



Starlink18A

LH -S1840A

This manual contains important information.
Please read before operating fixture.

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Index

1. Safety Instructions	2
2. Appearance	3
3. Technical Specifications	4
4. Operation	7
4.1 Front panel operation	7
4.2 Board instruction	7
4.3 DMX address setting	8
5. DMX Protocol	10
6. Installation	22
6.1 Mounting & Rigging	22
6.2 Power connection	23
6.3 DMX Control Connection	23
7. Maintenance & Cleaning	25
7.1 Cleaning	25
7.2 Lubrication	25
7.3 Troubleshooting	25

Accessories

Name	Quantity	Remark
User manual	1pc	
Clamp	1set	
Power cable	1pc	
DMX signal cable	1pc	
Safety cord	1pc	Optional

1. Safety Instructions

WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:

- Check before use

Before operation, inspect the fixture for transportation damage. Do not use it if damaged. Unauthorized modification or improper use is not covered by warranty.

- Environment

The fixture is IP65-rated, suitable for indoor/outdoor use, and can operate in humid or dusty areas. Keep it away from excessive heat, fire, vibration, electrical surges, and strong light.

- Personnel & operation

Installation and operation must be performed by qualified personnel. Ensure all covers are securely in place, wear protective gear, and do not open the housing or attempt self-maintenance.

- Optical safety

Do not look directly into the light source. Do not use with dimmer packs. Maintain a minimum distance of 20 m from illuminated surfaces, and replace damaged optical components immediately.

- Electrical safety

Ensure correct voltage, proper grounding, and compliant power cords. Do not use damaged cables, and unplug by holding the plug. Avoid operating under heavy rain or extreme humidity, and avoid frequent on/off switching.

- Installation

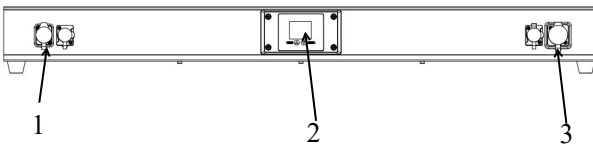
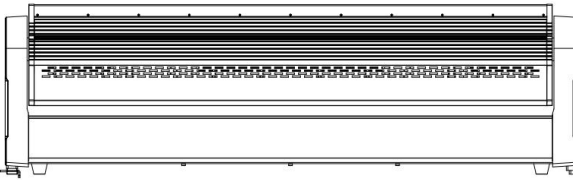
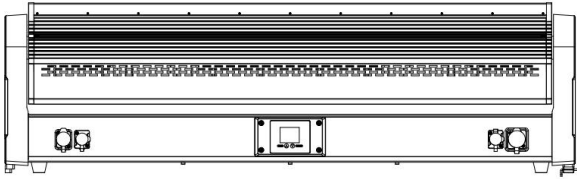
Use the safety cord through the provided safety holes. Keep at least 50 cm ventilation clearance and do not mount on flammable surfaces or aim the beam at combustible objects (minimum 20 m).

- Temperature & normal conditions

Housing temperature may reach 45 – 75° C during operation. Slight smoke or odor may occur at first ignition and is considered normal.

2. Appearance

Front side & back side



Front panel

1. Power in / DMX in
2. Display panel
3. DMX out / Power in

3. Technical Specifications

Power

Input Voltage:100-240 V, 50/60 Hz

Power Consumption:720W

Light source

Light Source: 18 × 40W RGBW LED

Life expectancy: About 20000 hours (factory rated)

Zoom range

Zoom Range: 4°-60°

Motorized Zoom:2 independent zoom zones

Control

Display: LCD display

Control mode: DMX512, master-slave, auto, sound, RDM

Channel: 34/ 56/ 97/ 115/ 110/ 128CH

Dimming/Strobe

Dimming: 0-100% linear dimming system

Strobe: 0-20 F.P.S, speed adjustable

LED Feature

Individual control of each RGBW LED pixel, two zoom zone control,beam and wash effect,with flower effect

Head movement

Tilt : 205°; 16 bit movement resolution

Housing

Starlink18A

Housing: Aluminum alloy

Protection rate: IP65

Working temperature

Working temperature: -10°C-45°C

Connection

Power Connection: Powercon in/ out

Signal Connection: DMX 3-pin in/ out

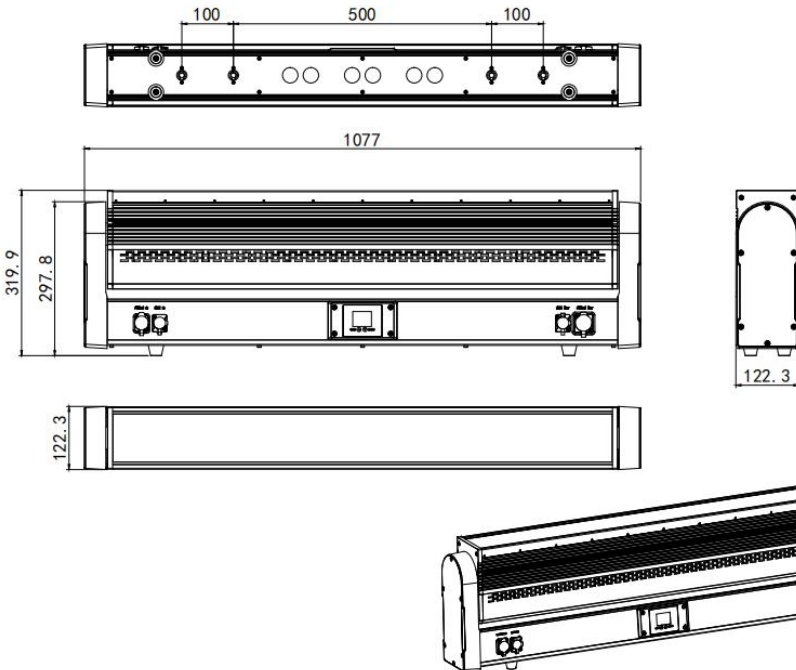
Product dimensions

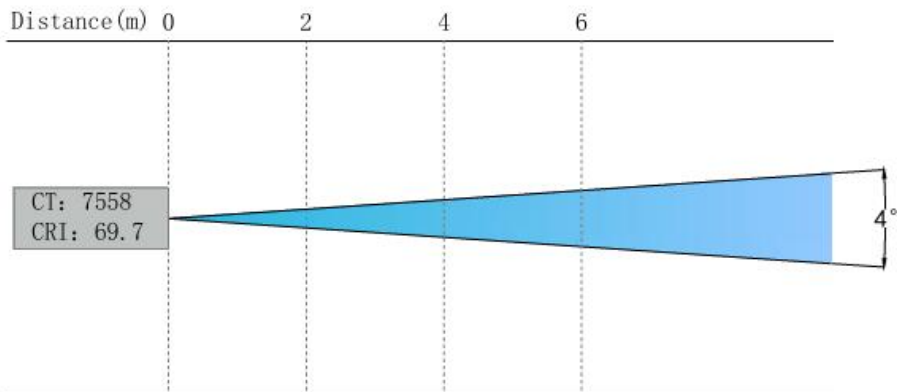
1077×122.3×319.9mm

Net weight

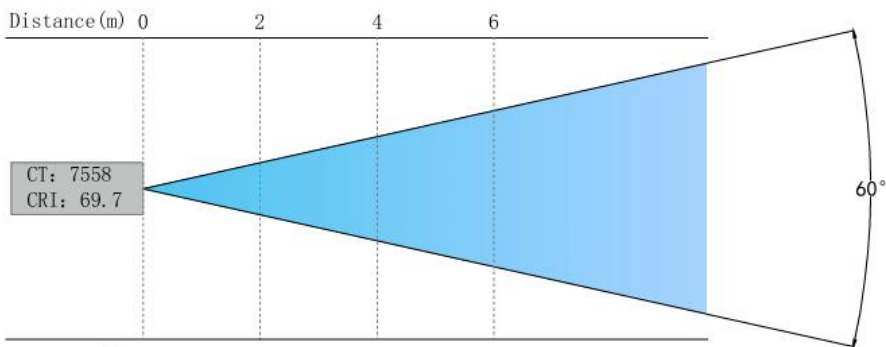
24KG

Dimensions:



Light output:

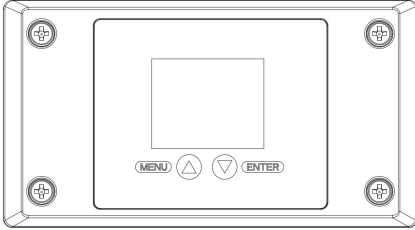
Diameter (m)	0.14	0.28	0.69
RGBW (Lux)	43470	19100	12650
R (Lux)	7950	3110	1960
G (Lux)	17825	7650	4830
B (Lux)	2875	1495	932
W (Lux)	17825	8280	4945



Diameter (m)	2.31	4.61	6.93
RGBW (Lux)	5647	1564	805
R (Lux)	978	265	140
G (Lux)	2415	690	345
B (Lux)	460	138	81
W (Lux)	2416	669	345

4. Operation

4.1 Front panel operation:



MENU	To enter into move backward or leave the menu
UP	To go backward to move up in the menu
DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

Pressing any button from the home screen will show the selectable menu items from the menu map. When a menu function is selected, the display will immediately show the first available option for the selected menu function. To select a menu item, press <ENTER>.

Use the <UP> and <DOWN> buttons to navigate the menu options. Press the <ENTER> button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the <MENU> button.

4.2 Board instruction:

ADDRESS	001-512
RUN	DMX512
	Auto
	Sound
DMX MODE	16CH
	27CH
	76CH
	88CH

TEST	ALL	
SET	Display	Yes
		No
	Signal Keep	Yes
		No
	Slave	Yes
		No
	English	Yes
		否
INFO	Version	V1.11
MANUAL	Tilt	000-255
	Zoom1	000-255
	Zoom2	000-255
	Red	000-255
	Green	000-255
	Blue	000-255
	White	000-255
	Strobe	000-020
RESET	Yes	
	No	

4.3 DMX address setting:

Each fixture must be assigned a unique DMX start address within the 001 – 512 range. The start address represents the first channel the fixture occupies. This product provides six DMX modes(34/ 56/ 97/ 115/ 110/ 128CH channels); therefore, the next fixture' s start address must be calculated according to the number of channels used in the selected mode to avoid overlapping addresses.

For example, when operating in 17-channel mode, set Fixture 1 to 001, Fixture 2 to 35, Fixture 3 to 69, Fixture 4 to103, etc.

DMX Mode	Fixture1	Fixture2	Fixture3	Fixture4	...
34CH	001	35	69	103	...
56CH	001	57	113	169	...
97CH	001	98	195	292	...
115CH	001	116	231	346	...
110CH	001	111	221	331	...
128CH	001	129	257	385	...

5. DMX Protocol

Mode/channel						DMX	Function
34	56	97	115	110	128	Value	
1	1	1	1	1	1		Tilt (8 bit)
						0 - 255	Tilt movement by 205° (128=default)
2	2	2	2	2	2		Tilt fine (16 bit)
						0 - 255	Fine control of tilt movement (0=default)
3	3	3	3	3	3		Tilt speed , Tilt time
						0	Standard mode (0=default)
						1	Max. Speed Mode
							Tilt speed mode
		2 - 255	Speed from max. to min.				
4	4	4	4	4	4		Power/Special functions
						000-129	No function
						130 - 139	Fixture reset
						140-255	No function
5	5	5	5	5	5	000-255	No function
6	6	6	6	6	6	000-255	No function
7	7	7	7	7	7		Background -Virtual colour wheel
						0	No function (0=default)
						1-2	Filter4(Medium Bastard Amber)
						3-4	Filter 25 (Sunset Red)
						5-6	Filter 19 (Fire)
						7-8	Filter 26 (Bright Red)
						9-10	Filter 58 (Lavender)
						11-12	Filter 68 (Sky Blue)
						13-14	Filter 36 (Medium Pink)
						15-16	Filter 89 (Moss Green)

					17-18	Filter 88 (Lime Green)
					19-20	Filter 90 (Dark Yellow Green)
					21-22	Filter 49 (Medium Purple)
					23-24	Filter 52 (Light Lavender)
					25-26	Filter 102 (Light Amber)
					27-28	Filter 103 (Straw)
					29-30	Filter 140 (Summer Blue)
					31-32	Filter 124 (Dark Green)
					33-34	Filter 106 (Primary Red)
					35-36	Filter 111 (Dark Pink)
					37-38	Filter 115 (Peacock Blue)
					39-40	Filter 126 (Mauve)
					41-42	Filter 117 (Steel Blue)
					43-44	Filter 118 (Light Blue)
					45-46	Filter 122 (Fern Green)
					47-48	Filter 182 (Light Red)
					49-50	Filter 121 (Filter Green)
					51-52	Filter 128 (Bright Pink)
					53-54	Filter 131 (Marine Blue)
					55-56	Filter 132 (Medium Blue)
					57-58	Filter 134 (Golden Amber)
					59-60	Filter 135 (Deep Golden Amber)
					61-62	Filter 136 (Pale Lavender)
					63-64	Filter 137 (Special Lavender)
					65-66	Filter 138 (Pale Green)
					67-68	Filter 798 (Chrysalis Pink)
					69-70	Filter 141 (Bright Blue)
					71-72	Filter 147 (Apricot)
					73-74	Filter 148 (Bright Rose)
					75-76	Filter 152 (Pale Gold)
					77-78	Filter 154 (Pale Rose)
					79-80	Filter 157 (Pink)
					81-82	Filter 143 (Pale Navy Blue)

						83-84	Filter 162 (Bastard Amber)
						85-86	Filter 164 (Flame Red)
						87-88	Filter 165 (Daylight Blue)
						89-90	Filter 169 (Lilac Tint)
						91-92	Filter 170 (Deep Lavender)
						93-94	Filter 172 (Lagoon Blue)
						95-96	Filter 194 (Surprise Pink)
						97-98	Filter 180 (Dark Lavender)
						99-100	Filter 181 (Congo Blue)
						101-102	Filter 197 (Alice Blue)
						103-104	Filter 201 (Full C.T. Blue)
						105-106	Filter 202 (Half C.T. Blue)
						107-108	Filter 203 (Quarter C.T. Blue)
						109-110	Filter 204 (Full C.T. Orange)
						111-112	Filter 219 (Fluorescent Green)
						113-114	Filter 206 (Quarter C.T. Orange)
						115-116	Filter 247 (Filter Minus Green)
						117-118	Filter 248 (Half Minus Green)
						119-120	Filter 281 (Three Quarter C.T. Blue)
						121-122	Filter 285 (Three Quarter C.T. Orange)
						123-124	Filter 352 (Glacier Blue)
						125-126	Filter 353 (Lighter Blue)
						127-128	Filter 507 (Madge)
						129-130	Filter 778 (Millennium Gold)
						131-132	Filter 793 (Vanity Fair)
						133-235	No function
						236-245	Rainbow effect (with fade time) from slow-> fast
						246-255	Rainbow effect (without fade time) from slow-> fast
8	8	8	8	8	8		Background - Red(8 bit)***

						0 - 255	Colour saturation control - coarse 0-100% (255=default)
*	9	9	9	9	9		Background - Red (16bit)***
						0 - 255	Colour saturation control - fine (255=default)
9	10	10	10	10	10		Background - Green (8 bit)***
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
*	11	11	11	11	11		Background - Green(16bit) ***
						0 - 255	Colour saturation control - fine (255=default)
10	12	12	12	12	12		Background - Blue (8 bit)***
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
*	13	13	13	13	13		Background - Blue(16bit)***
						0 - 255	Colour saturation control - fine (255=default)
11	14	14	14	14	14		Background - White (8 bit) - all pixels
						0-255	Colour saturation control - coarse 0-100% (255=default)
*	15	15	15	15	15		Background - White (16 bit) - all pixels
						0 - 255	Colour saturation control - fine (255=default)
12	16	16	16	16	16	000-255	No function
13	17	17	17	17	17		Background - Shutter/ strobe
						0 - 31	Shutter closed
						32 - 63	Shutter open (32=default)
						64 - 95	Strobe effect from slow to fast
						96 - 127	Shutter open
						128 - 143	Opening pulse in sequences from slow to fast

						144 - 159	Closing pulse in sequences from fast to slow
						160 - 191	Shutter open
						192 - 223	Random strobe effect from slow to fast
						224 - 255	Shutter open
14	18	18	18	18	18		Background - Dimmer intensity (8 bit)
						0 - 255	Dimmer intensity from 0% to 100% (255=default)
*	19	19	19	19	19		Background Dimmer intensity - fine (16 bit)
						0 - 255	Fine dimming (255=default)
15	20	20	20	20	20	000-255	No Function
16	21	21	21	21	21		Flower Effect 1
						0	Open position-without Flower Effect (0=default)
						1 - 127	Flower Effect forwards rotation from fast to slow
						128-255	Backwards rotation from slow to fast
17	22	22	22	22	22		Flower Effect 1 - Red (8 bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
18	23	23	23	23	23		Flower Effect 1 - Green (8 bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
19	24	24	24	24	24		Flower effect 1 - Blue (8 bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
20	25	25	25	25	25		Flower Effect 1 - White (8 bit)

						0-255	Colour saturation control - coarse 0-100% (255=default)
21	26	26	26	26	26		Flower Effect 1 - Shutter/ strobe
						0 - 31	Shutter closed
						32 - 63	Shutter open (32=default)
						64 - 95	Strobe-effect from slow to fast
						96 - 127	Shutter open
						128 - 143	Opening pulse in sequences from slow to fast
						144 - 159	Closing pulse in sequences from fast to slow
						160 - 191	Shutter open
						192 - 223	Random strobe-effect from slow to fast
						224 - 255	Shutter open
22	27	27	27	27	27		Flower Effect 1 - Dimmer intensity (8 bit)
						0 - 255	Dimmer intensity from 0% to 100% (255=default)
23	28	28	28	28	28		Flower Effect 2
						0	Open position-without Flower Effect (0=default)
						1 - 127	Flower Effect forwards rotation from fast to slow
						128-255	Backwards rotation from slow to fast
24	29	29	29	29	29		Flower Effect 2 - Red (8 bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
25	30	30	30	30	30		Flower Effect 2 - Green(8 bit)

						0 - 255	Colour saturation control - coarse 0-100% (255=default)
26	31	31	31	31	31		Flower effect 2 - Blue(8 bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
27	32	32	32	32	32		Flower Effect 2 - White (8 bit)
						0-255	Colour saturation control - coarse 0-100% (255=default)
28	33	33	33	33	33		Flower Effect 2 - Shutter/ strobe
						0 - 31	Shutter closed
						32 - 63	Shutter open (32=default)
						64 - 95	Strobe-effect from slow to fast
						96 - 127	Shutter open
						128 - 143	Opening pulse in sequences from slow to fast
						144 - 159	Closing pulse in sequences from fast to slow
						160 - 191	Shutter open
						192 - 223	Random strobe-effect from slow to fast
						224 - 255	Shutter open
29	34	34	34	34	34		Flower Effect 2 - Dimmer intensity (8 bit)
						0 - 255	Dimmer intensity from 0% to 100% (255=default)
30	35	35	35	35	35		Master Zoom
						0-255	Zoom from max. to min.beam angle (128=default)
*	36	36	36	36	36		Master Zoom - fine
						0-255	Fine zooming (0=default)
31	37	37	37	37	37		Zoom 1

						0-255	Zoom from max. to min.beam angle (128=default)
*	38	38	38	38	38		Zoom 1 - fine
						0-255	Fine zooming (0=default)
32	39	39	39	39	39		Zoom 2
						0-255	Zoom from max. to min.beam angle (128=default)
*	40	40	40	40	40		Zoom 2- fine
						0-255	Fine zooming (0=default)
*	41	*	*	41	41		Pattern selection
						0-2	No pattern (0=default)
						3-4	Pattern 1
						5-6	Pattern 2
						7-8	Pattern 3
						9-10	Pattern 4
						11-12	Pattern 5
						13-14	Pattern 6
						15-16	Pattern 7
						17-18	Pattern 8
						19-20	Pattern 9
						21-22	Pattern 10
						23-26	Pattern 11
27-255	No function						
*	42	*	*	42	42		Pattern - Repeat (Size)
						0-2	Effect 1 (0=default)
						3-4	Effect 2
						5-6	Effect 3
						7-8	Effect 4
						9-10	Effect 5
						11-12	Effect 6
						13-14	Effect 7
						15-16	Effect 8
17-18	Effect 9						

						19-20	Effect 10
						21-22	Effect 11
						23-24	Effect 12
						25-26	Effect 13
						27-28	Effect 14
						29-30	Effect 15
						31-32	Effect 16
						33-34	Effect 17
						35-255	No function
							Pattern - Movement
						0	No movement
						1-127	Pattern movement from fast to slow
						128	Pause - without movement (128=default)
						129-255	Backwards pattern movement from slow to fast
*	43	*	*	43	43		
*	44	*	*	44	44	000-255	No Function
*	45	*	*	45	45	000-255	No Function
*	46	*	*	46	46	000-255	No Function
							Pattern - Red (8-bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
							Pattern - Green (8-bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
							Pattern - Blue (8-bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
							Pattern - White (8-bit)
						0 - 255	Colour saturation control - coarse 0-100% (255=default)
*	47	*	*	47	47		
*	48	*	*	48	48		
*	49	*	*	49	49		
*	50	*	*	50	50		
*	51	*	*	51	51		Pattern - Colour macro

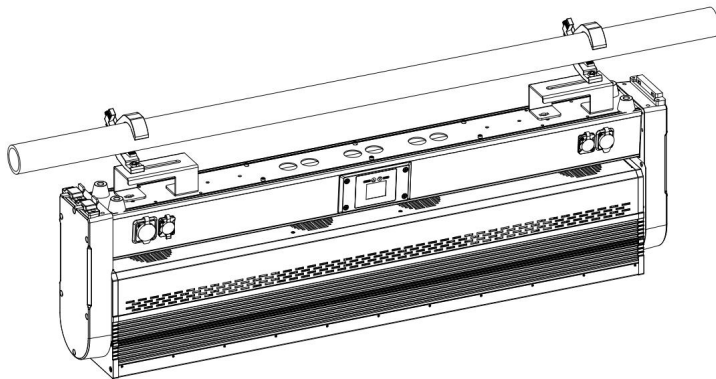
						0-2	No macro (0=default)
							Macros 2-23 allow control of colour change speed from max. to
							min.
						3-8	Macro 1
						9-14	Macro 2
						15-20	Macro 3
						21-26	Macro 4
						27-32	Macro 5
						33-38	Macro 6
						39-44	Macro 7
						45-50	Macro 8
						51-56	Macro 9
						57-62	Macro 10
						63-68	Macro 11
						69-74	Macro 12
						75-80	Macro 13
						81-86	Macro 14
						87-92	Macro 15
						93-98	Macro 16
						99-104	Macro 17
						105-110	Macro 18
						111-116	Macro 19
						117-122	Macro 20
						123-128	Macro 21
						129-134	Macro 22
						135-140	Macro 23
						141-255	No function

*	52	*	*	52	52		Pattern - Shutter/ strobe
						0 - 31	Shutter closed
						32 - 63	Shutter open (32=default)
						64 - 95	Strobe effect from slow to fast
						96 - 127	Shutter open
						128 - 143	Opening pulse in sequences from slow to fast
						144 - 159	Closing pulse in sequences from fast to slow
						160 - 191	Shutter open
						192 - 223	Random strobe effect from slow to fast
224 - 255	Shutter open						
*	53	*	*	53	53	0 - 255	No Function
33	54	41	41	54	54		Master Shutter/ strobe
						0 - 31	Shutter closed
						32 - 63	Shutter open (32=default)
						64 - 95	Strobe effect from slow to fast
						96 - 127	Shutter open
						128 - 143	Opening pulse in sequences from slow to fast
						144 - 159	Closing pulse in sequences from fast to slow
						160 - 191	Shutter open
						192 - 223	Random strobe effect from slow to fast
224 - 255	Shutter open						
34	55	42	42	55	55		Master Dimmer intensity (8 bit)
						0 - 255	Dimmer intensity from 0% to

							100% (0=default)
*	56	43	43	56	56		Master Dimmer intensity - fine (16 bit)
						0 - 255	Fine dimming (0=default)
*	*	44	44	57	57		Red pixel 1
						0-255	Red LED saturation control 0-100% (0=default)
*	*	45	45	58	58		Green pixel 1
						0-255	Green LED saturation control 0-100% (0=default)
*	*	46	46	59	59		Blue pixel 1
						0-255	Blue LED saturation control 0-100% (0=default)
*	*	*	47	*	60		White pixel 1
						0-255	White LED saturation control 0-100% (0=default)
							:
*	*	95	112	108	125		Red pixel 18
						0-255	Red LED saturation control 0-100% (0=default)
*	*	96	113	109	126		Green pixel 18
						0-255	Green LED saturation control 0-100% (0=default)
*	*	97	114	110	127		Blue pixel 18
						0-255	Blue LED saturation control 0-100% (0=default)
*	*	*	115	*	128		White pixel 18
						0-255	White LED saturation control 0-100% (0=default)

6. Installation

6.1 Mounting & Rigging



Mounting & Rigging

- Attach Mounting Hardware

Install the 2 × ¼-turn quick-lock Omega brackets to the base, then secure suitable rated C- or O-clamps to the brackets.

- Position and Rig the Fixture

Mount the fixture onto a stable truss or structure using clamps rated to hold at least 10× the fixture's weight.

Always lift the fixture using the handles—not the clamps.

- Install the Safety Cable

Run the safety cable through the two safety-cable holes on the base and secure it to an independent safety point.

Ensure the safety cable is rated for 10× the fixture's weight.

- Ensure Ventilation

Verify that fans and ventilation openings are unobstructed and that sufficient space is available around the fixture.

- Lock / Unlock Pan & Tilt

Lock Pan and Tilt before moving the fixture.

Unlock them before powering on.

Never operate the fixture while Pan/Tilt is locked.

- Final Stability Check

Ensure all clamps, screws, and safety cable connections are firmly secured, and confirm the mounting structure can support the fixture's weight.

6.2 Power connection

Please checking the power equipment supported.

Please put the plug of power source wire connect with the main power source .

(EU)Wire	Wire(America)	Direction of wire	General marks
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

6.3 DMX Control Connection

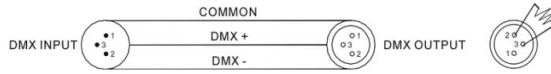
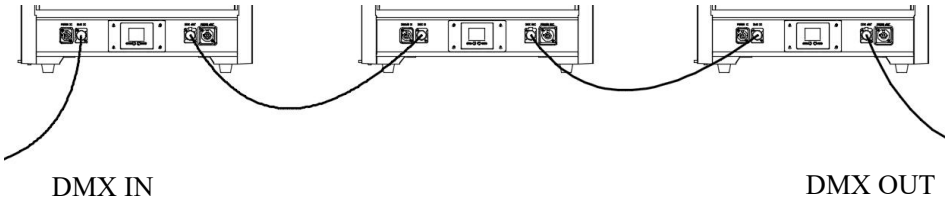
This fixture supports DMX512 (1990) control protocol and is equipped with 3-pin XLR connectors for data input and output. Use a twin-screened DMX cable with conductors of at least 0.5 mm² , ensuring correct wiring for the selected connector type.

Connect the controller's DMX OUT to the first fixture's DMX IN, then link fixtures DMX OUT → DMX IN in a daisy-chain. For optimal signal integrity, install a **DMX terminator** on the DMX OUT of the final fixture.

Ensure no pin makes contact with the connector housing or other pins.

Before use, test cables with an ohm meter to verify correct polarity and to ensure no pins or shield are shorted to ground, as this may result in data errors or unstable operation.

For convenience, connect fixtures in the physical order they are installed, rather than by DMX address sequence.



7. Maintenance & Cleaning

Regular maintenance is essential to ensure optimal performance and extend the service life of the fixture.

7.1 Cleaning

Disconnect the unit from power before any cleaning work.

Use a soft, lint-free cloth slightly dampened with mild detergent to clean the exterior surfaces.

Gently remove dust from ventilation slots, optical lenses, and cooling components using compressed air or a soft brush.

Avoid using solvents, alcohol, or abrasive materials that may damage the housing or optical elements.

7.2 Lubrication

This fixture is designed with sealed or maintenance-free moving parts. Under normal operating conditions, no additional lubrication is required.

If abnormal noise or movement resistance is observed, contact qualified service personnel before applying any lubricant.

7.3 Troubleshooting

If the fixture does not power on, verify the power supply, cables, and connectors.

For control issues, check DMX addressing, cable integrity, and ensure proper 3-pin/5-pin XLR connections.

Overheating or unexpected shutdown may indicate blocked ventilation; inspect and clean air inlets and outlets.

If problems persist after basic checks, discontinue use and contact authorized service technicians.



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