



Starlink20

LH -S2040

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

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Accessories

Name	Quantity	Remark
User manual	1pc	
Folding 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

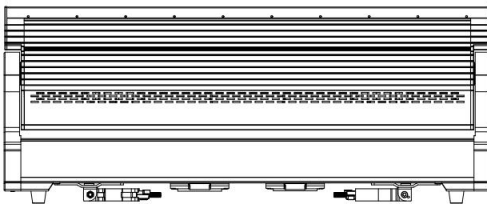
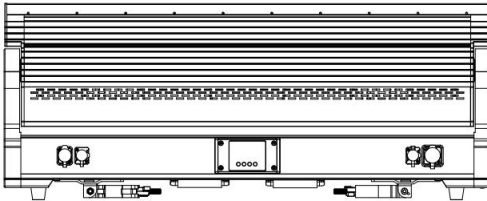
Use the safety cord through the provided safety holes. Keep at least 50 cm ventilation clearance and do not mount on flammable surfaces or aim the beam at combustible objects (minimum 20 m).

- 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.

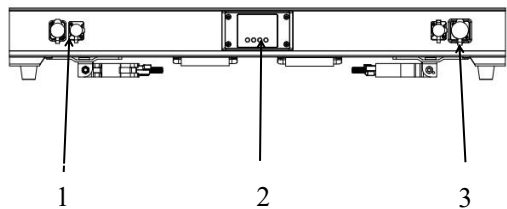
2. Appearance

Front side & back side



Front panel

1. Power in / DMX in
2. Display panel
3. DMX out / Power in
4. Foldable light hook



3. Technical Specifications

Power

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

Power Consumption:650W

Light source

Light Source: 20 × 40W RGBW LED

Life expectancy: About 20000 hours (factory rated)

Variable CTO: 3200-7200K linearly adjustable

Zoom range

Zoom range: 3°-60°

Motorized Zoom:2 independent zoom zones

Control

Display: LCD display

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

Channel: 20/ 34/ 35/ 48/ 49/ 88/ 89CH

Dimming/Strobe

Dimming: 0-100% linear dimming system

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

LED Feature:

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

Head movement

Tilt : 205°; 16 bit movement resolution

Housing

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

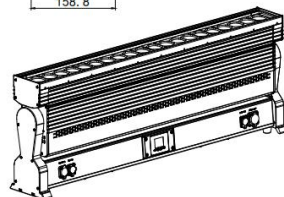
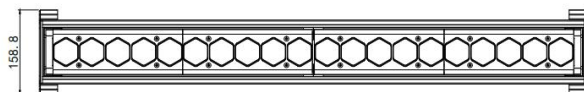
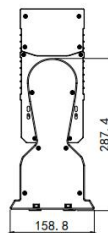
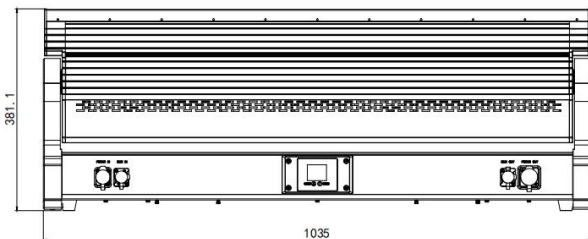
Product dimensions

1035×158.8×381.1mm

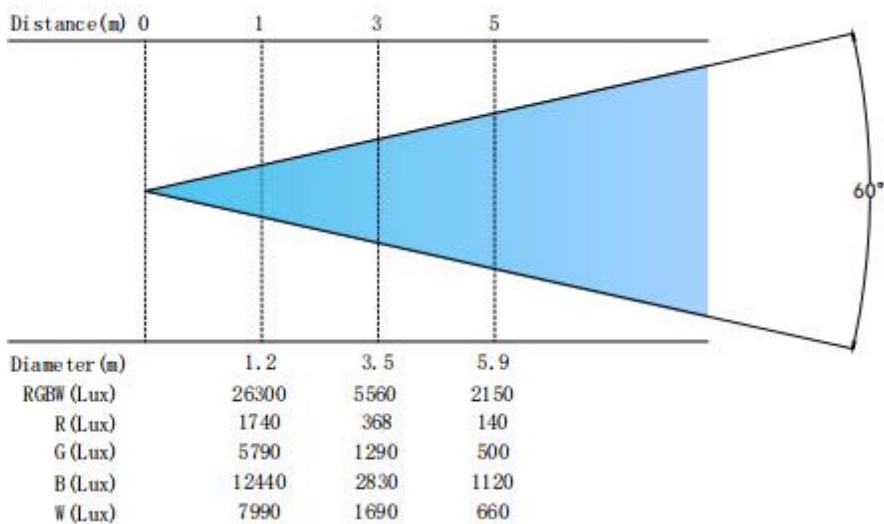
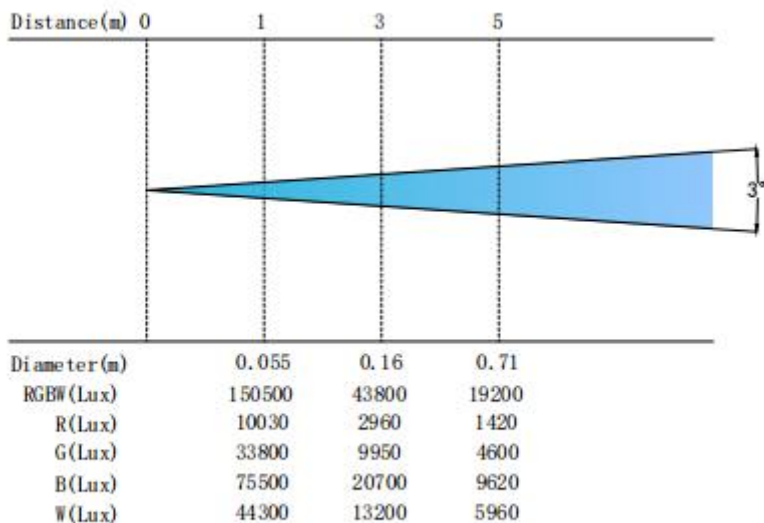
Net weight

25.5KG

Dimensions:

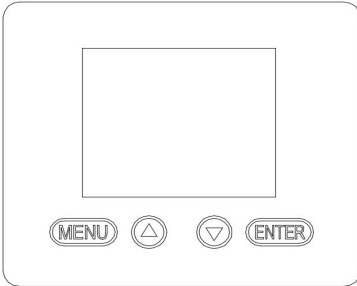


Light output:



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	
RESET	Yes	
	No	
MANUAL	ZOOM1	0-255
	ZOOM2	0-255
	Tilt	0-255

	Strobe	0-255
	White	0-255
	Blue	0-255
	Green	0-255
	Red	0-255
INFO	Version	V1.12
SET	English	YES
		NO
	Slave	YES
		NO
	Signal Keep	YES
		NO
	Display	YES
		NO
TEST	ALL	
DMX MODE	35/20/34/89/88/49/48CH	
RUN	AUTO	
	DMX512	
	SOUND	

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(20/ 34/ 35/ 48/ 49/ 88/ 89CH 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 21, Fixture 3 to 41, Fixture 4 to 61, etc.

DMX Mode	Fixture1	Fixture2	Fixture3	Fixture4	...
20CH	001	21	41	61	...

34CH	001	35	69	103	...
35CH	001	36	71	107	...
48CH	001	49	97	145	...
49CH	001	50	99	148	...
88CH	001	89	177	265	...
89CH	001	90	189	288	...

5. DMX Protocol

48CH	49CH	88CH	89CH	DMX	function
1	1	1	1-Tilt-high	0-255	Tilt coarse
2	2	2	2-Tilt-low	0-255	Tilt fine
3	3	3	3-Shutter	0-15	Shutter closed
				16-47	Shutter pulse random
				48-79	Fade on,snap off
				80-111	Snap on,fade off
				112-143	Fade on,fade off
				144-199	Strobe random
				200-239	Strobe effect slow-fast
				240-255	Shutter closed
4	*	4		0-255	Intensity
*	4	*	4-intensity-high	0-255	Intensity-coarse
*	5	*	5-intensity-low	0-255	Intensity fine
5	6	5	6-CTO	0-7	NO CTO
				8-255	Continuous-color-temperature correction
6	7	6	7-special	252-255	reset
7	8	7	8-crossfade	0-255	blank
8	9	8	9-Zoom	0-255	Wide(flood)-narrow(spot)
9	10	9	10-Set 1 R	0-255	Mixing system R
10	11	10	11-Set 1 G	0-255	Mixing system B
11	12	11	12-Set 1 B	0-255	Mixing system B
12	13	12	13 -Set 1 W	0-255	Mixing system W
9	10	13	14 Set 2 R	0-255	Mixing system R
10	11	14	15 Set 2 G	0-255	Mixing system G
11	12	15	16 Set 2 B	0-255	Mixing system B
12	13	16	17 Set 2 W	0-255	Mixing system W
13	14	17	18 Set 3 R	0-255	Mixing system R
14	15	18	19 Set 3 G	0-255	Mixing system G

15	16	19	20 Set 3 B	0-255	Mixing system B
16	17	20	21 Set 3 W	0-255	Mixing system W
13	14	21	22 Set 4 R	0-255	Mixing system R
14	15	22	23 Set 4 G	0-255	Mixing system G
15	16	23	24 Set 4 B	0-255	Mixing system B
16	17	24	25 Set 4 W	0-255	Mixing system W
17	18	25	26 Set 5 R	0-255	Mixing system R
18	19	26	27 Set 5 G	0-255	Mixing system G
19	20	27	28 Set 5 B	0-255	Mixing system B
20	21	28	29 Set 5 W	0-255	Mixing system W
17	18	29	30 Set 6 R	0-255	Mixing system R
18	19	30	31 Set 6 G	0-255	Mixing system G
19	20	31	32 Set 6 B	0-255	Mixing system B
20	21	32	33 Set 6 W	0-255	Mixing system W
21	22	33	34 Set 7 R	0-255	Mixing system R
22	23	34	35 Set 7 G	0-255	Mixing system G
23	24	35	36 Set 7 B	0-255	Mixing system B
24	25	36	37 Set 7 W	0-255	Mixing system W
21	22	37	38 Set 8 R	0-255	Mixing system R
22	23	38	39 Set 8 G	0-255	Mixing system G
23	24	39	40 Set 8 B	0-255	Mixing system B
24	25	40	41 Set 8 W	0-255	Mixing system W
25	26	41	42 Set 9 R	0-255	Mixing system R
26	27	42	43 Set 9 G	0-255	Mixing system G
27	28	43	44 Set 9 B	0-255	Mixing system B
28	29	44	45 Set 9 W	0-255	Mixing system W
25	26	45	46 Set 10 R	0-255	Mixing system R
26	27	46	47 Set 10 G	0-255	Mixing system G
27	28	47	48 Set 10 B	0-255	Mixing system B
28	29	48	49 Set 10 W	0-255	Mixing system W
29	30	49	50 Set 11 R	0-255	Mixing system R
30	31	50	51 Set 11 G	0-255	Mixing system G

Cruiser LED 1000 BWSF

31	32	51	52 Set 11 B	0-255	Mixing system B
32	33	52	53 Set 11 W	0-255	Mixing system W
29	30	53	54 Set 12 R	0-255	Mixing system R
30	31	54	55 Set 12 G	0-255	Mixing system G
31	32	55	56 Set 12 B	0-255	Mixing system B
32	33	56	57 Set 12 W	0-255	Mixing system W
33	34	57	58 Set 13 R	0-255	Mixing system R
34	35	58	59 Set 13 G	0-255	Mixing system G
35	36	59	60 Set 13 B	0-255	Mixing system B
36	37	60	61 Set 13 W	0-255	Mixing system W
33	34	61	62 Set 14 R	0-255	Mixing system R
34	35	62	63 Set 14 G	0-255	Mixing system G
35	36	63	64 Set 14 B	0-255	Mixing system B
36	37	64	65 Set 14 W	0-255	Mixing system W
37	38	65	66 Set 15 R	0-255	Mixing system R
38	39	66	67 Set 15 G	0-255	Mixing system G
39	40	67	68 Set 15 B	0-255	Mixing system B
40	41	68	69 Set 15 W	0-255	Mixing system W
37	38	69	70 Set 16 R	0-255	Mixing system R
38	39	70	71 Set 16 G	0-255	Mixing system G
39	40	71	72 Set 16 B	0-255	Mixing system B
40	41	72	73 Set 16 W	0-255	Mixing system W
41	42	73	74 Set 17 R	0-255	Mixing system R
42	43	74	75 Set 17 G	0-255	Mixing system G
43	44	75	76 Set 17 B	0-255	Mixing system B
44	45	76	77 Set 17 W	0-255	Mixing system W
41	42	77	78 Set 18 R	0-255	Mixing system R
42	43	78	79 Set 18 G	0-255	Mixing system G
43	44	79	80 Set 18 B	0-255	Mixing system B
44	45	80	81 Set 18 W	0-255	Mixing system W
45	46	81	82 Set 19 R	0-255	Mixing system R
46	47	82	83 Set 19 G	0-255	Mixing system G

47	48	83	84 Set 19 B	0-255	Mixing system B
48	49	84	85 Set 19 W	0-255	Mixing system W
45	46	85	86 Set 20 R	0-255	Mixing system R
46	47	86	87 Set 20 G	0-255	Mixing system G
47	48	87	88 Set 20 B	0-255	Mixing system B
48	49	88	89 Set 20 W	0-255	Mixing system W

20CH	34CH	35CH	DMX	function
1	-	-	-	reserved
2	-	-	-	reserved
3	1	1-Tilt-high	0-255	Tilt coarse
4	2	2-Tilt-low	0-255	Tilt fine
*	3	3-Zoom	0-255	Wide(flood)-narrow
*	4	4-CTO	0-7	NO CTO
			8-255	Continuous-color-temperature correction
5	5	5-Set-1 color(fixed)	0-7	No color
			8-14	Color 01-Red
			15-21	Color 02-Amber
			22-28	Color 03-warm white Color
			29-35	Color 04-yellowColor
			36-42	05- light green Color
			43-49	06-light blue
			50-57	Color 07-rose red
			58-63	Color 08-blue
			64-70	Color 09-pink
			71-77	Color 10-warm white
			78-91	Color 11-magenta
			92-98	Color 12-white
			99-105	No function
106-126	Red			
127-255	No function			

6	6	6-Set 1 red	0-255	Mixing system R
7	7	7-Set 1green	0-255	Mixing system G
8	8	8-Set 1 blue	0-255	Mixing system B
9	9	9-Set 1 white	0-255	Mixing system W
	10	10-Set 1intensity	0-255	intensity
10	11	11-Shutter	0-15	Shutter closed
			16-47	Shutter pulse random
			48-79	Fade on,snap off
			80-111	Snap on,fade off
			112-143	Fade on,fade off
			144-199	Strobe random
			200-239	Strobe effect slow-fast
		240-255	Shutter closed	
*	*	12intensity-high	0-255	Intensity-coarse
11	12		0-255	intensity
12	*	*	0-7	NO CTO
	*	*	8-255	Continuous-color-temperature correction
		13intensity-low	0-255	Intensity-low
13	13	14 special	252-255	reset
14	*	*	0-255	Background color
15	*	*	0-255	Background dimmer
16	*	*	0-255	Zoom Wide-narrow
17	*	*	0-255	auto
18	*	*	0-255	speed
19	*	*	-	reserved
20	*	*	-	reserved
*	14	15 set 2 color		Values see channel 5
	15	16 set 2 R	0-255	Mixing system R
	16	17 set 2 G	0-255	Mixing system G
	17	18 set 2 B	0-255	Mixing system B

18	19 set 2 W	0-255	Mixing system W
19	20 set 2 intensity	0-255	intensity
20	21 set 3 color	-	Values see channel 5
21	22 set 3 R	0-255	Mixing system R
22	23 set 3 G	0-255	Mixing system G
23	24 set 3 B	0-255	Mixing system B
24	25 set 3 W	0-255	Mixing system W
25	26 Set 3 intensity	0-255	intensity
26	27 crossfade	0-255	blank
27	28 star effect	0-255	blank
28	*	0-255	effect
29	29 set 1 pattern select	0-255	speed
*	30set 1 pattern movement	0-255	blank
30	31 set 2 pattern select	0-255	blank
31	32 set pattern movement	0-255	blank
32	33 pixel select 1-8	0-255	blank
33	34 pixel select 9-16	0-255	blank
34	35 pixel select 17-20	0-255	blank

6. Installation

6.1 Mounting & Rigging

- Prepare the fixture

Ensure the fixture is in good condition and the ventilation openings are unobstructed.

- Mount using the built-in folding clamp

Hang the fixture directly onto the truss or mounting structure using the integrated folding clamp.

Always lift or carry the fixture using the handles—not the clamp.

- Install the safety cable

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

The safety cable must be rated to withstand 10× the fixture’s weight.

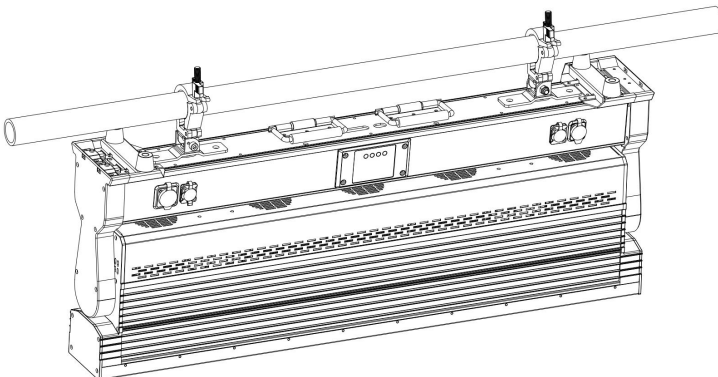
- Lock / Unlock Pan & Tilt

Lock Pan and Tilt before moving the fixture; unlock them before powering on.

Do not operate the fixture while Pan/Tilt is locked.

- Final Safety Check

Confirm the hook is fully engaged, the safety cable is properly secured, and the mounting structure can safely 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

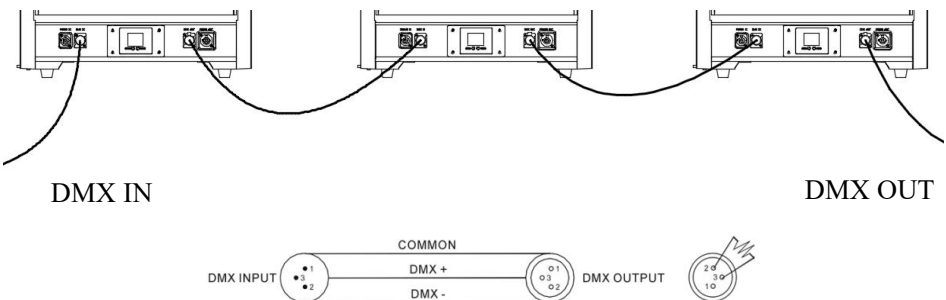
This fixture supports DMX512 (1990) control protocol and is equipped with 3-pin XLR connectors for data input and output. Use a twin-screened DMX cable with conductors of at least 0.5 mm² , ensuring correct wiring for the selected connector type.

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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