Waterproof and Moisture-Proof Treatment: Ensure proper waterproofing and moisture-proofing during use.

V. Usage and Maintenance Guidelines

1. Daily Operation Taboos: Do not scratch the screen's surface with sharp objects (such as screwdrivers or fingernails) to avoid damaging the LEDs.
2. Regular Maintenance Inspections: Check weekly for loose cables and any issues with dead LEDs (failed LEDs) or flickering. Replace any faulty modules promptly. Clean dust and oil from the screen surface monthly (use a soft brush or dry cloth to gently wipe) to prevent any impact on heat dissipation and display quality. When not in use for extended periods, disconnect the power cord and store in a dry, well-ventilated environment to avoid moisture.

VI. Warranty and Troubleshooting

1. Warranty Coverage: Non-human damage (such as component aging or failure during normal use) is covered by the manufacturer's warranty. Human damage (such as improper installation, incorrect wiring, or
2. Emergency Troubleshooting: If the screen does not light up, flickers, or displays distorted, first disconnect the power supply and check the power supply and wiring. Do not disassemble the module yourself. Contact a professional technician for repair to avoid further damage.

VII. Layout suggestion: Remove 5 pixels

When laying out the ribbon screen, it is recommended to delete 5 pixels per space, which matches the 660 pixels of the ribbon screen for a simpler layout;



Contact Us



SALES@ILLUSIONUNIVERSE.CA



UNIT 11, 10 FALCONER DRIVE,
MISSISSAUGA , ONTARIO, CANADA



WWW.ILLUSIONUNIVERSE.CA