DIGITAL RGB FLEXIBLE PANEL H150-D3-DN4040-288-24-W2





Features

- TTM1914 IC
- 6 LEDs per cutting units
- FPC material, flexible and bendable
- Quick XH-2Y & PH-2 connector
- Easy installation by tape and screws
- Customizable in size, color, power, and logo, etc.
- To achieve rich light changes like dreaming color chasing effects with an external controller
- Separate power supply and signal input ports

Application

Suitable for large-area lighting, curved decorative lighting, special-shaped decorative lighting, staircase corridor lighting, advertising light boxes, etc.

Installation

Fix by 3M self adhesive tape or screws

PAGE 1

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Optical & Electrical Parameters

Model No.	Light Color	CCT/Wavelength (K/nm)	Beam Angle	Luminous Flu (Im/pcs)	Efficacy (Im/W)	CRI	Voltage (V DC)	Power (W/pcs)
	R	620-630		548	15			31
H150-D3-DN4040-	G	515-530	100%	1525	41	1	24	31
288-24-W2	В	460-470	120°	330	9	/	24	31
	RGB	/		2343	28			72

* When the input voltage is 24V, the static power consumption of this product is 12W/pcs.

Other Parameters

Model No.	LED Quantity	Product Size	Max	Min Cuttable length	Working	Storage
	(pcs)	(mm)	Run(pcs)	(mm)	Temperature	Temperature
H150-D3-DN4040-288-24-W2	288	480*240	2	60*40	-25~+60°C	-25~+70°C

NOTE:

- 1. Test environment temperature : 25±2°C.
- 2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
- 3. The luminous flux is tested with corresponding color light on.
- 4. Different color temperature or wavelength will make luminous flux different.
- 5. The Luminous efficiency is measured value.
- 6. Max run is in single feed.
- 7. The luminous flux and power tolerance within $\pm 10\%$.
- 8. Cutting marks see profile drawing below.

Profile Drawings

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PAGE 2

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Unit:mm[inch]

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Port Description

Port location	Port name	Port type	Effect	Note
19113	Signal input	1pin	External SPI signal input	Use IPEX terminal line
234567	Power input / output	2pin	Voltage input / output	Using xh-2y connector wire
8101214	Signal output	1pin	Internal SPI signal output	Use IPEX terminal line

Operating Length VS. Electrical Parameters

H150-D3-DN4040-288-24-W2	Operating Length(m)										
Parameters	1	2	3	4	5						
Operating Voltage (DC V)			24.0								
Total Current(A)	3.11	6.14	9.17	12.20	15.23						
Total Power(W)	74.64	147.36	220.08	292.80	365.52						
Head voltage(V)	23.88	23.78	23.76	23.68	23.66						
Tail voltage(V)	23.87	23.61	23.35	23.09	22.83						
Head Current(mA)	54.36	53.64	53.42	53.22	53.18						
Tail Current(mA)	53.76	51.67	49.58	47.49	45.40						
Head-to-tail Voltage Drop Rate(%)	0.04	0.71	1.73	2.49	3.51						
Head-to-tail Current Drop Rate(%)	1.10	3.67	7.19	10.77	14.63						
Run a cable back to the driver	No	No	No	No	Yes						



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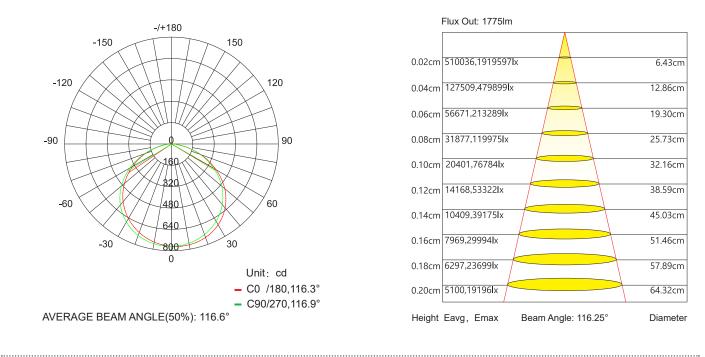


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Luminous Intensity Distribution Diagram

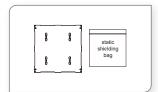
-/+180 -150 150 -120 120 -90 90 \$2d 480 -60 60 640 -30 30 800 0 Unit: cd - C0 /180,116.3° C90/270,116.9° AVERAGE BEAM ANGLE(50%): 116.6°

Average Illumination

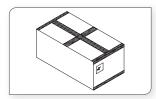


Note: The above data are tested with all lights on.

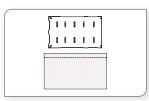
packing



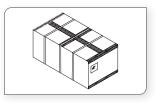
Put the product neatly on the table.



Seal and label the box.



Put the PCB into bubble bag.



Use packing belt to pack. Add edge protectors if necessary.



Put the product and desiccant together into carton box.



To fill the void with a foam or bubble bag.



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Packaging information

Model No.	Product Size L*W(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
H150-D3-DN4040-288-24-W2	480*240	555*295*275	2	25	8.64(1±10%)	10.35(1±10%)

Note:

Every 2pcs back with back packed in an anti-static bubble bag and put into 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

1.The Product

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														0									2	Terminal block
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	Application	Quantity	Position	Note
Screw Hole	Fix the product	6	1	Runway hole
Cutting line	Cutting position	/	With scissors mark	/
Terminal block	Connect the controller	6	/	2Pin/3Pin Terminal
Pad	Use of welding wire	1	/	/
3M self adhesive tape	primary fixation	3	/	/
Basic information	/	1	/	See the figure below

PAGE 5

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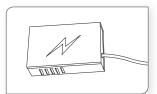
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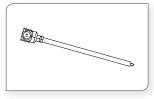


Basic information				
2044	44#	-	3939	54mA
Singgle LED working current	Production batch number	CRI	Color temperature/Light color	Production date(Year/Week)

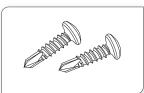
Products and Tools



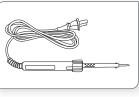
LED power supply



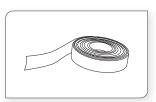
IPEX terminal line



Self-tapping screw



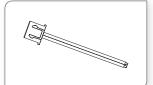
Electric iron



Insulation Tape



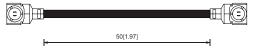
IPEX terminal line



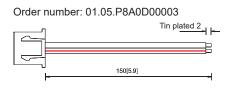
XH-2Y Connector wire

Order number: 01.05.9R01100003

Order number: 01.05.9R0119R002



XH-2Y Connector wire



Order number: 01.05.P8A0DP8010



PAGE 6

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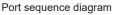
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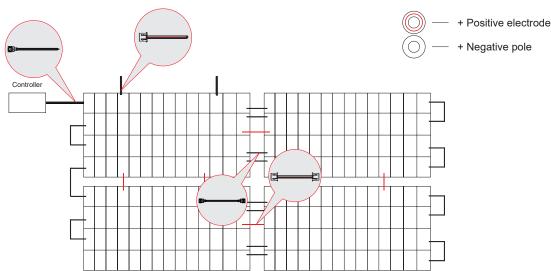
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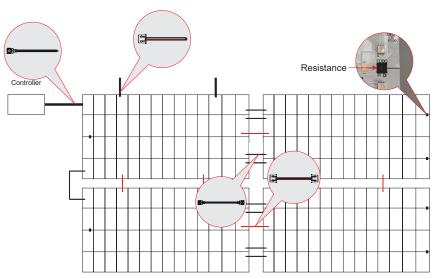
Product Connection Diagram







Connection mode 2



Note:

That when connecting the control board, the insertion direction cannot be reversed, and pay attention to the arrow mark on the light board.

When connecting the electric terminal line, if the connecting terminal line is connected between two pieces of output to input, pay attention to that the lamp board is placed in the same direction. If the direction is reversed, the positive and negative poles will be reversed and the lamp board will not be lit.

In connection mode 2, the resistance is connected in series in the board, and the connector wire is used between the boards to realize the signal transmission effect; before using this mode, the resistance should be welded at FI / FO / DI / DO.



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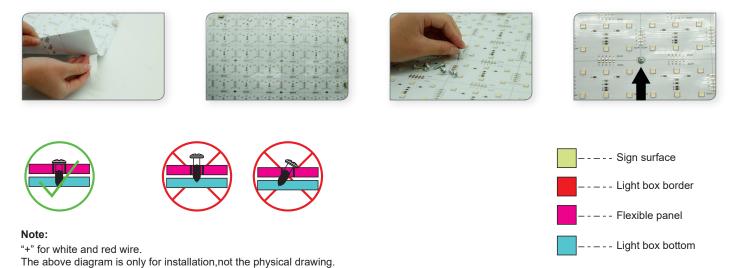
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Installation Steps



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.

🛕 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.

PAGE 8

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Common Faults and Troubleshoot

Quick Guide									
Problems	Reasons	Solutions							
	No electric supply.	Power on							
All LEDs can not light 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.								
	Some switching mode power supplies are not powered.	Check the power supply system to fix it.							
LEDs can not light on partly.	Power supply line error.	Check the power supply system to lix it.							
	Mistaken wire connection of some of products	Correctly connection							
	Power overloaded.	Replace with more powerful power							
Brightness of LED is inconsistent tor insufficient.	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.							
	Connection point fault.	Remove bad connection point.							
LED flicker.	Switching power supply failure.	Replace a new power supply.							
	Wrong Installation or use of products	Please follow the instructions							

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.

PAGE 9

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