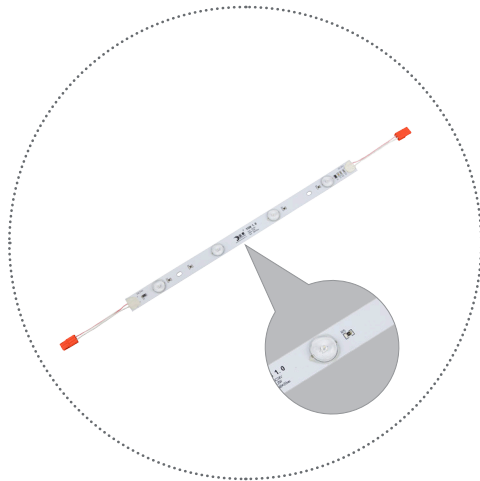


USER MANUAL

OF

YD 8 1.0



01 ▶ Features

- ▶ Adopt Nichia 3030 SMD LED.
- ▶ Secondary optical lens with 160° beam angle
- ▶ High efficacy up to 116lm/W
- ▶ SA-01 connector, no distinguish female or male, easier for installation
- ▶ Aluminum PCB for better heat dissipation
- ▶ Specification: 3 LEDs/ 270mm, 4 LEDs/ 360mm, 7 LEDs/630mm

02 ▶ Optical & Electrical Parameters

| Model No. | ▶ YD8-3 | YD8-4 | YD8-7 |
|------------------------|-------------|-----------|-----------|
| Color Temperature (K) | ▶ 6000-7000 | 6000-7000 | 6000-7000 |
| Beam Angle | ▶ 160° | 160° | 160° |
| Luminous Flux (lm/pcs) | ▶ 158 | 210 | 370 |
| Ra | ▶ 82 | 82 | 82 |
| Efficacy (lm/W) | ▶ 50 | 66 | 116 |
| Voltage (V DC) | ▶ 24 | 24 | 24 |
| Power (W/pcs) | ▶ 3.2 | 3.2 | 3.2 |

03 ▶ Other Parameters

| Model No. | ▶ YD8-3 | YD8-4 | YD8-7 |
|----------------------------|-------------|-----------|-----------|
| Standard Series Connection | ▶ 8 PCS | 8 PCS | 8 PCS |
| Working Temperature | ▶ -25~+60°C | -25~+60°C | -25~+60°C |
| Storage Temperature | ▶ -25~+70°C | -25~+70°C | -25~+70°C |
| IP Grade | ▶ IP60 | IP60 | IP60 |

Note:

- ▶ Testing temperature: 25±2
- ▶ 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 single color.
- ▶ Different color temperature will make luminous flux different

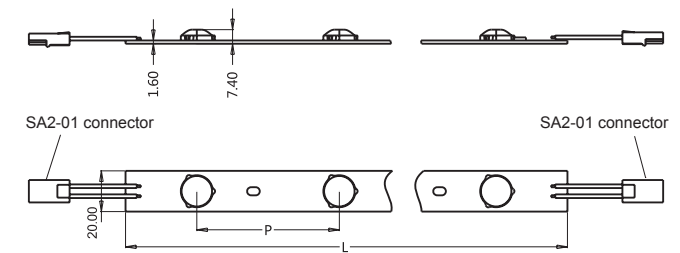
04 ▶ Installation Reference

| LED Arrangement | Scheme1 | Scheme2 | Scheme3 | Scheme4 | Scheme5 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|
| Test Item | | | | | |
| Height of Lightbox(cm) | 6 | 7 | 8 | 9 | 10 |
| Center Spacing(cm) | 15 | 13 | 17 | 17 | 17 |
| Density(pcs/m ²) | 7 | 7 | 6 | 6 | 6 |
| Illumination(Lux) | 2520-3860 | 2520-3680 | 1820-2670 | 1780-2580 | 1700-2510 |

Note:

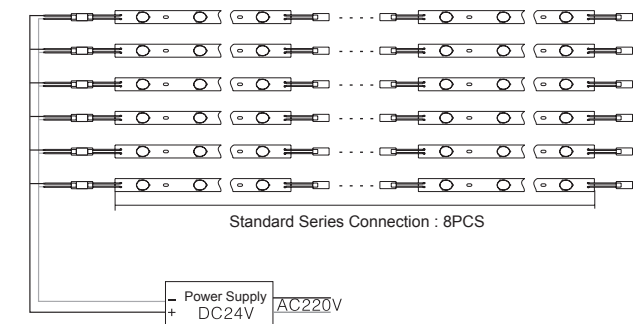
- ▶ The scheme use single-side light box and the surface material is 3mm white acrylic plate. The illumination refers to average illumination while the surface is uniform.
- ▶ The test sample is YD8-7.
- ▶ The above data is only for reference.

04 ▶ Profile Drawing



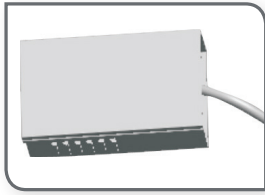
| Model No. | Size "L" | Size "P" | LED Quantity/pc |
|-----------|----------|----------|-----------------|
| YD8-3 | 270mm | 90mm | 3 |
| YD8-4 | 360mm | 90mm | 4 |
| YD8-7 | 630mm | 90mm | 7 |

05 ▶ Connection Diagram

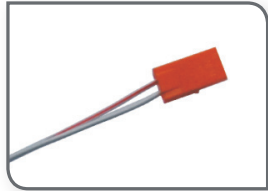




YD8



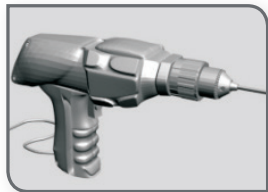
24V LED Power supply



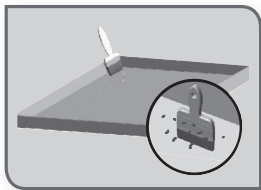
SA2-01 connector



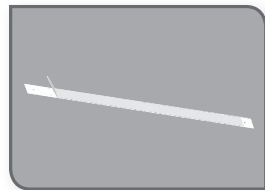
M3 self-tapping screw



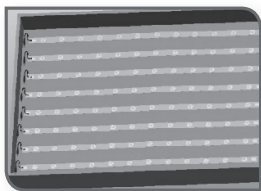
Electric drill



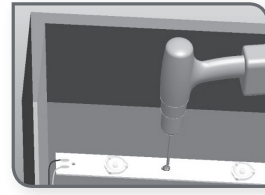
Clean the mounting surface.



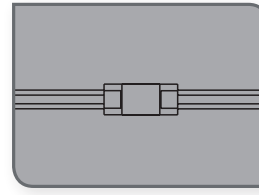
Peel off the release paper backside the rigid bar.



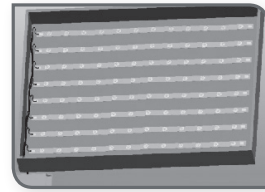
Distribute the rigid bars in the light box according to proper spacing. Be careful not to damage lens, LEDs and electronic components of the rigid bar.



Screw to fix the bar.

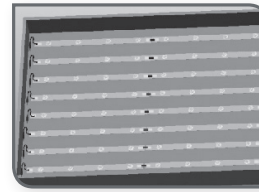


Connect the SA2-01 connector.



Connect the main line of rigid bar to the 24V power supply.

Note: Treat the wire end with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.



If the bar need to be jointed, please arrange it as the picture shows.

Note: Do not exceed the standard series connection.

- ▶ Load voltage, current, power and power supply should be matched with the product.
- ▶ Follow the instructions of wiring diagram to avoid short circuit.
- ▶ The main line connected to the rigid bar should be thicker to prevent inconsistent brightness due to excessive line loss.
- ▶ Make sure the power cord firmly screwed into the terminal as it can not be pulled out by hands, and the terminal should have insulation, waterproof and anti-corrosive treatment.
- ▶ Use standard output voltage: DC24V. The power supply line with safety certification (with short circuit protection, over-voltage protection and over-current protection, the output voltage adjustment rate of switching power supply is $\pm 5\%$) should retain a load margin greater than 15%.

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| Quick Guide | | |
|---|--|--|
| Problems | Reasons | Solutions |
| All LEDs can not light on. | No electric supply. | Supply electricity. |
| | Automatic power protection from the open or short circuit in output of the power supply. | Fix the short circuit problem. |
| 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. | |
| Brightness of LED is inconsistent for insufficient. | Power overloaded. | Replace with more powerful power |
| | Power supply circuit excessive consumption. | Make sure 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. |

- ▶ Do not remove or modify LED, and do not touch or scratch the LED with sharp objects.
- ▶ Do not do live-line working during installation.
- ▶ Do not use any chemical solvents.
- ▶ 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 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 used inside of the light box or signage, and do not use it directly in outdoor and semi-outdoor situation.
- ▶ Installation and maintenance must be done by professionals.
- ▶ The length of the power cable between the power supply and the Product should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.

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.