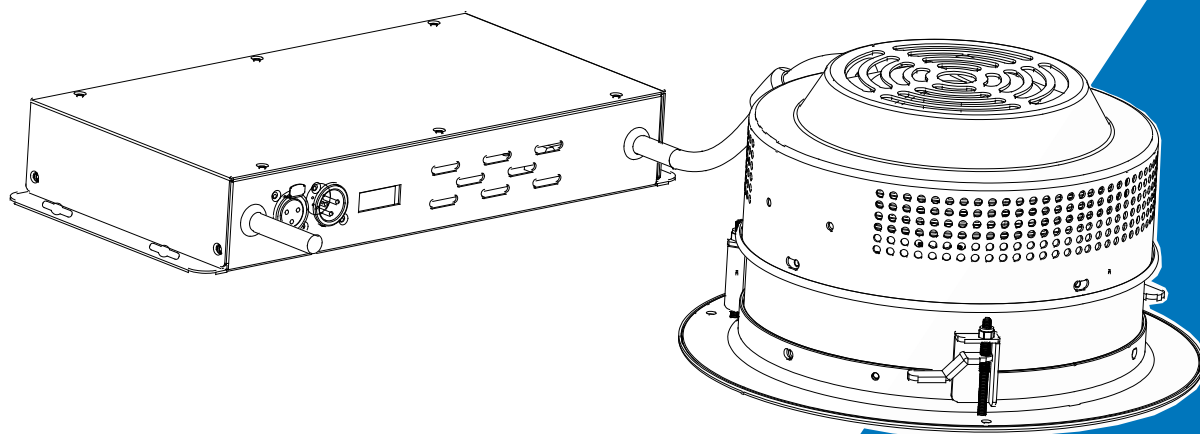




DAVY



User Manual

Please read the instruction carefully before use

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1. Safety Instructions



Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0°C. Maximum ambient temperature TA: 40°C.
- DO NOT connect the device to any dimmer pack.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in dirty or dusty environment, do clean fixtures regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together twist other cables.

- The minimum distance between light output and the illuminated surface must be more than 0.5 meters.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- DO use the original packing materials before transporting it again.
- DO NOT look directly at the light while the LED is on.
- DO NOT start on the unit without LED enclosure or when housing is damaged.

2. Technical Specifications

Power Voltage:

AC 100~240V, 50/60Hz

Power Consumption:

175W

Light Source:

G3FS1008-J1208

Color Temperature:

4000±100K

Beam Angle:

30°

Control:

DMX Channel: 2 channels

Control Mode: DMX512, RDM

Firmware Upgrade via DMX link

Construction:

Data In/Out: 3-pin XLR (5-pin XLR is optional)

Protocols: Power cord out

Protection Rating: IP20

Install hole size: 260±10mm(10.2"±0.4" in)

Features:

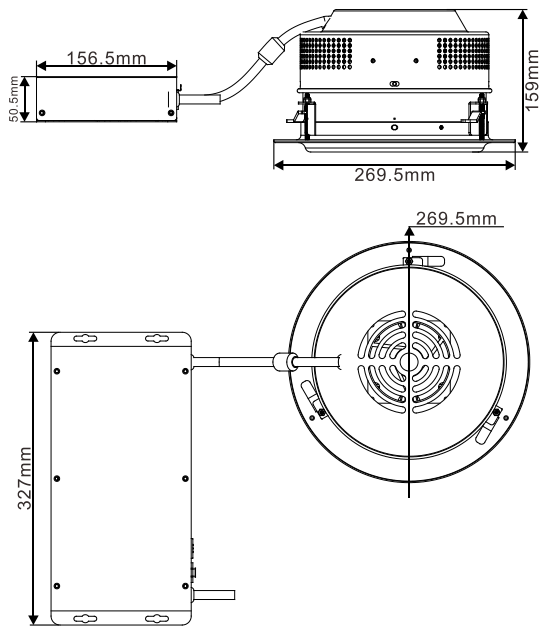
High CRI mode, CRI ≥ 95

Ultra high brightness, energy saving and high efficiency, far exceeding the brightness of traditional down lights

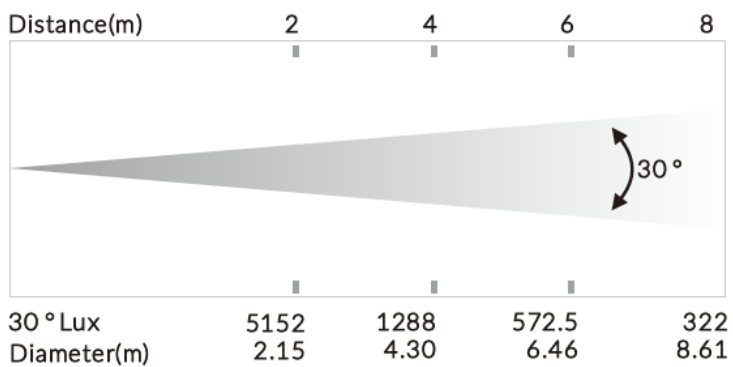
Dimension/Weight:

269.5x159x269.5mm, 5.5kgs

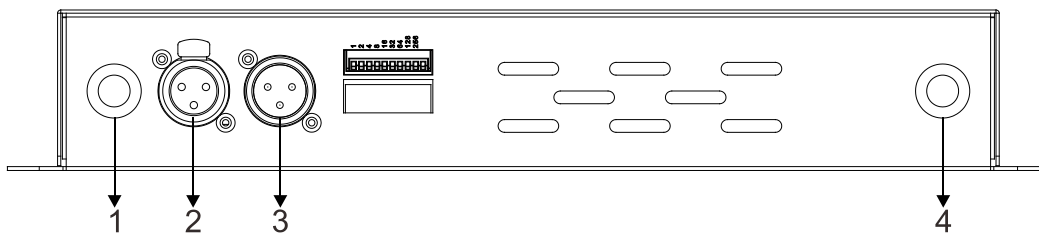
10.6"x6.3"x10.6" in, 12.1lbs



Photometrics Diagram:



3. Control Panel



1. POWER IN: To connect to supply power

2. DMX OUT:

DMX512 link, use 3-pin XLR cable to link the next units (5-pin XLR is optional)

3. DMX IN:

DMX512 link, use 3-pin XLR cable to link the unit and DMX controller (5-pin XLR is optional)

4. HYBRID CABLE: To connect to the fixture

4. Installation

1. Drill a circular hole with a diameter of 250mm in the ceiling (fig.1). Adjust the three movable fixing plates of the luminaire inward and stick to the luminaire shell (fig.2).

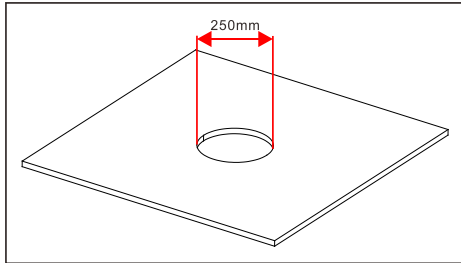


fig.1

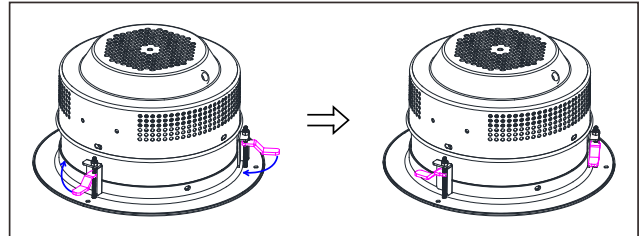


fig.2

2. Push the luminaire from the bottom to the ceiling to be flush with the ceiling surfacing (fig.3).

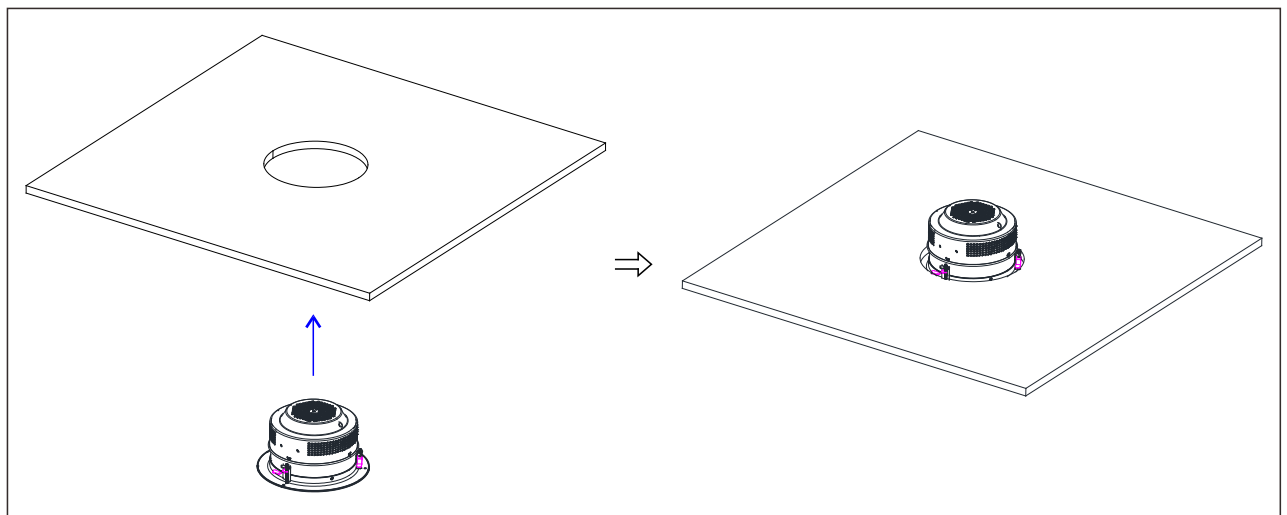


fig.3

3. Screw the 3 screws to the right to open the movable fixing plates outwards and press the back of the ceiling. Screw them until they cannot move (fig.4).

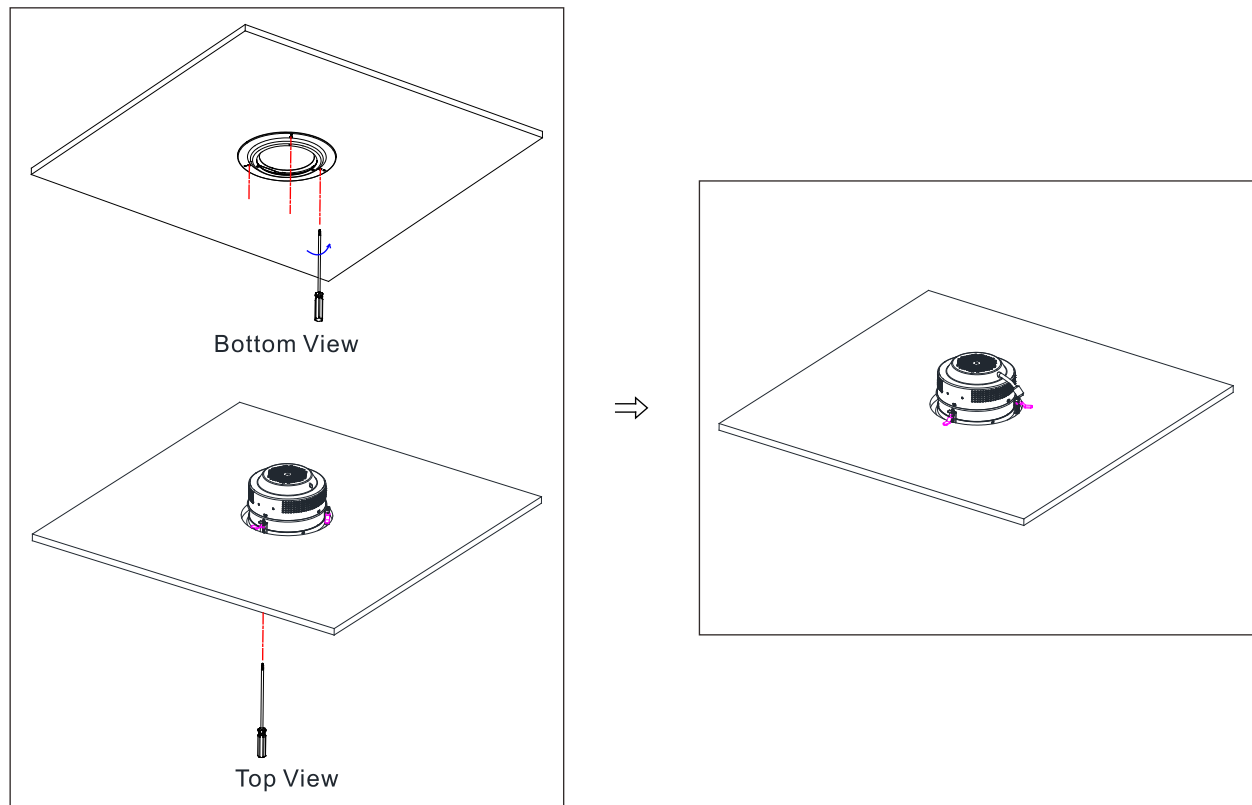


fig.4

4. Move the power box to an appropriate position next to the luminaire and fix it with M4 self-tapping screws, and finally connect the luminaire to the power box. Then, the installation is finished (fig.5).

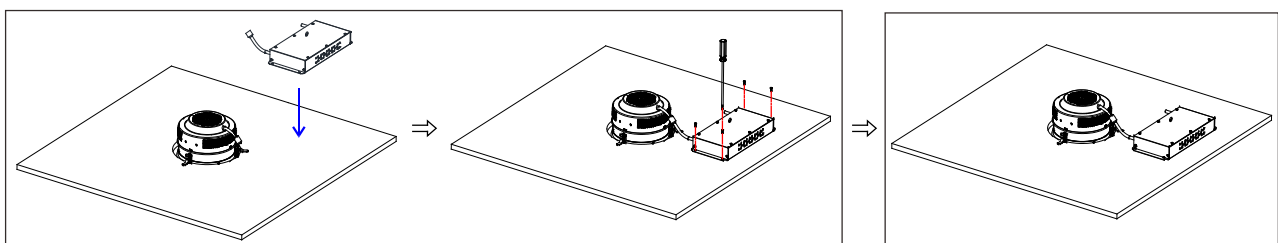
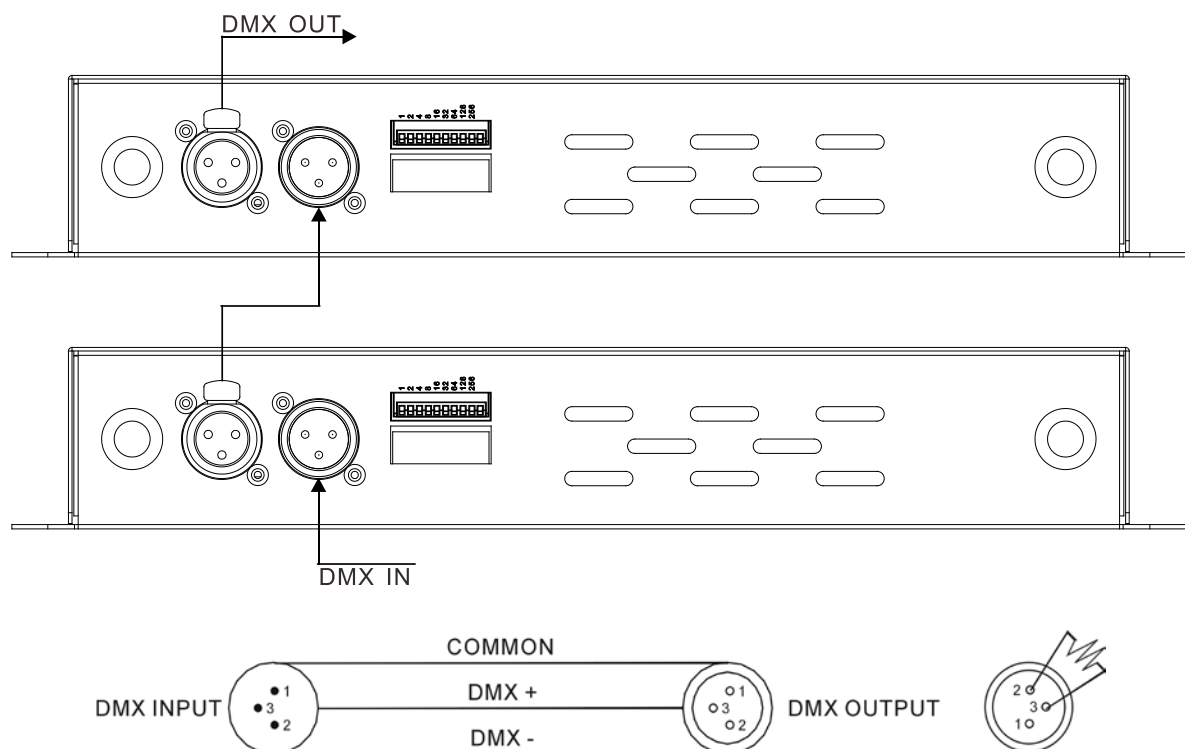


fig.5

5. Control By Universal DMX Controller

5.1 DMX512 Connection



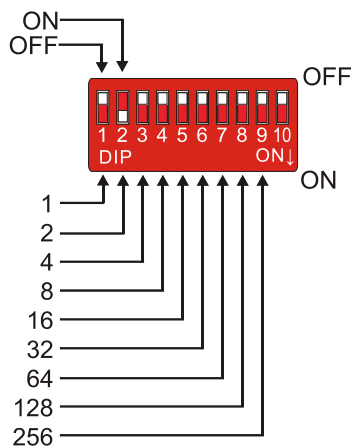
1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a “Y” cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units’ power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

5.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Please refer to the following diagram to address your DMX512 channel for the units.

DIPSWITCH SETTINGS



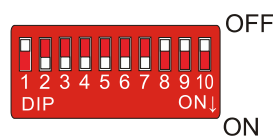
Example

DMX address = 126

$$126 = 64 + 32 + 16 + 8 + 4 + 2$$

Turn the DIP switches corresponding to the address 64, 32, 16, 8, 4, 2 down to the "ON" position

All other switches to the "OFF" position



5.3 DMX512 Configuration

Please refer to below configurations to control the fixtures

Attentions:

The unit will maintain the last condition until reset if you cut-off the DMX signal.

2 Channels:

CHANNEL	VALUE	FUNCTION
1	000-255	DIMMER 0%→100%
2	000-255	DIMMER FINE

6. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connect power.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

1. Check DMX connectors, cables to see if they are linked properly.
2. Check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

7. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth and use normal glass to clean liquid.
- Always dry the parts carefully.

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