

Features

1. Inserted Controller: Integrating the infinitely spliced flexible light panel and the Bluetooth Mesh controller into one piece, users can directly control through control panel or APP;
2. Intelligent networking function: Multiple light panels can be control separately or together on one APP to make different lighting effect.
3. Simple connection and easy installation: Making controlled light panel connections as easy as ordinary light panels.
4. PCB adopts FPC with high flexibility.
5. Quick Connector XH-3Y & Multiple Connection spot: Pin type assemblies are easy and stable way to connect panels.
6. Flexible and cuttable every 80.0*53.33mm to satisfy different requirements
7. IP22(non-waterproof) & IP64(spray glue coated) available.

Application

Back-lit light box with depth above 4cm, Shopping mall decoration, luminous letter, hotel etc.

Installation

Prefix by 3M self adhesive tape and screws



Optical & Electrical Parameters

26W

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Luminous Flu (lm/pcs)	Ra	Efficacy (lm/W)	Voltage (DC V)	Power (W/pcs)
H150-WN-TN-2835-324-24-W1	W	6500	120°	1231	80+	95	24V	12.96
	N	2200		933	90+	72		12.96
	W+N	3800		2151	80+	83		25.92

Other Parameters

Model No.	Power (W/pcs)	LED Quantity/pc	Product Size L*W*H(mm)	Max Run(Single Feed)(pcs)	Min Cuttable Length(mm)	Working Temperature	Storage Temperature
H150-WN-TN-2835-324-24-W1	26	324	480*240*8	4	80.0*53.33	-20~+60°C	-20~+70°C

NOTE:

- One inserted controller can max connect three pieces of light panels. The rated output of the controller is 138W, which is the total rated power of 3 pcs light panels.
- Test environment temperature : 25±2°C.
- The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.
- Luminous flux is tested when lighting on the single color.
- Different color temperature will make luminous flux different.
- Luminous flux and power tolerance within ±10%
- Cutting marks see profile drawing below

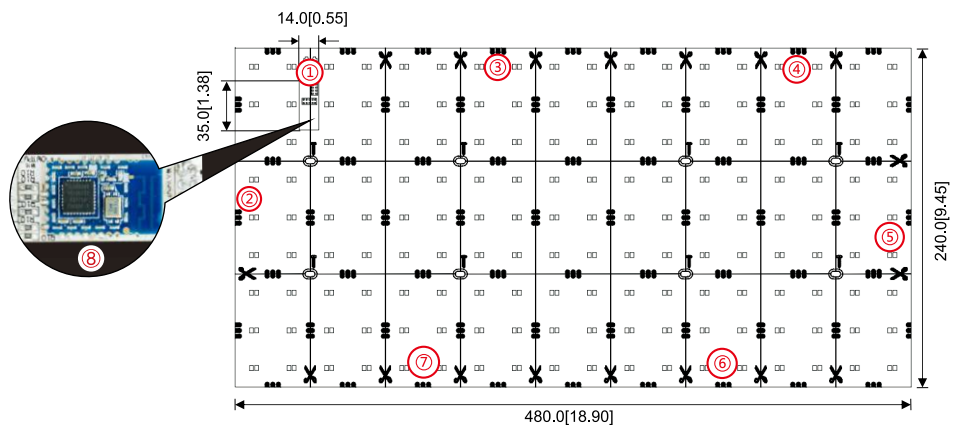
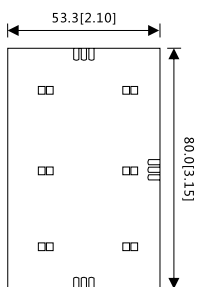
Profile Drawing

Unit: mm[inch]

H150-WN-TN-2835-324-24-W1

Profile Drawings

Min cuttable unit

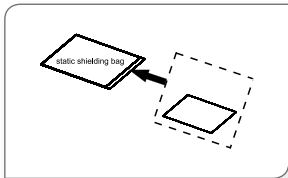




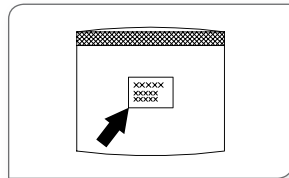
Port Description

Port location	Port name	Port type	Effect	Note
①	Power input	2pin	mains input for Internal control	INPUT
②④⑥	Signal input	3pin	signal input for external controller	INPUT
⑤⑥⑦	Signal output	3pin	output connection between light panel	OUTPUT
⑧	Built-in controller	—	Internal control	Not suitable for external control

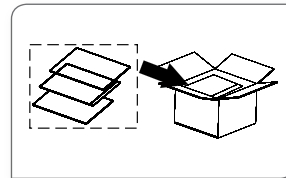
Packaging



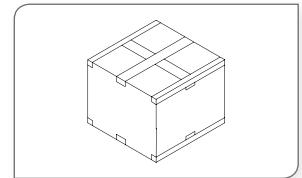
Put the product and desiccant together into static shielding bag;



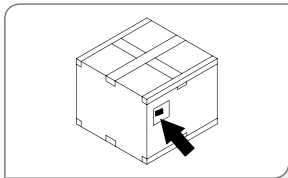
Seal and label the static shielding bag;



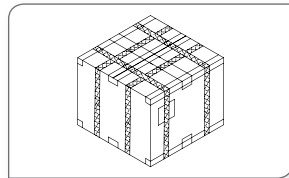
Separate with pearl cotton pads/cardboard layer by layer and put on the accessory bag



Seal the carton box



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/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
H150-WN-TN-2835-324-24-W1	480*240*8	555*295*275	2	50	8.64(1±10%)	10.35(1±10%)

NOTE:

Every 2pcs back to back packed in an anti-static bubble bag

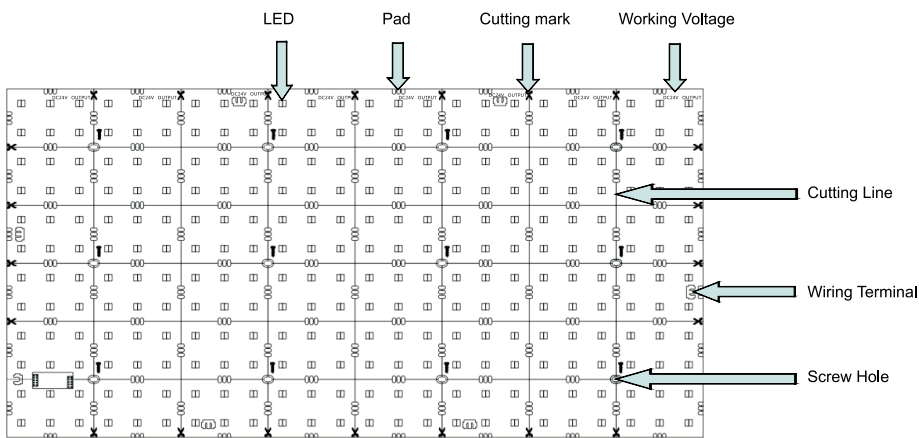
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.



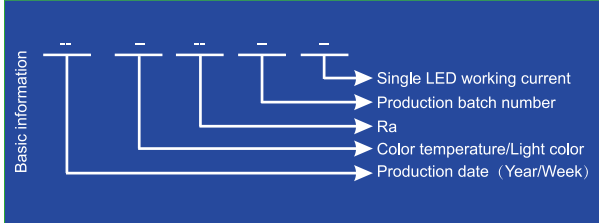
Packaging

1.The Product

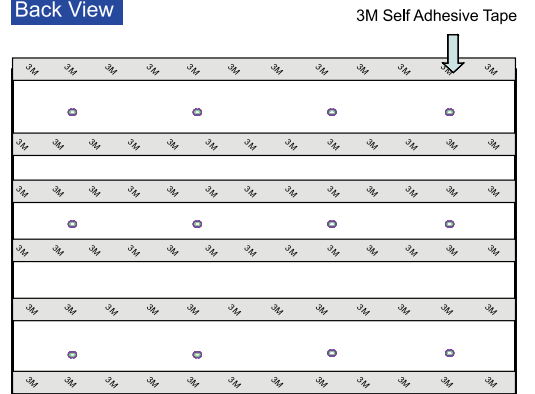
Front View



	Application	Quantity	Position	Note
Screw Hole	Fix the Product	12	-	Runway Hole
Cutting Line	Cutting Position	--	With Scissors Mark	-
Wiring Terminal	Connect Controller	1	-	2Pin Terminal
		6	-	3Pin Terminal
Pad	Bonding Wire	--	-	-
3M Self Adhesive Tape	Pre-fix	6	-	-
Basic Information	-	--	-	See the Figure

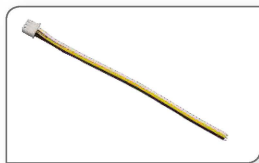


Back View

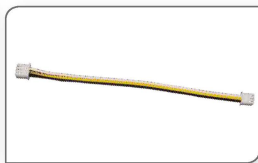




2. Accessory



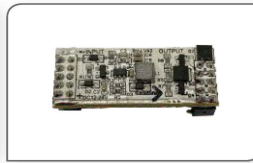
XH-3Y Power cable



XH-3Y Joint line



Self-tapping screw

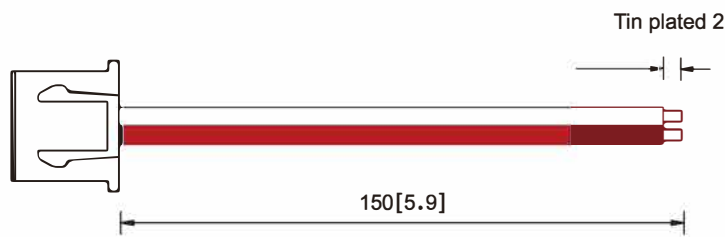


Built-in Controller (Optional)

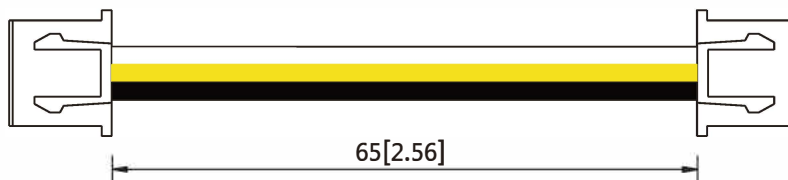


XH-2Y Power cable for Controller (Optional)

XH-2Y Power cable



XH-3Y Joint line

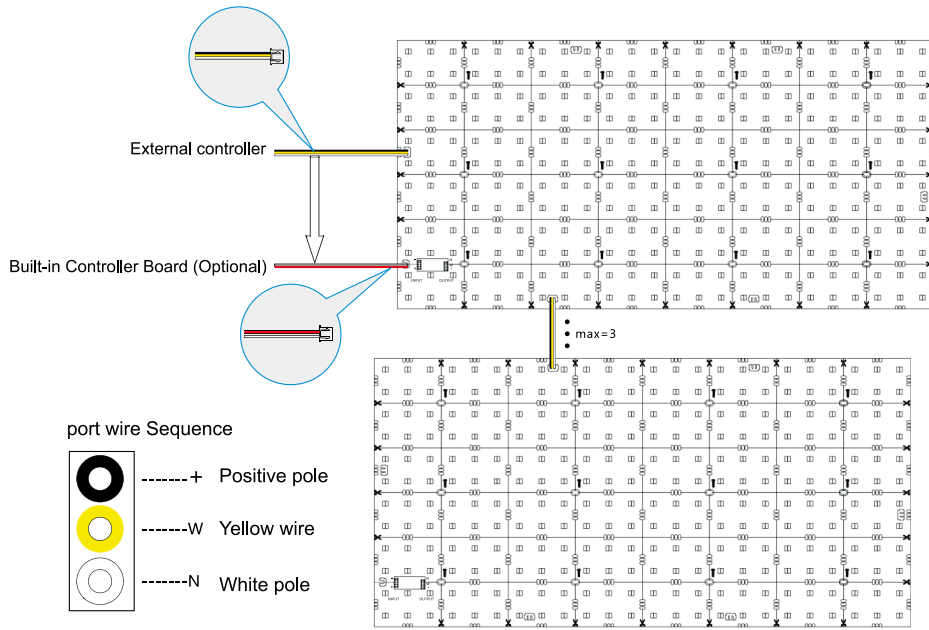


Please note the wire sequence, avoiding adverse connection. Standard wire material with wire gauge 20AWG. Use double wire to connect panels in single feed



3. Product Connection Diagram

External controller installation reference



NOTE:

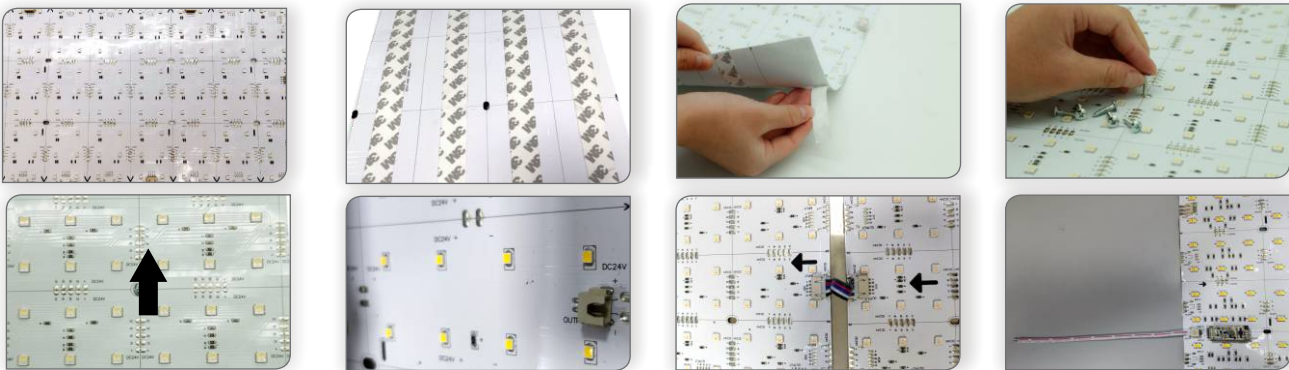
When using the built-in control board, just connect the red/white power wire to the control board, and pay attention that the wiring direction should not be reversed, see the picture above.

When using the external control board, just connect the black/yellow/white power wire as shown below.

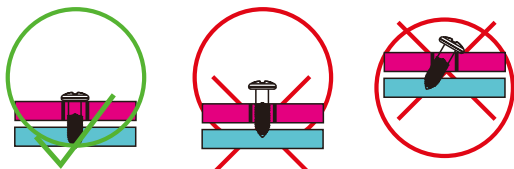
Please note the wire sequence, avoiding adverse connection.

The built-in controller adopts infrared control, Bluetooth control and WiFi control

4. Installation Steps



Optional



- Sign surface
- Light box border
- Flexible panel
- Light box bottom

Note:

“+” for white and red wire.

The above diagram is only for installation, not the physical drawing.



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.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent for insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ 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 4 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.

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.



Attachment: Instruction of single-sided lightbox

