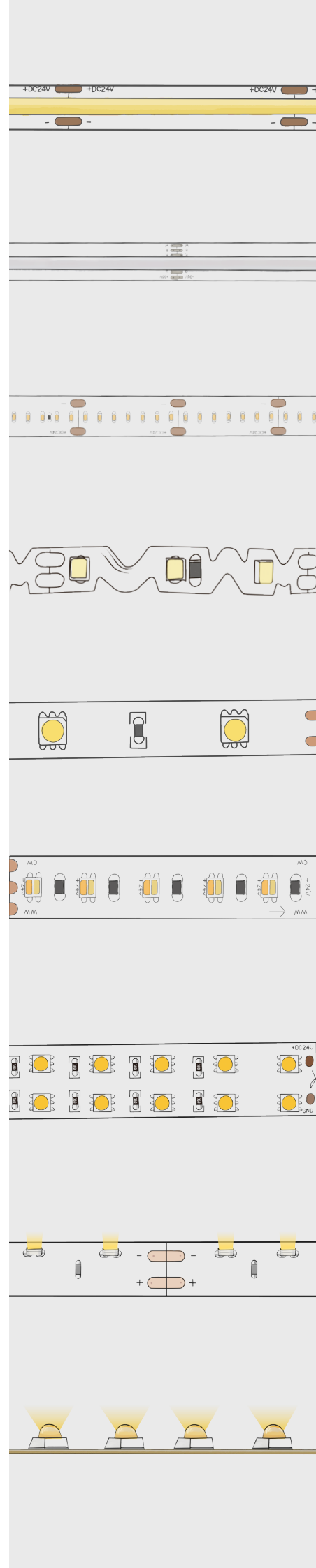




# Product Specification

## Blazer 2.0 Wallwasher LED Strip



www.mingxuele.com

E-mail: [info@mingxue.cn](mailto:info@mingxue.cn)

Tel: +86-755-27637866

Address: 14 Floor, T3 Building, HIPAR technology building, Shiyan Town, Bao'an District, Shenzhen, China.

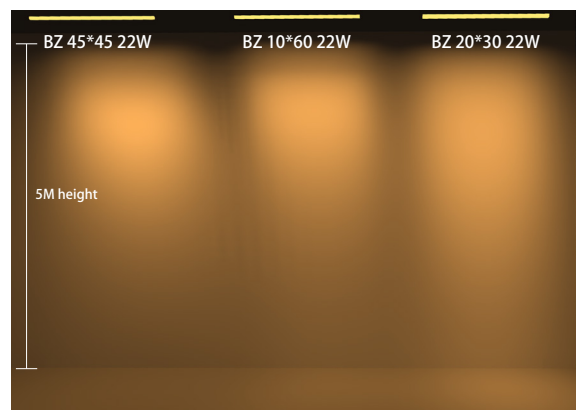
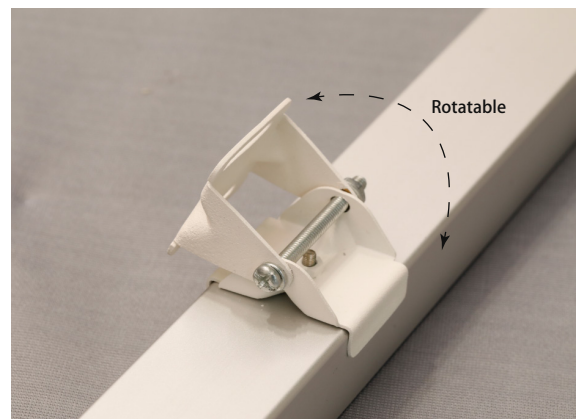
Factory: Building 9 & 10, WanYang park, baoyong industry road No 8, west area baoyong industry zone, longjiang town, Shunde District, Foshan city.

## Blazer 2.0 Wallwasher LED Strip







- Can be bent vertically and horizontally;
- 10°/60° /20°/30° / 45° Lens for multiple angles;
- High light effect 3535 LED can be white light /DMX RGBW version;
- Using constant current IC design, IP67 waterproof; IK07
- Complete clip accessories, bracket, aluminum channel, flexible bracket, outdoor special equipment and rotatable;
- Bending and twisting more gentle, smaller volume, large volume, light weight;
- Soft bend flexibility, strong impact resistant, high tear resistance and high weather resistance;
- 50,000 hours of life with a 5-year warranty.



**NEW**



## Technical Spec

Series	Item Code	Voltage	CCT	Power	Ra	Lm/m	Lm/ft	Lm/W	CD	LENS Angle	LED Quantity
DMX RGBW	MF355Z024Q80-D040W6A16106D-2727ZB02	24V	 RGBW	27W	N/A	945	288	35	1350	10*60	3535 24/M
	MF355Z024Q80-D040W6A16106D-2727ZB01	24V	 RGBW	27W	N/A	1188	362	44	2600	20*30	3535 24/M
	MF355Z024Q80-D040W6A16106D-2727ZB03	24V	 RGBW	27W	N/A	1000	305	37	1100	45*45	3535 24/M
Mono Color	MF330W024Q80-D040G6A16106N-2727ZB02	24V	 2700K 3000K 4000K 6500K	27W	80	1620	494	60	2270	10*60	3030 24/M
	MF330W024Q80-D040G6A16106N-2727ZB03	24V	 2700K 3000K 4000K 6500K	27W	80	2214	675	82	4240	20*30	3030 24/M
	MF330W024Q80-D040G6A16106N-2727ZB04	24V	 2700K 3000K 4000K 6500K	27W	80	1809	552	67	1470	45*45	3030 24/M

**Notice:**The maximum connection length for single-ended power supply is 5 meters.  
 Above spec is based on 4000K,Gary silicone wall washer test.
















LED Type :	3030LED for Mono color /3535 LED for RGBW	Input Current/m:	0.9~1.15A(0.27~0.35A/ft)
Color Rendering Index:	Ra>80	Static Electricity:	1000V (ESD)
LENS Angle:	10*60° /20*30° /45°	Warranty:	5years
Operating Ambient temperature Ta:	-20~45°C[-4~113°F]	Lifespan :	50,000H
Pixel Segment& Address QTY:	4Pixel/M	Product length:	Customize the length in units of 250mm

**Notice:**

- Luminous flux or CCT 2700K is 10% lower, or CCT 3000/3500K is 5% lower, for CCT 5000K/ 6500K is the same, compared with 4000K.
- Energy efficiency class of regulation (EU)201 9/2020 is E(CRI80) for 4000K and F(CRI80) for CCT, it varies depending on CRI and CCT.
- Applying with extra heat sink is not necessary with self-cooling capacity.
- The transmission direction of data must be from PI to Po following the arrow printing on FPC for DMX version, and can't be made by reverse connection, otherwise the strip will be out of control or even damaged.

## Extrusion material comparison

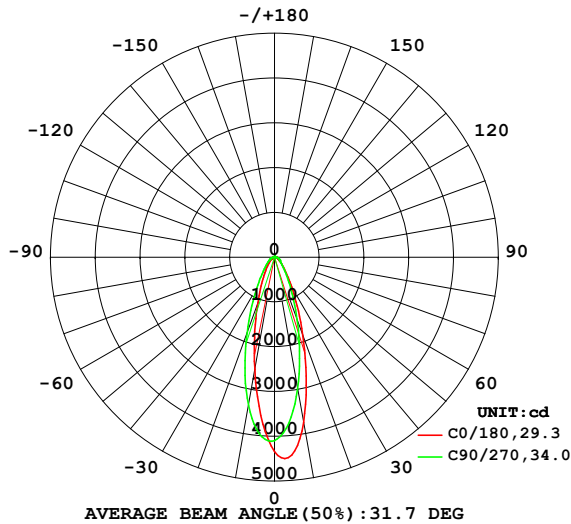
Note: Please refer to the instruction manual for electronic parts

compared item	silicone	PVC	PU
UV/ yellowing resistance	★★★★★	★★★☆☆	★★★☆☆
High temperature resistance (ambient)	 250°C	 80°C	 80°C
Low temperature resistance (ambient)	 -50°C	 -20°C	 -20°C
Enviromental protection	★★★★★	★★★☆☆	★★★★★
Adsorbability	★★★★★	★★★☆☆	★★★☆☆
Formaldehyde resistance			
Strong acid resistance	★★★★★	★★★☆☆	★★★★★
Strong alkali resistance	★★★★★	★★★☆☆	★★★☆☆
Heat dissipation			
Color temperature consistency			
Tensile strength	★★★★★	★★★★★	★★★☆☆

Note: Please refer to the instruction manual for electronic parts



## IES Data

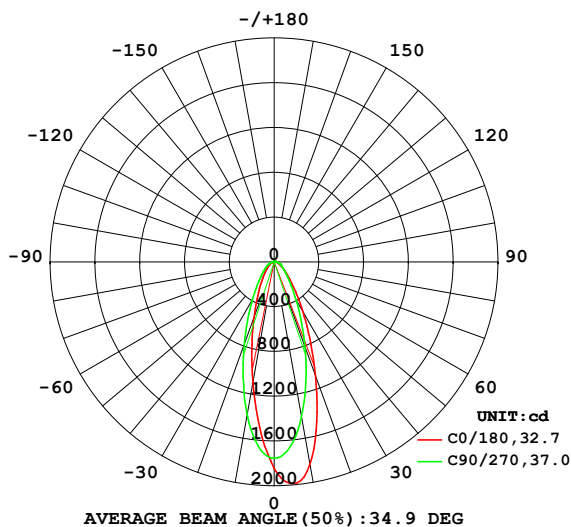


### Monochrome 20\*30 degree

Flux out:667.6 lm

Height	Eavg, Emax	Angle:29.30deg	Diameter
1m	2960,4482lx		52.29cm
2m	739.9,1120lx		104.58cm
3m	328.9,498.0lx		156.87cm
4m	185.0,280.1lx		209.16cm
5m	118.4,179.3lx		261.46cm
6m	82.21,124.5lx		313.75cm
7m	60.40,91.47lx		366.04cm
8m	46.25,70.03lx		418.33cm
9m	36.54,55.33lx		470.62cm
10m	29.60,44.82lx		522.91cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



### RGBW 20\*30 degree

Flux out:363.6 lm

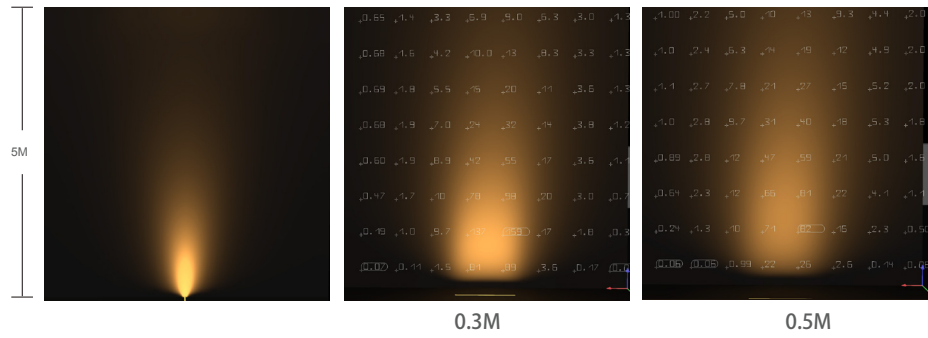
Height	Eavg, Emax	Angle:32.71deg	Diameter
1m	1238,1966lx		58.68cm
2m	309.6,491.5lx		117.37cm
3m	137.6,218.5lx		176.05cm
4m	77.39,122.9lx		234.73cm
5m	49.53,78.64lx		293.42cm
6m	34.39,54.61lx		352.10cm
7m	25.27,40.12lx		410.79cm
8m	19.35,30.72lx		469.47cm
9m	15.29,24.27lx		528.15cm
10m	12.38,19.66lx		586.84cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

## Luminous effect

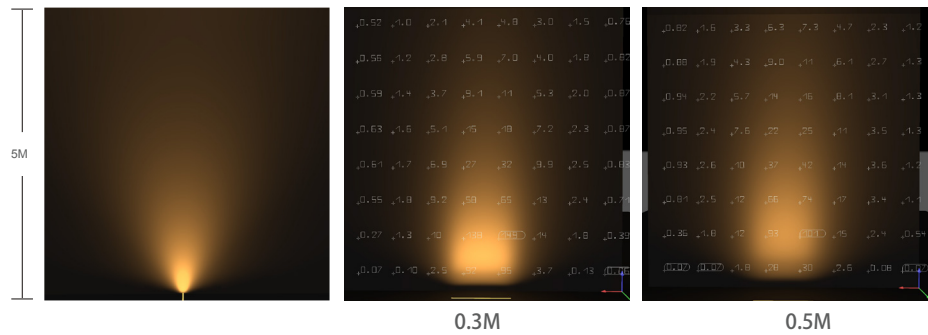
### 20\*30°

20\*30 beam angle lens  
 recommend distance from wall:0.5M  
 Light concentration,High lighting distance



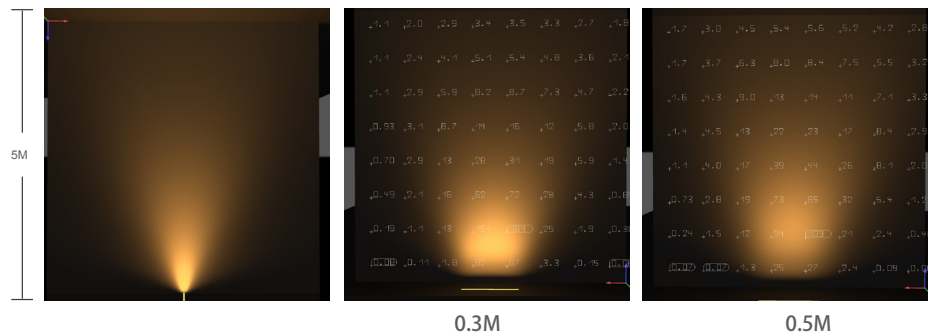
### 10\*60°

10\*60 beam angle lens  
 recommend distance from wall:0.5M  
 larger luminous surface,High lighting distance


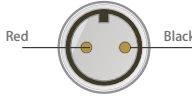

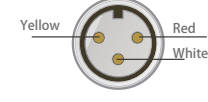

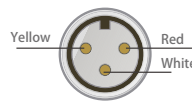

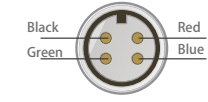

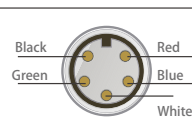


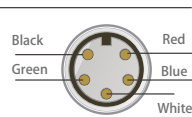


### 45°

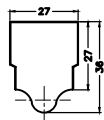
45 degree beam angle lens  
 recommend distance from wall:0.5M  
 larger luminous surface



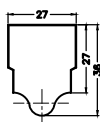
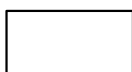
## ELECTRICAL WIRING COLOR CODES

● MONOCOLOR			○ CCT		
○ SPI			○ RGB		
○ RGBW			○ RGBCCT		
● DMX					

Combination mode



When the wall washer lamp is shaped or bent,  
use the aluminum slot to install the buckle



970MM/PCS



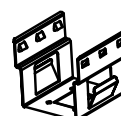
If the wall washing lamp is installed in a straight line, use an aluminum trough. One meter of aluminum trough is configured with five sheet metal fasteners. In the case that the customer needs to rotate the lamp out of the light belt during installation, the rotating bracket can be added by 2pcs



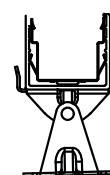
W36.2\*H40\*L32MM



Aluminum profile  
W29\*H26.4\*L50MM



Clip  
W26\*H22.4\*L25MM



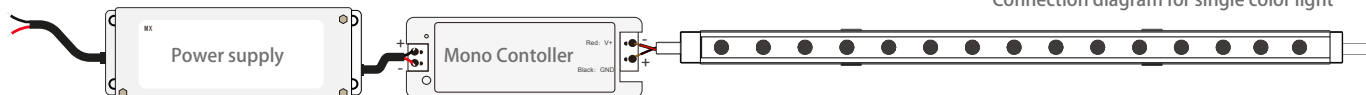
Adjustable Angle bracket  
W36.2\*H55.9\*L50MM

The range of accessories available is wide

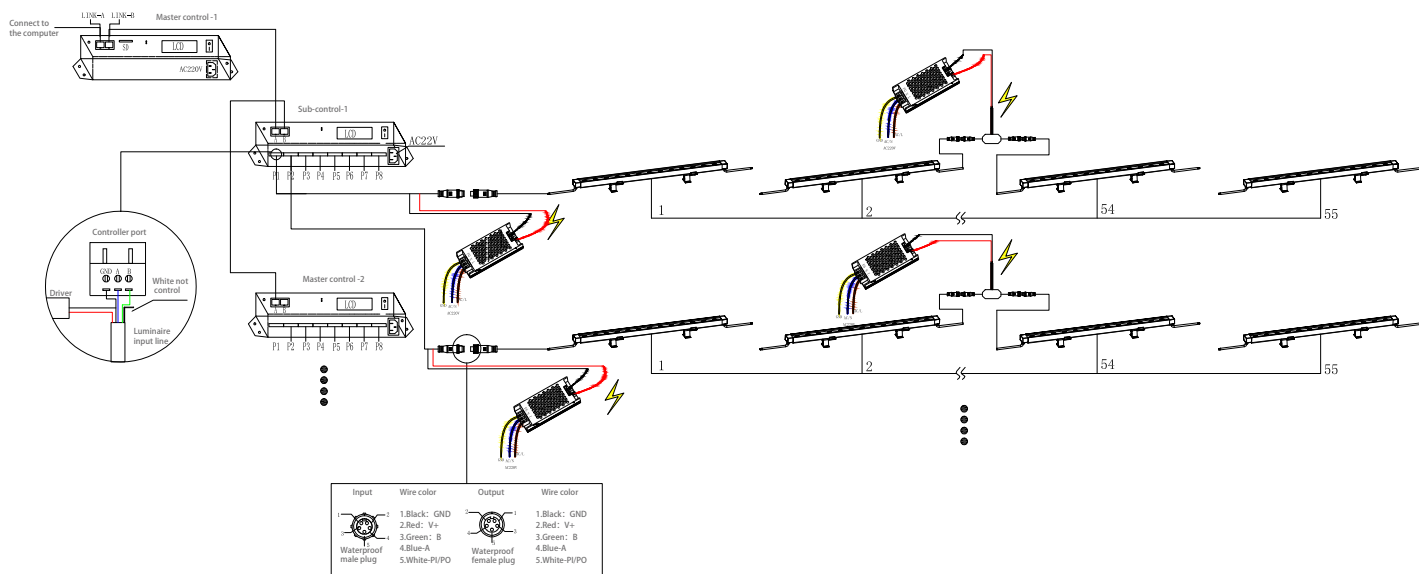
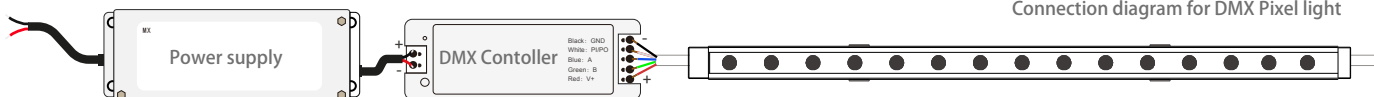
Aluminum profile, S shape profile, Adjustable Angle bracket

## Connection diagram

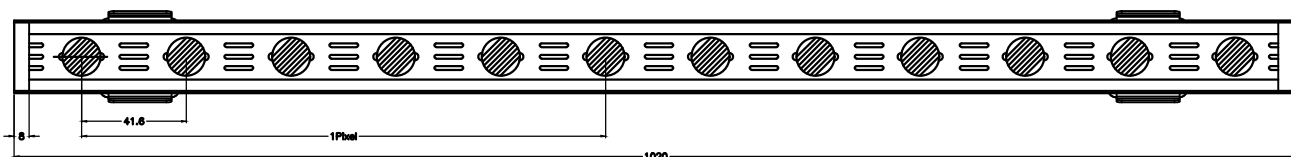
Connection diagram for single color light



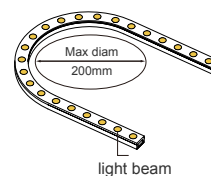
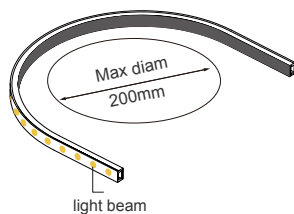
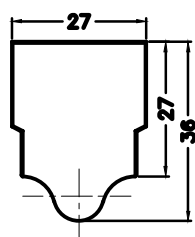
Connection diagram for DMX Pixel light







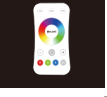

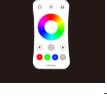





## Product Drawing



Unit:mm



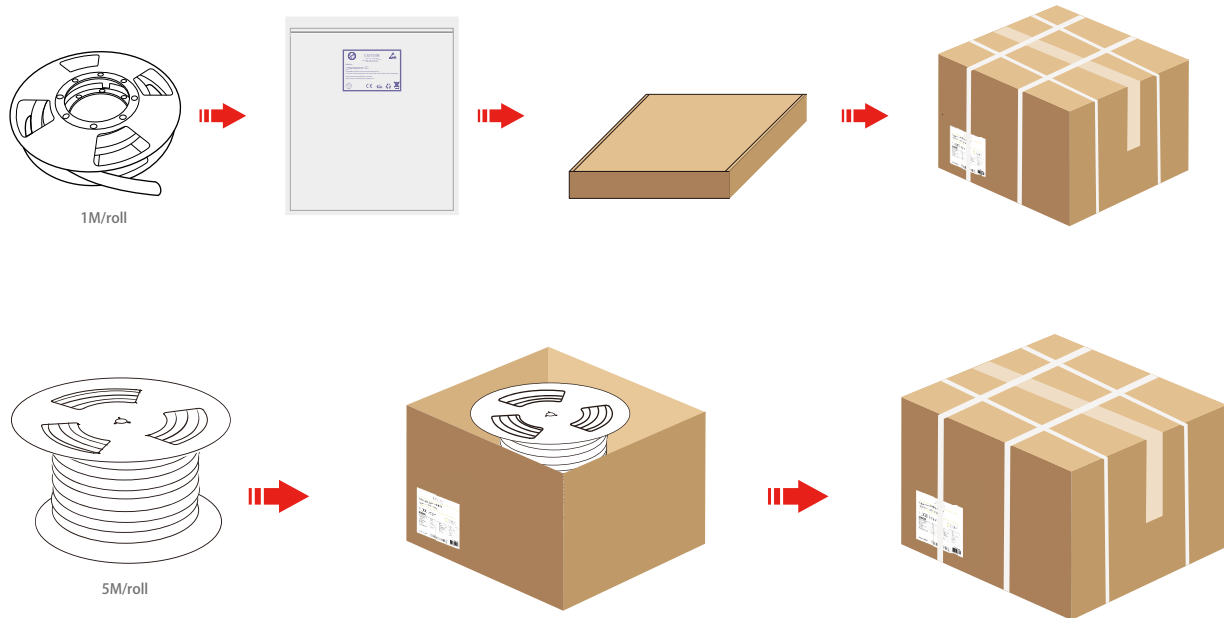
## Controller

Picture	Item	Model	Spec	Match
	Monochrome remote	MX-03-030472	Output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with Monochrome light strip
	Monochrome light controller	MX-03-030322	Input voltage:12-48VDC Output current:15A@12V/24V-10A@36V/48V Output Power:180W@12V-360W@24V 360W@36V-480W@48V Working temperature:Ta:-30°C~+55°C	Use with Monochrome light strip
	CCT remote	MX-03-030466	Output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with CCT light
	Color temperature controller	MX-03-030437	Input voltage :12-24VDC Output current :2CH,5A/CH Output Power :2x(120-240)W Working temperature:Ta:-30°C~+55°C	Use with CCT light
	RGB remote	MX-03-030469	Output signal :RF(2.4GHz) Working voltage :3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with RGB light
	RGB Controller	MX-03-030467	Input voltage :12-24VDC Output current :3CH,4A/CH Output Power :144-288W Working temperature:Ta:-30°C~+55°C	Use with RGB light
	RGBW remote	MX-03-030454	output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:-30°C~+55°C	Use with RGBW light
	RGBW Controller	MX-03-030455	Input Voltage:12-24 VDC; Output Current:4A*4CH, Max 6A/CH; 192W/384W (12V/24V)	Use with RGBW light
	MX-03-030475	LTSA512 DMX Master Controller	Input Voltage:5V DC Power Consumption:<2W Connection way:Mini USB Internal Memory:6000 steps@512Chs Output Connector:XLR-3 Transmission Signal:DXM512 PC Software:LTECH LED player	Use with DMX Pixel light
	MX-03-030479	DMX512 to SPI Pixel Decoder	(1)5-24VDC (2)Input Signal:DMX512/RDM+RF 2.4G Output signal:pixel signal (3)Control dots:1024 (4)Compatible with 37 kinds of Driving ICs;Numeric diaplay (5)Reverse Polarity Protection.	Use with SPI Pixel light
	MX-03-030458	SPI Controller	12-24VDC Input signal:RF2.4G,WORK WITH R9 remote Output signal:SPI(TTL) Control dots:1024 Compatible with 45 kinds of Driving ICs Reverse polarity protection	Use with SPI Pixel light
	MX-03-030459	RGB/RGBW SPI remote	Output signal:RF(2.4Hz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:-Ta30°C~+55°C	Use with SPI Pixel light

## Reliability test of light

TEST TYPE	TESTING ITEM	TEST STANDARD	DESCRIPTION
PHOTOMETRIC TEST	Spectrum Analysis	LM 79	LM 79(lumen,CCT,CRI,XY,SDCM,wave length)
	Photometric Distribution	LM 79	LM 79(lumen intensity distribution&Lux diagram)
	Lumen Maintenance&Life Time	IES LM 80&IES TM28 GB/T24824-2009	LM 80&IES TM28
ELECTRICAL TEST	EMC Test	EMI & EMS	IEC 61547/GBT 18595 IEC 61000-3-2/GB 17625.1
MECHANICS & PHYSICE TESTING	Bending Test Vertical	Mingxue	Manufacturer-defined,100 cycles 3 times bending with 0.5m/s pulling speed
	Bending Test Horizontal	R2	Manufacturer-defined,100 cycles 3 times bending with 0.5m/s pulling speed
	Wrestling test	Mingxue	COB/CSP 500 / SMD 1000. cycles
	Swing Test	UL2388	UL2388,>750 cycles
	Tensile Test	IEC 60598-1; GB7000.1	Manufacture-defined,>the weight of light in maximum connection length wiht both ends feed. With 30Nm if total cross section <0,75 or 60Nm force, pull wire 25 timesduring 1 sec. Mark displacement ≤ 2mm.
	Twist Test	Mingxue	Manufacturer-defined,>200 cycles in 720°
	Curl test	Mingxue	Back and forth 80-100 times
	IK06-08-10	IEC62262	IEC62262 The hammer spring Impact energy 0.7J
	Adhesion test	JB1256-77	3M VHB5952 hung on 2kg loads >7 hrs
	Drop test	IEC68-2-6	IEC68-2-6,GB/T2423/10/95
	Vibration test	ISTA-1A	bear up to 25,4mm amplitude in 14200 cycles
	Winding Test	IEC 60598-1; IEC 60598-2-21; GB-7000.1	φ 150mm cylinder, 60N pull, winding 10 times at (-25°C ±2°C) , and 10 times after(-15°C ±2°C, 16h).
	Electrical strength	IEC 60598-1; IEC 60598-2-21 GB-7000.1	500V
	Product accessories disassembly test	Mingxue	Product accessories are installed and adapted 5-10 times
ENVIRONMENT TESTING	Heating test	IEC 60598-1: 12.4	Sample to be tested under normal installation Under 1.06 times Rating Voltage After 30 minutes.
	Salt Spray Test	IEC 60068-2-11	5% salt solution concentration,5% salt water,35+/-2C for 72hrs
	High temperature and Humidity impact	IEC 60068-2-78 GB/T 2423.3	60+/-2° C for 168 hrs 60°C, 85%RH ,Test light decay data<3%
	Temperature Shock Test	IIEC60068	Manufacturer-defined,-40°C-60°C(typical temperature ange) 168H
	switch test	GB/T24824-2009	30s On, 30s Off, 15000 times;on/off every 30S, > 15000 cycles
	Lifetime aging test	Mingxue	Normal temperature 25°C
	Constant Temperature Test	Mingxue	Manufacturer-defined,60°C to -40° ( typical temperature )
	Cold Bend Test	IEC 60598-1; IEC 60598-2-21 GB-7000.1	wound on mandrel,low-temperature (-15°C ±2°C, 16h), around the mandrel for two turns
	Cold Impact test	IEC 60598-1; IEC 60598-2-21 GB-7000.1	Low-temperature (-15°C ±5°C, 16h), hammer falls from a height of 100mm.
	UV Exposure Test	ASTMG154-06	ASTMG 154,ISO 4892-3, UVA@340nm ASTMG154-06, UVA-340 0.68W/m2 for 500 hrs
	IPX5 IPX6 IPX7 IPX8	IEC 60598-1; IEC 60598-2-21 GB-7000.1	IEC60529 IPX5/X6/ IPX7/X8

## || Packing



## || Safety Information

### Application notes for led flexiable strip

In order to drive LED flexible strip lights safely, it is absolutely necessary to operate them with an electronically stabilised power supply protecting against short circuits, overload and overheating.

To also ease the luminaire/installation approval, electronic control gear, power supply and all electronic accessories for LED or LED modules should carry "CE, or UL" mark and meet the latest safety standard.

- Please use 24VDC isolated power supply to drive the led strip, and the constant voltage source ripple less than 5%. Can't step-down the power by resistance-capacitance and non-isolated power supply driver led strip, etc.
- To ensure the longevity and reliability of the strips, please do not bend the arc diameter 60mm or less, do not fold to avoid damaging the lamp beads or broken.
- To ensure the life and environment of lights, in the use of force can not pull the power cord to avoid damage to prohibit collision LED lights.
- During the installation of positive and negative attention to the power cord, do not pick the wrong voltage power supply and the product are the same, so as to avoid damage to the product.
- LED lights should be stored in dry sealed environment, the proposed storage period should not be too long before using unpacking, the working temperature:  $-20 \sim +45$ , Storage temperature:  $-0 \sim +60$ , not waterproof lights band indoor use, relative humidity not higher than 70%.
- In practical applications, the power supply should leave 20% margin (recommend using only 80% of the power) in order to ensure a sufficient amount of voltage drive products
- Do not use any acidic, alkaline adhesive securement products (including not limited to glass, plastic, etc.)