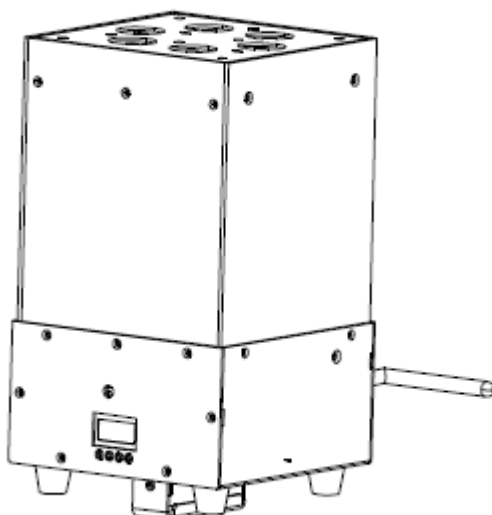




Manual



LED Accu Penta 9x12W

RGBWAU

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1. Safety instructions



- This device is suitable for indoor use (not outdoors) only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

1.1. FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /40°C.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

To avoid placing on un-stable location

Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug.

When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

Important: Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

1.2. Additional Information for safety



Excessive temperature

Ta=40°C

Please do not use the device if the temperature exceeds 40°C/104°F.



Drop safety

To avoid injuries carry the package only by twos. If you install the device the mounting bracket has the ability to carry the tenfold load of the weight of the device. Always use a corresponding safety to safe the device additional. While working at the device the place below has to be vacated



Beware of electrical shock

Make sure the electrical connection is carried out by qualified personnel. Before you plug in the device make sure that the power supply system has the right voltage and also a crowbar. Every device has to be grounded. Unplug the power supply if you want to change a lamp or you have to open the device. You also have to accomplish this action if there is a thunderstorm or high humidity.



Fire risk

Make sure that the fuse functioned. It is never allowed to bridge it. If you have to exchange it only use fuses of the same type.

It is not allowed cover fans and air in and outlets.

Make sure that there is a distance between the device and all objects in an area of 0.5m.

Don't put or mount anything on the lens.

The device has to cool down for 20 minutes before opening.

2. Introduction

2.1. Statement

Thank you for purchasing the **LED Accu Penta**. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misuse.

2.2. Product description

This product has a light body and fashion design. It uses high power 6-in-1 LED, which means each LED is made of R, G, B, A, W, V LED chips. Long life span, low power consumption, good color mixing effect and high brightness are the most prominent features. Each kind of LED can be independently dimmed. The built-in program includes dimming, strobe, gradual change, fading and so on. It uses lithium battery power supply, stable capability and easy to carry. International standard DMX 512 signal is requested.

2.3. Features

- High quality LED: low consumption, high brightness, stable capability and long life
- Each color of LED with 32-bit, 16666 grades dimming. 600Hz dimming frequency, take pictures without flicker
- DMX512 Controller, 4 button set DMX ID address with LCD display
- Dim 0%-100%, Strobe、 gradual change、 jumping change and etc
- DMX512 Controller, 2 layers LEDs, under layer: 3 pcs. LEDs, upper layer: 6 pcs. LEDs, could be controlled alone between layers
- Auto run/master slave/interconnected multi-machine control
- Optional: Wireless DMX control
- Electric quantity display
- Lithium battery power supply, stable capability and easy to carry
- IR remote control function
- Power charging indicator
- Output mode optional
- Lens degree: 25°、 45° optional
- Output Mode : H (100%), M (75%), S (50%)
- DMX Controller channel optional
- IP20

2.4. Charging and power instruction

When charging, CHARGE LED red. Full power LED green.

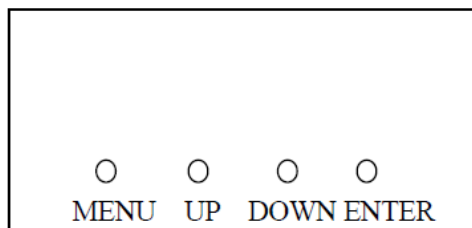
LCD display electric quantity, please off fixture and battery charging when display no power. It is not good at usage life of battery, please avoid to using fixture when charging. And avoid overcharge, charging time is about 4 hours. Total 5 bars for power display. One bar = 20% power.

3. Packaging

To every device belong the following accessories.

LED Accu Penta	1 pcs.
DMX signal cable	1 pcs.
Power-in cable	1 pcs.
User manual	1 pcs.

4. Description of the display section



- MENU :** Access the menu
- UP :** Menu selection or parameter increments
- DOWN :** Menu selection or parameters decrease
- ENTER :** Confirm the current menu option

4.1. Structure of the menu

Menu	Function set	Function description
Addr	001-512	Setting the DMX address
CHnd	6CH	DMX mode with 6 DMX channels
	11CH	DMX mode with 11 DMX channels
	15CH	DMX mode with 15 DMX channels
	18CH	DMX mode with 18 DMX channels
AUTO	00-64	Automatic programs
Speed	00-15	Adjusts the speed for the automatic programs. 00 = fast, 15 = slow
Fade	00-15	Adjusts the gradual changing speed 00 = fast, 15 = slow
Strobe	00-15	Adjusts the strobe speed 00 = fast, 15 = slow
Manual	RED 000-255	Dimmer red
	GREEN 000-255	Dimmer green
	BLUE 000-255	Dimmer blue
	AMBER 000-255	Dimmer amber
	WHITE 000-255	Dimmer white
	UV 000-255	Dimmer UV

Sound	...	Sound-to-Light
Dimmer	0-4	Adjusts the DMX dimmer mode
RF_ID	1-7	Wireless ID set
IR MODE		IR receive mode
OUTMOD	H	Output mode 100%
	M	Output mode 75%
	S	Output mode 50%

Press MENU to reach the first menu and use UP/DOWN to get to the submenu. To open the submenu you have to press ENTER, here you can reach other menu items with UP/DOWN, confirm with ENTER. Press MENU to store your settings.

5. DMX Chart

5.1.6 channel mode

Channel	Value from	Value to	Function
1	000	255	Dimmer red 0-100%
2	000	255	Dimmer green 0-100%
3	000	255	Dimmer blue 0-100%
4	000	255	Dimmer amber 0-100%
5	000	255	Dimmer white 0-100%
6	000	255	Dimmer UV 0-100%

5.2.11 channel mode

Channel	Value from	Value to	Function
1	000	255	Dimmer 0-100%
2	000	255	Dimmer red 0-100%
3	000	255	Dimmer green 0-100%
4	000	255	Dimmer blue 0-100%
5	000	255	Dimmer amber 0-100%
6	000	255	Dimmer white 0-100%
7	000	255	Dimmer UV 0-100%

8	000	010	Strobe off
	011	255	Strobe slow-fast
9	000	015	General dimming
	016	018	Red
	019	021	Green
	022	024	Blue
	025	027	Amber
	028	030	White
	031	033	UV
	034	036	Red + Green
	037	039	Red + Blue
	040	042	Red + Amber
	043	045	Red + White
	046	048	Red + UV
	049	051	Green + Blue
	052	054	Green + Amber
	055	057	Green + White
	058	060	Green + UV
	061	063	Blue + Amber
	064	066	Blue + White
	067	069	Blue + UV
	070	072	Amber + White
	073	075	Amber + UV
	076	078	White + UV
	079	081	Red + Green + Blue
	082	084	Red + Green + Amber
	085	087	Red + Green + White
	088	090	Red + Green + UV
	091	093	Red + Blue + Amber
094	096	Red + Blue + White	
097	099	Red + Blue + UV	

100	102	Red + Amber + White
103	105	Red + Amber + UV
106	108	Red + White + UV
109	111	Green + Blue + Amber
112	114	Green + Blue + White
115	117	Green + Blue + UV
118	120	Green + Amber + White
121	123	Green + Amber + UV
124	126	Green + white + UV
127	129	Blue + Amber + White
130	132	Blue +Amber + UV
133	135	Blue + White + UV
136	138	Amber + White + UV
139	141	Red + Green + Blue + Amber
142	144	Red + Green + Blue + White
145	147	Red + Green + Blue + UV
148	150	Red + Green + Amber + White
151	153	Red + Green + Amber + UV
154	156	Red + Green +White + UV
157	159	Red + Blue + Amber + White
160	162	Red + Blue + Amber + UV
163	165	Red + Blue + White + UV
166	168	Red + Amber + White + UV
169	171	Green + Blue + Amber + White
172	174	Green + Blue + Amber + UV
175	177	Green + Blue + White+ UV
178	180	Green + Amber + White UV
181	183	Blue + Amber + White + UV
184	186	Red + Green +Blue + Amber + White
187	189	Red + Green + Blue + Amber + UV
190	192	Red + Green + Blue + White + UV

	193	195	Red + Green + Amber + White + UV
	196	198	Red + Blue + Amber + White + UV
	199	201	Green + Blue + Amber + White + UV
	202	204	Red + Green + Blue + Amber + White + UV
	205	229	Auto run 1 slow-fast
	230	255	Auto run 2 slow-fast
10	000	015	No function
	016	255	Gradual changing mode slow-fast
11	000	005	Set by LED display Dimmer 0-4
	006	055	Dimmer 0
	056	105	Dimmer 1
	106	155	Dimmer 2
	156	205	Dimmer 3
	206	255	Dimmer 4

5.3.15 channel mode

Channel	Value from	Value to	Function
1	000	255	Dimmer Red 1
2	000	255	Dimmer Green 1
3	000	255	Dimmer Blue 1
4	000	255	Dimmer Amber 1
5	000	255	Dimmer White 1
6	000	255	Dimmer UV 1
7	000	255	Dimmer Red 2
8	000	255	Dimmer Green 2
9	000	255	Dimmer Blue 2
10	000	255	Dimmer Amber 2
11	000	255	Dimmer White 2
12	000	255	Dimmer UV 2
13	000	010	Strobe off (first layer)
	011	255	Strobe speed slow-fast (first layer)

14	000	010	Strobe off (second layer)
	011	255	Strobe speed slow-fast (second layer)
15	000	005	Set by LED display dimmer 0-4
	006	055	Dimmer 0
	056	105	Dimmer 1
	106	155	Dimmer 2
	156	205	Dimmer 3
	206	255	Dimmer 4

5.4. 18 channel mode

Channel	Value from	Value to	Function
1	000	255	Dimmer 0-100%
2	000	255	Dimmer Red 1
3	000	255	Dimmer Green 1
4	000	255	Dimmer Blue 1
5	000	255	Dimmer Amber 1
6	000	255	Dimmer White 1
7	000	255	Dimmer UV 1
8	000	255	Dimmer Red 2
9	000	255	Dimmer Green 2
10	000	255	Dimmer Blue 2
11	000	255	Dimmer Amber 2
12	000	255	Dimmer White 2
13	000	255	Dimmer UV 2
14	000	010	Strobe off (first layer)
	011	255	Strobe speed slow-fast (first layer)
15	000	010	Strobe off (second layer)
	011	255	Strobe speed slow-fast (second layer)
16	000	015	General dimming
	016	018	Red
	019	021	Green

022	024	Blue
025	027	Amber
028	030	White
031	033	UV
034	036	Red + Green
037	039	Red + Blue
040	042	Red + Amber
043	045	Red + White
046	048	Red + UV
049	051	Green + Blue
052	054	Green + Amber
055	057	Green + White
058	060	Green + UV
061	063	Blue + Amber
064	066	Blue + White
067	069	Blue + UV
070	072	Amber + White
073	075	Amber + UV
076	078	White + UV
079	081	Red + Green + Blue
082	084	Red + Green + Amber
085	087	Red + Green + White
088	090	Red + Green + UV
091	093	Red + Blue + Amber
094	096	Red + Blue + White
097	099	Red + Blue + UV
100	102	Red + Amber + White
103	105	Red + Amber + UV
106	108	Red + White + UV
109	111	Green + Blue + Amber
112	114	Green + Blue + White

115	117	Green + Blue + UV
118	120	Green + Amber + White
121	123	Green + Amber + UV
124	126	Green + white + UV
127	129	Blue + Amber + White
130	132	Blue +Amber + UV
133	135	Blue + White + UV
136	138	Amber + White + UV
139	141	Red + Green + Blue + Amber
142	144	Red + Green + Blue + White
145	147	Red + Green + Blue + UV
148	150	Red + Green + Amber + White
151	153	Red + Green + Amber + UV
154	156	Red + Green +White + UV
157	159	Red + Blue + Amber + White
160	162	Red + Blue + Amber + UV
163	165	Red + Blue + White + UV
166	168	Red + Amber + White + UV
169	171	Green + Blue + Amber + White
172	174	Green + Blue + Amber + UV
175	177	Green + Blue + White+ UV
178	180	Green + Amber + White UV
181	183	Blue + Amber + White + UV
184	186	Red + Green +Blue + Amber + White
187	189	Red + Green + Blue + Amber + UV
190	192	Red + Green + Blue + White + UV
193	195	Red + Green + Amber + White + UV
196	198	Red + Blue + Amber + White + UV
199	201	Green + Blue + Amber + White + UV
202	204	Red + Green + Blue + Amber + White + UV
205	229	Auto run 1 slow-fast
















	230	255	Auto run 2 slow-fast
17	000	015	No function
	016	255	Gradual changing mode slow-fast
18	000	005	Set by LED display Dimmer 0-4
	006	055	Dimmer 0
	056	105	Dimmer 1
	106	155	Dimmer 2
	156	205	Dimmer 3
	206	255	Dimmer 4










6. IR remote control

6.1. Description

If you want to use the IR remote the device must be set for IR remote control.



	<p>Press the button; fixture off, ready mode</p>
	<p>Press the button, auto run mode, and pre SPEED could adjust the auto run speed</p>
	<p>Press the button, sound activated</p>
	<p>Press the button, strobe mode, and press SPEED could adjust the strobe speed</p>
	<p>Press the button, built in program mode, could adjust built in program pattern</p>
	<p>Press the button, DMX control mode</p>
	<p>Press the button, adjust auto run speed and strobe speed</p>
	<p>Press the button, slave mode</p>
	<p>Press the button, set DMX address code, press "+" and "-" to adjust, press ENTER to store; then press "D", DMX receiving mode, could receive DMX signal</p>
	<p>Press the button, could change DMX address and manual dimming value</p>
	<p>Press the button, start LCD backlight, auto off 20 seconds later</p>
	<p>Press the button, could change DMX address and manual dimming value</p>
	<p>Press the button and "+" "-", could adjust red intensity (1-6 color effect could mixing, user defined)</p>
	<p>Press the button and "+" "-", could adjust green intensity (1-6 color effect could mixing, user defined)</p>
	<p>Press the button and "+" "-", could adjust blue intensity (1-6 color effect could mixing, user defined)</p>

	defined)
	Press the button and “+” “-“, could adjust Amber intensity (1-6 color effect could mixing, user defined)
	Press the button and “+” “-“, could adjust white intensity (1-6 color effect could mixing, user defined)
	Press the button and “+” “-“, could adjust UV intensity (1-6 color effect could mixing, user defined)
	Press the button, full bright mode
	Press the button, Red + Blue
	Press the button, Green + Blue
	Press the button to “IR MODE”
	Press the button to UV
	Press the button for store

6.2. Master/Slave

Master setting: The master should be one of following modes: built-in modes, color jumping Mode, fade mode, white strobe mode and auto dimming mode. It sends out synchronizing signal. To avoid the master signal and DMX512 signal from interfering with each other, we should cut off the DMX512 signal. When the signal cables are longer than 60 meters, a DMX signal amplifier is necessary.

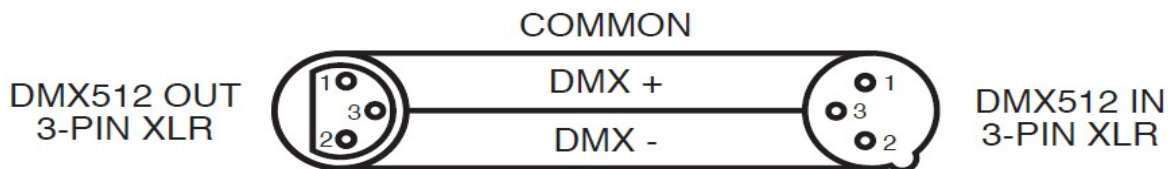
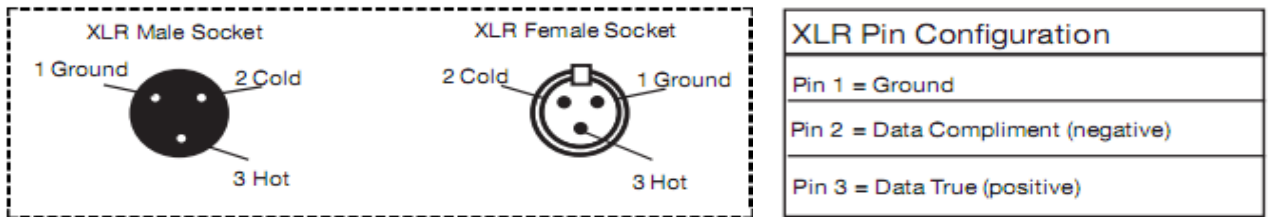
Slave setting : It must be in DMX mode, address code is 001 and CHnd is 15Ch to assure receiving the master’s signals correctly. Only one light can be set as a Master and others are slaves.

7. Connecting

7.1. XLR cable

The standard way of connecting the XLR is: one end connects to the male plug, and the other end connects to the female. As below:

- Pin 1 = ground
- Pin 2 = negative signal
- Pin 3 = positive signal



Noted : In order to avoid failures and interference signal transmission , we connect a resistance 120Ω (1/4W) at the end of the DMX connecting as below:



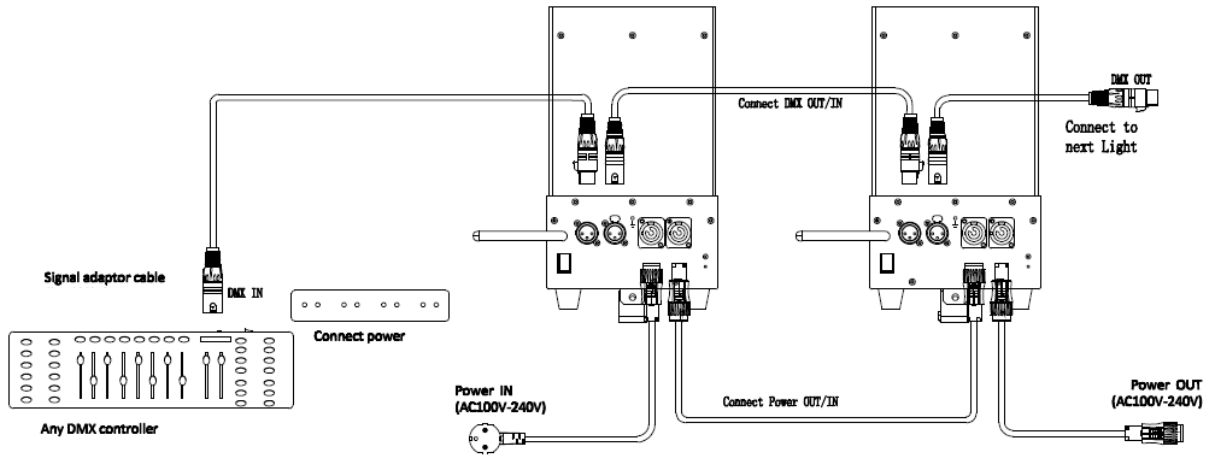
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

7.2. The Conversion between 3 pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

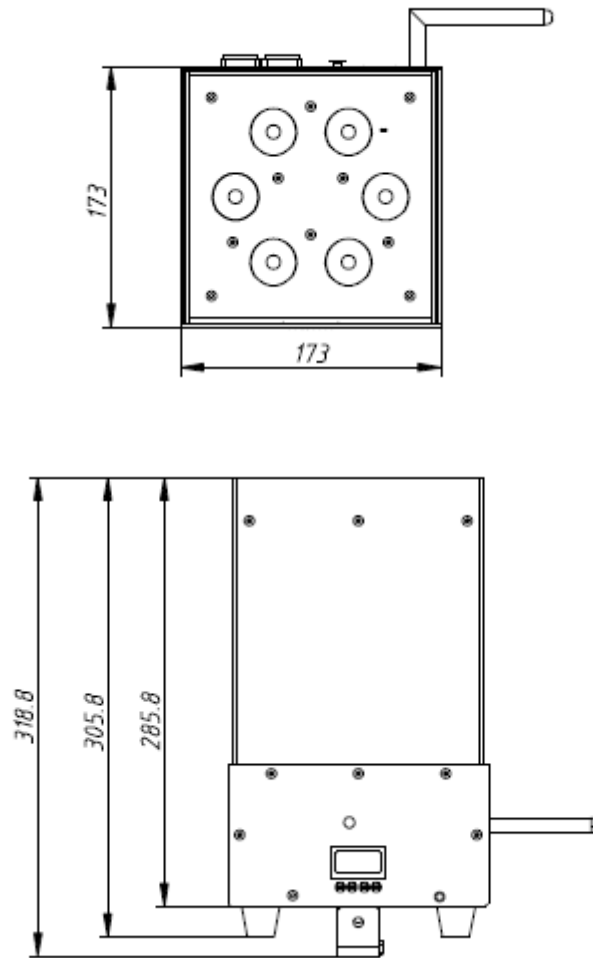
7.3. Example



8. Trouble shooting

Problem	Checking Way
Cannot turn the light on.	Check if the power source plug is in normal or not.
	Check if the switch of the lights is off or on.
	Check if the fuse if in normal.
DMX cannot control it.	Check if the DMX cable is connected to the lights or not.
	Check if the DMX512 controller works normal or not.
	Check if the DMX cable is normal or not.
	Check if the lights are in DMX mode (e.g. A001).
Display not bright.	When connect to the electricity, did the LED flash one time? If so, the power source is normal. If not, please contact your supplier.
LED not light.	When connect to the electricity, did the LED flash one time? If so, the power source is normal. If not, please contact your supplier
Some of the LED not light.	Please contact your supplier.
Single color LEDs always bright/not bright.	Please contact your supplier.

9. Measurements



10. Technical Data

Recharger output voltage	DC 29.4V 2A
Recharge time	Ca. 4 hours
Input voltage	AC 100-240V; 50-60Hz
Power	108W
Lamp Type	LED 12W
Lamp Spec	6in1 LED (9 pcs.)
Life span	50000-100000 hours
Constant current driver	400mA
Running hours	Full brightness: +/- 3 hours Color jumping: +/- 5 hours Gradual change: +/- 10 hours
PWM Dimmer	600Hz
Anti-electricity intension	1.5KV
Insulation Resistance	>2 MΩ
Control Signal	Wire Optional: wireless DMX512 Auto run IR remote
Control mode	Stand alone Master/Slave
DMX channels	6 channels 11 channels 15 channels 18 channels
Beam angle	25° Optional: 45°
Protection class	IP20
Measurements (LxWxH)	173x173x318.8mm
Weight	5kg

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