RIGID BAR
YD2-Y

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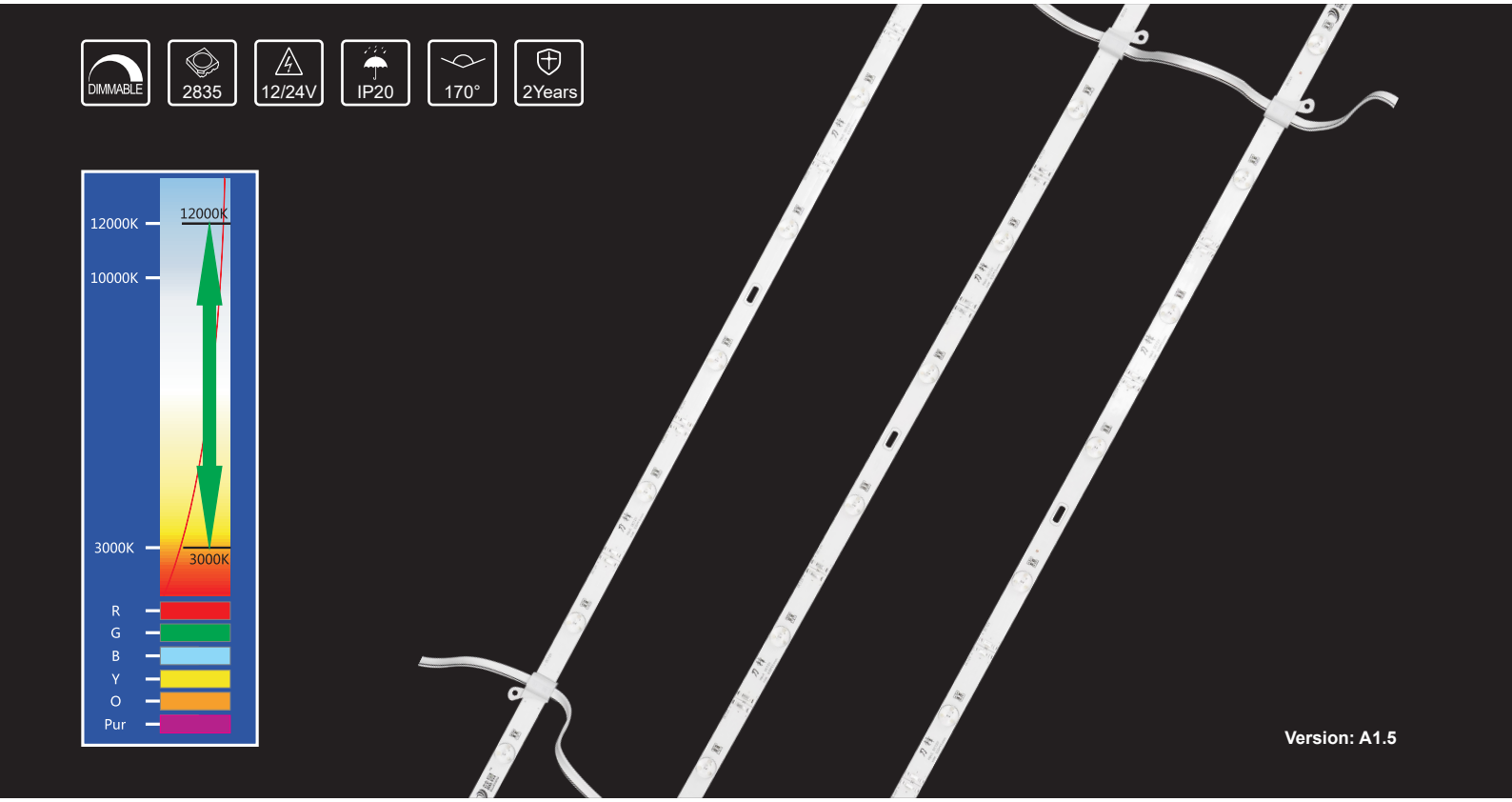

Features

- low light decay, high lumen efficiency, single LED cuttable
- Cost-effective product, suitable for circulation market
- Adopt special secondary optic lens
- Curtain style, exclusive mounting clips
- Aluminum PCB for direct and quick heat dissipation
- Cutting mark available, it can be cut at random
- Multiple spec options, can be customized upon requirements
- Support PWM, 0-10V, DALI and DMX dimming

Application

- Suitable for min. 6Cm deep light box, signage lighting

Installation

- Fixed by screw

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Optical & Electrical Parameters

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
YD2-Y-4305	W	3000-12000	170°	432	80+	90	12V	4.8
YD2-Y-9310				864			12/24V	9.6
YD2-Y-9312(high density)				1036			12/24V	11.52
YD2-Y-1212				1036			12/24V	11.52

Other Parameters

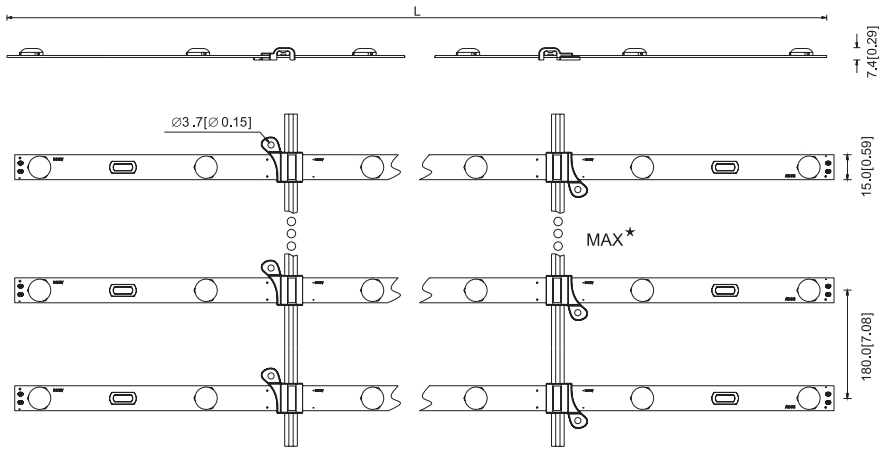
Model No.	LED Quantity/pc	Product Size L*W*H(mm)	Standard Run(pcs)	Max Run(pcs)	Working Temperature	Storage Temperature
YD2-Y-4305	5	430*15*7.4	10	15	-20~+60℃	-20~+70℃
YD2-Y-9310	10	930*15*7.4	10	13		
YD2-Y-9312(high density)	12	930*15*7.4	10	12		
YD2-Y-1212	12	1130*15*7.4	8	10		

Notes:

1.Testing temperature: 25±2°C
2.The above data are typical values. The actual data of each single product may differ from the typical values.The data is subject to change without notice.
3.Luminous flux is tested when lighting on single color.
4.Different color temperature will make luminous flux different
5.Luminous flux & power tolerance within ±10%
6.Max run is in double feeded.

Profile Drawings

Unit:mm[inch]



Notes:

MAX* means max run quantity.
Dimension tolerance: length ±1mm; width ±0.2mm; height ±0.2mm.
For detailed drawing, please consult sales rep.

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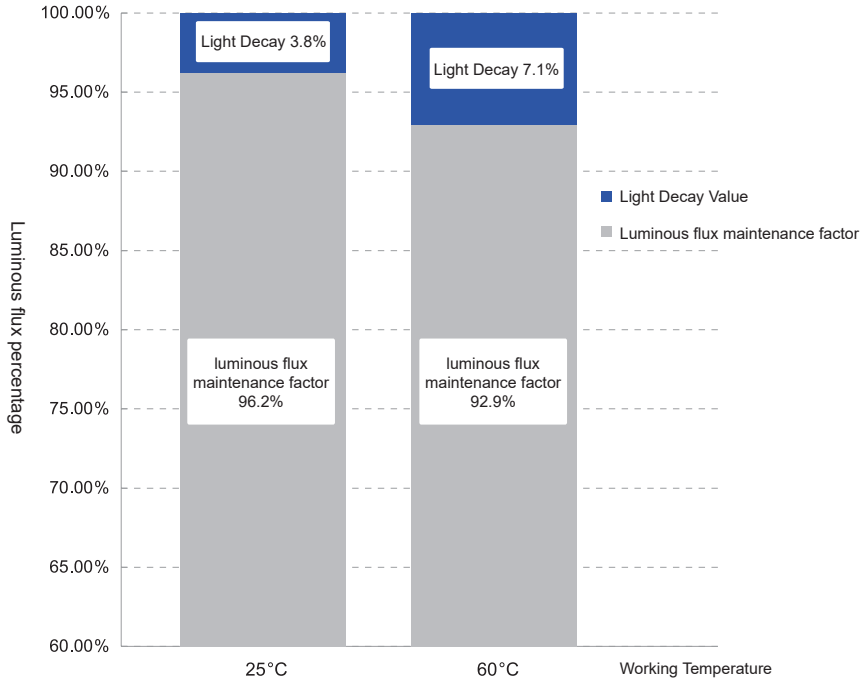
Working temperature VS light decay



Lens anti-drop ability

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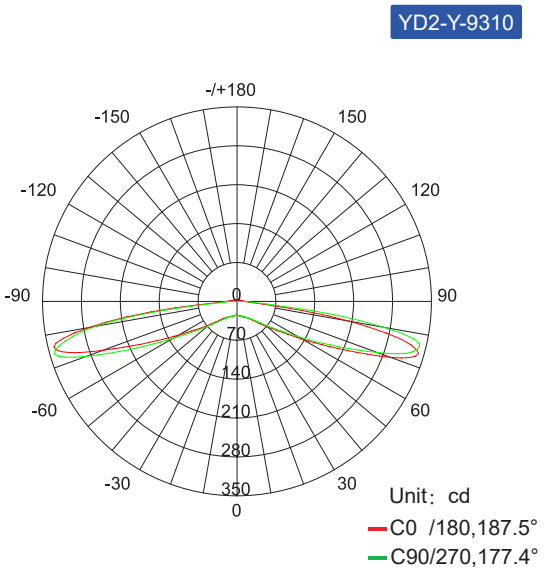
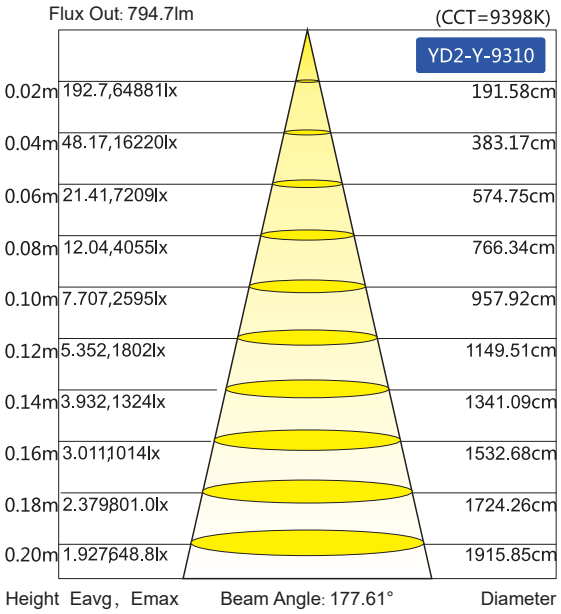
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%): 182.4°

AVERAGE ILLUMINATION



Note: The above two figures are tested with the sample YD2-Y-9310, for other data, please consult sales rep.

Reliability Test

Test Sort	Test item	Reference Standard	Test condition	Test result
Environmental test	PTC test	Blueview Product Warranty Policy	TH=-40~60°C, continuous cycle, every 2 hours per times (normal temperature for 15 mitunes, temperature rise and fall for 45 mitunes)	Pass
	High Temperature Tesistance Test		TH=60/80°C, continuous lightened up	
	Anti-UV Performance Test		TH=60°C,UVB:280~315nm	
	Long-term Indoor Aging Test		TH=25°C, continuous lightened up	
light decay test	Luminous flux maitenance test		TH=60°C ,TH=25°C	
Thrust test	Thrust test		Fix the rigid bar, using thrust meter to push optic lens in vertical direction of rigid bar, make record the value when the lens drops out	

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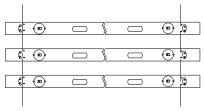
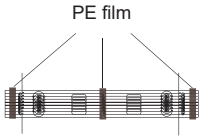
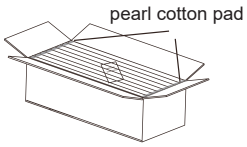
Packing



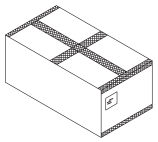
Put products on the table.



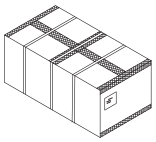
Overlap two strings light bars facing each other, wrap them with PE film, and attach labels;



Place pearl cotton pads on both sides of the carton box, and then put products in;



Seal and label the box.



Use packing belt to pack. Add edge protectors if necessary

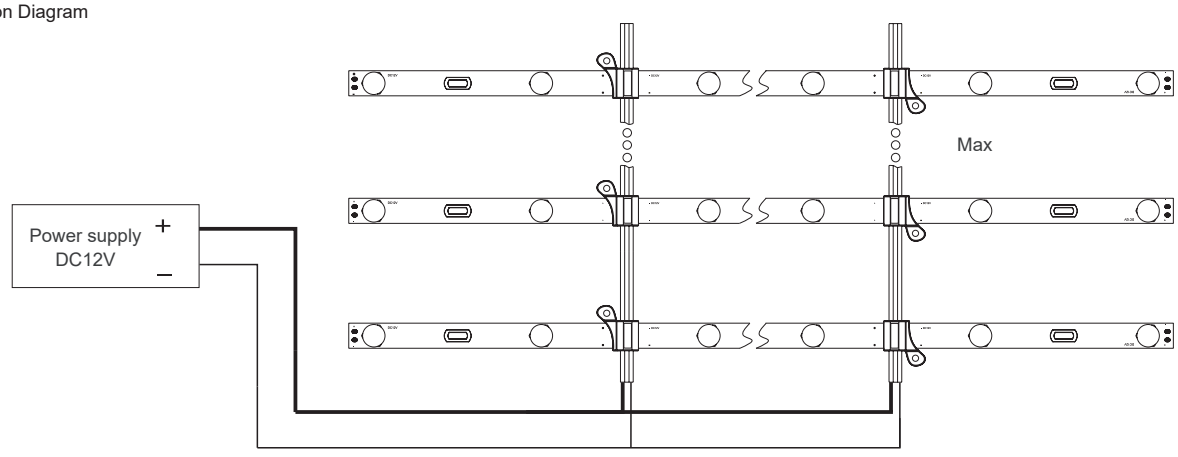
Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Pcs/Carton	Net Weight(kg)	Gross Weight(kg)
YD2-Y-4305	430*15*7.4	550*400*340	400	17.35(1±10%)	18.55(1±10%)
YD2-Y-9310	930*15*7.4	1010*295*210	200	15.65(1±10%)	16.95(1±10%)
YD2-Y-9312(high density)	930*15*7.4	1010*295*210	400	17.35(1±10%)	18.55(1±10%)
YD2-Y-1212	1130*15*7.4	1175*295*180	160	15.25(1±10%)	16.58(1±10%)

Notes:
- Packing material:PE bag and carton box
- The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation

Connection Diagram



Note:the "MAX" here means the standard run quantity.

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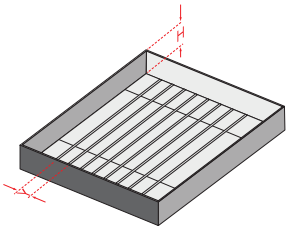
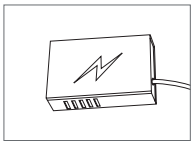
Installation Reference

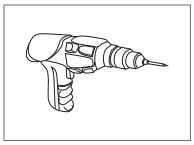
Model No.	Bottom Color of Lightbox	Surface Material	Depth(H) cm	Illumination (lux)	Density (pcs/m²)	Spacing (Y)cm	Power Density (W/m²)	Visual Effects
YD2-Y-9310	White	White Soft Film	6	4473-5390	10	10	96	OK
			8	2620-3150	5	20	48	
			10	1641-2040	3	33	29	
			12	1512-1821	3	33	29	

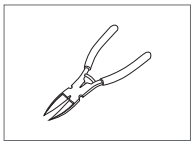


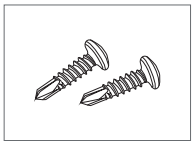
Note:
Bar spacing, see left picture.
If you need other installation data, you can ask the sales staff.

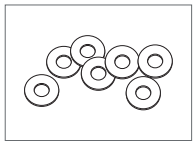
Products and Tools

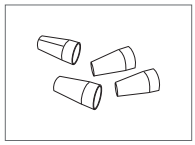

LED power supply

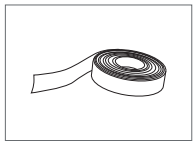

Electric drill


Diagonal pliers


Screws

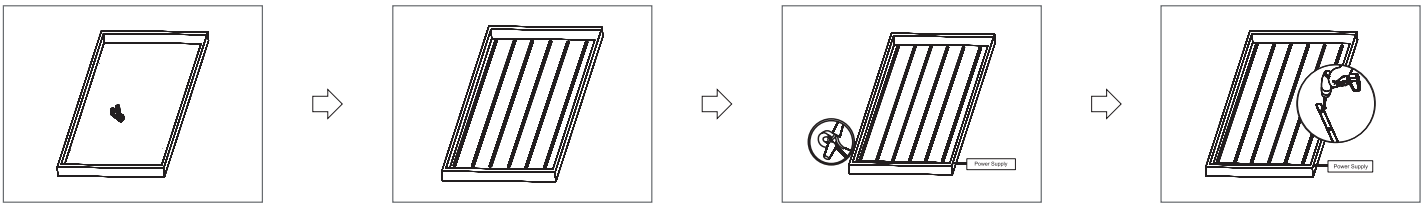

Mounting gasket


Connection terminal


Insulating tape

Installation Methods and Steps

Method one: fix by double-sided foam tape and screws



1. Clean the mounting surface free of dust and debris.
2. Arrange the mounting space.
3. For bare wire connection, please use terminals.
   Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
4. Check and ensure correct installation, and fix the product with screws ,then power on for self-test.

Note:

1. Screws should away from welding pad to avoid short circuit.
2. When fastening the screw, make sure to add plastic gaskets to insulate the screw from the PCB.

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Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation,waterproof and anti-corrosive treatment.
- Please take and use the product gently to avoid damage.
- After installation, the fabric light box must be covered with cloth within 48 hours. Please avoid leaving the light box idle for a long time.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Fix the short circuit problem.
	Automatic power protection from the open or short circuit in output of the power supply.	
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Correctly connection
	Power supply line error.	
	Mistaken wire connection of some of products	
Brightness of LED is inconsistent or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 24 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

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Statements and Recycling

Statements:

- Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only.
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling:

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Version	Content	Date
A1.5	Update: Basic Parameters	2025-7-28

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