EQUINOX
SLENDER BEAM BAR QUAD
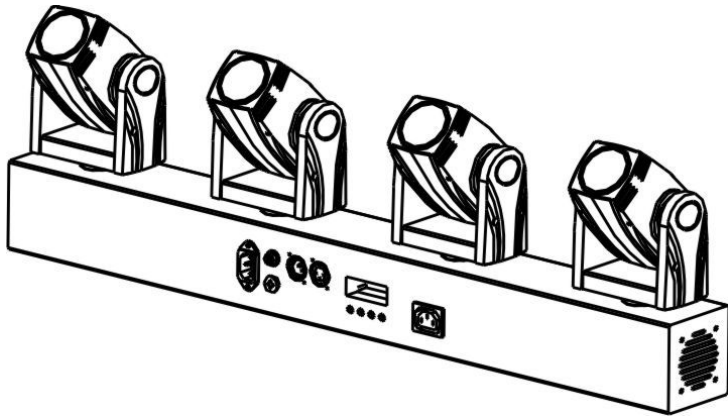
Contents

User Manual
EQLED020

⚠

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.

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 and CA-8 modes
◇ DMX Channels: 1CH/6CH/12CH/14CH/27CH
◇ Electronic dimming: 0-100%
◇ Compact size with a high output

Voltage:	100V~240V, 50/60Hz
Fuse:	T 6.3A
Power consumption:	85W
Light source:	4 x 10W quad colour LED
Dimension:	808 x 89 x253mm
Weight:	7.5 kg
Pan/Tilt:	540°/270°
Power sockets:	IEC IN/OUT
XLR sockets:	3-pin XLR IN/OUT

3. How To Set The Unit

3.1 Control panel
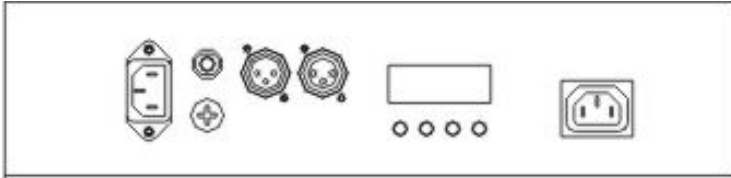
Display

Shows the various menus and selected functions

Button

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:

Menu	ADDR	001-512
	CHMD	1CH/6CH/12CH/14CH/27CH
	SLMD	MAST
		SL1
		SL2
	SHMD	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
	FHRS	Fixture hours 0 ~ 9999
	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.

[ChMd] Channel Mode

Press the **MENU** button to select [ChMd]. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the [1Ch] (1 Channel) or [6Ch] (6 Channel) or [12Ch] (12 Channel) or [14Ch] (14 Channel) or [27Ch] (27Channel)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.

[MaSt] Master Mode or [SLMd] Slave Mode

Press the **MENU** button to select [SLMd]. 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 [MaSt] (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.

[ShMd] Show Mode

Press the **MENU** button to select [ShMd]. 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 [on]

(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.

⌐dS1P⌐ Display Inversion

Press the **MENU** button to select ⌐dS1P⌐. Press the **ENTER** button to change the mode ⌐dS1P⌐ (display normal), it will be automatically saved after 8 seconds. Press the **ENTER** button again to select the mode ⌐dS1P⌐ (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.

⌐d1SP⌐ Display normal mode is for floor standing the unit.

⌐dS1P⌐ Display inversion mode is for hanging the unit upside down.

⌐PAn⌐ Pan Inversion

Press the **MENU** button to select ⌐PAn⌐. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the ⌐on⌐ (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.

⌐t1Lt⌐ Tilt Inversion

Press the **MENU** button to select ⌐t1Lt⌐. 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.

⌐FhrS⌐ Fixture Hours

Press the **MENU** button up to when the ⌐FhrS⌐ is showing on the display. Press the **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button.

⌐uEr⌐ Software version

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

rSEt **Reset**

Press the **MENU** button to select **rSEt**. 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 be effected at once. Every time you turn the unit on, it will show "**n4FC**" 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 units 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 CA-8 Controller

Your Slender Beam Quad Bar can be controlled using the optional CA-8 easy controller (order code CONT10)

BLACKOUT: The fixture can be blacked out by pressing the STANDBY button. To turn the fixture back on simply press the STANDBY button again.

MODE (LED OFF): In this mode repeated pressing of the FUNCTION button will trigger the movement of the heads without any music playing.

MODE (LED FULL ON): In this mode by pressing the FUNCTION button you can scroll through the four built-in light shows.

MODE (LED SLOW FLASHING): In this mode you can select the speed of the auto movements. Nine speeds are available (slow>fast)

MODE (LED FAST FLASHING): In this mode you can select the colour of the heads. Fifteen colours are available.

4.3 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 **Addr** 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
6channel	1	7	13	19
12channel	1	13	25	37
14channel	1	15	29	43
27channel	1	28	55	82

4.3 DMX 512 Configuration

1 CHANNEL MODE:

Channel	Function	Value
1	Show mode	000-007 0 008-022 Movement 01 023-037 Movement 02 038-052 Movement 03 053-067 Movement 04 068-082 Movement 05 083-097 Movement 06 098-112 Movement 07 113-127 Movement 08 128-142 Movement 09 143-157 Movement 10 158-172 Movement 11 173-187 Movement 12 188-202 Movement 13 203-217 Movement 14 218-232 Movement 15 233-247 Movement 16 248-255 Sound active

6CHANNEL MODE

Channel	Function	Value
1	Dimmer	0-255 Dimmer 0%-100%
2	Strobe	0-007 open
		008-255 Strobe Slow>Fast
3	Pan/Tilt Movement	000-007 Movement 0
		008-022 Movement 01
		023-037 Movement 02
		038-052 Movement 03
		053-067 Movement 04
		068-082 Movement 05
		083-097 Movement 06
		098-112 Movement 07
		113-127 Movement 08
		128-142 Movement 09
		143-157 Movement 10
		158-172 Movement 11
		173-187 Movement 12
		188-202 Movement 13
		203-217 Movement 14
		218-232 Movement 15
		233-247 Movement 16
		248-255 Sound active
4	Movement Speed	000-255 slow to fast
5	Color Chase	000 - 014 color
		015 - 255 Color Chase
6	Chase Speed	000 - 255 slow to fast

12 CHANNEL MODE

Channel	Function	Value
1	Pan1	000 - 255 Pan 0°~ 540°
2	Tilt1	000 - 255 Tilt 0°~ 270°
3	Color1	000 - 007 Blackout 008 - 024 R 025 - 041 G 042 - 057 B 058 - 074 W 075 - 090 R + G 091 - 107 R + B 108 - 123 R + W 124 - 140 G + B 141 - 156 G + W 157 - 173 B + W 174 - 189 R + G + B 190 - 206 R + G + W 207 - 222 R + B + W 223 - 239 G + B + W 240 - 255 R + G + B + W
4	Pan2	000 - 255 Pan 0°~ 540°
5	Tilt2	000 - 255 Tilt 0°~ 270°
6	Color2	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
7	Pan3	000 – 255 Pan 0°~ 540°
8	Tilt3	000 – 255 Tilt 0°~ 270°
9	Color3	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
10	Pan4	000 - 255 Pan 0°~ 540°
11	Tilt4	000 - 255 Tilt 0°~ 270°
12	Colo4	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W

14 CHANNEL MODE

Channel	Function	Value
1	Dimmer	000 - 255 0%~ 100%
2	Strobe	000-007 Open 008-255 (Speed 0 - 100%)
3	Pan1	000 - 255 Pan 0°~ 540°
4	Tilt1	000 - 255 Tilt 0°~ 270°
5	Color1	000 - 007 Blackout 008 - 024 R 025 - 041 G 042 - 057 B 058 - 074 W 075 - 090 R + G 091 - 107 R + B 108 - 123 R + W 124 - 140 G + B 141 - 156 G + W 157 - 173 B + W 174 - 189 R + G + B 190 - 206 R + G + W 207 - 222 R + B + W 223 - 239 G + B + W 240 - 255 R + G + B + W
6	Pan2	000 - 255 Pan 0°~ 540°
7	Tilt2	000 - 255 Tilt 0°~ 270°
8	Color2	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
9	Pan3	000 – 255 Pan 0°~ 540°
10	Tilt3	000 – 255 Tilt 0°~ 270°
11	Color3	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
12	Pan4	000 - 255 Pan 0°~ 540°
13	Tilt4	000 - 255 Tilt 0°~ 270°
14	Color4	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W

27 CHANNEL MODE

Channel	Function	Value
1	Dimmer	000 - 255 0%~ 100%
2	Strobe	000-007 Open 008-255 (Speed 0 - 100%)
3	Pan1	000 - 255 Pan 0°~ 540°
4	Pan fine 1	000 - 255
5	Tilt1	000 - 255 Tilt 0°~ 270°
6	Tilt fine 1	000 - 255
7	Pan Tilt speed1	000 – 255 fast to slow
8	Color1	000 - 007 Blackout 008 - 024 R 025 - 041 G 042 - 057 B 058 - 074 W 075 - 090 R + G 091 - 107 R + B 108 - 123 R + W 124 - 140 G + B 141 - 156 G + W 157 - 173 B + W 174 - 189 R + G + B 190 - 206 R + G + W 207 - 222 R + B + W 223 - 239 G + B + W 240 - 255 R + G + B + W
9	Pan2	000 - 255 Pan 0°~ 540°
10	Pan fine 2	000 - 255
11	Tilt2	000 - 255 Tilt 0°~ 270°
12	Tilt fine 2	000 - 255
13	Pan Tilt speed2	000 – 255 fast to slow
14	Color2	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
15	Pan3	000 – 255 Pan 0°~ 540°
16	Pan fine 3	000 – 255
17	Tilt3	000 – 255 Tilt 0°~ 270°
18	Tilt fine 3	000 – 255
19	Pan Tilt speed3	000 – 255 fast to slow
20	Color3	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
21	Pan4	000 - 255 Pan 0°~ 540°
22	Pan fine 4	000 - 255
23	Tilt4	000 - 255 Tilt 0°~ 270°

24	Tilt fine 4	000 - 255
25	Pan Tilt speed4	000 – 255 Fast to slow
26	Color4	000 – 007 Blackout 008 – 024 R 025 – 041 G 042 – 057 B 058 – 074 W 075 – 090 R + G 091 – 107 R + B 108 – 123 R + W 124 – 140 G + B 141 – 156 G + W 157 – 173 B + W 174 – 189 R + G + B 190 – 206 R + G + W 207 – 222 R + B + W 223 – 239 G + B + W 240 – 255 R + G + B + W
27	Special Function	000-199 No function 200-209 Reset 210-239 No function 240-255 Stand-alone

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. 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.