




## Double Protection LED Point Light Source



<b>Product Description</b>	This point light is small, delicate, ultra thin and transparent. It can be used indoor, outdoor and underwater 20m, also it can be used to draw the contour of buildings, fixed inside the lamps as light source in led advertising display and indoor decoration.	CE FC SASO
		20m    $t_a 55^{\circ}\text{C}$
		<b>IP68 Class 4 (Anti-UV)</b> <b>V-0 (Fire Retardant Grade)</b>

### PRODUCT SPECIFICATION

• <b>Model:</b> OUGE-DGY-30
• <b>Color Range:</b> 16.7 million additive RGB colors
• <b>Color Resolution:</b> 3X16bit
• <b>Beam Angle:</b> 110°
• <b>Lumen:</b> 14 lm
• <b>Efficacy:</b> 19 lm/w
• <b>LED Pitch:</b> 120mm min ( can be customized )
• <b>Housing Material:</b> modified PVC
• <b>Pixel Connection:</b> 40pcs/string
• <b>Size:</b> $\Phi 30\text{mm} \times 11.7\text{mm}$
• <b>Weight:</b> 18g / ( pixel ) ; 900g ( LED controller )
• <b>Safety Approval:</b> CE ; FCC ; SASO
• <b>Operating Temperature:</b> -20 to +55 / -4°F to +131°F
• <b>Storage Temperature:</b> -40 to +80 / -40°F to +176°F
• <b>Environment:</b> outdoor (dry / damp / wet location / underwater / coastal environments)

### ELECTRICAL SPECIFICATION

• <b>Operating Voltage:</b> DC 12V
• <b>Power Consumption:</b> 0.8W

## SYSTEM SPECIFICATION

- **Control:** DMX512 Control
- **Power Supply:** DC12V/ 350W
- **Addressing Options:** addressing required

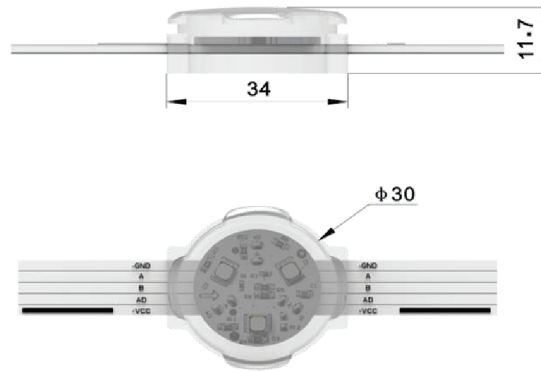
## NOTES WHEN INSTALLATION

- This lights can only be installed by professional staff, and it is forbidden to install the lights with electric.
- The location around the lights should not be corrosive, explosive, flammable materials or dust. Strong shock and impact should be forbidden.
- The lights can only use the rated voltage indicated on lights, or it will make the lights eternal damage.
- Lights should be handled with care; the installation location must be strong and firm, while the installation must be firm, too.
- The cable must be connected firmly, and the connection quantity cannot exceed the cable load capacity.
- The lights can only be connected by the cable definition, or the light damage will occur.
- For the safety consideration, if the exterior cover of the wire or the cable is destroyed, it must be replaced by the same type of cable and must be changed by professional staff.
- Avoid destroying the power supply, if there used many power supplies, the power supply cannot be parallel connection.
- While you do the lamps installation, you need keep 2mm at least between the lamps; and while you do aluminum channel installation, you need keep 2mm at least between the channels; while you install the light source directly, you need keep 2mm at least between the light source.

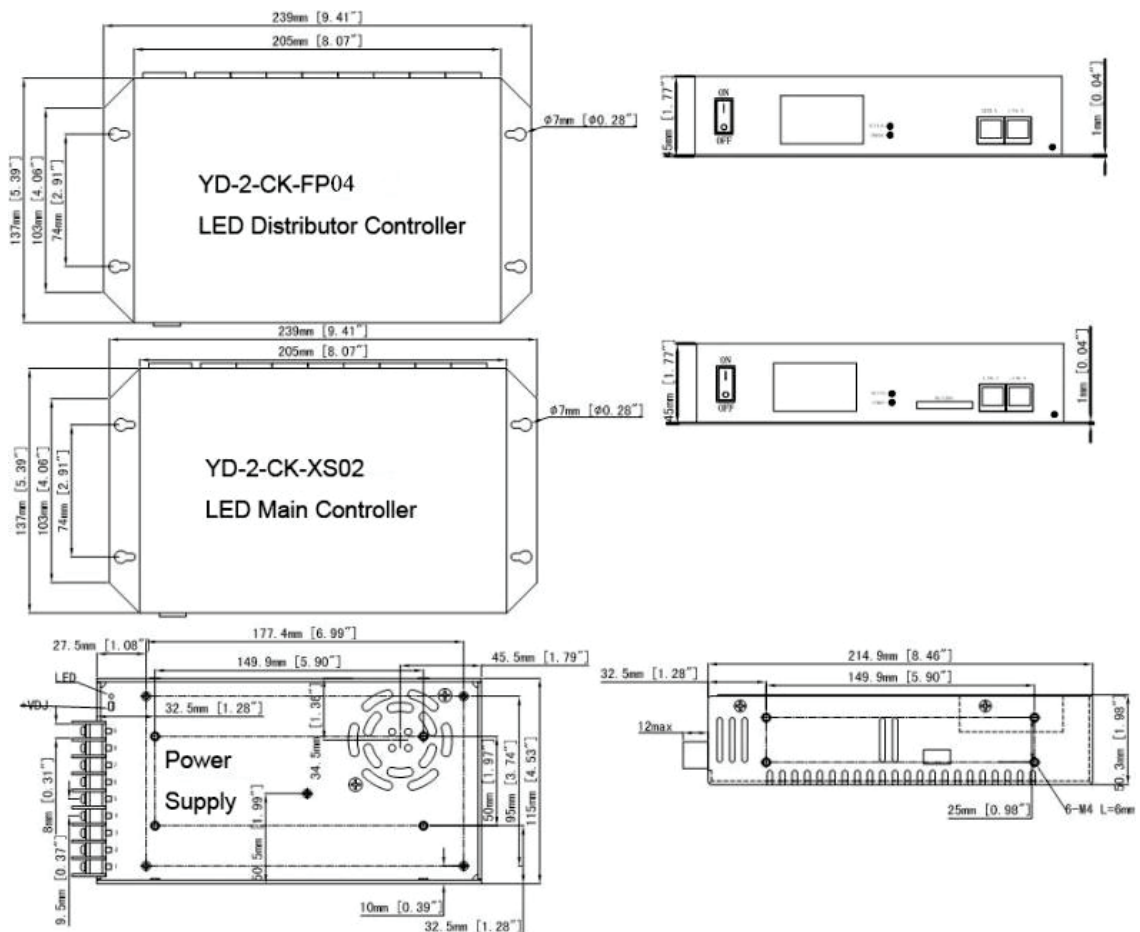
## Double Protection LED Point Light Source

Size

### Light Drawing



### Controller and Power Supply Drawing



## Double Protection LED Point Light Source

Efficacy

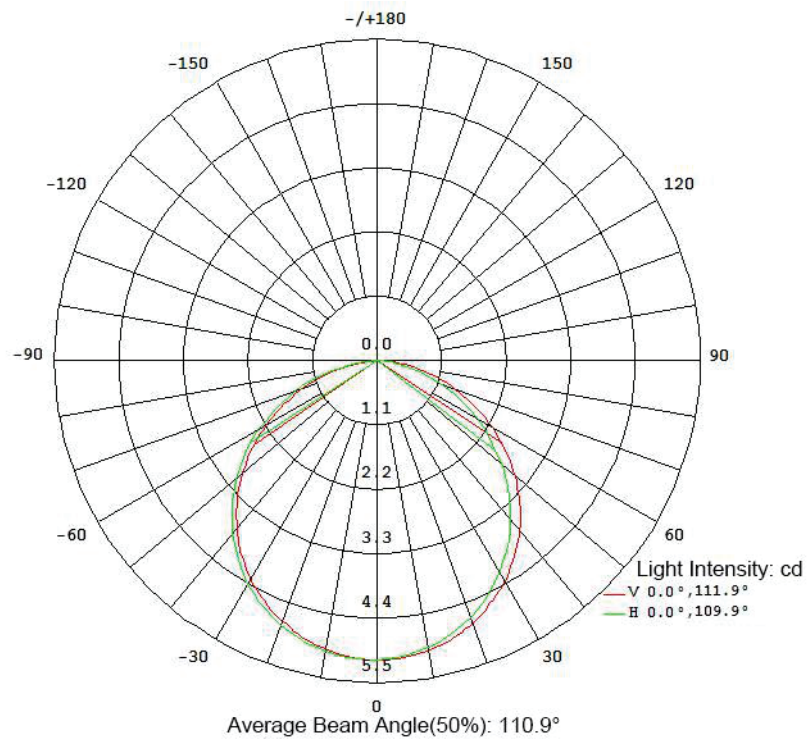
### Light Specification

·LED Type: 3 in 1 RGB

·Beam Angle: 110°

·Encapsulation Material: modified PVC

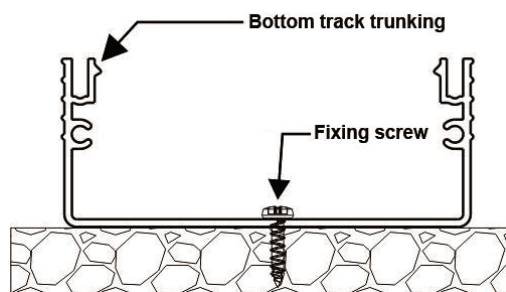
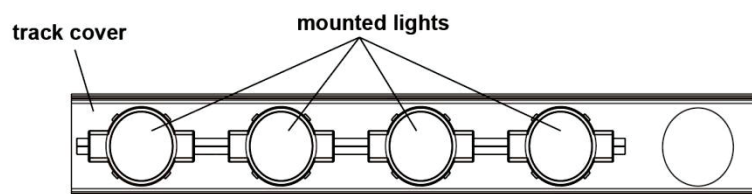
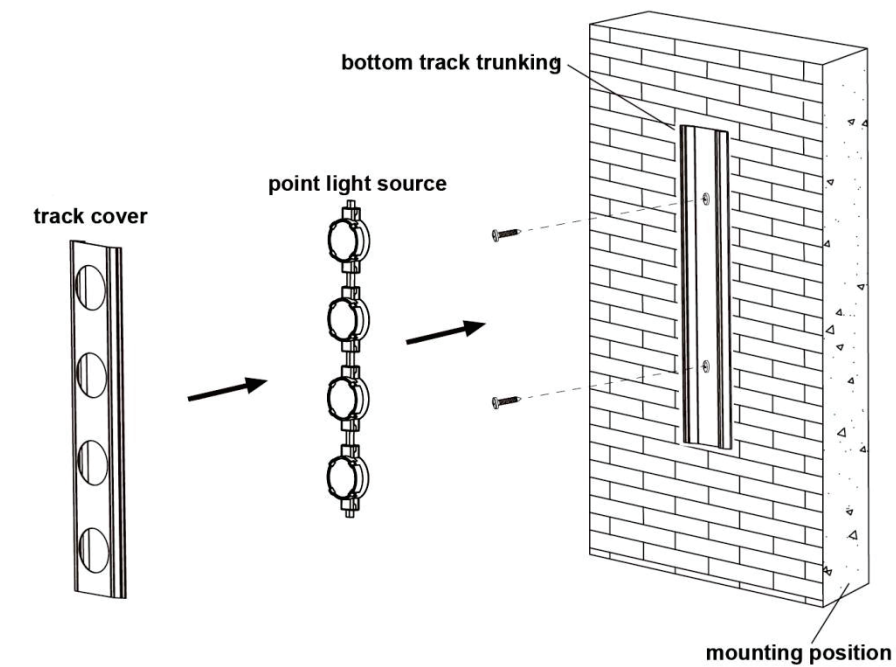
### Luminosity Distribution



## Double Protection LED Point Light Source

Mounting

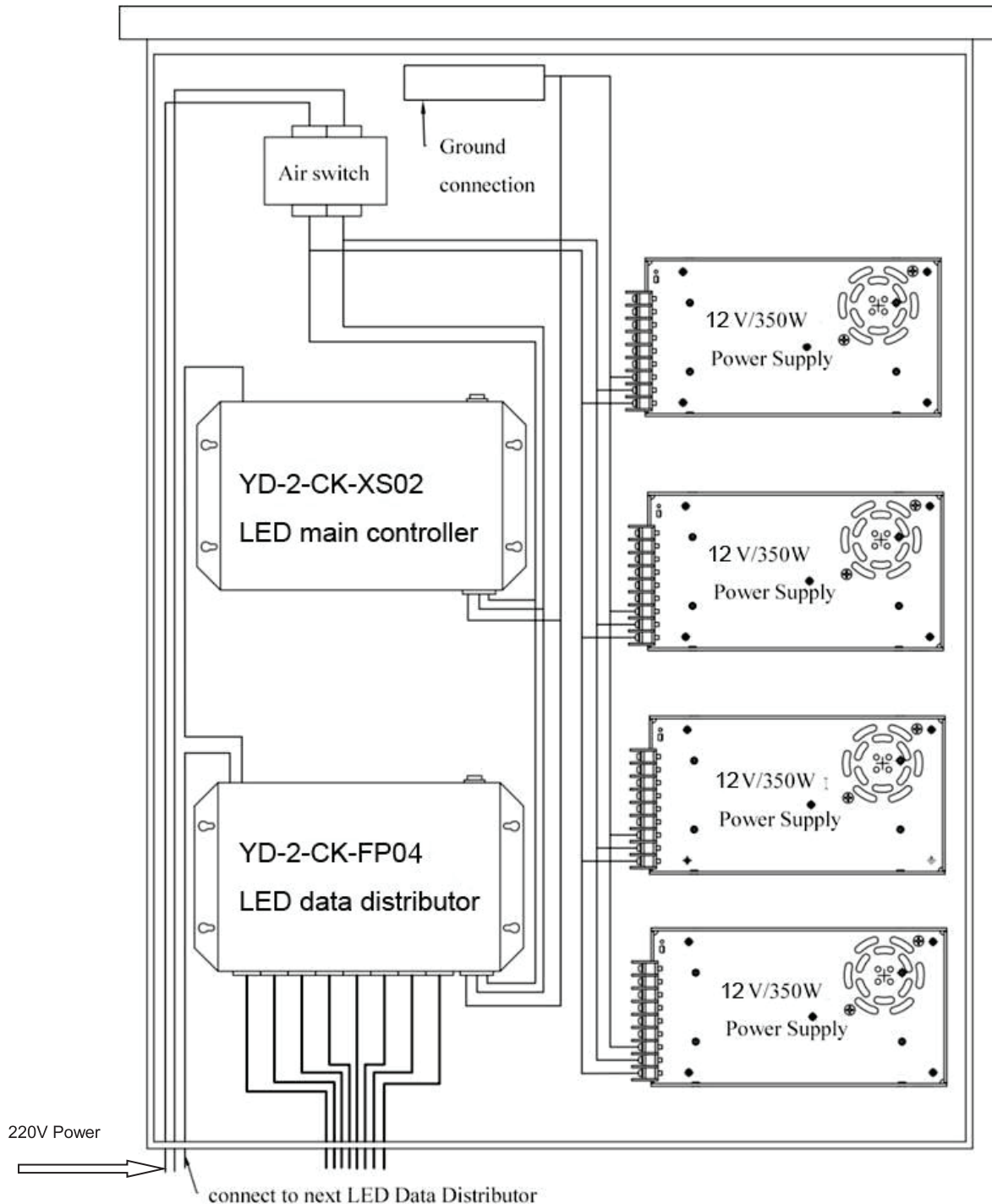
### Mounting



## Double Protection LED Point Light Source

## System Diagram

### Controller and Power supply Installation



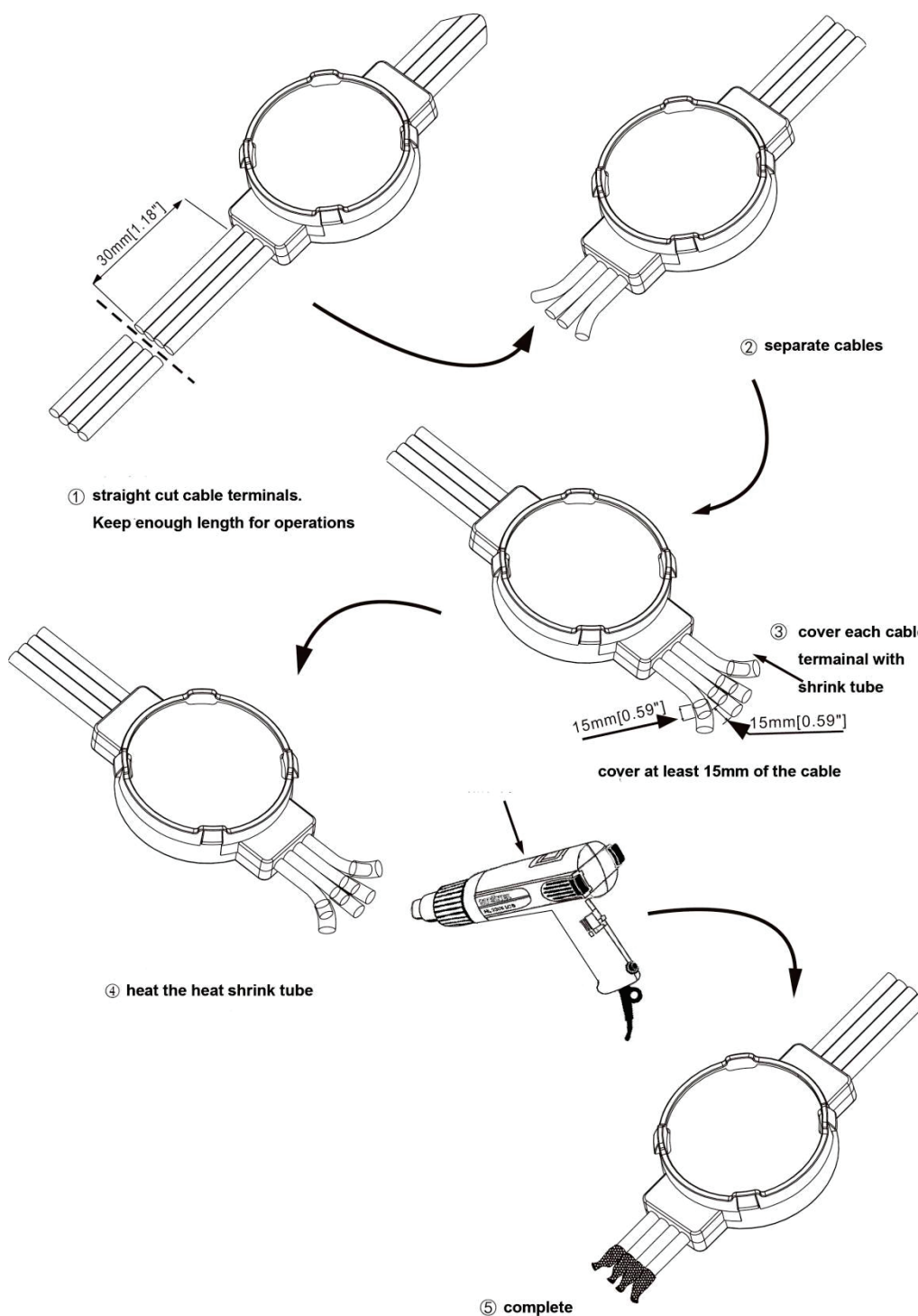
Connect 220V to air switch, through the air switch, provide the power to power supply and LED controller.

The YD-2-CK-XS02 LED controller is main controller, YD-2-CK-FP04 LED controller is distributor, every distributor need to cascade connection by network cable, as shown in the picture.

## Double Protection LED Point Light Source

Waterproof treatment

### Waterproof treatment to cable terminals

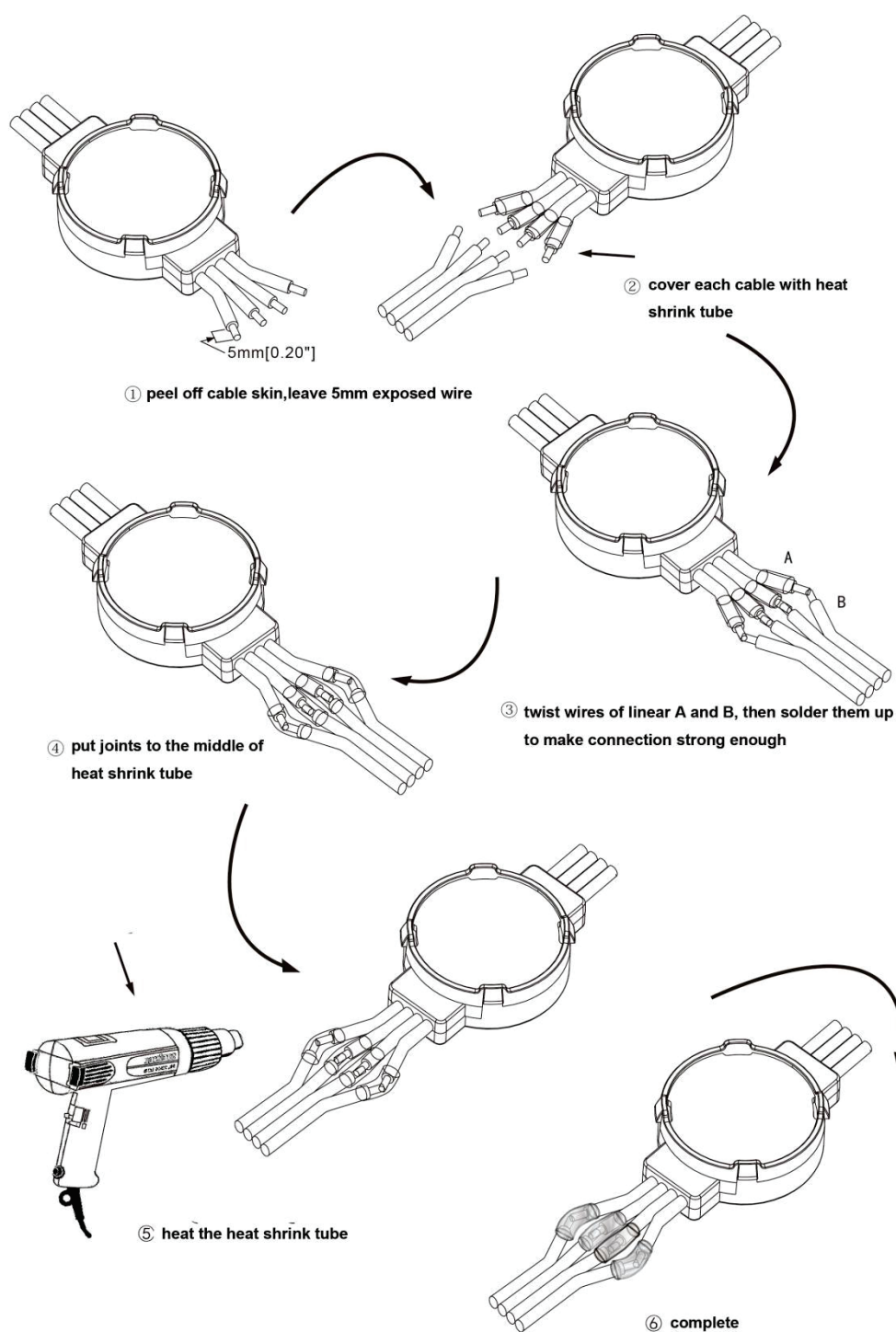




## Double Protection LED Point Light Source

Waterproof treatment

### Connection between pixels

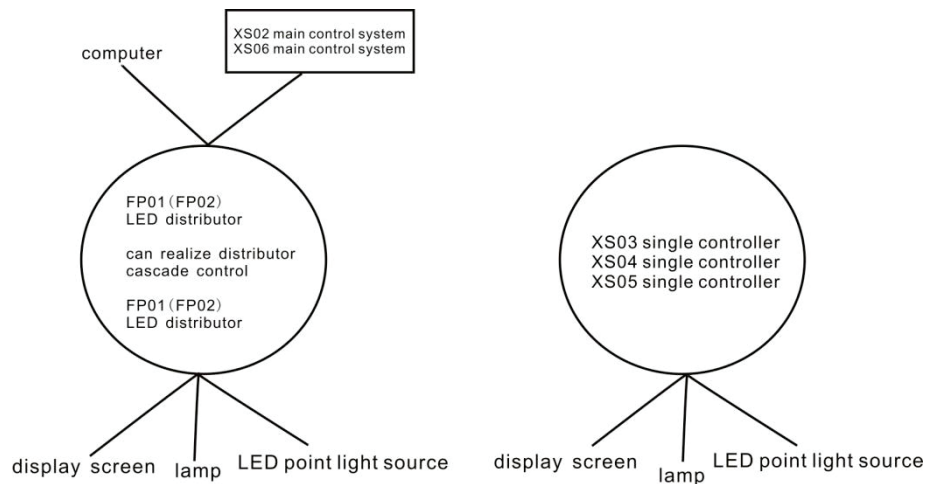




## Double Protection LED Point Light Source

Control system

### II Type LED Control System

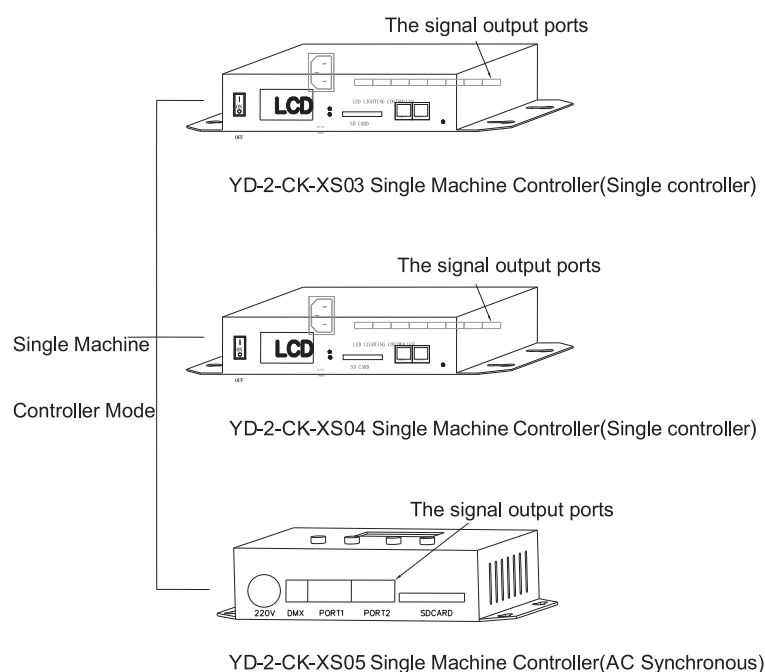


### II Type LED Control System, it has 3 kinds of Control Modes: Single Machine Controller Mode; Offline Mode

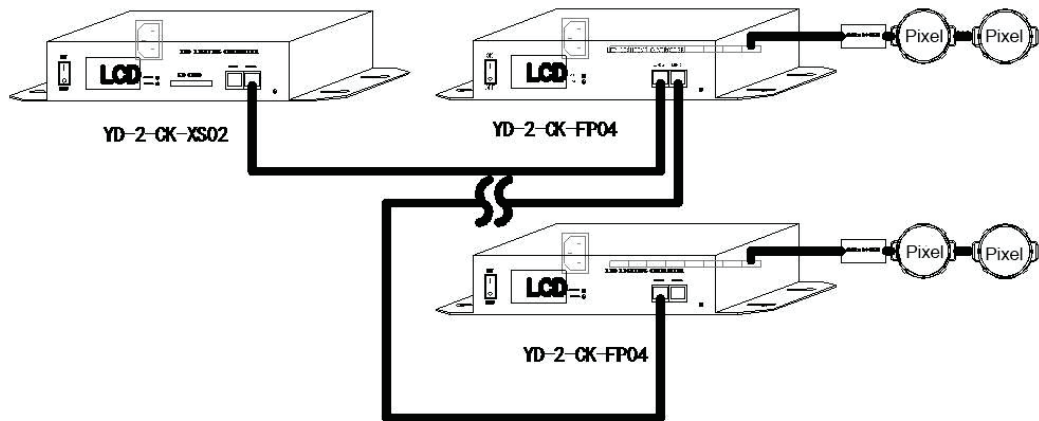
#### A. Single Machine Controller Mode Instruction :

YD-2-CK-XS03、YD-2-CK-XS04 are single machine controllers, can be used with single one.

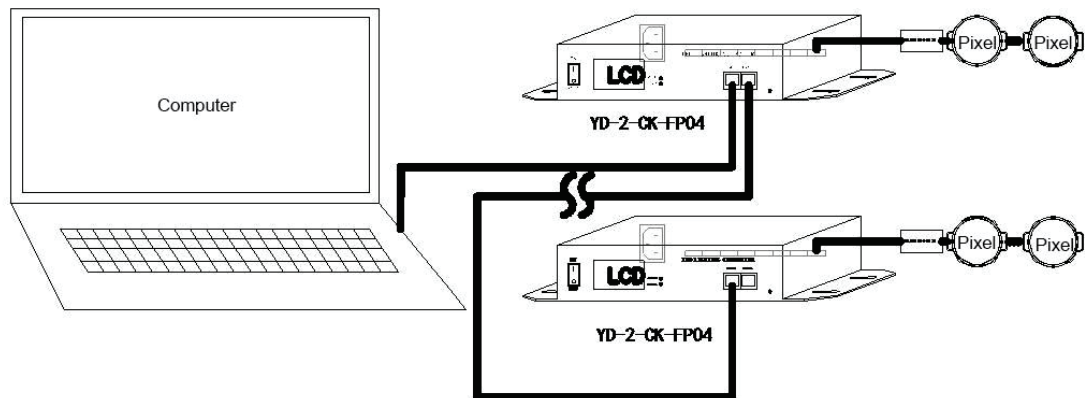
YD-2-CK-XS05 Single Machine Controller can be used many single ones together ,can realize the AC Synchronous function when electrify them at the same time



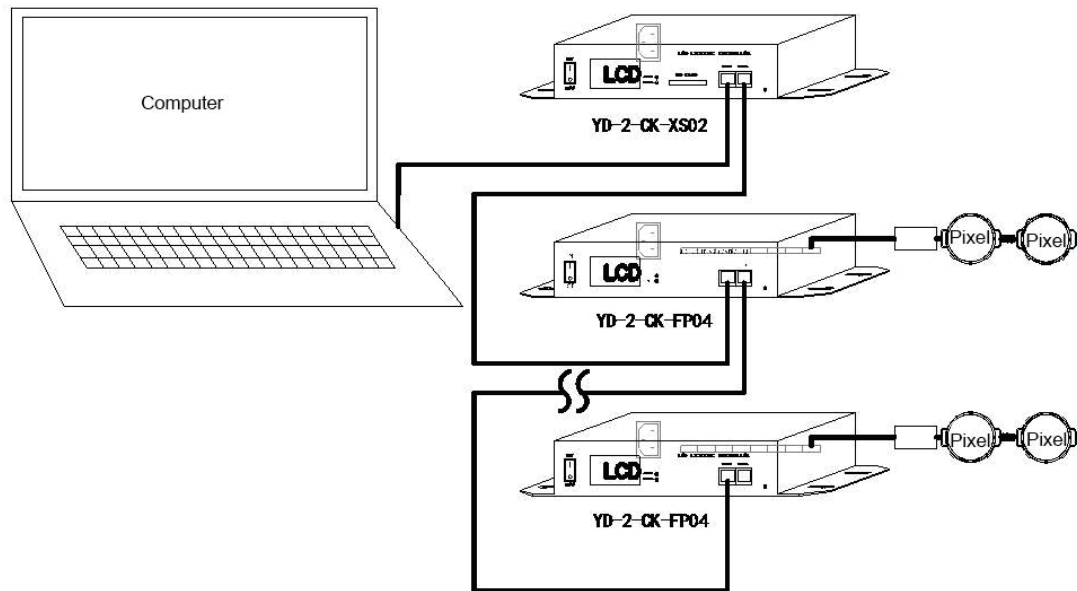
B. Offline Control mode: Offline control mode can load at most 150,000 pixels, each distributor controller has 8 ports, each port can load at most 170pixels.



C. Online Control mode: Offline control mode can load at most 150,000 pixels, each distributor controller has 8 ports, each port can load at most 170pixels.



D. Online + Offline Control mode: Connect Offline main controller with computer( under this condition, computer and offline main controller do not work at the same time. Whether computer work or offline main controller work)



E. Large-scale project switch control: switch cascade connection can load millions of pixels, the proposed switch model is TP-LINK TL-SL2428.

