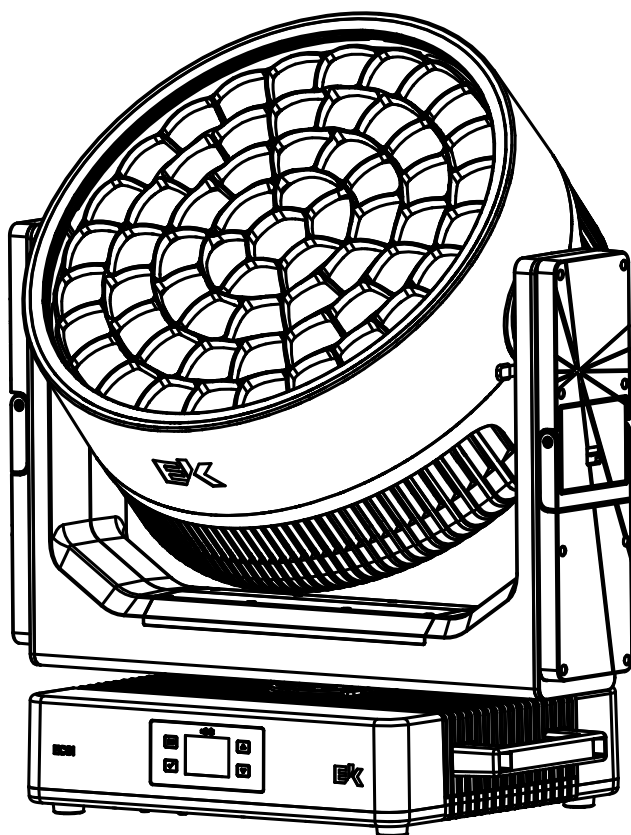




EC 60

USER MANUAL

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WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



1. SAFETY

General instruction

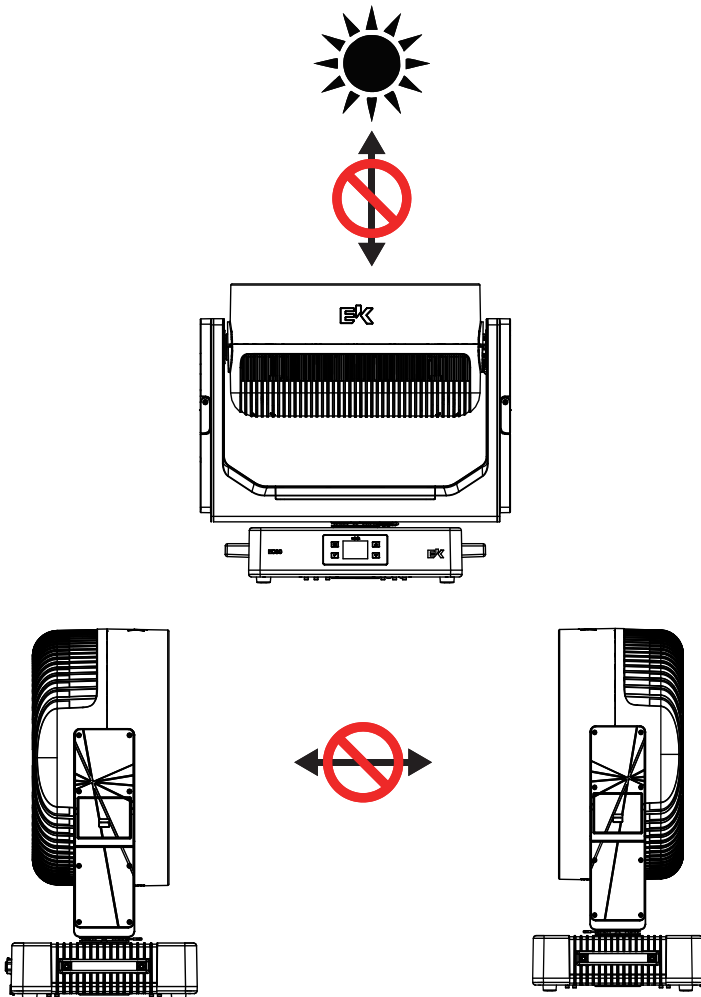
- The products referred to in this manual conform to the European Community Directives and are therefore marked with **CE**.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

- Do not expose the front of a fixture to sunlight or any other strong light source.
Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front face of any fixture is shielded or points away from the sun, even when not in use.
- Do not expose the product to heat (from other lighting fixtures for example).



2. INTRODUCTION

2.1 FEATURES

- 61 x 50W RGBWW LED
- Up to 50000 lumens output
- Linear CCT: 2800K ~ 10000K
- Zoom range: 3.9° ~ 35.5°
- Exquisite color rendering: CRI > 93, R9 > 90
- ultra-linear 22-bit dimming for flick-free output
- Rugged IP66 tour-graded construction

2.2 SPECIFICATION

Light Source: 61*50W RGBWW LED

Colour Temperature: 2500K-8000K

Output:>49000LM

CRI>90

LED Life: 30000H

PAN:540°

TILT:210°

Beam angle: 3.9°-35.5°

Field angle: 5.6°-50°

Strobe:1-30HZ

Dimming: 4 dimming curves , 22Bit

Power supply: 200 ~ 240VAC (50/60HZ) 3600W

Protocol: DMX512/RDM/sACN/Artnet/CRMX/Bluetooth/APP/NFC

DMX channel:16CH/31CH/34CH

Ambient: -10 ~ 45 °C

Cooling: Aluminium heat sink with fan

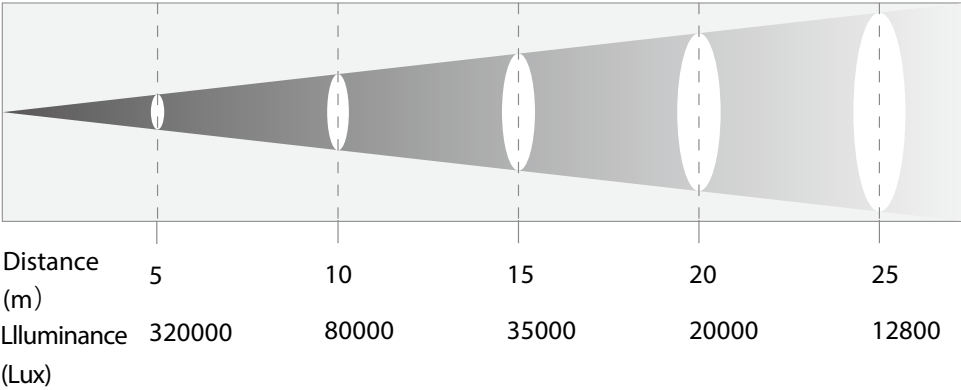
Dimension: 679*398*655mm

Weight: 60.2Kg

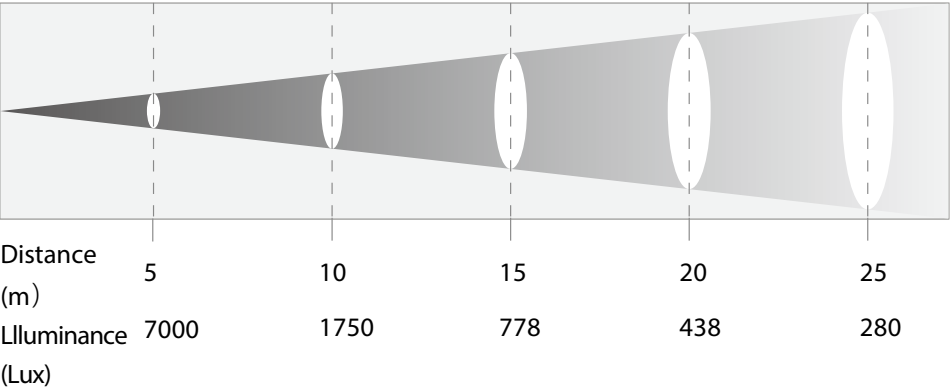
IP Rating: IP66

3. PHOTOMETRICS

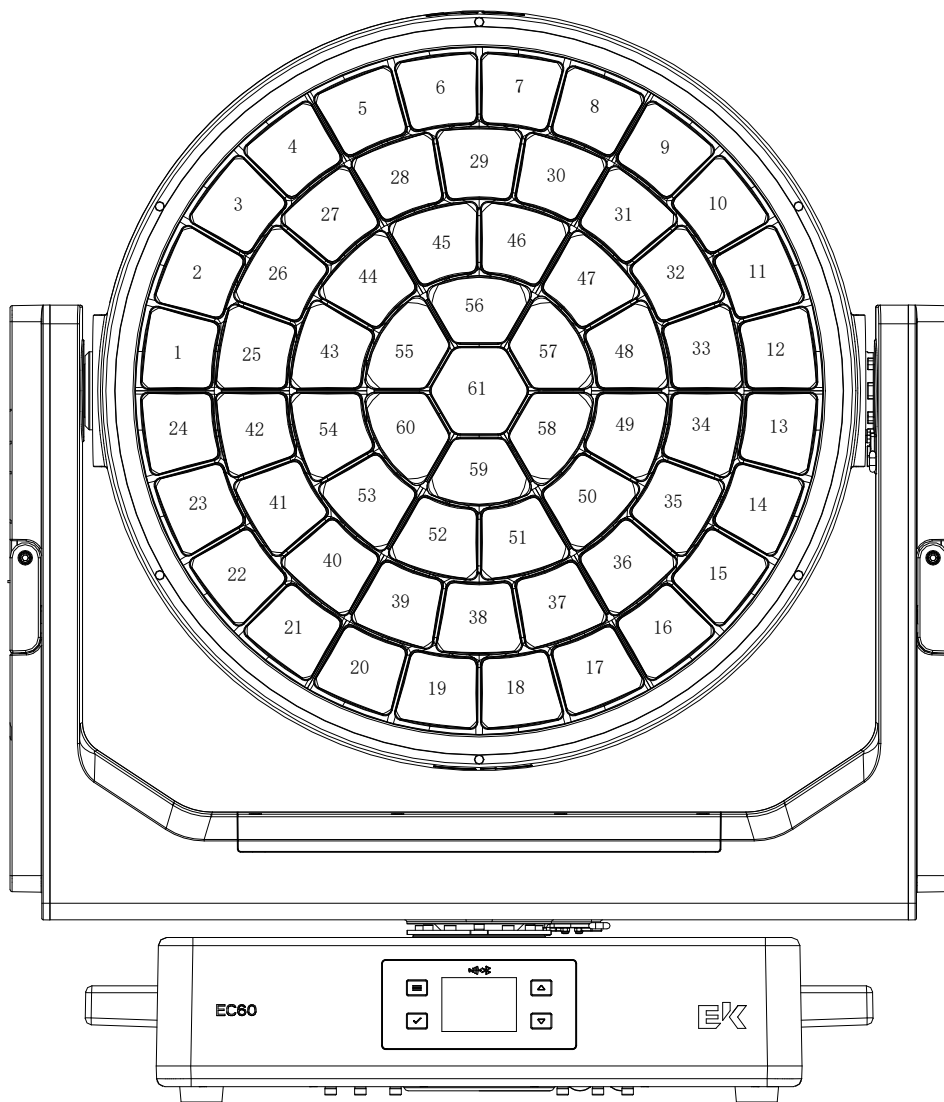
Beam Angle 3.9°



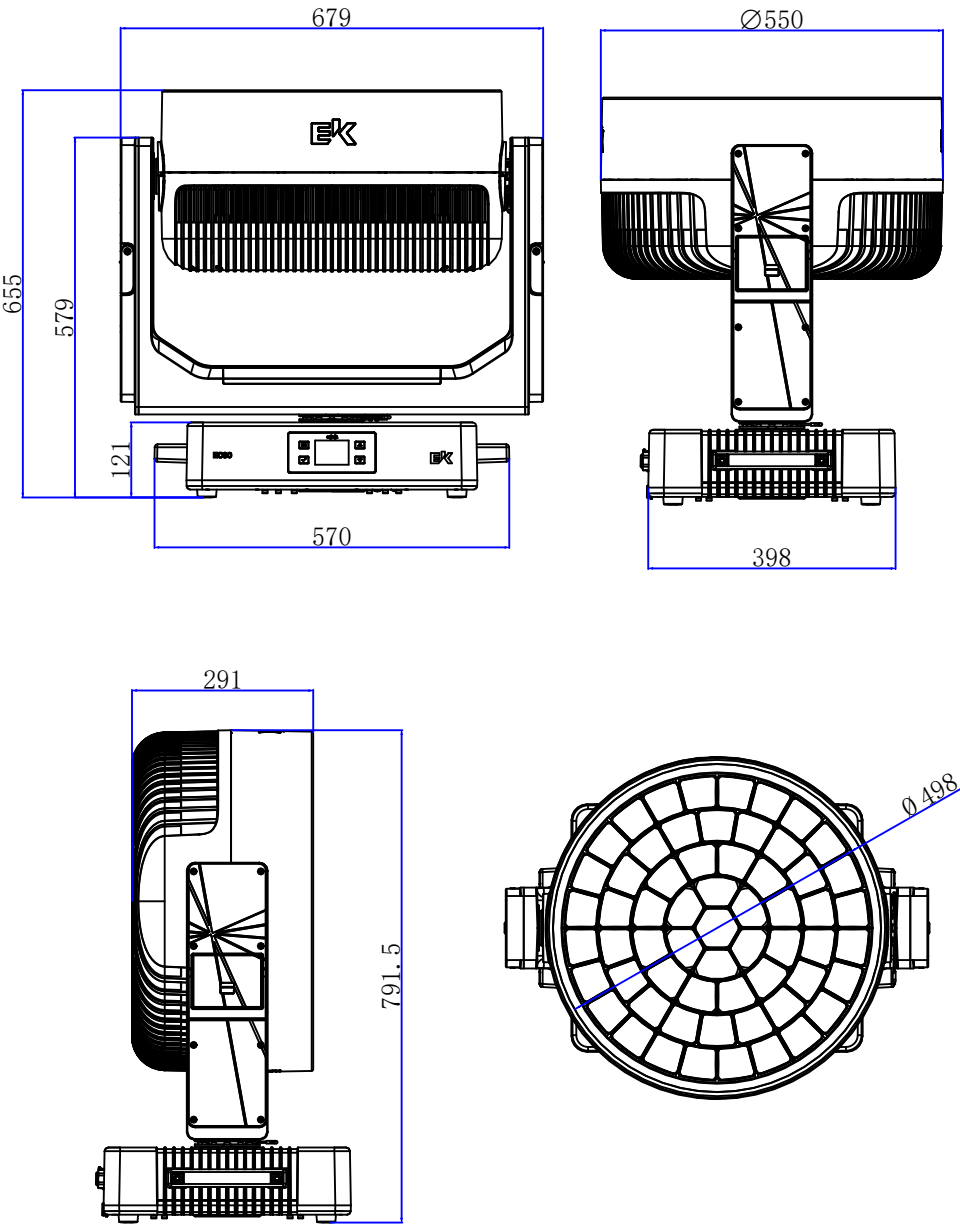
Beam Angle 35.5°



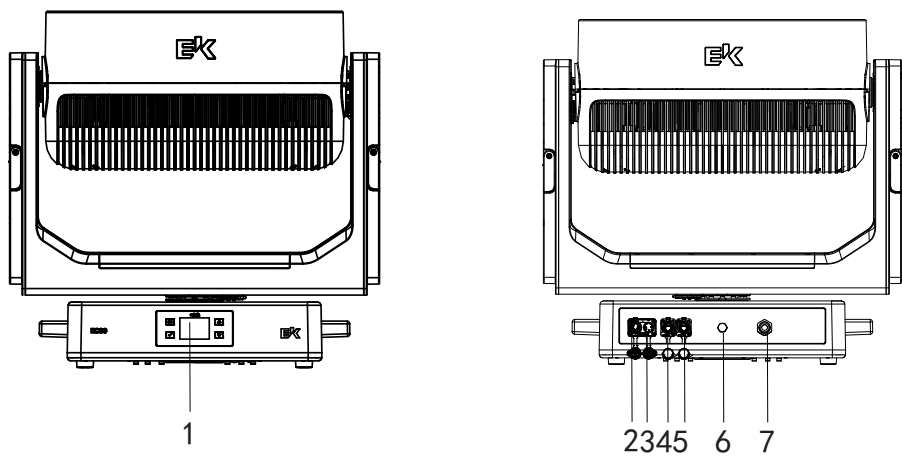
4. PIXEL MAPPING



5. DIMENSION



6. OVERVIEW



- 1. LCD Display 2.DMX In 3.DMX Out
- 4. RJ45 In 5.RJ45 Out 6.Breath Valve
- 7.Power In

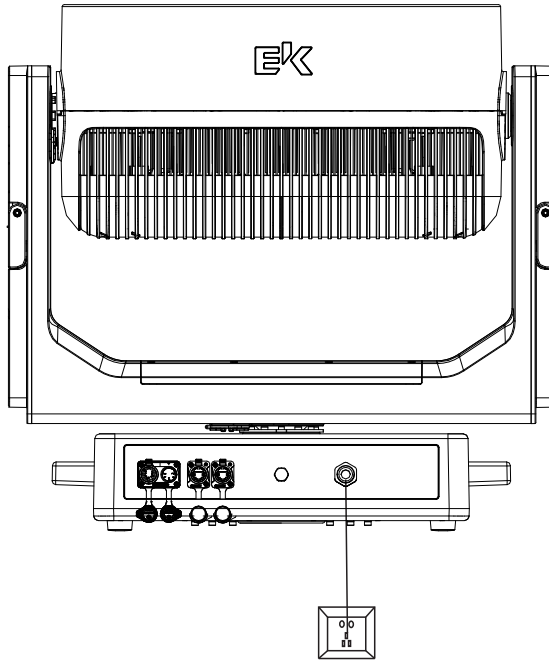
Control Panel	Illustration	Description	Effect
MODE	Menu Option	Enter Menu	Menu Operation
UP	Up	Scroll Up	Increase Numeric Value
DOWN	Down	Scroll Down	Decrease Numeric Value
√	Confirm	Confirm	Save Setting

If you want to flip the display, hold UP + DOWN buttons for 3seconds to set display orientation.

Without external power source, long press the right button for 3 seconds, enter the menu to set parameters.

7. CONNECTION

7.1 Power Connection



Power In

Connect 4 mm² Power cable with PowerCon In to mains.

Attention:

Due to the power rating, one power cable can connect 1 unit maximum.

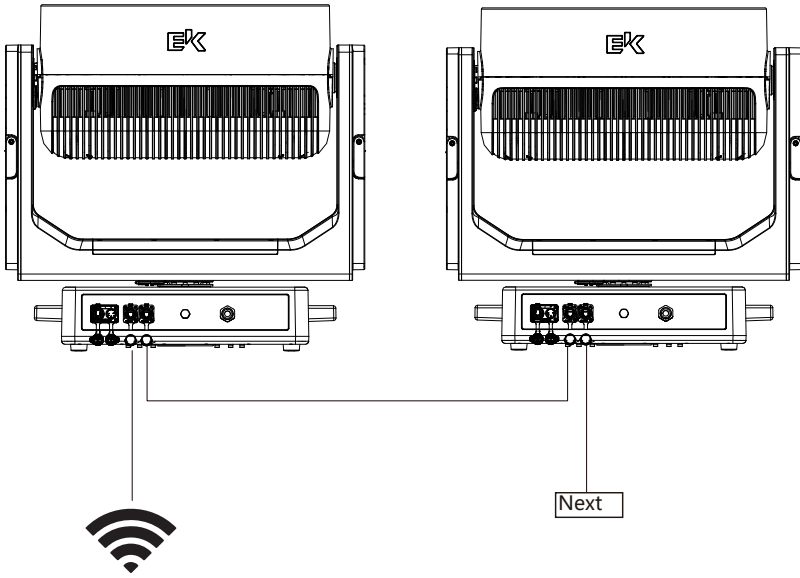


Do not connect more than 1 unit in series with one power cable

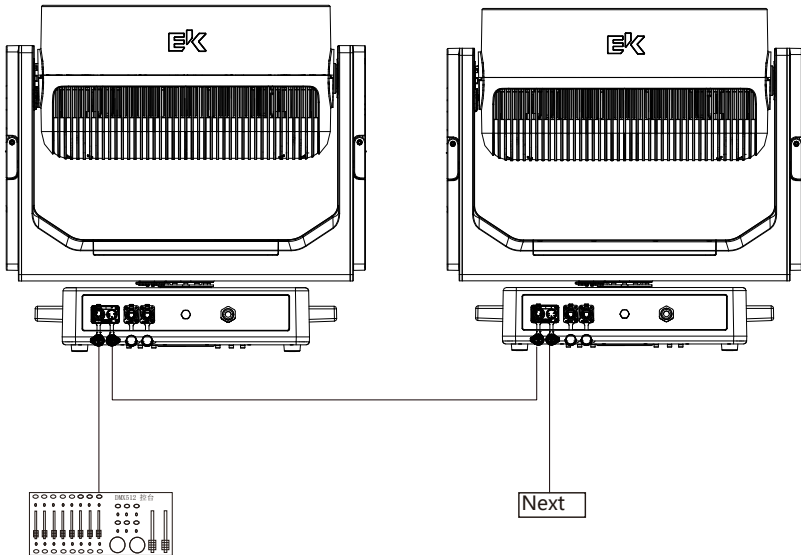
Do not use damage power cable

Power off the fixture when not in use

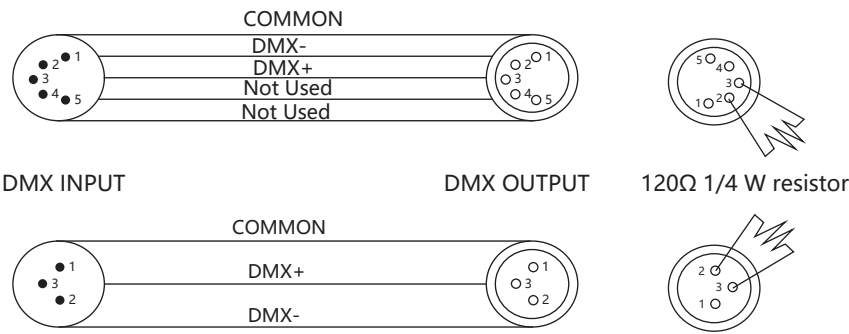
7.2 Network Connection



7.3 DMX Connection



- Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.
- The illustration below shows the correct placement of a 120Ω 0.25W resistor in a terminator, as well as the standard DMX signal pin-outs



EXAMPLE OF DMX ADDRESSING

The below table shows an example of starting addresses for four fixtures assuming a first fixture with starting address of 001.

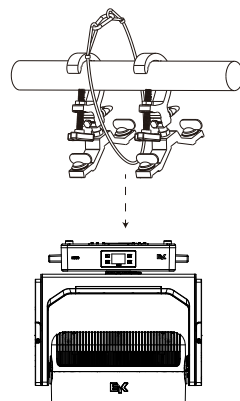
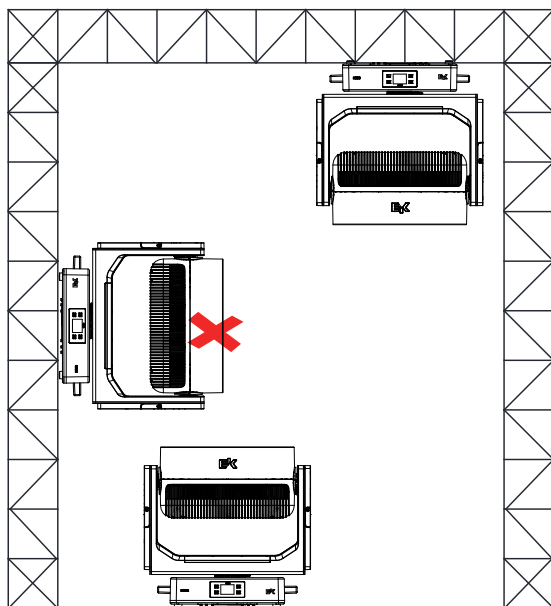
The actual starting addresses will be determined by the operator as needed to match external controller settings.

Relation between DMX and Address

MODE	Allocation	Address of 1st fixture	Address of 2nd fixture	Address of 3rd fixture	Address of 4th fixture
31CH	001 - 031	001	032	063	094

Follow above method for subsequent fixtures, calculating starting addressed as indicated.

8. INSTALLATION



When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixtures being used. General guidelines as below for your note:

1. Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration and maintenance.
2. Keep any inflammable materials at a safe distance from the fixture, as indicated in the safety notes.
3. Make sure that the device is not exposed to extreme heat, moisture or dust.
4. Make sure that the structure to which you are hanging the modules can support the weight.
5. Install the fixture at a suitable location by means of the mounting bracket
6. Always additionally secure the fixture with the safety rope from falling down.
7. Adjust the fixture and use the knob to slightly release or tighten the locking mechanism of the bracket if is neccessary.

9. MENU

Menu(-)					
	Main Menu	Menu level 2	Menu level 3	Menu level 4	Remark
1	SETUP	Basic Engine	Mode	Basic -16 Standard -34 Advanced -31 Basic -256 Standard -278	Default: Standard
			Source	DMX Art-Net sACN	Default: DMX
			Universe	000-255	Default: 0
			DMX Address	1-512	Default: 1
		Pixels Engine	Mode	Disabled Circle -20 RGBW -244	Default: Disabled
			Source	DMX Art-Net sACN Kling-Net	Default: DMX
			Universe	000-255	Default: 0
			DMX Address	1-512	Default: 1
		Ethernet Setup	Custom IP Address	2.198.159.207	Default: 2.x.x.x
			Custom IP Mask	255.0.0.0	Default: 255.0.0.0
			Repeat on DMX	No Both Engine Basic Engine Pixels Engine	Default: No
		Pan / Tilt	Invert Pan	Off On	Default: Off
			Invert Tilt	Off On	Default: Off
			Swap Pan- Tilt	Off On	Default: Off
			Encoder Pan- Tilt	Off On	Default: On
			P/T Homing Mode	Standard Sequenced	Default: Standard
			Pan Home Def Pos	0 degree 90 degrees 180 degrees 270 degrees	Default: 270 degree
				0 % 12.5 % 25 % 50 % 75 % 87.5 % 100 %	Default: 50%
			Tilt Home Def Pos	Normal Fast	Default: Fast
			P/T Speed		
		Display	On 10s 20s 30s		Default: 10s
			No Yes		Default: No (unlock:Up+Down+Up+Down+Enter)
		Fan Mode	Auto SLN Constant		Default: Auto
		Power Mode	STD Power ECO Power		Default: STD Power
		Reverse Mapping	Off On		Default: Off
2	OPTION	Special Functions	Dimmer Curve	Linear Exponential Logarithmic S-Curve S	Default: Exponential
				Off On	Default: On
			RGB Gamma	Gamma 1.0 Gamma 1.5 Gamma 2.2	Default: Gamma 2.2
				600Hz 1200Hz 2000Hz	Default: 2000Hz
			PWM Frequency		

9.2 MENU

				4000Hz		
				6000Hz		
				25000Hz		
		Zoom Reposition	On			
			Off			
		Setting	Default Preset	No		
				Yes		
			User Preset 1	Load preset 1	Yes / No	
				Save to preset 1		
			User Preset 2	Load preset 2	Yes / No	
				Save to preset 2		
			User Preset 3	Load preset 3	Yes / No	
				Save to preset 3		
3	TEST	Auto	Pan Tilt			
			Colour			
			Zoom			
		Reset	All			
			No			
	Channel	Yes				
4	INFORMATION	System Errors				
		Fixture Hours	Total Hours			
		Led Hours	Total Hours			
		System Version	DISP:V1.0 CTR1-XY:V1.0 CTR2-MOTOR:V1.0			
		Fans Monitor	Led Fan Base Fan	100%		
		Network parameters	IP Address	2.198.159.207		
			IP Mask	255.0.0.0		
			MAC Address	54-10-EC-5B-B2-32		
		UID	030F0C9*****			
		Color Calibration	Off			Default :Off
				Factory Calibration		
			Customized Calibration	Red	125-255	
				Green	125-255	
				Blue	125-255	
		White		125-255		
		Calibration	Pan Offset	000-255		
			Tilt Offset	000-255		
Zoom Offset	000-255					
Menu Locking	Unlock Code XXXX			Default: 1234		
Upload Firmware	Yes / No					

10. DMX CHART

10. 1 DMX CHART

Basic	-16			
1	PAN	000-255		
2	PAN Fine	000-255		
3	TILT	000-255		
4	TILT Fine	000-255		
5	ZOOM	000-255	From narrow to wide beam	
6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
7	Dimmer	000-255		
8	Dimmer Fine	000-255		
9	CTO	000-004 005-255	OFF CTO 10000K-2800K	
10	Dimmer Fade	000-255	Fast to Slow	
11	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-253	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Led Reverse Mapping On Led Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency LED=600Hz PWM frequency LED=1200Hz PWM frequency LED=2000Hz (Default) PWM frequency LED=4000Hz PWM frequency LED=6000Hz PWM frequency LED=25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s None	HOLD 35 and Save

10. 2 DMX CHART

		254-255	Default function recall	
12	RESET	000-025 026-076 077-127 128-255	No Function Zoom Reset (Hold 5S) Pan / Tilt Reset (Hold 5S) Complete Reset (Hold 5S)	
13	Red	000-255		
14	Green	000-255		
15	Blue	000-255		
16	White	000-255		

LAYERS	Standard -34	Advanced -31				
MAIN	1	1	PAN	000-255		
	2	2	PAN Fine	000-255		
	3	3	TILT	000-255		
	4	4	TILT Fine	000-255		
	5	5	ZOOM	000-255	From narrow to wide beam	
	6	6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	7	7	Dimmer	000-255		
	8	8	Dimmer Fine	000-255		
	9	9	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Led Reverse Mapping On Led Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency LED=600Hz PWM frequency LED=1200Hz PWM frequency LED=2000Hz (Default)	HOLD 3S and Save

10. 3 DMX CHART

				180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-253 254-255	PWM frequency LED=4000Hz PWM frequency LED=6000Hz PWM frequency LED=25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s None Default function recall	
	10	10	RESET	000-025 026-076 077-127 128-255	No Function Zoom Reset (Hold 5S) Pan / Tilt Reset (Hold 5S) Complete Reset (Hold 5S)	
BACKGROUND	11	11	Red	000-255		
	12	-	Red Fine	000-255		
	13	12	Green	000-255		
	14	-	Green Fine	000-255		
	15	13	Blue	000-255		
	16	-	Blue Fine	000-255		
	17	14	White	000-255		
	18	-	White Fine	000-255		
	19	15	CTO	000-004 005-255	OFF CTO 10000K-2800K	
	20	-	Dimmer Fade	000-255	Fast to Slow	
	21	16	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	22	17	Dimmer	000-255		
SHAPE	23	18	Red	000-255		
	24	19	Green	000-255		
	25	20	Blue	000-255		
	26	21	White	000-255		
	27	22	CTO	000-004 005-255	OFF CTO 10000K-2800K	
	28	23	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	29	24	Dimmer	000-255		
	30	25	Shape Mode	000-005 006-130 131-255	Normal Static Dynamic	
	31	26	Shape Selection	000-007 008-015 016-023 024-031 032-038 039-046 047-054 055-062 063-069	Effect 1 Effect 2 Effect 3 Effect 4 Effect 5 Effect 6 Effect 7 Effect 8 Effect 9	

10.4 DMX CHART

				070-077	Effect 10	
				078-085	Effect 11	
				086-093	Effect 12	
				094-100	Effect 13	
				101-108	Effect 14	
				109-116	Effect 15	
				117-124	Effect 16	
				125-131	Effect 17	
				132-139	Effect 18	
				140-147	Effect 19	
				148-155	Effect 20	
				156-162	Effect 21	
				163-170	Effect 22	
PIXELS	32	27	Indexing/Speed /	000-255	Indexing (Static Mode)	
					(Dynamic Mode)	
				000-124	Speed from fast to slow, forward	
				125-130	Stop	
	33	28	Fade/Wake	131-255	Speed from slow to fast, backward	
				000-005	Off	
				006-130	Fade (From fast to slow)	
	34	29	Transition	131-255	Wake (From fast to slow)	
				000-255		
	-	30	Strobe	000-003	Light OFF	
				004-103	Strobe from low (1Hz) to fast (25Hz)	
				104-107	Light ON	
				108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
				208-212	Light ON	
				213-225	Random Slow Strobe	
				226-238	Random Medium Strobe	
				239-251	Random Fast Strobe	
				252-255	Light ON	
	-	31	Dimmer	000-255		

Circle	-20			
1	Red 1	000-255		
2	Green1	000-255		
3	Blue 1	000-255		
4	White 1	000-255		
5	Red 2	000-255		
6	Green 2	000-255		
7	Blue 2	000-255		
8	White 2	000-255		
...	...	...		
...	...	...		
13	Red 4	000-255		
14	Green 4	000-255		
15	Blue 4	000-255		
16	White 4	000-255		
17	Red 5	000-255		
18	Green5	000-255		

10. 5 DMX CHART

19	Blue 5	000-255		
20	White 5	000-255		

RGBW	-244			
1	Red 1	000-255		
2	Green1	000-255		
3	Blue 1	000-255		
4	White 1	000-255		
5	Red 2	000-255		
6	Green 2	000-255		
7	Blue 2	000-255		
8	White 2	000-255		
...	...	...		
...	...	...		
237	Red 60	000-255		
238	Green 60	000-255		
239	Blue 60	000-255		
240	White 60	000-255		
241	Red 61	000-255		
242	Green 61	000-255		
243	Blue 61	000-255		
244	White 61	000-255		

Basic-255	-255			
1	PAN	000-255		
2	PAN Fine	000-255		
3	TILT	000-255		
4	TILT Fine	000-255		
5	ZOOM	000-255	From narrow to wide beam	
6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
7	Dimmer	000-255		
8	Dimmer Fine	000-255		
9	CTO	000-004 005-255	OFF CTO 10000K~2800K	
10	Dimmer Fade	000-255	Fast to Slow	
11	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None	

10. 6 DMX CHART

		060-063	Raw color channels gamma 1	
		064-067	Raw color channels gamma 1.5	
		068-071	Raw color channels gamma 2.2 (Default)	
		072-075	Color Calibration Off (Default)	
		076-079	Color Calibration Factory	
		080-083	Color Calibration Customized	
		084-087	None	
		088-091	Reverse Mapping Off (Default) Led	
		092-095	Reverse Mapping On Led	
		096-097	Pixel Map Disabled(Default)	
		098-099	Pixel Map On Circle Mode	
		100-103	Pixel Map On RGBW Mode	
		104-107	Zoom Reposition On(Default)	
		108-111	Zoom Reposition Off	
		112-159	None	
		160-163	Dimmer Fade Off	
		164-167	Dimmer Fade On	
		168-171	PWM frequency LED=600Hz	
		172-175	PWM frequency LED=1200Hz	
		176-179	PWM frequency LED=2000Hz (Default)	
		180-183	PWM frequency LED=4000Hz	
		184-187	PWM frequency LED=6000Hz	
		188-191	PWM frequency LED=25000Hz	
		192-195	Display On	
		196-199	Display Off 10s (Default)	
		200-203	Display Off 20s	
		204-207	Display Off 30s	
		208-2112	Zoom Reset (Hold 5S)	
		12-21521	Pan / Tilt Reset (Hold 5S)	
		6-219220	Complete Reset (Hold 5S)	
		-253	None	
		254-255	Default function recall	
12	Red 1	000-255		
13	Green1	000-255		
14	Blue 1	000-255		
15	White 1	000-255		
16	Red 2	000-255		
17	Green 2	000-255		
18	Blue 2	000-255		
19	White 2	000-255		
---	---	---		
---	---	---		
248	Red 60	000-255		
249	Green 60	000-255		
250	Blue 60	000-255		
251	White 60	000-255		
252	Red 61	000-255		
253	Green61	000-255		
254	Blue 61	000-255		
255	White 61	000-255		

LAYERS	Standard 278				
--------	-----------------	--	--	--	--

10. 7 DMX CHART

MAIN	1	PAN	000-255		
	2	PAN Fine	000-255		
	3	TILT	000-255		
	4	TILT Fine	000-255		
	5	ZOOM	000-255	From narrow to wide beam	
	6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	7	Dimmer	000-255		
	8	Dimmer Fine	000-255		
	9	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-253 254-255	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Led Reverse Mapping On Led Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency LED=600Hz PWM frequency LED=1200Hz PWM frequency LED=2000Hz (Default) PWM frequency LED=4000Hz PWM frequency LED=6000Hz PWM frequency LED=25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s None Default function recall	HOLD 3S and Save
	10	RESET	000-025 026-076 077-127 128-255	No Function Zoom Reset (Hold 5S) Pan / Tilt Reset (Hold 5S) Complete Reset (Hold 5S)	
	11	Red	000-255		

10.8 DMX CHART

	12	Red Fine	000-255		
	13	Green	000-255		
	14	Green Fine	000-255		
	15	Blue	000-255		
	16	Blue Fine	000-255		
	17	White	000-255		
	18	White Fine	000-255		
	19	CTO	000-004 005-255	OFF CTO 10000K-2800K	
	20	Dimmer Fade	000-255	Fast to Slow	
	21	Strobe	000-003	Light OFF	
			004-103	Strobe from low (1Hz) to fast (25Hz)	
			104-107	Light ON	
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
			208-212	Light ON	
			213-225	Random Slow Strobe	
			226-238	Random Medium Strobe	
			239-251	Random Fast Strobe	
			252-255	Light ON	
	22	Dimmer	000-255		
SHAPE	23	Red	000-255		
	24	Green	000-255		
	25	Blue	000-255		
	26	White	000-255		
	27	CTO	000-004 005-255	OFF CTO 10000K-2800K	
	28	Strobe	000-003	Light OFF	
			004-103	Strobe from low (1Hz) to fast (25Hz)	
			104-107	Light ON	
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
			208-212	Light ON	
			213-225	Random Slow Strobe	
			226-238	Random Medium Strobe	
			239-251	Random Fast Strobe	
			252-255	Light ON	
	29	Dimmer	000-255		
	30	Shape Mode	000-005	Normal	
			006-130	Static	
			131-255	Dynamic	
	31	Shape Selection	000-007	Effect 1	
			008-015	Effect 2	
			016-023	Effect 3	
			024-031	Effect 4	
			032-038	Effect 5	
			039-046	Effect 6	
			047-054	Effect 7	
			055-062	Effect 8	
			063-069	Effect 9	
			070-077	Effect 10	
			078-085	Effect 11	
			086-093	Effect 12	
			094-100	Effect 13	
			101-108	Effect 14	
			109-116	Effect 15	
			117-124	Effect 16	
			125-131	Effect 17	
			132-139	Effect 18	
			140-147	Effect 19	
			148-155	Effect 20	
			156-162	Effect 21	
			163-170	Effect 22	
			171-178	Effect 23	

10.9 DMX CHART

			179-186 187-193 194-201 202-209 210-217 218-224 225-232 233-240 241-248 249-255	Effect 24 Effect 25 Effect 26 Effect 27 Effect 28 Effect 29 Effect 30 Effect 31 Effect 32 Effect 33	
	32	Indexing/speed /	000-255 000-124 125-130 131-255	Indexing (Static Mode) (Dynamic Mode) Speed from fast to slow, forward Stop Speed from slow to fast, backward	
	33	Fade/Wake	000-005 006-130 131-255	Off Fade (From fast to slow) Wake (From fast to slow)	
	34	Transition	000-255		
	35	Red 1	000-255		
	36	Green1	000-255		
	37	Blue 1	000-255		
	38	White 1	000-255		
	39	Red 2	000-255		
	40	Green 2	000-255		
	41	Blue 2	000-255		
	42	White 2	000-255		
	...	...	...		
	...	...	...		
	271	Red 60	000-255		
	272	Green 60	000-255		
	273	Blue 60	000-255		
	274	White 60	000-255		
	275	Red 61	000-255		
	276	Green61	000-255		
	277	Blue 61	000-255		
	278	White 61	000-255		

11. MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

12. TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board	• Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	• Dirty lens assembly • Misaligned lens assembly	• Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	• No power • Loose or damaged power cord • Faulty internal power supply	• Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	• Wrong DMX addressing • Damaged DMX cables • Bouncing signals	• Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

