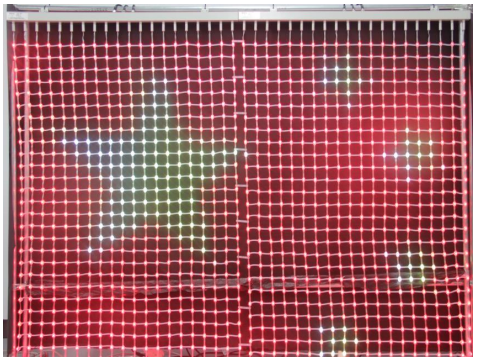
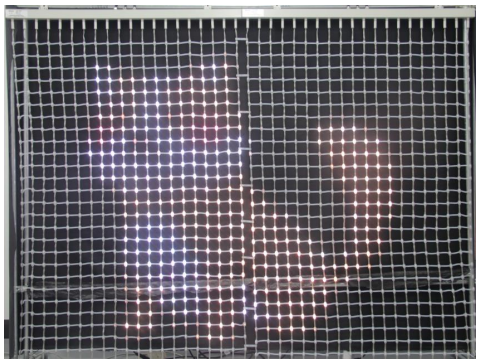
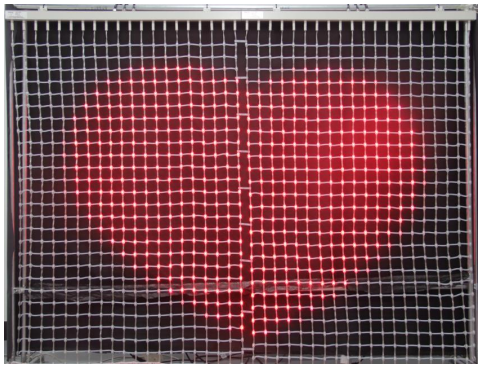
Product Specification

Smart Mesh Grille Light A Project Series: EC-NF05/NF08/NF10







Description:

Smart Mesh Grille Light A project series products are specially designed for outdoor decorative lighting projects. The design concept is to adopt a hollow structure between pixel points and between light strings, which removes redundant parts. Besides, as the display is separated from the control, the products enjoy simple characteristic and present sound transparency. For its transparent structure, the lights themselves won' t block light, catering exclusively to commercial advertising inside and outside in a fashionable and aesthetic manner.

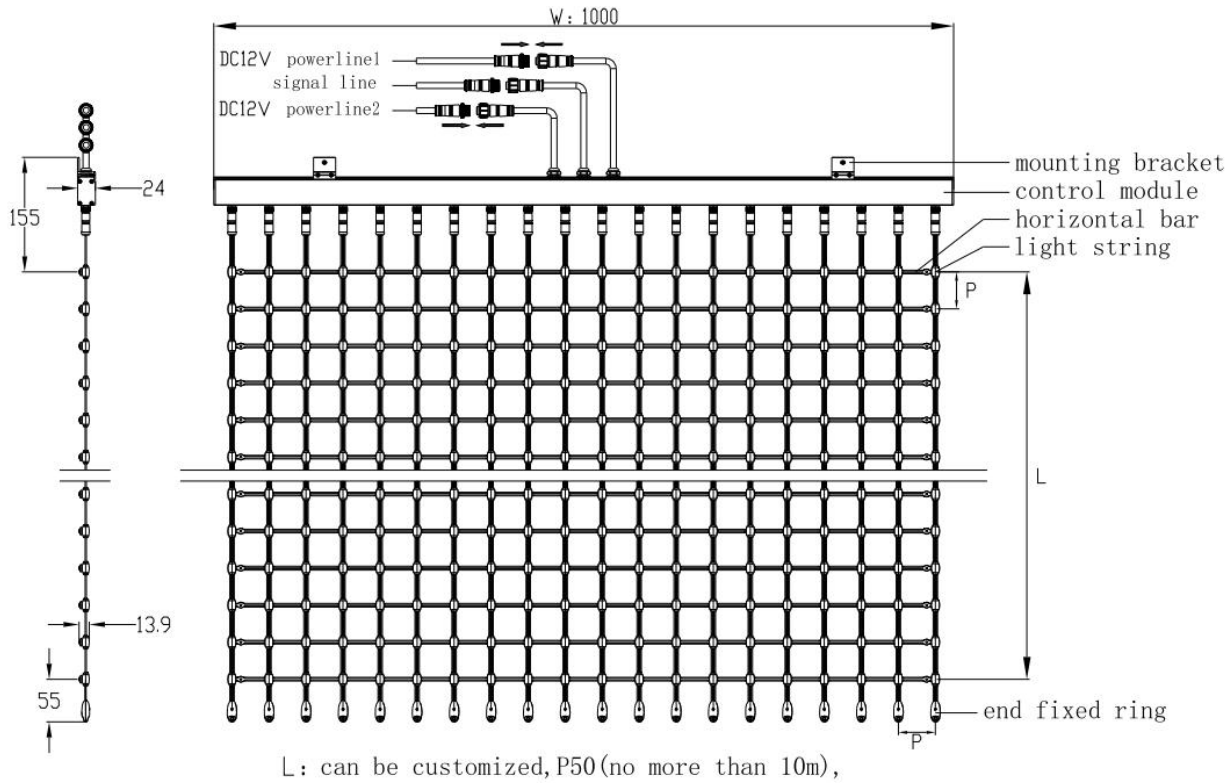
Product features:

- Slight and thin, mainly used in commercial environment; creative and aesthetic;
- Adopt customized outdoor transparent rubber cable, produced via automated machines;
- Every pixel point includes LED chip and IC; single point single control instead of being controlled externally;
- Every pixel point is with optical-grade PC diffuse reflection cover; support 360° lighting effect; IP66;
- With transparency reaching to 95%; can block least light from outside;
- Every pixel point, its three primary colors support 256 gray scale;
- Support various graphic change effect such as jump, gradient, monochrome, full color, pattern, animation and text;
- Applying environment: park, square, yard, shopping center, hospitality, clubhouse, building wall, guardrail etc.;
- Installation: hoisted, wall mounted, and glass installation according to the site conditions.

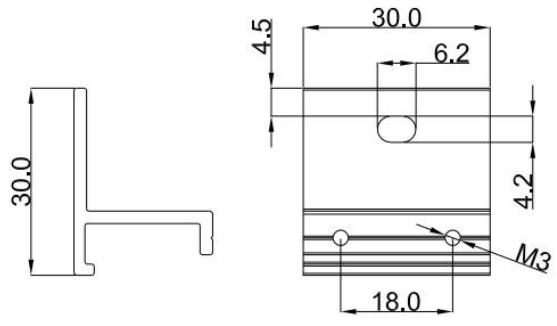
Technical Parameters:

Available models	EC-NF05	EC-NF08	EC-NF10
Input voltage	DC12V	DC12V	DC12V
Maximum power	≤420W	≤420W	≤216W
Pixel pitch	5cm	8cm	10cm
Module width	1m	1m	1m
Module quantity	20 string/m	12 string/m	10 string/m
Module length (can be customized)	≤10m	≤16m	≤20m
Lamp beads	≤200pics/string	≤200pics/string	≤200pics/string
LED light source details	SMD3535RGB with IC inside	SMD3535RGB with IC inside	SMD3535RGB with IC inside
LED chip brands	San’ an/Epistar	San’ an/Epistar	San’ an/Epistar
Color temperature	RGB	RGB	RGB
Beam angle	360°	360°	360°
Gray scale	256	256	256
Refresh rate	> 30Hz/sec	> 30Hz/sec	> 30Hz/sec
Protecting rate	IP66	IP66	IP66
Work temperature	-30℃~+50℃	-30℃~+50℃	-30℃~+50℃
Light source life	≥50000H	≥50000H	≥50000H
Control	SPI/BRT control	SPI/BRT control	SPI/BRT control
Installation	hoisted, wall mounted, and glass installation according to the site conditions.	hoisted, wall mounted, and glass installation according to the site conditions.	hoisted, wall mounted, and glass installation according to the site conditions.
Product certificates	ETL CE ROHS	ETL CE ROHS	ETL CE ROHS

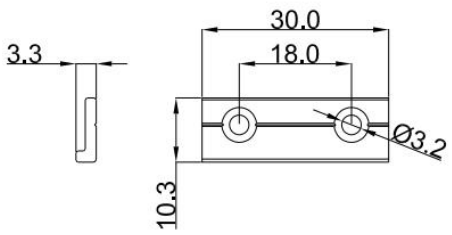
Product Size:



L：can be customized,P50(no more than 10m),
P80(no more than 16m),P100(no more than 20m)
W：1000mm，P50=50mm P80=80mm P100=100mm

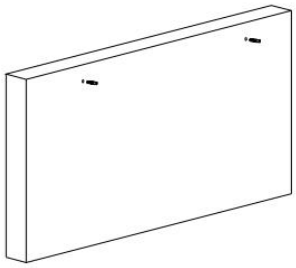


Mounting bracket

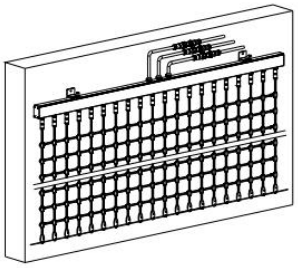


Fixed bracket

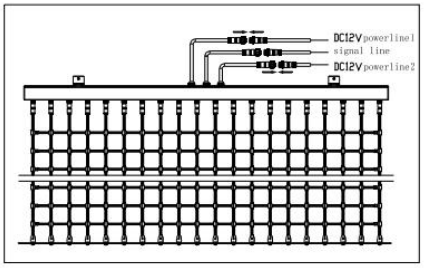
Installation Diagram:



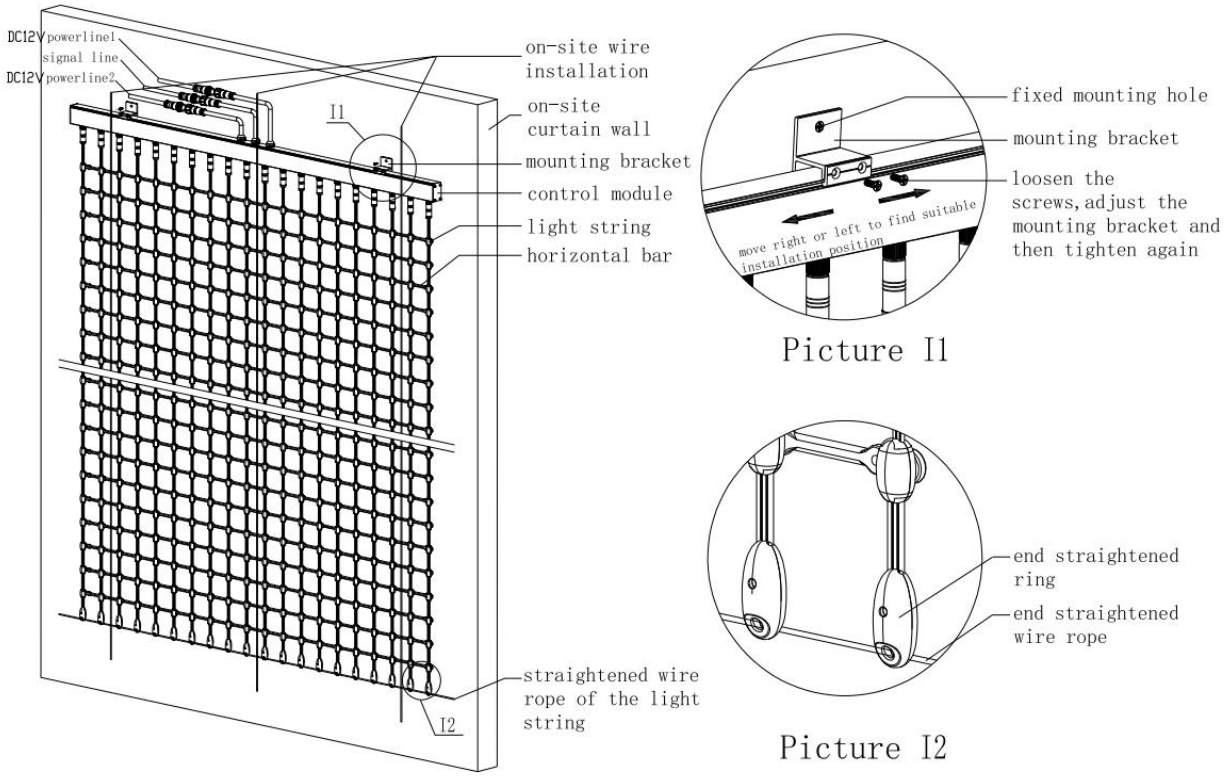
1. Drill mounting hole on the curtain wall and install screw expansion rubber plugs;



2. Align the left and right mounting brackets with the holes on the curtain wall and fasten them with M4 screws



3. Connect the DC12V powerline to the drive power supply and then connect the signal line to the sub-controller(see the wire diagram for the specific connection of the signal line)



Picture I1

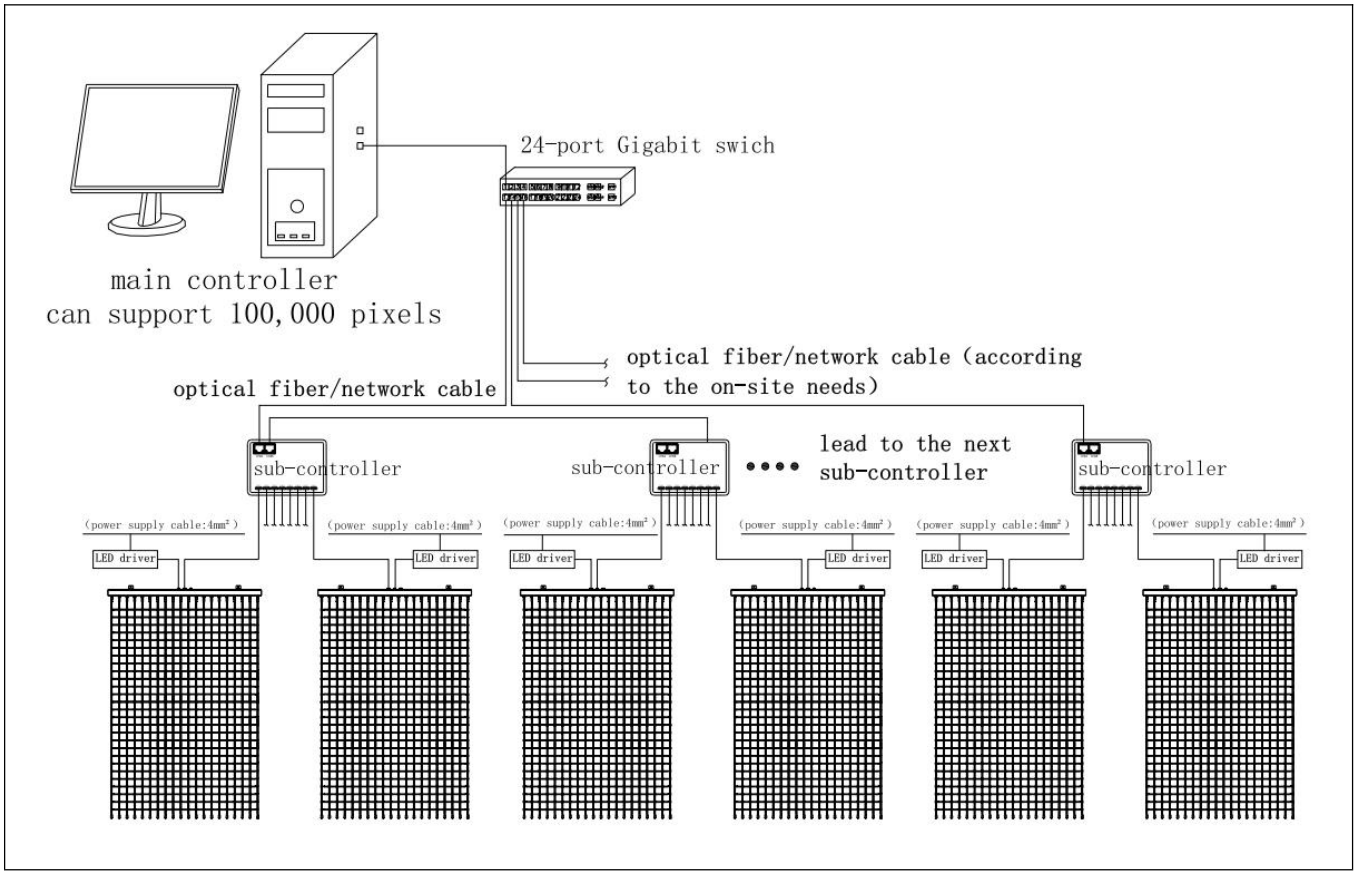
Picture I2

Notes:

1. The main controller should be used with sub-controllers and data converters; both controllers should be with AC220V;

2. Each sub-controller is with 8 ports, which can connect lights no more than 1,000;

3. CAT5 cable should be used between the main controller and the switch board, the switch board and the sub-controller, sub-controllers, as well as sub-controller and data converter. Each distance of them should be within 150 meters and the distance from the data converter to the first light should be within 2 meters.


24-port Gigabit swich
main controller
can support 100,000 pixels
optical fiber/network cable (according to the on-site needs)
optical fiber/network cable
sub-controller
sub-controller
lead to the next sub-controller
sub-controller
(power supply cable:4mm²)
LED driver