

Unlike pixel strip, DM512 LED Ribbon is a intelligent LED Ribbon that operates based on the DMX512 protocol, which can be controled directly by DMX512 protocol controller. For a DMX512 LED ribbon, comes with asynchronous serial control, and for normal pixel LED ribbon is synchronous serial control way. For a DMX512 led ribbon comes with A, B parallel signal transmission, which the signal can be breakpoints continue to transmit, no matter how many points on this line are bad, the rest will work normally. For the UCS512G6 comes with differential parallel connection, which support max. 4096 channels. Further more, for UCS512G6 IC with built-in patented S-AI anti-jamming module greatly enhances the anti-jamming ability, signal has a stronger anti-interference ability. The refresh rate of the IC up to 32KHz and with a high grey levels of 65536, which can improves the shooting effect significantly, and makes the light without flicker under a camera. The strip can be widely used for entertainment, stage, live performance like 3D effects and TV shows, Studio, Film shooting etc.

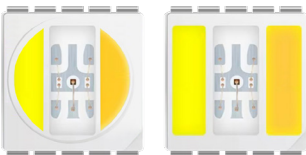
24V



### 24V TECHNICAL SPECIFICATIONS, 24VDC

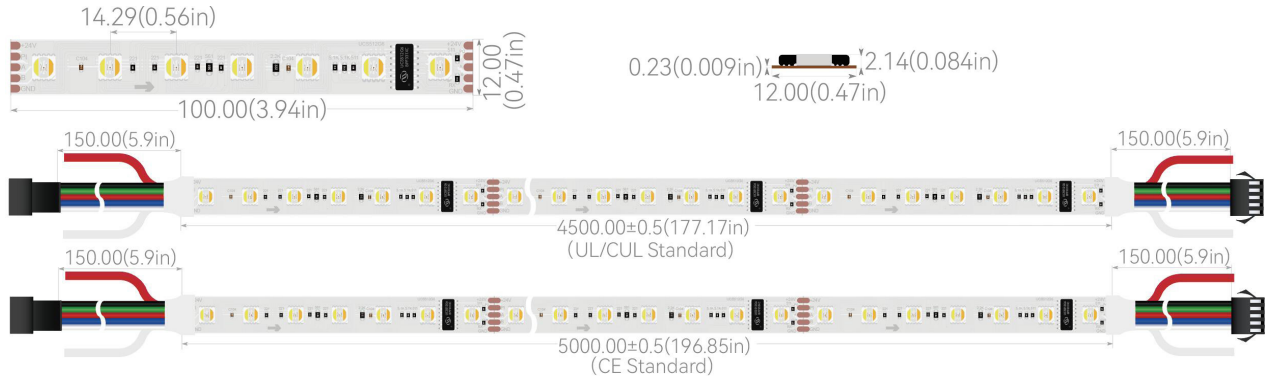
<b>Product Name:</b> High Frequency UCS512G6 RGBBI DMX512 Flex LED Ribbon	
<b>Product Code:</b> GLUA24CV012L0200FP07W70C3UCS512G6	<b>Part Number:</b> GLU-S5L0200FP70-24V
<b>LED Qty./M:</b> 70LEDs	<b>Color:</b> RGBBI
<b>Working Voltage:</b> 24 VDC	<b>PCB Color:</b> White/Black available
<b>Max. Current per meter:</b> 0.9A	<b>CC / CV:</b> Constant Current
<b>Current for each color per meter:</b> R/G/B/T/D 0.18A	<b>Max. Power per meter:</b> 21.6W
<b>Wavelength Colors:</b> R 620-625nm G 520-525nm B 460-465nm	<b>Power for each color per meter:</b> R/G/B/T/D 4.32W
<b>CRI:</b> 95+(Tungsten), 95+(Daylight)	<b>CCT Whites:</b> Tungsten 2800K(+/-100K)/Daylight 6500K(+/-200K)
<b>LED(IC) Type:</b> 5050 5-in-1 SMD with External IC UCS512G6	<b>TLCI:</b> 95+(Tungsten), 95+(Daylight)
<b>Lumen(@full) per Meter:</b> 1250	<b>View Angle:</b> 120°
<b>IC Qty./meter:</b> 10	<b>Pixels Qty./m:</b> 10
<b>Control Protocol:</b> DMX512(1990)	<b>Signal Transmission Speed:</b> 200Kbps -750Kbps
<b>Port refresh rate:</b> 250Hz 4KHz 8KHz 32KHz	<b>Default Port refresh rate :</b> 32KHz
<b>Grey Levels:</b> 65536(with gamma 2.2 correction)	<b>Bit Levels:</b> 16bit
<b>Cuttable or not:</b> Yes	<b>Cuttable Segment per meter:</b> 10
<b>LEDs per Cut Segment:</b> 7pcs	<b>IC per Cut Segment:</b> 1pcs
<b>Max. Length:</b> 45000mm(177.17in./14.76ft)(UL/CUL Standard)/5000(196.85in./16.4ft)(CE Standard)	
<b>Total LEDs per Roll:</b> 315pcs(UL/CUL Standard)/350pcs(CE Standard)	<b>Mini Cuttable Segment:</b> 100mm(3.94in.)
<b>Total IC per Roll:</b> 45(UL/CUL Standard)/50(CE Standard)	<b>PCB Width:</b> 12mm(0.47 in.)
<b>Copper Thickness:</b> 3oz(1oz+2oz)	<b>Strip overall Thickness:</b> 2.14mm(0.084 in.)
<b>LED Spacing:</b> 14.29mm(0.56in.) Center to Center	
<b>Connector:</b> 5 pin SM Connecting Wire(Female Input/Male Output for standard), Other connector available for choice	
<b>Mounting:</b> 3M 9080HL(Others optional)	<b>Weight:</b> 0.146kg(0.32lb) include lead wire without backadhesive
<b>Operation Temperature:</b> -20° C to +50° C	<b>LED Lifetime:</b> 50,000 Hrs

### Different LED available for choice

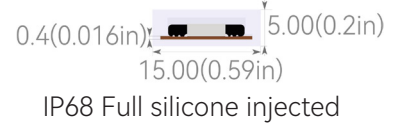
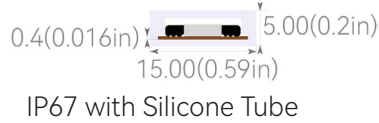


DIMENSION

24V

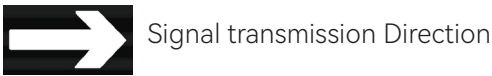
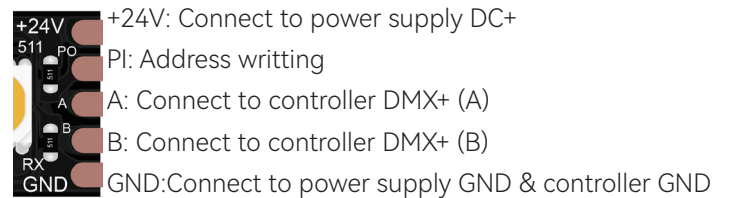
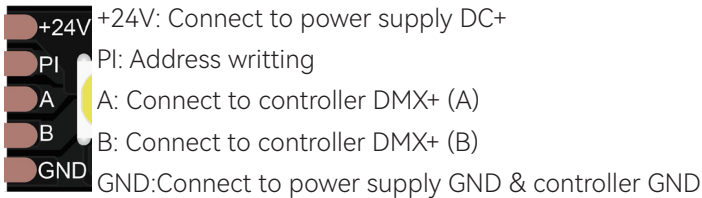


Dimension of different protection type



Installation and Wiring Diagram

Strip mark

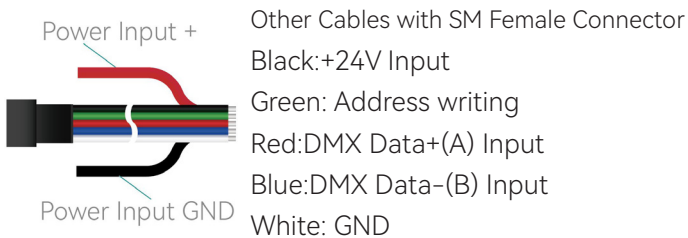


The wire A is for DMX+(A), B is for DMX+(B), PI is for address writing in, and PO is for address writing out. The arrow stands for the DMX signal transmission direction. Please pay attention to the direction while connection.

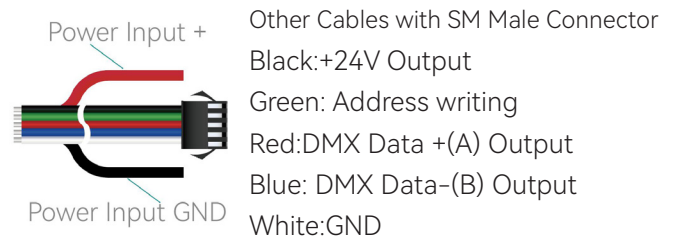
Cable with SM Connector

There are 7 wires in both Input and output side, 5PIN SM connector with 5 wire, (1 black, 1 green, 1 red, 1 blue and 1 white), with 1 red wire and 1 black wire additional. The 5PIN Female SM connector wire is for input end, and 5PIN male connector wire is for output end. The other 2 wire red and black cable are for supplementary power supply using. The wire function of different color is as below:

Input end

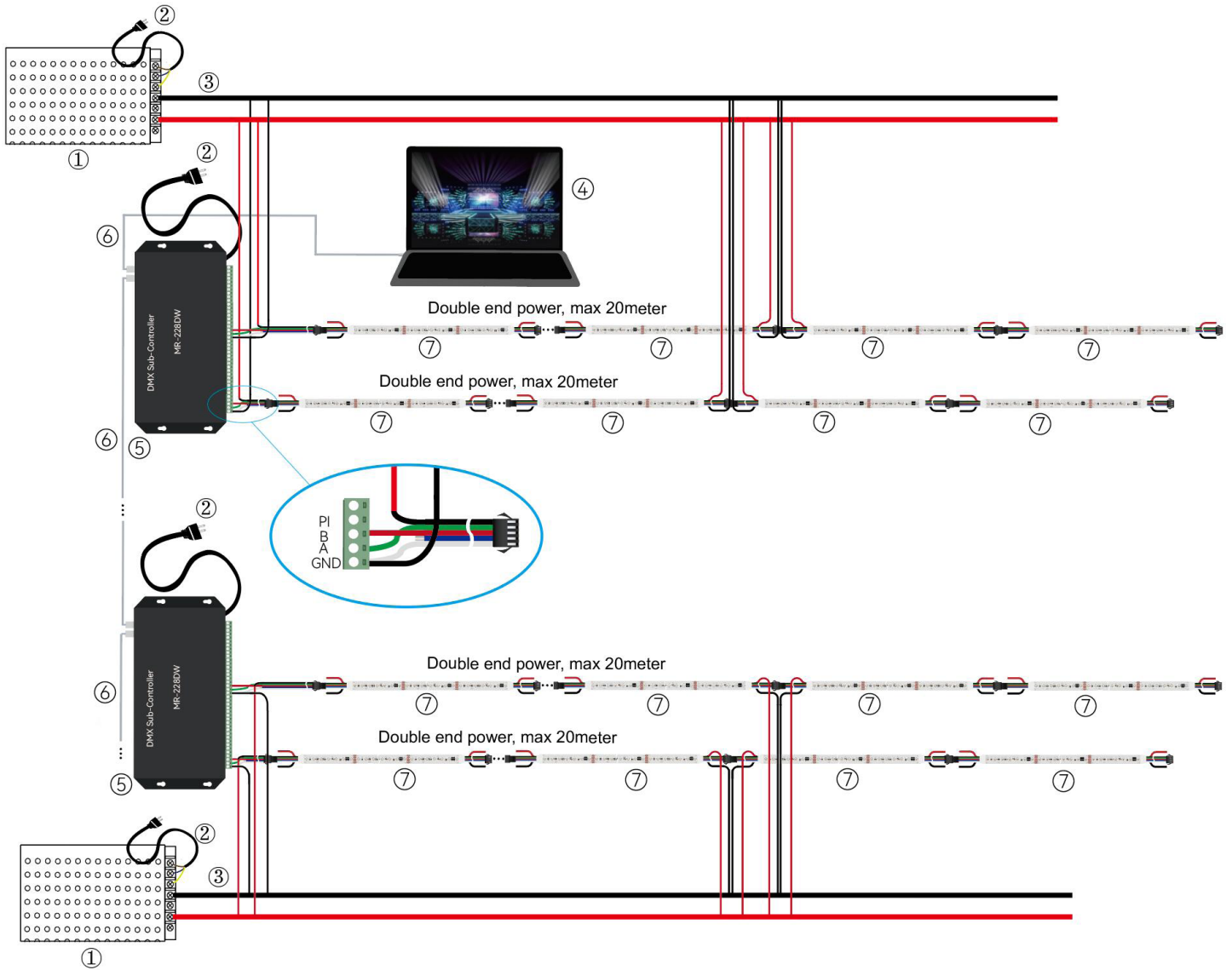


Output end



Wiring Diagram

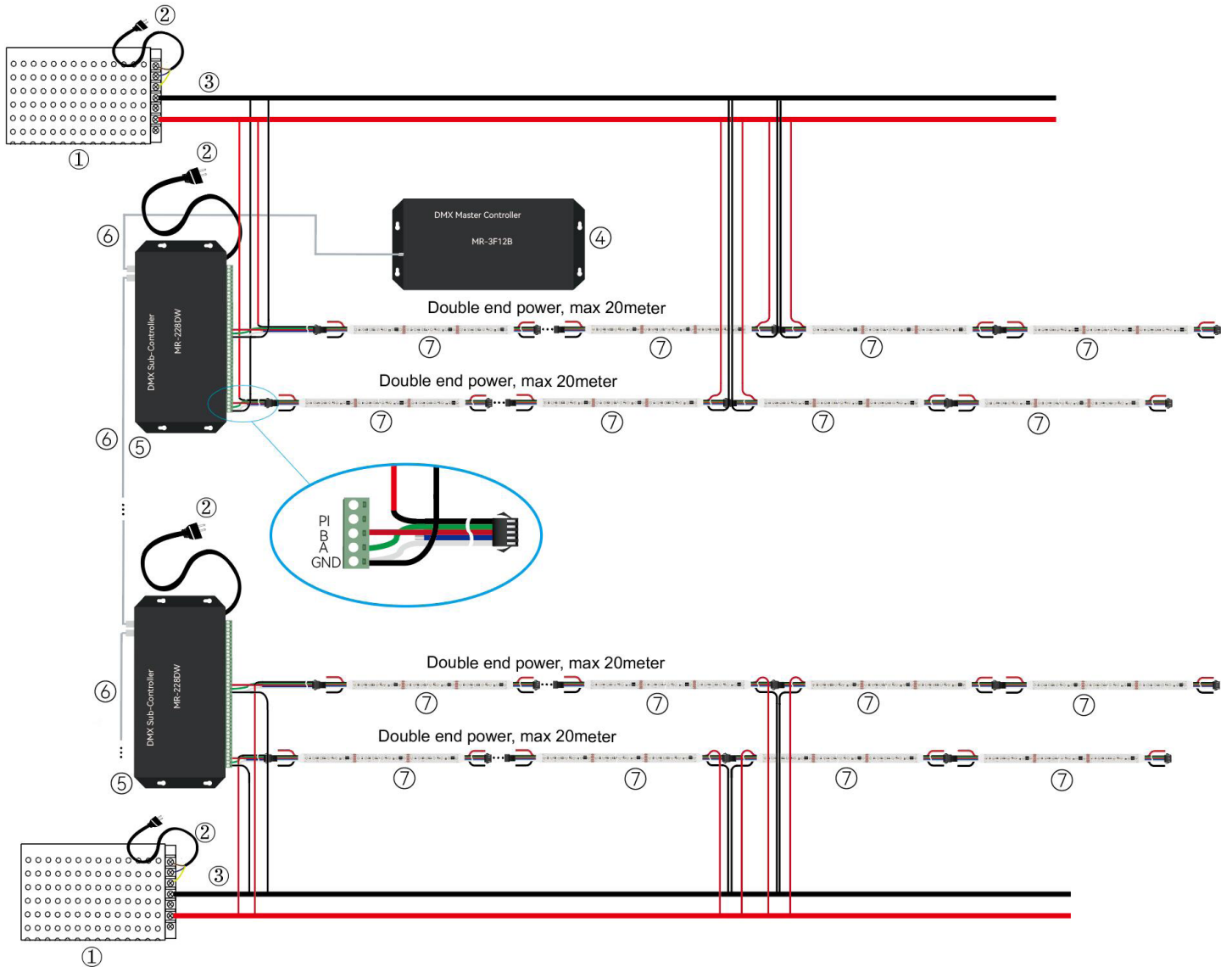
(1) Online mode(Connected with computer)



- ① Power Supply Input: AC110-230V Output:DC24V
- ② Power Cord, connected to AC110-230V
- ③ Output Wire(Red+,black-) DC24V
- ④ Computer
- ⑤ DMX Sub Controller
- ⑥ RJ45 DMX Signal Cable
- ⑦ DMX512 Flex Ribbon

- Note:**
1. The GND for DMX512 Flex Ribbon can be connected to the GND of Controller, also can connected directly to the DC24V power supply;
  2. Address wire can be connected to the controller, also can be not connected.

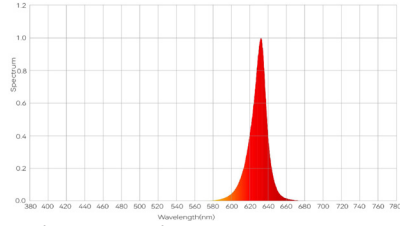
(2) Offline mode(Connected with DMX Master Controller)



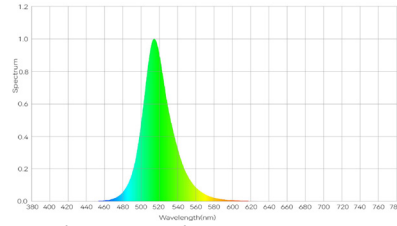
- ① Power Supply Input: AC110-230V Output:DC24V
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- ③ Output Wire(Red+,black-) DC24V
- ④ Computer
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- ⑥ RJ45 DMX Signal Cable
- ⑦ DMX512 Flex Ribbon

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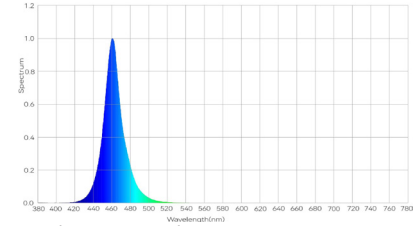
5050RGB COLOR SPECTRUM & WAVELENGTH



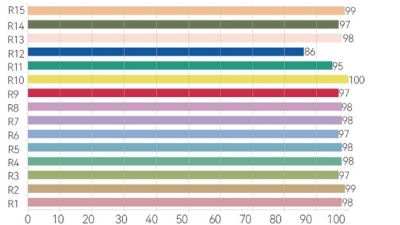
Red(WLD621.2nm) Spectrum & Wavelength



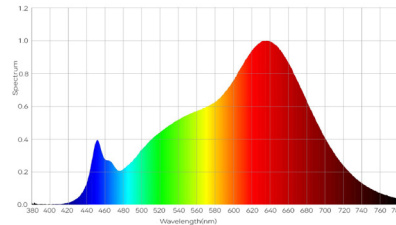
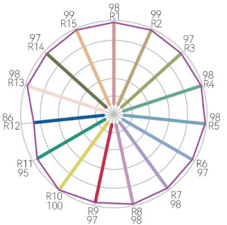
Green(WLD523.6nm) Spectrum & Wavelength



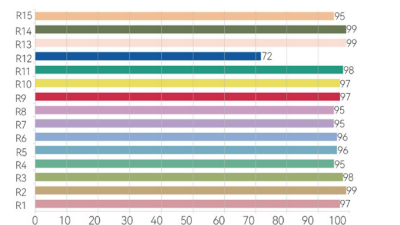
Blue(WLD466.0nm) Spectrum & Wavelength



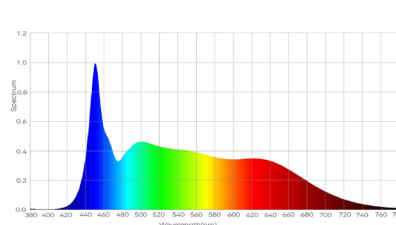
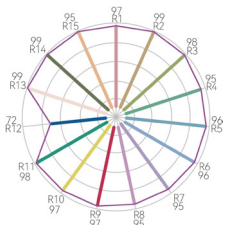
RGBT 5-in-1 Tungsten Color Rendering Index CCT 2795K Ra=97.9



RGBT 5-in-1 Tungsten Spectrum & Wavelength



RGBT 5-in-1 Daylight Color Rendering Index CCT 6479K Ra=96.2



RGBT 5-in-1 Daylight Spectrum & Wavelength

Accessories

Jumper Wire



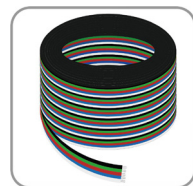
18AWG 2Pin Jumper Wire Black/Red in 15cm GLU-W2P-15

20AWG 2Pin Jumper Wire Black/Red in 15cm GLU-W2P-15



18AWG 2Pin Jumper Wire Black/Red in 100m GLU-W2P-10000

20AWG 2Pin Jumper Wire Black/Red in 100m GLU-W2P-10000



18AWG 5Pin Jumper Wire Black/Green/Red/Blue/White in 100m GLU-W5P-10000

20AWG 2Pin Jumper Wire Black/Green/Red/Blue/White in 100m GLU-W5P-10000

SM Connector wire



20AWG 5Pin SM Female connecting cable in 15cm GLU-W5P-15SMF

Other Length available for customized



20AWG 5Pin SM Male connecting cable in 15cm GLU-W5P-15SMM

Other Length available for customized

DMX Addresser

DMX Addresser DC6-24V 6144 Channel MR-WT33

DMX Master Controller

DMX Master Controller AC100V-240V, 450000 Channels MR-3F12B

Touch Video DMX Master Controller AC100V-240V, 450000 Channels: MR-CM12BK

Master/Sub Controller DC5V or DC12-24V 4 ports output K-4000CK

Master/Sub Controller DC5V or DC12-24V 8 ports output K-8000C

DMX Sub Controller

DMX Sub Controller AC100V-240V, 8 Port output MR-228DW

Power Supplier

Meanwell LRS Series LRS-350-12/24

Meanwell LRS Series HLG-240H-12/24A, HLG-320H-12/24A

Adaptor

Meanwell GTS Series GST280A12/24-C6P

Meanwell GTS Series GST360A12/24-C6P

More Accessories, please contact sales man for catalogue.

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