

Luminus PinSpot

WDMX



Before you operate this fixture read the manual carefully. Always make sure to include the manual if you pass/rent/sell the fixture to another user.

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1. WARNING

1.1 Safety Instructions

This product guide contains important information about the safe installation and use of this product. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

When unpacking and before disposing of the carton, check there is no transportation damage before using the product. Should there be any damage caused by transportation, consult your dealer and do not use the products.

The product is for indoor use only. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids. The product is not designed or intended to be mounted directly on to inflammable surfaces. 

The product is only intended for installation, operation and maintenance by qualified personnel.

The product must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not directly look into the led. It can cause harm to your eyes.

Do not attempt to dismantle and/or modify the product in any way.

Electrical connection must only be carried out by qualified personnel.

Before charging the fixture, ensure that the voltage and frequency of power supply match the power requirements of the product.

A rechargeable lithium-ion battery is built inside this fixture. Please avoid bumping or plunging, it may cause fire or explosion. Never store the battery when fully drained. Always recharge immediately when empty. Make sure to fully charge all fixtures before storing them. Partially charged batteries will lose capacity. Fully recharge every 6 months if not used.

When charging fixtures in flight case, always charge with the case open. It is recommended to charge at a temperature between 0°C and 35°C.

Please make sure the battery will be disposed of properly according to your local law when it runs out of its life, so that to protect the environment.

This product is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

If this fixture is operated in any other way other than the one said in this manual, this device

may suffer damages and thus the warranty becomes void.

Always switch off the fixture when it is not in use or before cleaning it or before attempting any maintenance work.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the fixture.

1.2 Rigging

Concerning rigging, trussing for this fixture, please follow the European and national guidelines.

Only the qualified technicians are allowed for the device installation,

The fixture must never be mounted for a possible swinging position, and a safety cord attached must always be used.

2. PRODUCT INTRODUCTION

2.1 Items in the Package

After receiving the fixture, please carefully unpack the product and make sure the following parts are all included inside the package and are all in good condition.

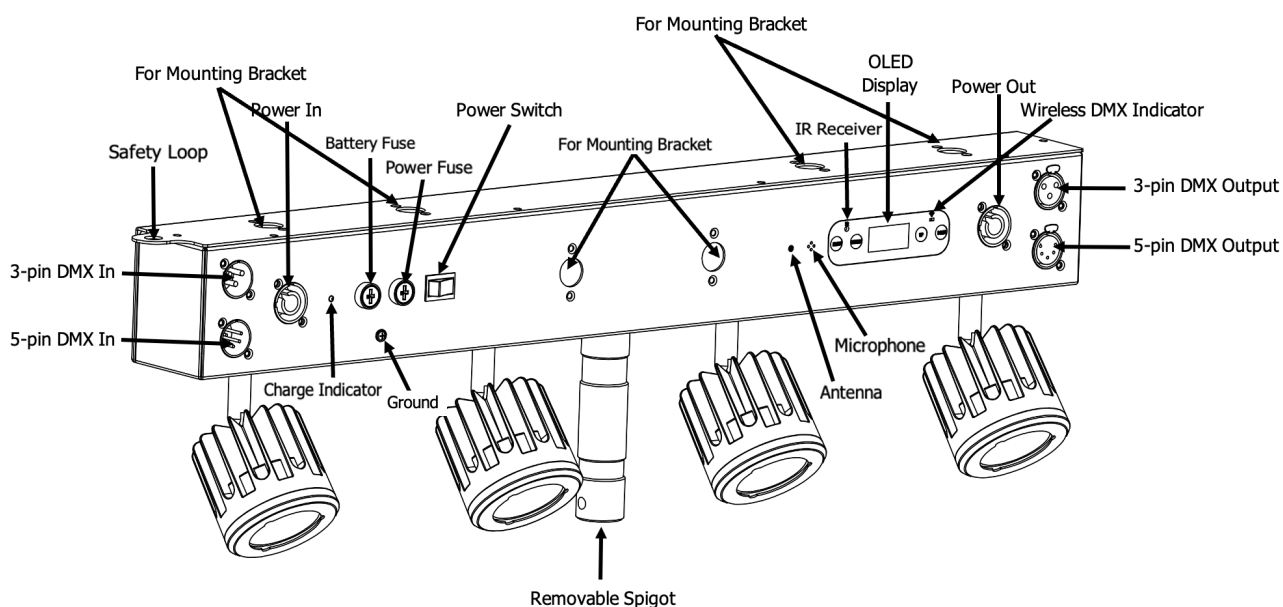
- Luminus PINSPOT WDMX x 1 pc
- Power cable x 1 pc
- Infrared remote controller x 1 pc
- Spigot x 1 pc
- Diffuser 10° x 4 pcs
- Diffuser 25° x 4 pcs
- Bracket x 2 pcs
- This quick guide x 1 pc
-

In case the package is damaged from shipping, inform the carrier right away while keeping the damaged box or flight case for inspection. Failure to report damage to the carrier immediately may cause invalidity to your claim. The dealer or manufacture will not take any responsibilities for the damage.

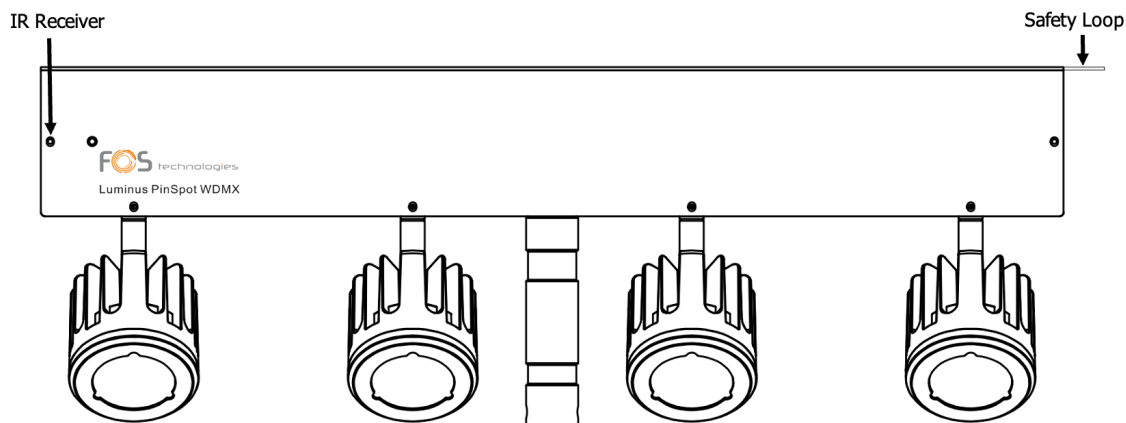
In case there are parts missing from the box with a good condition, please contact your dealer or the manufacturer immediately by email or in other written form.

2.2 Product Overview

2.2.1 Fixture Elements and Connectors

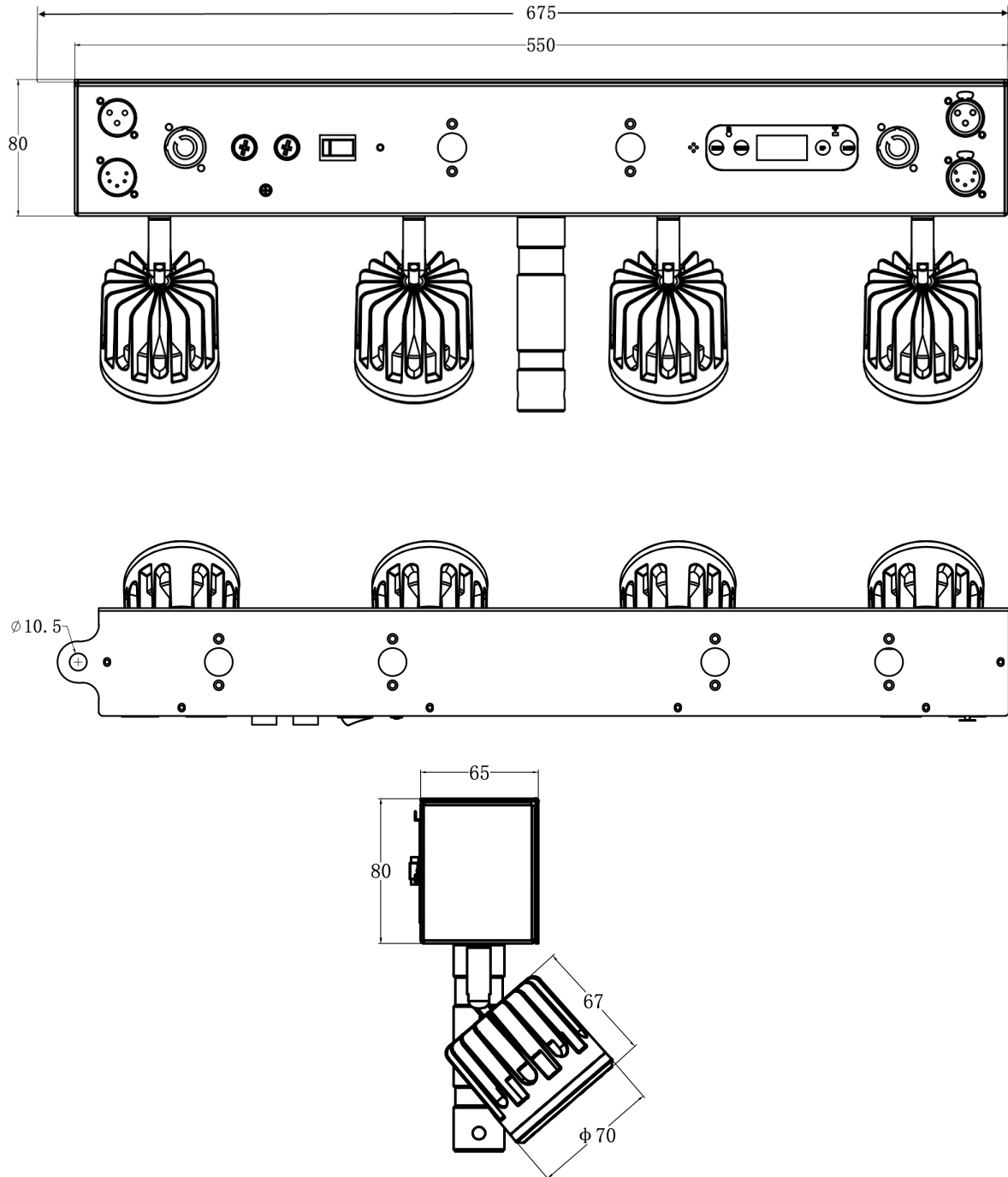


Front View



Back View

2.2.2 Fixture Dimensions



2.3 Fixture Temperature

The fixture has temperature protection function. You can easily check fixture temperature via the OLED display information menu.

When fixture temperature is higher than 65 degrees, light output will decrease to 80%. When fixture temperature is higher than 70 degrees, light output will decrease to 60%. When fixture temperature is higher than 75 degrees, leds will go off automatically until temperature comes down to 55 degrees.

2.4 Storing the Fixture

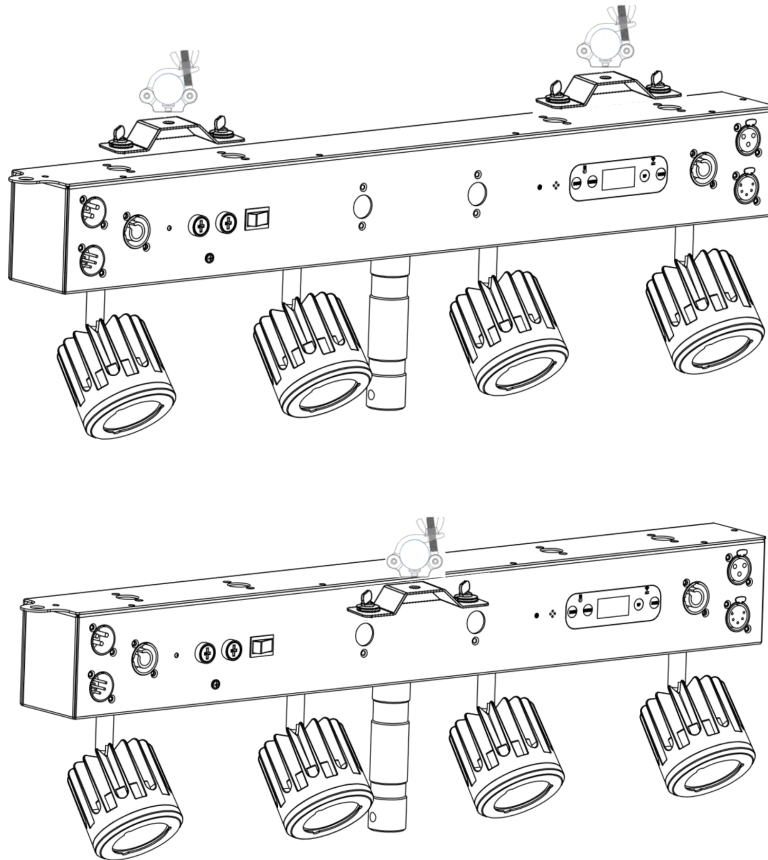
Make sure to fully charge all fixtures before storing. Partially charged batteries will lose capacity. Fully recharge every 6 months if not used.

Always remove battery fuse if fixture will be stored for long time (more than 1 month).

2.5 Mounting

The fixture can be mounted in several orientations. Please make sure there is good ventilation around the fixtures, also easy access to the fixtures.

- The fixture can be mounted to truss or cross bar. Make sure that the structure onto which you are going to mount the fixture can support 10 times of the fixture weight. The fixture net weight is 5.2 kg.
- Users should also use a safety cord to secure the fixture to a rigging point.
- Make sure that the fixture is kept 0.5m away from projection objects.



For the rest of safety installation, please always respect your local regulations.

2.6 Specifications

Electrical

| | |
|-------------------|------------------------|
| Power input | 100-240VAC 50/60Hz |
| Power consumption | 70W max. |
| Power connector | Powercon input/output, |

Battery

| | |
|--------------|-------------------------------------|
| Battery type | Rechargeable lithium-ion battery |
| Charge time | About 4.5 hours |
| Battery life | 1-12 hours selectable from the menu |

Light sources

| | |
|-----------------------|-----------------------------------|
| Led | 4x15W, warm white led 3200°K |
| CRI | >82.5 |
| Beam angle | 5° |
| Diffuser | 10° and 25° (4 pcs each diffuser) |
| Led average life span | 50,000 hours |

Control

| | |
|---------------|---|
| Control mode | DMX512, Master/Slave, Stand Alone; Sound control, Wireless DMX, IR Remote Control |
| DMX channel | 1/4/9 channel selectable |
| DMX connector | 3-pin and 5-pin DMX in and out |
| Control panel | OLED display with touch buttons |

Physical & Construction

| | |
|----------------------|-----------------------------------|
| Housing | Rigid metal housing |
| Housing color | Black |
| Fixture dimensions | 675 x 187 x 80mm |
| Net weight | 5.2 kg |
| Working temperature | -10°C - 45°C |
| Charging temperature | 0°C - 45°C |
| IP rating | IP20 |
| Cooling | Natural cooling, silent operation |

3. BATTERY

The fixture has a rechargeable lithium-ion battery and auto-ranging charger built in. Always store the fixtures with full battery. Depleted batteries must be recharged immediately; otherwise fixture performance will suffer.

Battery runtime will decreased time by time. Battery runtime may be slightly shorter than predicted due to different working enviroments.

3.1 Battery Charge

There are two ways to charge the fixture.

3.1.1 Charge fixtures in charge case

The fixture has a built-in auto-ranging charger. To charge the fixture, just connect the powercon cable in the charging case, and plug the case to the mains. The fixture will start to charge automatically. A normal charging time is about 4.5 hours.

3.1.2 Charge fixtures with power cable

Users can also charge the fixture with AC power 100-240V. Connect the fixture power input to the mains with the enclosed power cable, it will start charging automatically.

Battery capacity can be easily seen on the OLED display.

3.2 Battery Life Indicator

There is a charge indicator on the fixture. When battery capacity is less than 30%, yellow light will start flashing. When this happens, charge the battery immediately till it is 100% fully charged. Red light will turn on during the whole charging time. Once the battery is fully charged, the indicator will turn on green.

Yellow flashing – power less than 30%, need to charge battery

Red – battery being charged

Green – battery fully charged

It is recommended to charge the fixture at an ambient temperature between 0°C and 35°C.

When charging fixtures in flight case, make sure to keep the case OPEN. If fixture is charged but not in operation, please always keep the power switch “Off”.

Note: The battery must be replaced with an original one from the manufacturer only.

4. PRODUCT SETUP

This fixture has a built-in rechargeable lithium battery. After it is fully charged, switch on the fixture, it will start to run and can be controlled with wireless DMX desk or IR controller.

After operation, please switch off the fixture with its power switch.

4.1 DMX Addressing

Each fixture must be given a DMX address so that the correct fixture responds to the correct control signals. This DMX address is the channel number from which the fixture starts to “listen” to the digital control information being sent out from the controller.

This fixture has 3 DMX channel modes, 1, 4 and 9 DMX channels. To set up fixture DMX address, first select DMX channel mode. The highest DMX address for this fixture is 512. To set up fixture DMX starting address, follow the steps below:

- Switch on the fixture, press Menu till “Channel” appears.
- Press “Up” or “Down” button to select 1CH or 4CH or 9CH.
- Press “Enter” to confirm your select.
- Press “Menu” repeatedly to come back to “Address 001”.
- Set up DMX address by scrolling “Up”/” Down” button.
- Press “Enter” to save your setting.

4.2 OLED Display Back Light

OLED display can be set to turn off in 10-30 second or always “On”.

Follow below steps:

- Continue pressing “Menu” till “Back Light” appears.
- Press “Enter” you will see “Always on”, you can scroll up/down to set up how many seconds the OLED display turns off, or always “On”
- Press “Enter” to save your setting.

4.3 Wireless DMX Setup

This fixture can be controlled via wireless DMX system. Users need to pair the fixture to wireless DMX transmitter first.

There is one wireless DMX indicator near the OLED display. This indicator shows status of wireless DMX connection.

| Indicator Status | Description |
|--------------------------|--|
| Blue light on | Fixture receiving wireless DMX signal from transmitter. |
| Blue light slow flashing | Fixture already connected to transmitter, but no signal coming from transmitter. |
| Blue light fast flashing | Fixture no connection to transmitter; fixture keeps. Wireless DMX memory from last pair. |
| Blue light off | Fixture no connection to transmitter, and no any wireless DMX memory. |

4.3.1 Pairing to a New Transmitter

To operate the fixture with wireless DMX, you need to connect your fixtures to a wireless DMX transmitter first.

After fixture is switched on, and if there is no new transmitter, fixture will connect to the initial transmitter automatically, no need to re-pair it.

If your fixture has already worked with other wireless DMX transmitter and now need to work with a new wireless DMX transmitter, you need to erase that wireless DMX memory first before pairing. To clear wireless DMX memory, continue pressing "Menu" till you see "Wireless DMX", press Up/Down to select "Clear" and press "Enter" to clear wireless DMX memory. Then the blue light will turn off in about 5 seconds.

To pair fixture and a new transmitter, after clearing the fixture wireless DMX memory (make sure wireless DMX indicator is Off), press the pairing button on the transmitter, fixture indicator will start to fast flashing and then stay on, this means pairing succeeds.

In optimal conditions, the master unit can operate up to 200m (visible distance) away from the slave units. Please keep obstacles free between fixtures.

Once the fixture has been linked to a specific transmitter, it will remain linked to that unit until it is linked to another one by clearing the initial wireless DMX signal.

4.3.2 Pairing Between Master/Slave Fixtures

Before pairing between master and slave fixtures, make sure you have already cleared wireless DMX memory of the slave fixtures, this mean all slave wireless DMX indicator should be off.

Now continue pressing "Menu" till you see "Wireless DMX", press Up/Down to select "Pairing" and press "Enter". Then the wireless DMX indicator on the master fixture and

all slave fixtures will start fast flashing and then stay on. Now pairing succeeds.

Now you can operate your fixtures wirelessly in Master/Slave mode.

4.3.3 Clear Wireless DMX Memory

To clear wireless DMX signal, continue pressing “Menu” till you see “Wireless DMX”, press Up/Down to select “Clear” and press “Enter” to erase initial wireless DMX signal. Wireless DMX indicator will turn off in 5 seconds.

If your fixture is a master unit (i.e. it is in wireless DMX transmit mode), the wireless DMX memory of both Master unit and Slave units will be erased at the same time.

If your fixture is a slave unit, you cleared wireless DMX memory of that fixture only.

4.4 DMX Signal Fail

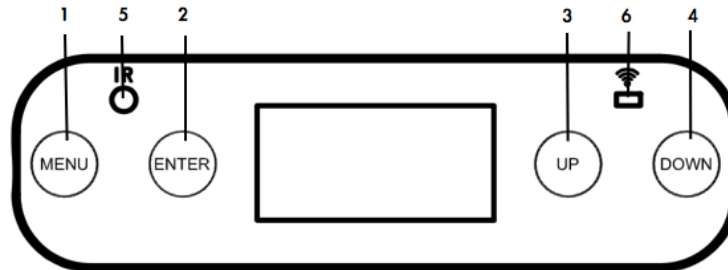
To access the DMX signal fail setting, press the “MENU” button and use the “UP” and “DOWN” buttons to show DMX Fail on the OLED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between “Auto”, “Sound”, “Hold” or “Blackout” mode. Press the “ENTER” button to save your setting.


Press the “MENU” button to exit out of the above options.

5. OPERATION

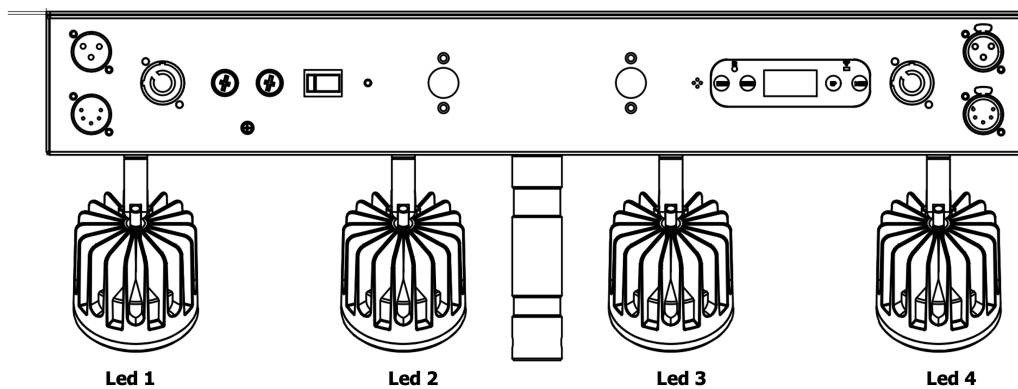
5.1 Fixture Control Panel

There are 4 touch buttons on the OLED control panel: **<MENU>**, **<ENTER>**, **<UP>** and **<DOWN>**.



1. Menu To select the programming functions or exit from current setup.
2. Enter To enter the current menu or confirm the current function value.
3. Up To scroll "UP" through menu list to increase value of current function.
4. Down To scroll "DOWN" through menu list to decrease value of current function.
5. IR Infrared control.
6.  Wireless DMX indicator.

5.2 Menu Map



| Main Menu | Level 1 | Level 2 | Level 3 | Remarks |
|-------------|---------|---------|---------|--------------------|
| DMX Address | 000-512 | | | Select DMX address |
| Channel | 1 CH | | | Channel mode |
| | 4 CH | | | |
| | 9 CH | | | |

| | | | | |
|--------------|----------|-------------|-------|---|
| DMX Fail | Hold | | | DMX fail mode |
| | Sound | | | |
| | Auto | | | |
| | Blackout | | | |
| Custom | Led 1 | 000-255 | | Manually adjust the intensity of each led or for all led. |
| | Led 2 | 000-255 | | |
| | Led 3 | 000-255 | | |
| | Led 4 | 000-255 | | |
| | All led | 000-255 | | |
| | Strobe | 000-255 | | Strobe from slow to fast |
| Program | Auto | 1-22 | | Preset programs |
| | Speed | 1-16 | | Run speed of auto programs |
| | Fade | Yes | | Auto fade after auto program |
| | | No | | |
| | Sound | Sound Mode | 1-22 | Sound control |
| | | Sensitivity | 0-100 | Sound sensitivity adjustment |
| Master/Slave | Master | | | Set up fixture as transmitter |
| | Slave | | | Set up fixture as receiver |
| Wireless DMX | On | | | Master unit (Transmitter) |
| | Off | | | |
| | Pair | | | |
| | Clear | | | |
| | On | | | Slave unit (Receiver) |
| | Off | | | |
| | Clear | | | |
| Run Time | 1h | | | Set up battery lift from 1 hour to 12 hours |
| | 2h | | | |
| | ... | | | |
| | 12h | | | |

| | | | | |
|---------------|-----------|--|--|---------------------------|
| IR | Off | | | IR remote control setting |
| | On | | | |
| Back Light | Always On | | | OLED back light setting |
| | 10s | | | |
| | 20s | | | |
| | 30s | | | |
| Factory Reset | No | | | Factory default setting |
| | Yes | | | |

5.3 DMX Control Mode

This function will allow users to control individual fixture with a standard DMX 512 console. Below is fixture DMX Channel Chart.

1-Channel

| Channel | Function | DMX Value | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1 | All led | 0-255 | 0-100% |

4-Channel

| Channel | Function | DMX Value | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1 | Led 1 | 0-255 | 0-100% |
| 2 | Led 2 | 0-255 | 0-100% |
| 3 | Led 3 | 0-255 | 0-100% |
| 4 | Led 4 | 0-255 | 0-100% |

9-Channel

| Channel | Function | DMX Value | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1 | Led 1 | 0-255 | 0-100% |
| 2 | Led 2 | 0-255 | 0-100% |
| 3 | Led 3 | 0-255 | 0-100% |
| 4 | Led 4 | 0-255 | 0-100% |

| | | | |
|---|---|---------|---|
| 5 | Strobe | 0-255 | 0-100% |
| 6 | Auto/Sound programs (Each auto/sound program) | 0-34 | No function |
| | | 35-54 | Auto program 1 / Sound 1 |
| | | 55-74 | Auto program 2 / Sound 2 |
| | | 75-114 | Auto program 3 / Sound 3 |
| | | 115-134 | Auto program 4 / Sound 4 |
| | | 135-154 | Auto program 5 / Sound 5 |
| | | 155-174 | Auto program 6 / Sound 6 |
| | | 175-194 | Auto program 7 / Sound 7 |
| | | 195-214 | Auto program 8 / Sound 8 |
| | | 215-234 | Auto program 9 / Sound 9 |
| | | 235-255 | Auto program 10 / Sound 10 |
| 7 | Auto speed | 0-255 | From slow to fast |
| 8 | Program mode | 000-127 | Auto program (Channel 8 will run in auto mode) |
| | | 128-255 | Sound program (Channel 8 will run in sound mode) |
| 9 | Fade | 000-127 | Snap function (Channel 8 will activate snap function) |
| | | 128-255 | Fade function (Channel 8 will activate fade function) |

5.4 Master/Slave Mode

The fixture has a built-in wireless DMX transceiver inside. Fixtures can operate Master/Slave mode wirelessly or with physical XLR cable linking. In Master/Slave mode, one fixture will work as Master fixture, other fixtures in the daisy chain will work in synchronization with the Master fixture.

Continue pressing “Menu” till “Mast/Slave” appears, scroll “Up” or “Down” to set up one fixture as Master unit. Then press “Enter”, the master unit will start to pair all slave units automatically. Wireless DMX indicator keeps flashing during paring time. Wireless DMX indicator keeps On if pairing succeeds.

5.5 Custom Mode

Users are allowed to program their own color effects and save to your fixture in “Custom” mode.

Press “Menu” button until you see “Custom”. Scroll “UP” or “DOWN” to select Led pod, then press “Enter” to confirm the selection. Now press “UP” or “DOWN” to set color intensity. Press “ENTER” to save your setting. Press “MENU” to exit from current setup.

When fixture is switched off and then on again, the fixture will go back to what it was set at.

5.6 Auto Run Mode

The fixture has preset color mixing and fading programs that can be activated from the OLED control panel for auto running. To access this, follow below steps:

- Press button “Menu” until “Program” appears.
- Press “Up” or “Down” to scroll up/down to select “Auto”.
- Press “Enter” to confirm your run mode。
- Scroll “Up” or “Down” to select Auto program.

5.7 Sound Mode

The fixture can operate at sound mode to activate built-in programs with music.

Continue pressing “Menu” till “Program” appears. Press “Up” or “Down” to scroll up/down to select “Sound”. Press “Enter” to save the setting.

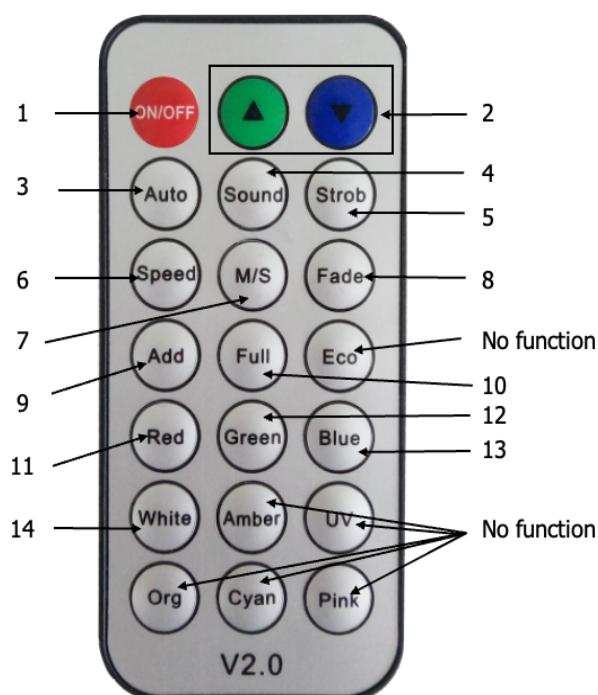
Press “Up” or “Down” to adjust sound sensitivity from high to low (from 1 to 100).

5.8 IR Remote Control

This operation mode allows users to control the fixture with an infrared remote controller.

To control your fixture with IR controller, please set up Wireless DMX to “Off”.



To activate IR remote control, press “Menu” until “IR” appears, press “Up” or “Down” button and select “On”. Press “Enter” to save the setting.



To control the fixture with this IR remote controller, make sure to point the controller directly to the IR receiving sensors on the product. Make sure there are no objects between the controller and the fixture.



1 - Set the fixture into blackout (LED on/off).

2 - Adjust auto, strobe & fade speed, sound sensitivity, DMX address, DMX channel, brightness etc.

3 - Run auto mode, use "Speed" button followed by the   buttons to adjust auto speeds.





4 - Run sound program, use   buttons to adjust sound sensitivity.



5 - Run strobe program, use   buttons to adjust strobe speed.

6 - Set auto/fade speed, Press this button followed by   buttons to adjust program speed.

7 - Set the fixture into master or slave mode.

8 - Run fade mode. Use "Speed" button followed by   buttons to adjust fade speed.

9 - Set DMX address. Press this button followed by   to set up DMX address. Press this button again followed by   to select DMX channel.

10 - Set the fixture in full brightness. Press this button followed by   buttons to adjust brightness.

11 - Button for Led 1.

12 - Button for Led 2.

13 - Button for Led 3.

14 - Button for Led 4.

6. MAINTENANCE

The operator has to make sure that the safety-related and machine-technical installations are to be inspected by an expert once a year in the course of an acceptance test.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- Make sure connections are clean and totally dry before linking equipments or supplying electric power.
- All screws used for installing the fixture or parts of the fixture have to be tightly connected and must not be corroded.

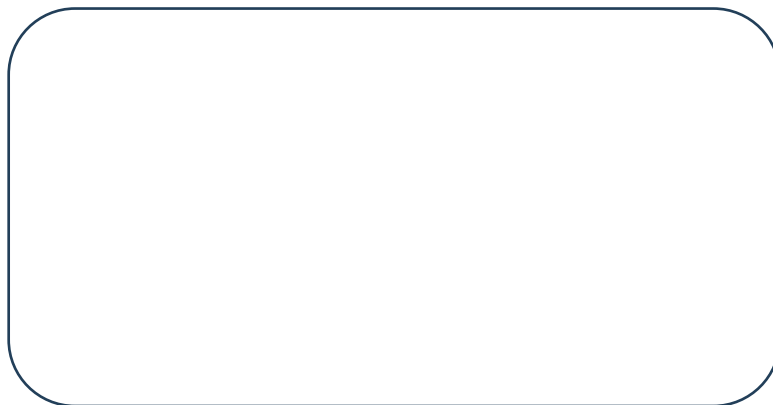
The fixture has optical lenses; users should clean the lenses periodically to optimize light output. The cleaning frequency depends on the environment in which the curtain system is installed. Damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the lenses. Even in a clean type of surroundings, it is suggested to clean the lens and housing at least once a month. It is suggested to use a soft cloth using normal glass cleaning fluid.

The following points have to be considered during the maintenance:

- Switch off the fixture before cleaning.
- Clean the lens with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint free cotton cloth or a lens cleaning tissue.

Luminus PinSpot

WDMX



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