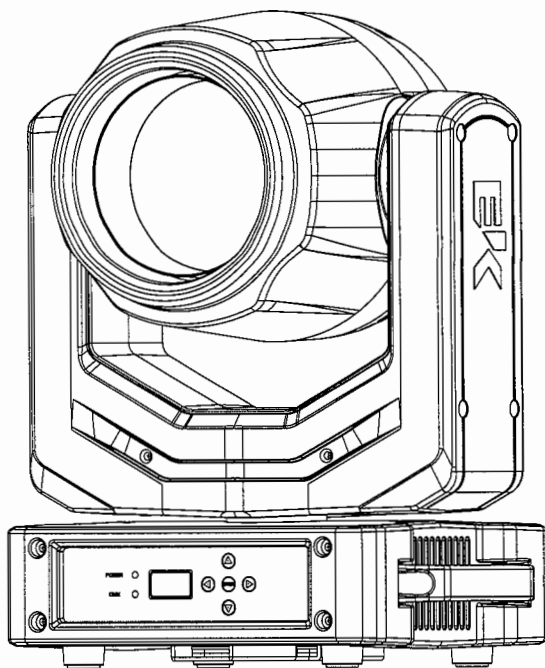


SHOWPRO

EK



E3 wash

USER MANUAL

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**WARNING**

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

SAFETY

General Instructions

The products referred to in this manual conform to the European Community Directives.

Leave servicing to skilled personnel only.

Never make any modifications on the unit not described in this instruction manual.

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1).

This unit is not for home use, only professional applications.

Never use the fixture under the following conditions:

- in wet conditions;
- in places subject to vibration;
- in places with an ambient temperature of over 45°C

Make certain that no inflammable liquids, water or metal objects enter 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

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.

Before starting any maintenance work or cleaning the projector, cut off power from the main supply.

Always secure the projector with safety rope when mounting. 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.

For inside use only. Not designed for outside use.

The minimum distance between the fixture and surrounding walls must be more than 50cm and the air vents at the housing must not be covered.

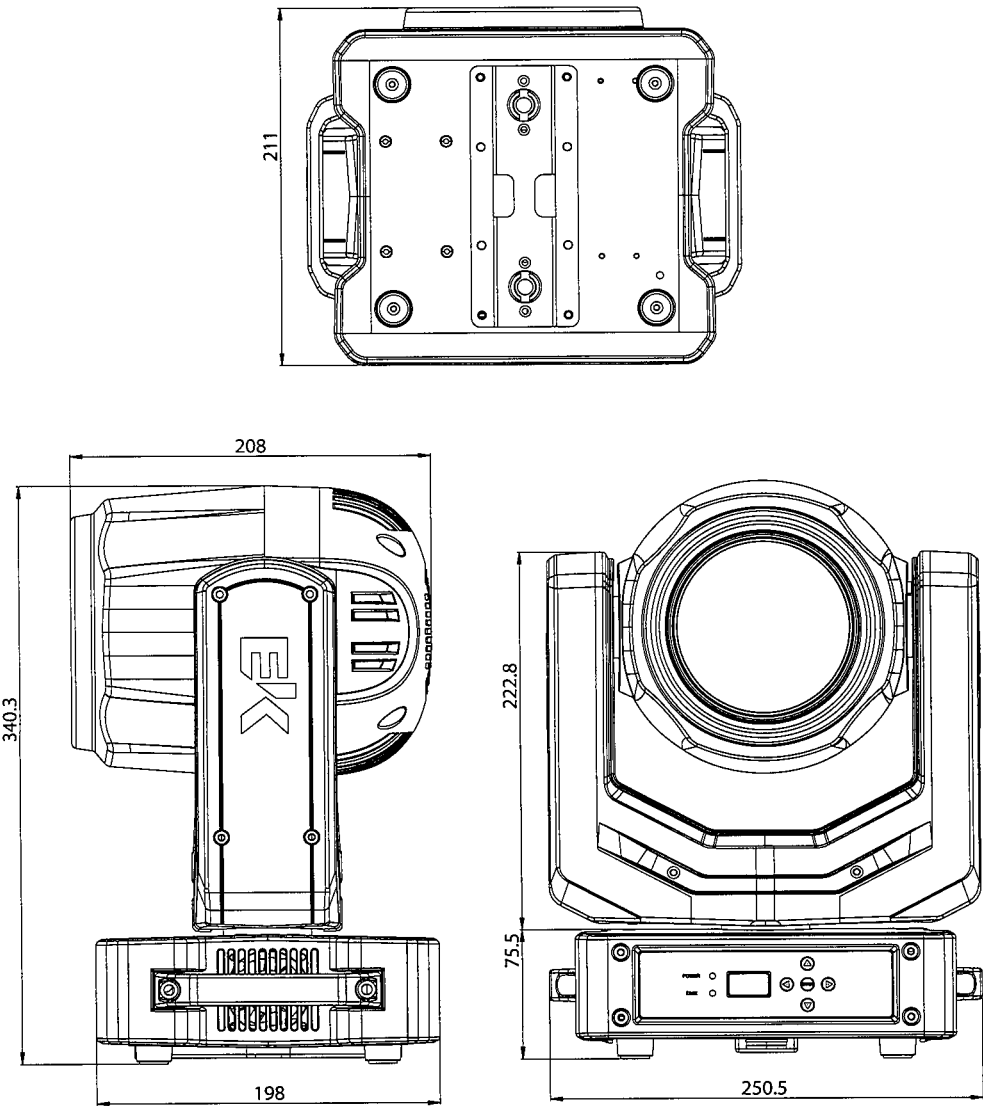
Install the fixture in a well ventilated place

Keep any inflammable material at a safe distance from the fixture.

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is high. After power off, please cool down over 15 minutes.

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.

DIMENSIONS



Product Description

Professional moving zoom wash

1 x 60W OSRAM RGBW LED

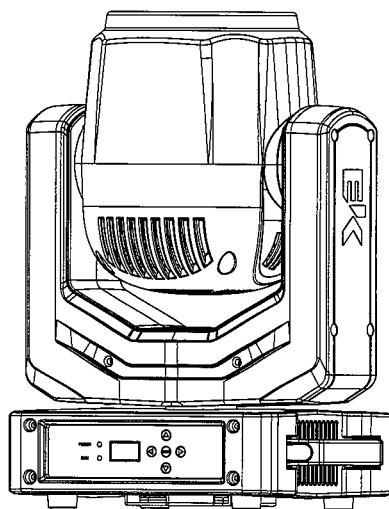
Infinite RGBW color mixing

Ultra smooth dimming and perfectly consistent color mixing

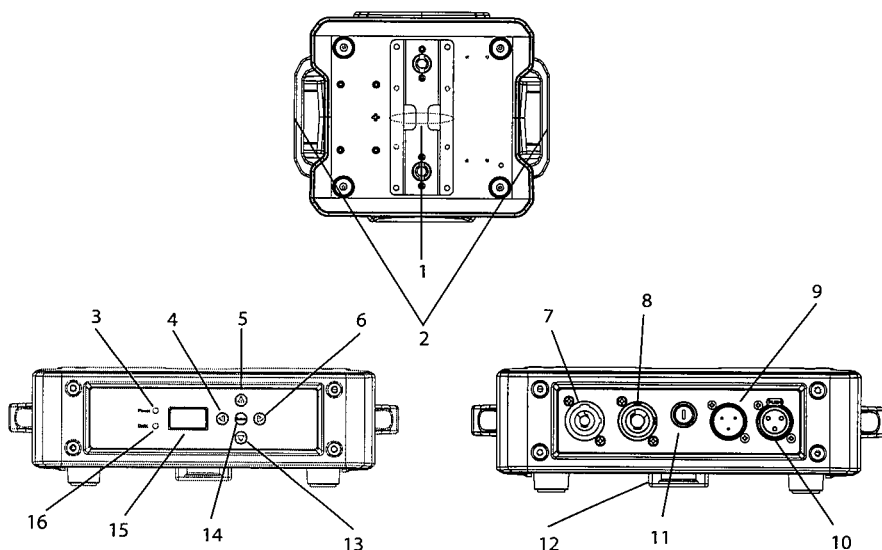
Advanced optical system projects saturated colors

Flawlessly smooth motorized zoom

Perfectly accurate motorized pan/tilt movement



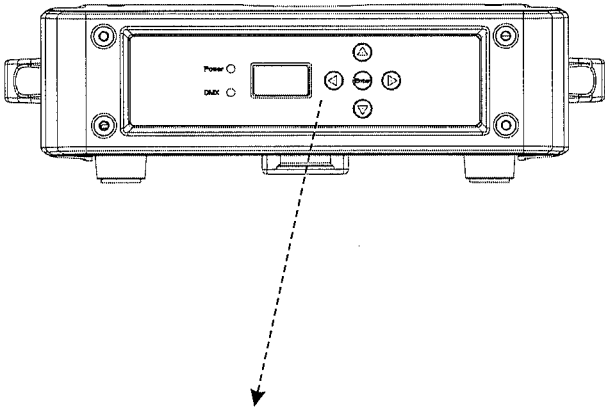
INTRODUCTION



INTRODUCTION

1. Safety Rope Mounting Hole	2. Handle	3. Power Indicator	4. Left
5. Up	6. Right	7. POWER CON In	8. POWER CON Out
9. DMX 3-Pin XLR Out	10. DMX 3-Pin XLR In	11. Main Fuse Holder	12. Omega Clamp Holder
13. Down	14. Confirm	15. OLED Display	16. DMX Indicator

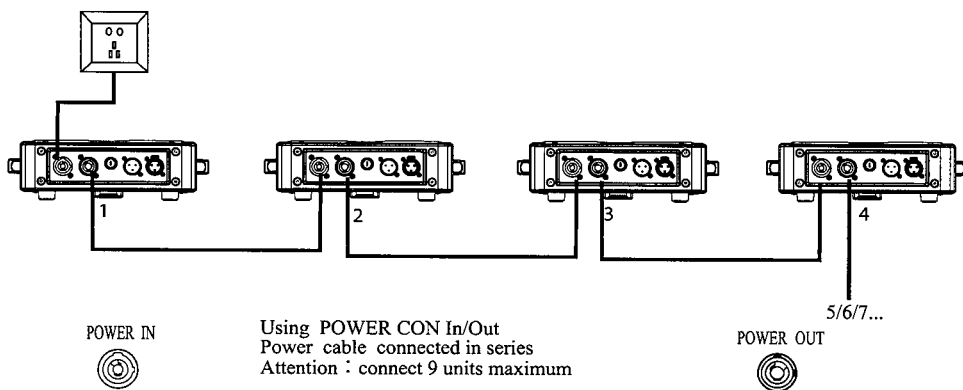
PANEL INTRODUCTION



OLED Display Function Description

Function	Function Description	Function
DMX	DMX signal indicator	status indicator
power	power indicator	status indicator
left	scroll left	menu navigation
right	scroll right	menu navigation
up	increase numeric values	scroll up
down	decrease numeric values	scroll down
enter	confirm	save the parameter

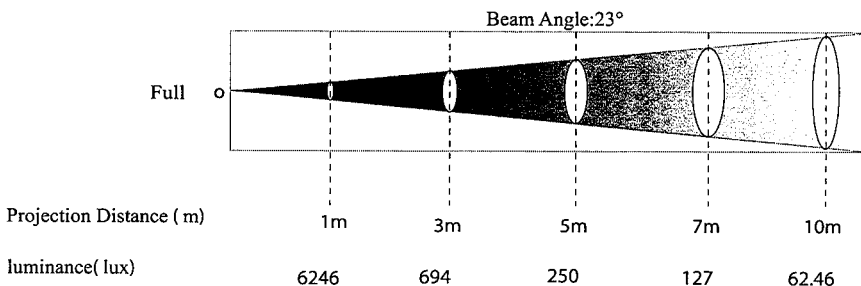
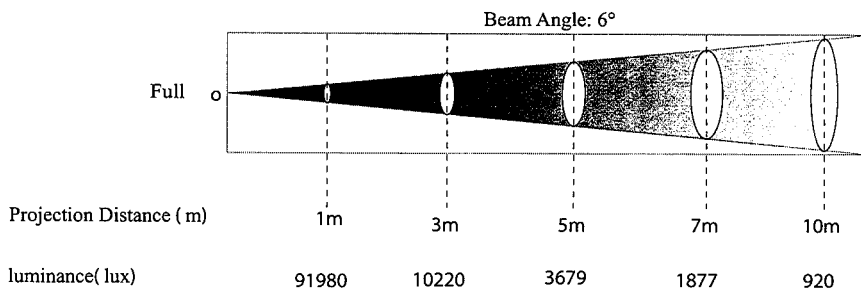
POWER LINKING



Warning

Do not connect more than maximum allowable number of fixtures
Do not use damaged power cables.
Turn off power when the units are not in use.

PHOTOMETRICS



DMX ADDRESSING

Starting address calculation (examples):

MODE	ALLOCATION	STARTING ADDRESS (1ST FIXTURE)	STARTING ADDRESS (2ND FIXTURE)	STARTING ADDRESS (3RD FIXTURE)	STARTING ADDRESS (4TH FIXTURE)
13CH	001-013	001	014	027	040
20CH	002-021	002	022	042	062

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

TECHNICAL SPECIFICATIONS

Photometrics

Light Source: OSRAM 60W RGBW LED

Beam Angle: 6°-23°

Output: 3679/250LUX @ 5meters

Key Features:

Color Mixing: RGBW

Motorized Zoom

Strobe: 0-30HZ

Dimming: 4 dimming curve modes

Pan Movement: 540°

Tilt Movement: 270°

Control:

Protocol: DMX512

DMX CHANNELS: 13/20

Built-in Programs: Yes

Display: OLED 128 x 64

Power:

Mains: 100-240VAC 50/60HZ

Consumption: 118W

Misc/Options

Power Cord: Neutrik PowerCon

Omega Bracket: included (1pc)

Flight Case: Optional

Thermal:

Cooling: Active (variable speed fan)

Max. Ambient: 40°C

Min. Ambient: -10°C

Max Housing: 50°C

Physical:

Dimensions: 251*198*340MM

Weight: 6.9KG

IP Rating: IP20

I/O

Power Connection: PowerCon In/Out

Data Connection: 3-Pin XLR In/Out



MENU

NO.	Main Menu	Menu level 2	Menu level 3		Menu level 4	Remark
1	DMX Functions	DMX Address	1-512			Default: 1
		DMX Channels	13CH			Default: 20CH
			20CH			
2	Motor Setup	Pan Inverse	No-Yes			Default: No
		Tilt Inverse	No-Yes			Default: No
		Pan Encode	No-Yes			Default: Yes
		Tilt Encode	No-Yes			Default: Yes
		Motor Offset	Pan Offset		000-255	
			Tilt Offset		000-255	
			Zoom Offset		000-255	
3	System Setup	Master/Slave	Master-Slave			Default: Slave
		White Balance	Red	125-255		Default: RGBW= 255
			Green	125-255		
			Blue	125-255		
			White	125-255		
		Dimmer Mode	Off			Default: Off
			Dimmer 1			
			Dimmer 2			
			Dimmer 3			
		Fan Mode	Auto Speed High Speed			Default : Auto Speed
		Factory Settings	No-Yes			
4	Display Setup	Display Inverse	No-Yes			Default :No
		Back Light	On			Default: On
			10S			
			20S			
			30S			
		Error warning	Off-On			Default : On



MENU

5	Test Setup	Auto Test	Auto Test ...		
		Manual Test	Pan	000-255	Default : Tilt = 128 Dimmer = 255 Shutter = 255
			Pan Fine	000-255	
			Tilt	000-255	
			Tilt Fine	000-255	
			Pan/Tilt Speed	000-255	
			Dimmer	000-255	
			Shutter	000-255	
			Red	000-255	
			Green	000-255	
			Blue	000-255	
			White	000-255	
			Zoom	000-255	
6	Show Setup	Led Show	Led Show 1	Speed 000-255	Default: Led Show 1 Speed 255
			Led Show 2	Speed 000-255	
			Led Show 3	Speed 000-255	
			Led Show 4	Speed 000-255	
		Motor Show	Motor Show 1	Speed 000-255	Default: Motor Show 1 Speed 255
			Motor Show 2	Speed 000-255	
			Motor Show 3	Speed 000-255	
			Motor Show 4	Speed 000-255	
		Zoom Adjust	000-255		Default: 0
7	Reset Setup	Auto Reset	No-Yes		Yes: Reset all Channels
		Manual Reset	Pan Reset	No-Yes	
			Tilt Reset	No-Yes	
			Zoom Reset	No-Yes	
8	Information	Fixture Time	0-9999H		Default : 0
		Software Version	DISP V1.0 CTR-XY V1.0		
		LED Temperature	xx° C		



MENU DESCRIPTION

DMX Function

DMX Address: Set DMX starting address at a value between 001-512

DMX Channel: Select DMX mode: 13 or 20 channel operation.

Motor Setup

Pan/Tilt inverse on/off selection

Pan / Tilt / Zoom motor offset (for fine tuning positions)

System Setup

1. Master/slave: Sets unit to function as either Master or Slave
2. White Balance: Adjust RGBW levels to achieve desired white light
3. Dimmer Mode: Four selectable dimmer curves: OFF, Dimmer 1, 2 or 3 (fast, medium, or slow)
4. FAN Setup: Select the desired fan speed: High Speed or Auto Speed.
5. Factory Reset: Restore factory settings.

Display Setup

1. Display Setting: Set delay time for OLED display to go dark after either 10, 20 or 30 seconds or choose always ON.
2. Display Inverse: Select orientation of menu display
3. Warning: Display error codes

Test Setup

Self-inspection Modes:

1. Auto Test Mode: Test all functions automatically
2. Manual Test Mode Test each function manually.

Note: No controller required to run tests

Show Setup

Auto Show: 4 moving “motor” shows and 4 color “LED” shows to choose from

Fixture Information

Displays fixture run time, software version and temperature.



DMX CHANNELS

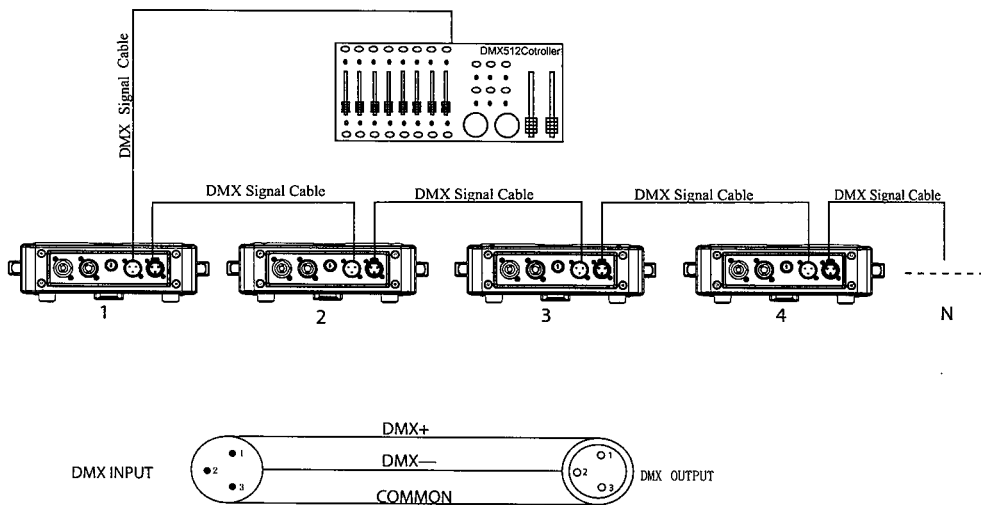
13CH	Function	Value	Percent/Setting	Remark
1	Pan	000-255		
2	Pan Fine	000-255		
3	Tilt	000-255		
4	Tilt Fine	000-255		
5	Pan/Tilt Speed	000-255	Fast to slow	
6	Special Function	000-049	No function	
		050-099	Pan &Tilt Reset (Hold 3 Seconds)	
		100-149	No function	
		150-199	Zoom Reset (Hold 3 Seconds)	
		200-255	No function	
7	Dimmer	000-255	0-100%	
8	Shutter	000-031	Shutter closed	
		032-063	No function (Shutter open)	
		064-095	Shutter effect (slowto fast)	
		096-127	No function (Shutter open)	
		128-159	Pulse-effect (insequences)	
		160-191	No function (Shutter open)	
		192-223	Random Shutter effect (slowto fast)	
		224-255	No function (Shutter open)	
9	Red	000-255	0-100%	
10	Green	000-255	0-100%	
11	Blue	000-255	0-100%	
12	White	000-255	0-100%	
13	Zoom	000-255	0-100%	

20CH	Function	Value	Percent/Setting	Remark
1	Pan	000-255		
2	Pan Fine	000-255		
3	Tilt	000-255		
4	Tilt Fine	000-255		
5	Pan/Tilt Speed	000-255	Fast to slow	
6	Special Function	000-049	No function	
		050-099	Pan &Tilt Reset (Hold 3 Second)	
		100-149	No function	
		150-199	Zoom Reset (Hold 3 Second)	
		200-255	No function	
7	Dimmer	000-255	0~100%	
8	Shutter	000-031	Shutter closed	
		032-063	No function (Shutter open)	
		064-095	Shutter effect slow to fast	
		096-127	No function (Shutter open)	
		128-159	Pulse-effect in sequences	
		160-191	No function (Shutter open)	
		192-223	Random Shutter effect slow to fast	
		224-255	No function (Shutter open)	
9	Red	000-255	0~100%	
10	Green	000-255	0~100%	
11	Blue	000-255	0~100%	
12	White	000-255	0~100%	

DMX CHANNELS

13	Color function	000 - 019 020 - 039 040 - 059 060 - 079 080 - 099 100 - 255	No Function CTC Function Forward Spin Reverse Spin Continuous TBD	No Function Allow next channel CTC Function Allow correspondent next channel function Allow correspondent next channel function Allow correspondent next channel function Reserved for future functions (no function)
14	Color	000 - 223 224 - 231 232 - 239 240 - 247 248 - 255	2000K→3000K White 3200K White 4200K White 5600K White 8000K	CTC Function
		000 - 255	Rainbow Effect (Slow to Fast)	Forward Spin
		000 - 255	Rainbow Effect (Slow to Fast)	Reverse Spin
		000 - 000	Black	Continuous
		001 - 001	Red	
		002 - 002	Green	
		003 - 003	Blue	
		004 - 004	White	
		005 - 046	Red=0, Green->up, Blue=full, White=0	
		047 - 088	Red=0, Green=full, Blue->down, White=0	
		089 - 130	Red->up, Green=full, Blue=0, White=0	
		131 - 172	Red=full, Green->down, Blue=0, White=0	
		173 - 214	Red=full, Green=0, Blue->up, White=0	
		215 - 255	Red->down, Green=0, Blue=full, White=0	
15	Auto Program	000-010 011-070 071-130 131-190 191-255	No Function 4Colors snap 4Colors fade 15Colors snap 15Colors fade	
16	Auto Program Speed	000-255	Speed slow to fast	
17	Motor Show	000-010 011-058 059-106 107-154 155-202 203-255	No Function Motor Show 1 Motor Show 2 Motor Show 3 Motor Show 4 Motor Show 5(Motor Show 1-4)	
18	Motor Show Speed	000-255	Speed slow to fast	
19	Zoom	000-255	0~100%	
20	Dimmer Speed mode	000-051 052-101 102-152 153-203 204-255	Preset dimmer speed from display menu Dimmer speed mode off Dimmer speed mode1 (fast speed) Dimmer speed mode2 (middle speed) Dimmer speed mode3 (slow speed)	

DMX CONNECTION



TROUBLE SHOOTING

Problems	Possible Cause	Checks and Remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • Faulty LED • Faulty LED board	• Check the power supply voltage • Increase the value of the dimmer 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 DMX terminator

