EQUINOX

FUSION SPOT MAX MKII
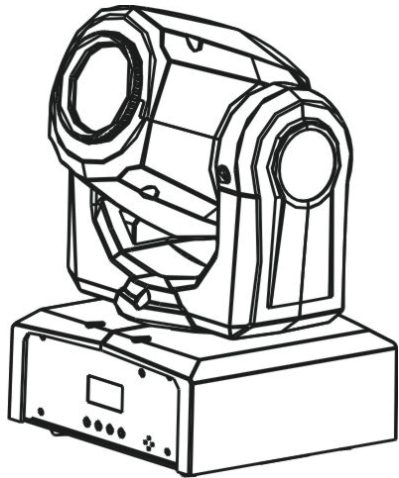
Contents

User Manual

Order codes:

Black housing - EQLED007

White housing - EQLED007A

1. <mark>Safety Instruction</mark>

⚠️

WARNING

Please read the instructions carefully as they include important information about installation, usage and maintenance.

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

Unpack and check carefully that there is no transportation damage before using the unit.

- Before operating, ensure that the voltage and frequency of the 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.
- The unit is for indoor use only. Use only in a dry location.
- 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.
- Disconnect the mains power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as they may cause a fire hazard.
- Always use a safety cable when installing this unit. Do not carry the unit with its head only; always carry it using the base.
- The maximum ambient temperature is: 40°. Don't operate it where the temperature is higher than this.
- In the event of a serious operating problem stop using the unit immediately. 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. Always use the same type spare parts.

- Do not touch any power cables during operation as the high voltage may cause an electric shock.

Warning

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
  Do not open the unit within five minutes after switching off.
- The housing and lenses must be replaced if they are visibly damaged.
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- WARRANTY: One year from date of purchase.

Installation

The unit should be mounted via its screw holes onto the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Make sure that the structure to which you are attaching the unit to is secure and is able to support a weight of 10 times of the unit's weight. Always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be installed by professionals and it must be installed in a place where is out of the reach of people and no one can pass by or under it.

Control: Sound active, Auto, Master/slave and DMX-512 modes

DMX Channels: 1CH/8CH/10CH

Gobos: 7 Gobos + open

Colors: 7 Colors + Open

Electronic dimming: 0-100%

Compact size and light-weight

Voltage:	100V~240V, 50/60Hz
Fuse:	T2.5A 250V
Power consumption:	60W
Light source:	1 x 30W white LED
Dimension:	159 x 147 x 265mm
Weight:	2.6 kg
Pan/Tilt:	540°/270°
Power sockets:	IEC power input
XLR sockets:	3-Pin XLR input/output

3. How To Set The Unit
3.1 Control panel
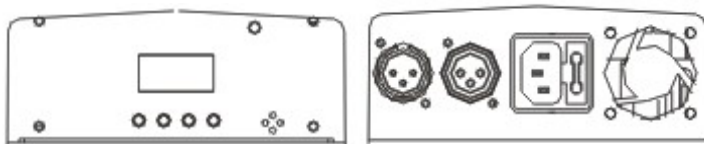
Display

Shows the various menus and selected functions

Buttons

MENU	Selects the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	Confirms the selected functions

Mains input

Connection to the power supply.

DMX input/output

For DMX 512 linking. Use a 3-pin XLR cables to link to the controller or to other units.

3.2 Main Functions

To select any of the given functions, press the **MENU** button up to where the required function is showing on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the mode. Once the required mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes, press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

The main functions are as below:

	ADDR	001-512
	CHND	1CH/8CH/10CH
Menu		MAST
	SLMD	SL1
		SL2

SHND	SH1
	SH2
	SH3
	SH4
SOUN	ON
	OFF
SENS	000-100
LED	ON
	OFF
DISP INVERT	
PAN INVERT	YES
	NO
TILT INVERT	YES
	NO
TEST	Self-Test
VER	Software Version
RSET	RSET

⌑Addr⌑ DMX Address Setting

Press the **MENU** button to select ⌑Addr⌑. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to choose the address to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

⌑ChNd⌑ Channel Mode

Press the **MENU** button to select ⌑ChNd⌑. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the ⌑1Ch⌑ (1 Channel) mode, ⌑8Ch⌑(8 Channel) mode or ⌑10Ch⌑(10 Channel) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

⌑NASt⌑ Master Mode or ⌑SLNd⌑ Slave Mode

Press the **MENU** button to select ⌑SLNd⌑. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the ⌑SL 1⌑ (Slave 1), ⌑SL 2⌑ (Slave 2) or ⌑NASt⌑ (Master) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

⌑ShNd⌑ Show Mode

Press the **MENU** button to select ⌑ShNd⌑. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the ⌑Sh 1⌑ (show 1) or ⌑Sh 2⌑ (show 2) or ⌑Sh 3⌑ (show 3) or ⌑Sh 4⌑ (show 4) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

⌑SOUn⌑ Sound Mode

Press the **MENU** button to select ⌑SOUn⌑. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the

on (sound on) or **oFF** (sound off) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

SEnS Sound Sensitivity

Press the **MENU** and use the **UP** and **DOWN** buttons to select **SEnS** and select the sound sensitivity between value 0 and 100. Press the ENTER button for confirmation after value selection. To go back to the functions without any changes press the **MENU** button again.

LEd Led Display

Press the **MENU** button to select **LEd**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **no** (Led display on) or **oFF** (Led display off) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

dS IP Display Inversion

Press the **MENU** button to select **dS IP**. Press the **ENTER** button to change the mode **dS IP** (display normal), it will be automatically saved after 8 seconds. Press the **ENTER** button again to select the mode **dS IP** (display inversion). To go back to the functions press the **MENU** button. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

dISP Display normal mode is for floor standing the unit.
dS IP Display inversion mode is for hanging the unit upside down.

P.An Pan Inversion

Press the **MENU** button to select **P.An**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **no** (normal) or **YES** (pan inversion) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

tILt Tilt Inversion

Press the **MENU** button to select **tILt**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **no** (normal) or **YES** (tilt inversion) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

tESt Auto-Test

Press the **MENU** button to select **tESt**. Press the **ENTER** button and the unit will run a self-test with its built-in programs. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.
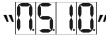
u͟8͟r͟ Software version

Press the **MENU** button up to when the u͟8͟r͟ is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button.

r͟5͟8͟t͟ Reset

Press the **MENU** button to select r͟5͟8͟t͟. Press the **ENTER** button and all channels of the unit will return to their standard position.

4. How To Control The Unit

1. Master/slave built-in preprogram function
2. Universal DMX controller

There is no need to turn the unit off when you change the DMX address as new DMX address setting will take effect at once. Every time you turn the unit on, it will show "n͟5͟.͟10͟"on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive a DMX signal or run the built in programs.

4.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit as master and select **show 1**, **show 2**, **show 3** or **show 4** from the **Show Mode**. The other unigts must be set to either **Slave 1** (normal) or **Slave 2** (2 light show) mode. A DMX cable between the units for daisy chaining is needed.

2-light show

In **slave mode**, **Slave 1** means the unit works normally and **Slave 2** means 2-light show. In order to create a great light show, you can set **Slave 2** on the second unit to get contrast movement to each other, even if you have two units only.

4.2 DMX Controller

By using a universal DMX controller to control the units, you will need to set a DMX address from 1 to 512 so that the units can receive a DMX signal. Press the **MENU** button until A͟d͟d͟r͟ is showing on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the DMX-512 address. Once the address has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button one second or wait for one minute to go back to the main menu.

Please refer to the below diagram to address your first 4 units :

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
1 channel	1	2	3	4
8 channel	1	9	17	25
10 channel	1	11	21	31

4.3 DMX 512 Configuration

1 CHANNEL MODE

Channel	Function	Value
1	Blackout	000-007
	Show 1	008-067
	Show 2	068-127
	Show 3	128-187
	Show 4	188-247
	Random shows	248-255

8 CHANNEL MODE

Channel	Function	Value	Percent / Setting
1	Pan	000-255	Pan 0°~ 540°
2	Tilt	000-255	Tilt 0°~ 270°
3	Colour	000-007	White
		008-014	Light Blue
		015-021	Pink
		022-028	Orange
		029-035	Green
		036-042	Blue
		043-049	Yellow
		050-056	Red
		057-127	Split colors
		128-189	Color Scroll Fast to Slow
		190-193	Stop
		194-255	Color Scroll Slow to Fast

Channel	Function	Value	Setting
4	Gobo	000-007	Gobo 1 (Open)
		008-015	Gobo 2
		016-023	Gobo 3
		024-031	Gobo 4
		032-039	Gobo 5
		040-047	Gobo 6
		048-055	Gobo 7
		056-063	Gobo 8
		064-071	Gobo 1 Shake
		072-079	Gobo 2 Shake
		080-087	Gobo 3 Shake
		088-095	Gobo 4 Shake
		096-103	Gobo 5 Shake
		104-111	Gobo 6 Shake
		112-119	Gobo 7 Shake
		120-127	Gobo 8 Shake
		128-189	Gobo Scroll, Fast to Slow
		190-193	Stop
		194-255	Gobo Scroll , Slow to Fast
		120-127	Gobo 8 Shake
		128-189	Gobo Scroll, Fast to Slow
		190-193	Stop
		194-255	Gobo Scroll , Slow to Fast
5	Shutter	000-007	Close
		008-015	Open
		016-131	Strobe Slow->Fast
		132-139	Open
		140-181	Fast Close Slow Open
		182-189	Open
		190-231	Fast Open Slow Close
		232-239	Open
		240-247	Random Strobe
		248-255	Open
6	Pan/Tilt Speed	000-255	Fast -> Slow

Channel	Function	Value	Percent / Setting
7	Function	000-069	Null
		070-079	Blackout while Pan/Tilt Move
		080-089	Null
		090-099	Blackout when Color changes
		100-109	Null
		110-119	Blackout when Gobo changes
		120-199	Null
		200-209	Reset All
		210-249	Null
		250-255	Sound Active
8	Dimmer	000-255	0~100%

10 CHANNEL MODE

Channel	Function	Value	Percent / Setting
1	Pan1	000 - 255	Pan 0°~ 540°
2	Pan Fine	000 - 255	0~100%
3	Tilt	000-255	Tilt 0°~ 270°
4	Tilt Fine	000-255	0~100%
5	Colour	000-007	White
		008-014	Light Blue
		015-021	Pink
		022-028	Orange
		029-035	Green
		036-042	Blue
		043-049	Yellow
		050-056	Red
		057-127	Split colors
		128-189	Color Scroll Fast to Slow
		190-193	Stop
		194-255	Color Scroll Slow to Fast
6	Gobo	000-007	Gobo 1 (Open)
		008-015	Gobo 2
		016-023	Gobo 3
		024-031	Gobo 4
		032-039	Gobo 5
		040-047	Gobo 6
		048-055	Gobo 7
		056-063	Gobo 8
		064-071	Gobo 1 Shake
		072-079	Gobo 2 Shake
		080-087	Gobo 3 Shake
		088-095	Gobo 4 Shake
		096-103	Gobo 5 Shake
		104-111	Gobo 6 Shake
		112-119	Gobo 7 Shake
		120-127	Gobo 8 Shake
		128-189	Gobo Scroll, Fast to Slow
		190-193	Stop
		194-255	Gobo Scroll , Slow to Fast
7	Shutter	000-007	Close
		008-015	Open
		016-131	Strobe Slow->Fast
		132-139	Open
		140-181	Fast Close Slow Open
		182-189	Open
		190-231	Fast Open Slow Close
		232-239	Open
		240-247	Random Strobe
		248-255	Open
8	Pan/Tilt Speed	000-255	Fast -> Slow
9	Function	000-069	Null
		070-079	Blackout while Pan/Tilt Move
		080-089	Null
		090-099	Blackout when Color changes
		100-109	Null
		110-119	Blackout when Gobo changes
		120-199	Null
		200-209	Reset All
		210-249	Null
		250-255	Sound Active
10	Dimmer	000-255	0~100%

4.Troubleshooting

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

A. The unit does not work, no light and the fan does not work
  1. Check the connection of the power and the main fuse.

B. Not responding to DMX controller
  1. DMX LED should be on. If not, check DMX cables to see if linked correctly.
  2. If the DMX address is showing but no response to the controller, check the address settings and DMX polarity.
  3. Try another DMX controller.

C. No response to the sound
  1. Make sure the unit is not receiving a DMX signal.
  2. Check the microphone to see if it is good by tapping it. The microphone is located on the bottom plate of the unit.

5. Fixture Cleaning

The cleaning of external optical lenses 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 a greater accumulation of dirt on the unit's optics.

Clean with a soft cloth using normal glass cleaning fluid or mild soapy water.

• Always dry the parts carefully.
• Clean the external optics at least every 20 days.