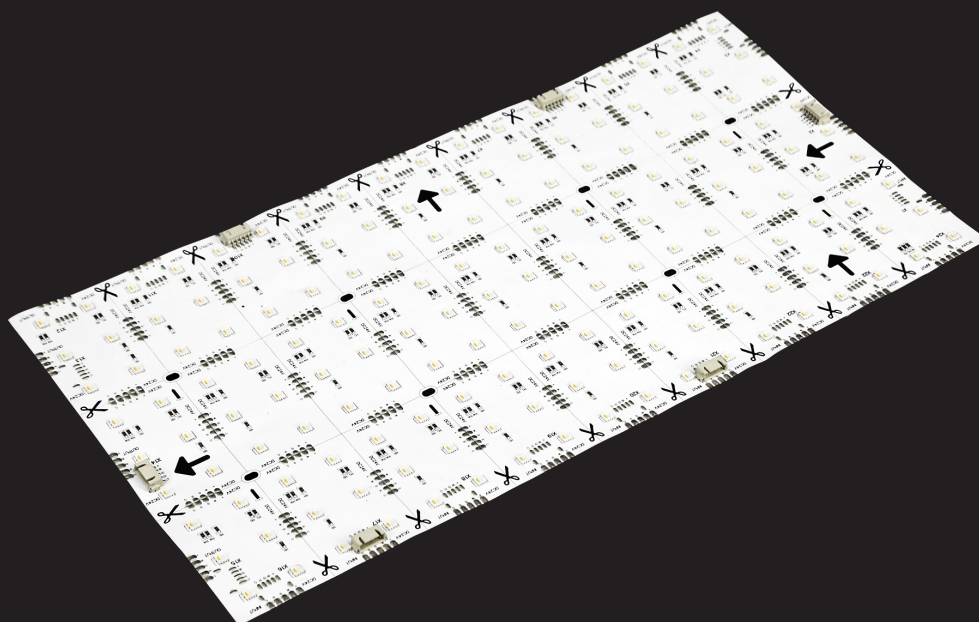




Version: A1.8

Features

- 4in1 with colors of red, green, blue and warm white
- Good lumen maintenance and long life span
- Create rich color changing effects via controller
- Support PWM, 0~10V, DALI and DMX dimming
- Multiple specifications and support customization

Application

Suitable for back-lit lightbox with depth above 4cm, curved wall, ceiling etc.

Installation

Fix by 3M self adhesive tape and screws



Specification

Model No.	Light Color	Color Temperature/ Wavelength (K/nm)	Beam Angle	Luminous Flu (lm/pcs)	Efficacy (lm/W)	Ra	Voltage (V DC)	Power (W/pcs)
H150-RGBW- TNF5050-162-24	R	620-630	120°	169	26	/	24	6.48
	G	515-530		480	74			6.48
	B	460-470		97	15			6.48
	WW	3000		583	90	80+		6.48
	R+G+B	100000+		719	37	/		19.44
	RGB+W	100000+		1218	47			25.92
H150-RGBW- TNF5050-288-24	R	620-630	120°	296	26	/	24	11.5
	G	515-530		845	73			11.5
	B	460-470		171	15			11.5
	WW	3000		1034	90	80+		11.5
	R+G+B	100000+		1274	37	/		34.5
	RGB+W	100000+		2200	47			46.0

Other Parameters

Model No.	LED Quantity	Max Run	Min Cuttable Unit	Working Temperature	Storage Temperature
H150-RGBW-TNF5050-162-24	162 pcs	4 pcs	80.0*53.3 mm	-25~+60°C	-25~+70°C
H150-RGBW-TNF5050-288-24	288 pcs	2 pcs	76.2*50.8 mm		

NOTE:

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.

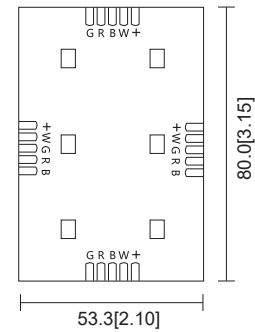
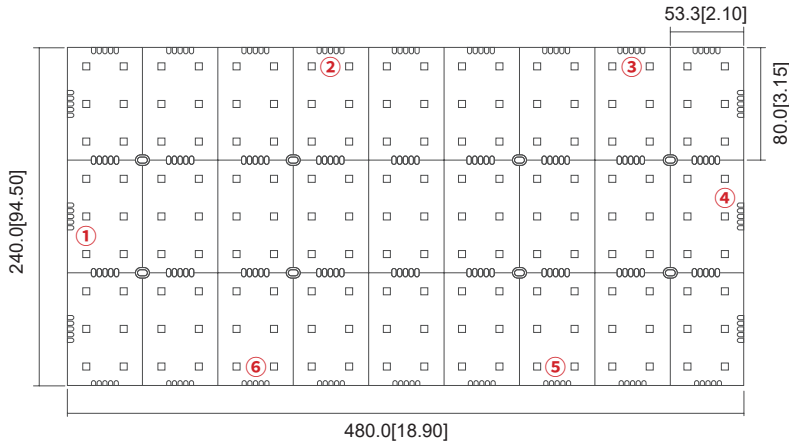
Different color temperature will make luminous flux different.

The error in luminous flux and power is ± 10%.

Profile Drawings

Unit:mm [inch]

H150-RGBW-TNF5050-162-24



Port location	Port name	Port type	Effect	Note
①②③	Signal input	5pin	external controller signal input	INPUT
④⑤⑥	Signal output	5pin	signal transmission between panels	OUTPUT

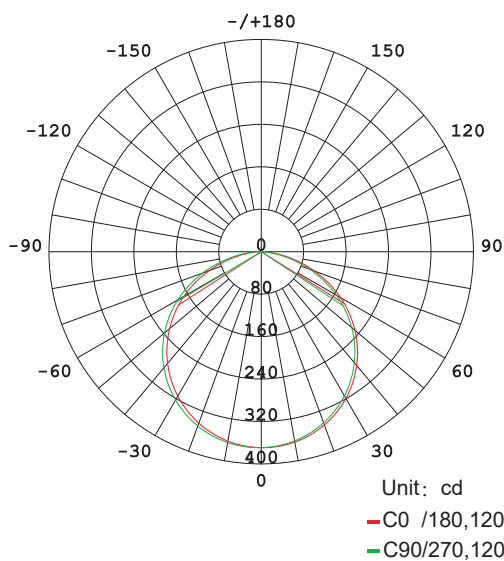
Note:

Dimension tolerance: length $\pm 6\text{mm}$ [0.24inch]; width $\pm 0.2\text{mm}$ [0.008inch]; thickness $\pm 0.2\text{mm}$ [0.008inch].

More info, please consult sales rep.

Luminous Intensity Distribution Diagram

Average Illumination



Flux Out:798.0lm

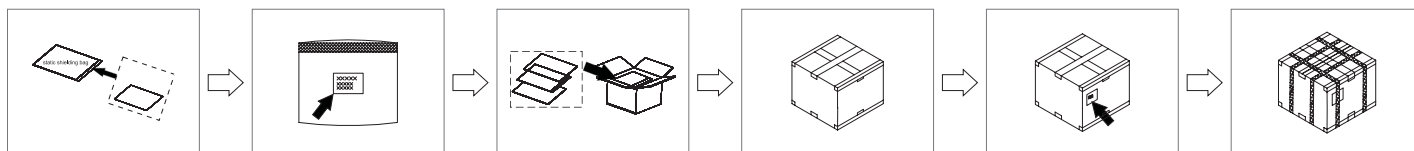
Height	Flux Out	Diameter
1cm	846664,4418079lx	3.46cm
2cm	211666,1104520lx	6.93cm
3cm	94074,490898lx	10.39cm
4cm	52917,276130lx	13.86cm
5cm	33867,176723lx	17.32cm
6cm	23518,122724lx	20.78cm
7cm	17279,90165lx	24.25cm
8cm	13229,69032lx	27.71cm
9cm	10453,54544lx	31.18cm
10cm	8467,44181lx	34.46cm

Height Eavg,Emax Beam Angle:120.00° Diameter

Note:The above data are tested with all RGBW lights on.



packing



1. Put the product and desiccant together into bubble bag;
2. Seal and label the bag;
3. Separate with pearl cotton pads/cardboard layer by layer and put on the accessory bag
4. Seal the carton box
5. Label the box
6. Use packing belt to pack. Add edge protectors if necessary.

Packaging Information

Model No.	Product Size L*W(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
H150-RGBW-TNF5050-162-24	480*240	555*295*275	2	25	8.64(1±10%)	10.35(1±10%)
H150-RGBW-TNF5050-288-24	610*305	640*350*355	2	25	11.90(1±10%)	13.20(1±10%)

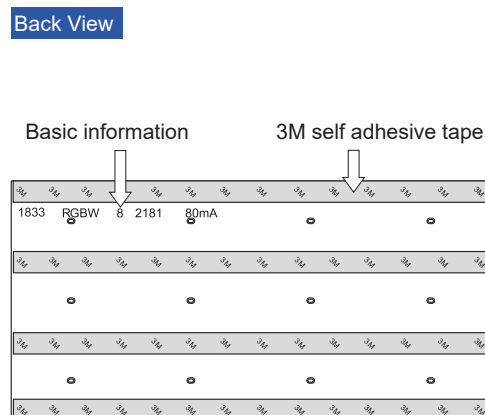
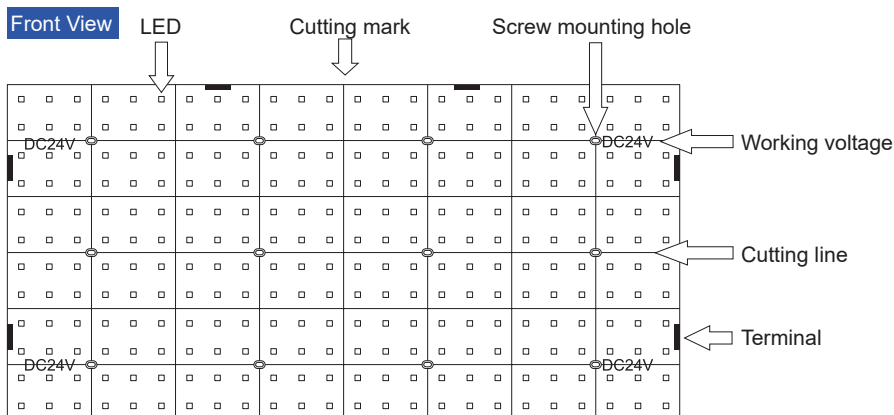
Note:

Every 2pcs back to back packed in a static shielding 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.

Installation

The Product



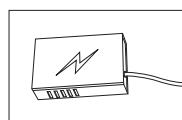


	Application	Quantity	Position	Note
Screw mounting hole	Fix the product	12	/	Runway hole
Cutting line	Cutting position	/	With Scissors Mark	/
Terminal	To connect power supply	/	/	5Pin terminal
3M self adhesive tape	Pre-fix	6	/	/
Basic information	/	/	/	See the figure

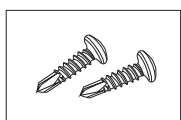
Basic information

1833	RGBW	8	2181	80mA
Production date(Year/Week)	Color temperature/Light color	Ra	Production batch number	Working current of single LED

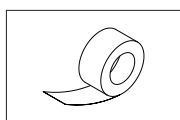
Products And Tools



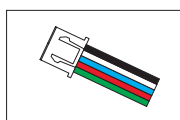
LED power supply



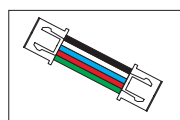
Self-tapping screw



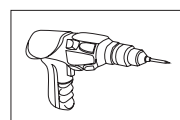
Insulation Tape



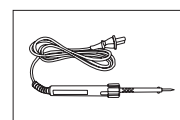
XH-5Y connector



XH-5Y connector



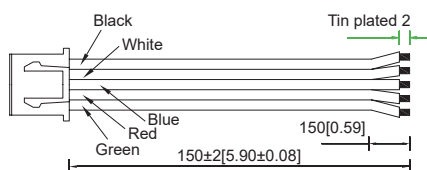
Electric drill



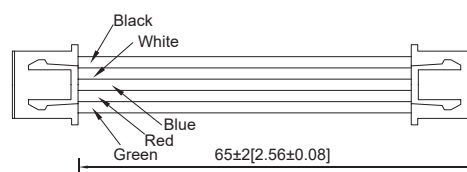
Electric iron

Unit: mm[inch]

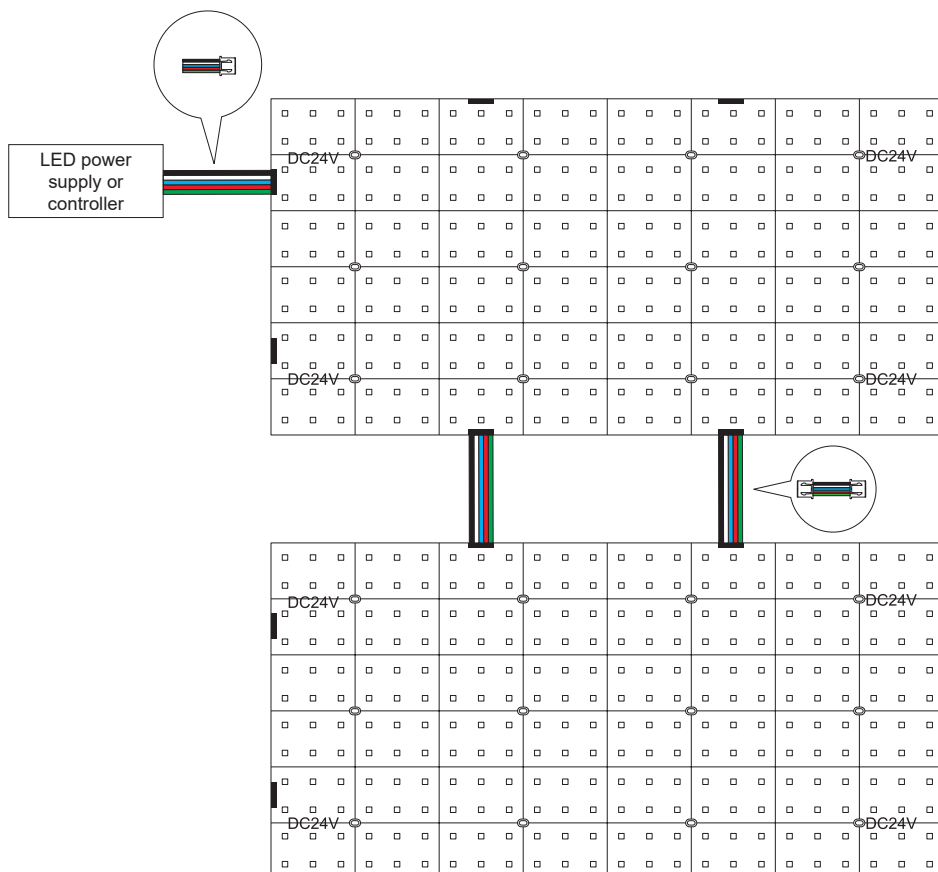
XH-5Y connector
Part No.: 0105Y3A0D00002



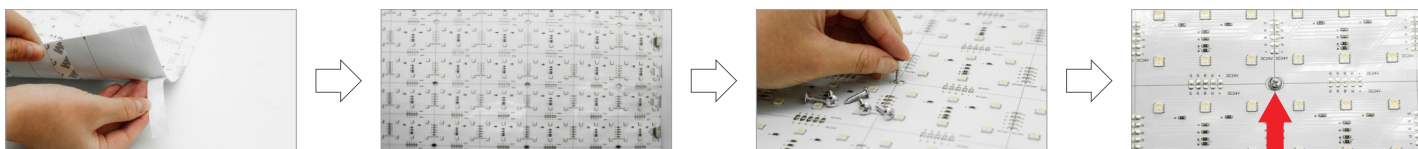
XH-5Y connector
Part No.: 0105Y3A0DY3002



Wiring Diagram



Installation Steps



-  ---- Illuminating side
-  ---- Light box frame
-  ---- Flexible panel
-  ---- Light box bottom

Note:

“+” for black wire.

The above diagram is only for installation, not the real product.



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.	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 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.
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Appendix: Single-sided light box

