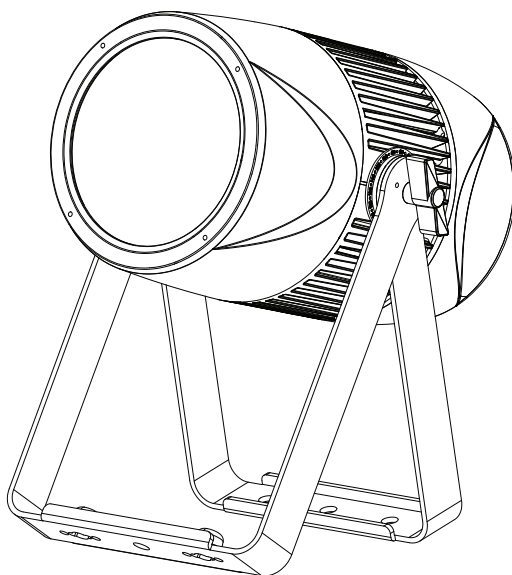
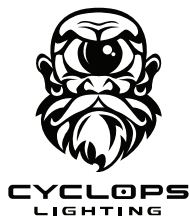


BOOMER 407

7X40W RGBW ZOOM LED PAR



USER MANUAL



PRODUCT
DOCUMENTATION



DMX
CHART

www.cyclopslighting.com

INDEX

1. Safety Information 03

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Please read carefully before use

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

1. SAFETY INFORMATION

Before you operate this unit read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. Keep in mind that this manual cannot address all possible dangers and environments. Please use your own caution when operating. This product is for professional use only. It is not for household use.



- Do not operate the unit in areas of high temperature conditions. It will cause abnormal function or damage the product.
- Always use a suitable safety wire when mounting the light overhead.
- Connect the safety wire only to the intended safety mount.
- Always follow local safety requirements.



- Only qualified personnel may repair this product.
- Do not open the product housing.
- Do not apply power if the light is damaged.



- Do not directly look into the light.
- It can cause harm to your eyes.
- Do not look at the LEDs with a magnifying glass or any other optical instrument that may concentrate the light output.
- Please don't look at the light directly when the light's radiation temperature reach 40 °C



- The exterior surfaces of the light can become hot, up to 55°C during normal operation.
- Ensure that accidental physical contact with the device is impossible.
- Install only in ventilated locations.
- Do not cover the light.



- Always charge with the flight case open.
- It is recommended to charge at a temperature between 15°C and 35°C



- Do not look directly at the light source.



- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose is according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed.



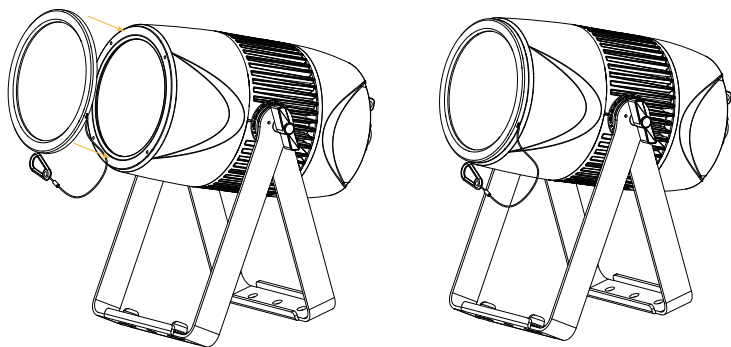
—2.0m ta 45 °C

2. TECHNICAL SPECIFICATIONS

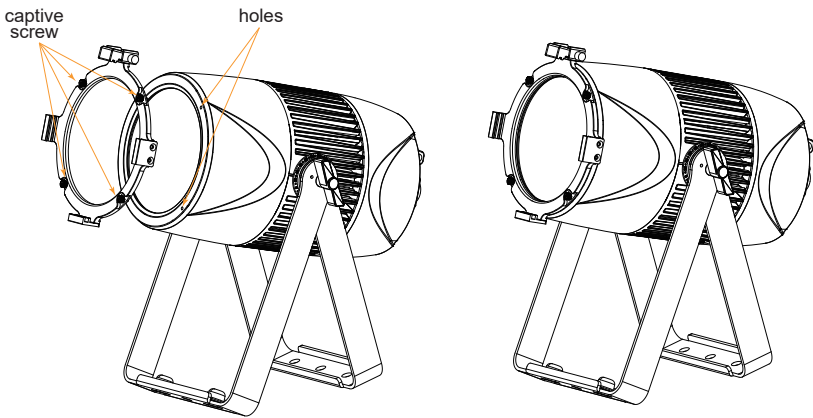
- Light Source: 7*40W, 4 in 1 RGBW LEDs
- Lens: 4.3° ~ 45°
- Power consumption: 250W
- Voltage: 100V -240V, 50/60Hz
- Run Mode: DMX 512 /Master Slave/Auto Run
- 4 different dimming curve
- DMX Channels: 4, 5, 7, 13 & 17 CH
- Built-in Effect: color mixing, variable color chasing, strobing and fading.
- TFT displayer with four buttons
- Material: Aluminum body
- IP65
- Temperature: -40 °C ~ 45 °C
- Dimension: 333 X 286 X 395.5 mm
- N.W: 7.56 KG
- G.W: 9.5 KG

3. INSTALLATION

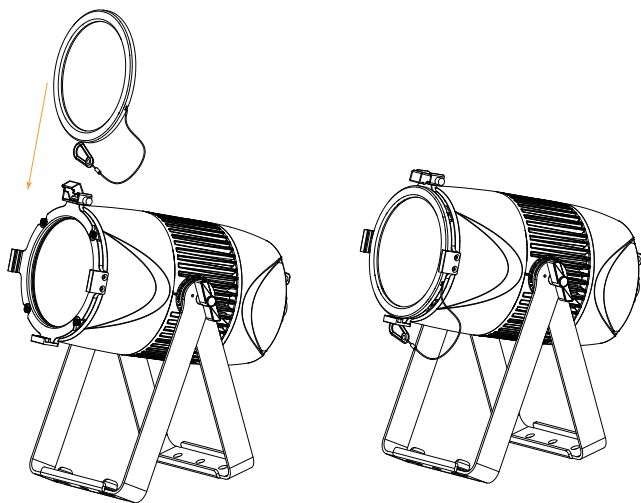
Magnetic frost filter - When used alone, the Magnetic frost filter can be directly attached to the fixture.



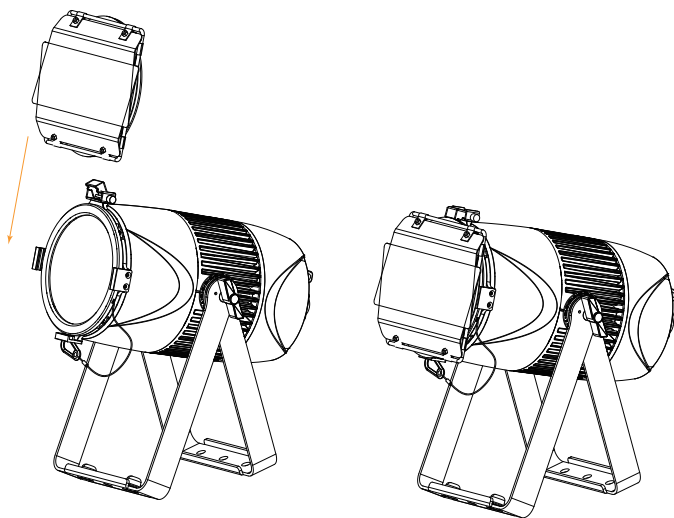
Installation of the Barndoor + Magnetic frost filter:



Step 1: Align the retaining screws on the barndoor mounting plate with the holes on the fixture head for installation.



Step 2: Open the movable locking block and slide the magnetic frost filter to the bottom position.



Step 3: Slide the barndoor to the upper position and close the movable locking block.

4. CONTROL PANEL

4.1. Control Display



LCD Touch Screen

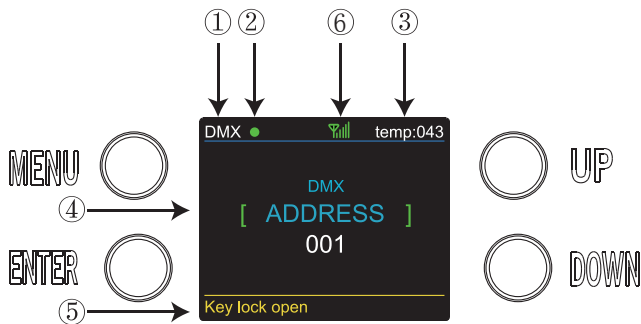


Press arrows to scroll up and down inside the menu and change values, such as DMX address

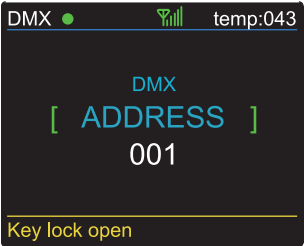
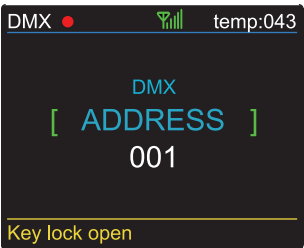
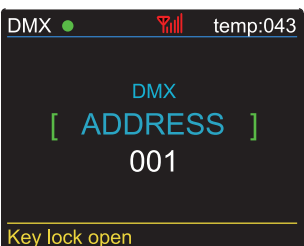
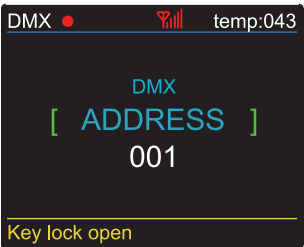


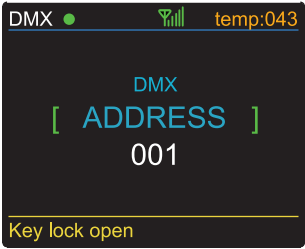
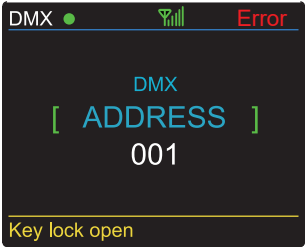
Press ENTER to access the selection menu for system settings or confirm changes

4.2. Displayer Introduction

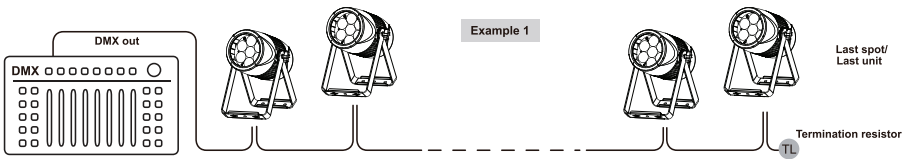


1. When you enter DMX Mode, it will be showed DMX, when you enter SLAVE Mode, it will be showed SLAVE.
2. This shows the condition of signal transmission. Green is connected. Red is disconnected.
3. This shows the temperature of the lights.
4. This shows the menus you can select.
5. This shows the condition of key lock. "Key lock open" means it is open and "Key lock off" means it is close.
6. This shows the condition of wireless signal. Green is connected. Red is disconnected.

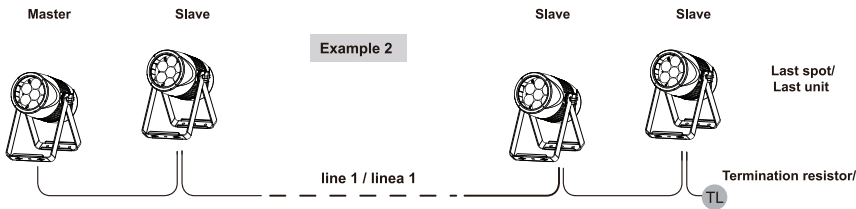
 A screenshot of a device's status screen. At the top, 'DMX' is followed by a green dot and a green wireless signal icon, and 'temp:043' is on the right. The center displays 'DMX' in blue, '[ADDRESS]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.	While DMX and Wireless signal are green,it means DMX Mode and Wireless are connected.
 A screenshot of a device's status screen. At the top, 'DMX' is followed by a red dot and a green wireless signal icon, and 'temp:043' is on the right. The center displays 'DMX' in blue, '[ADDRESS]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.	While DMX shows red but Wireless signal shows green,it means DMX Mode is disconnected and Wireless is connected.
 A screenshot of a device's status screen. At the top, 'DMX' is followed by a green dot and a red wireless signal icon, and 'temp:043' is on the right. The center displays 'DMX' in blue, '[ADDRESS]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.	While DMX shows green but Wireless signal shows red,it means DMX Mode is connected and Wireless is disconnected.
 A screenshot of a device's status screen. At the top, 'DMX' is followed by a red dot and a red wireless signal icon, and 'temp:043' is on the right. The center displays 'DMX' in blue, '[ADDRESS]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.	While DMX and Wireless are show red,it means DMX Mode and Wireless are disconnected.

	While the letters and number show change from white to yellow, it means the temperature beyond max temperature of default settings.
	While the letters and numbers show Error, it means they have some problems with temperature.

1.DMX connection



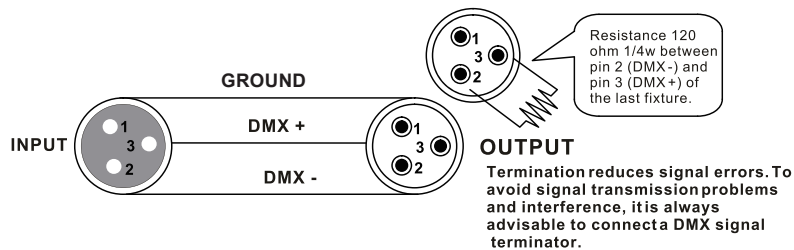
2.Master / Slave connection



3.CABLE CONNECTORS

Cabling must have a male XLR connector on one’s end and a female XLR connector on the other’s end.

DMX connector configuration



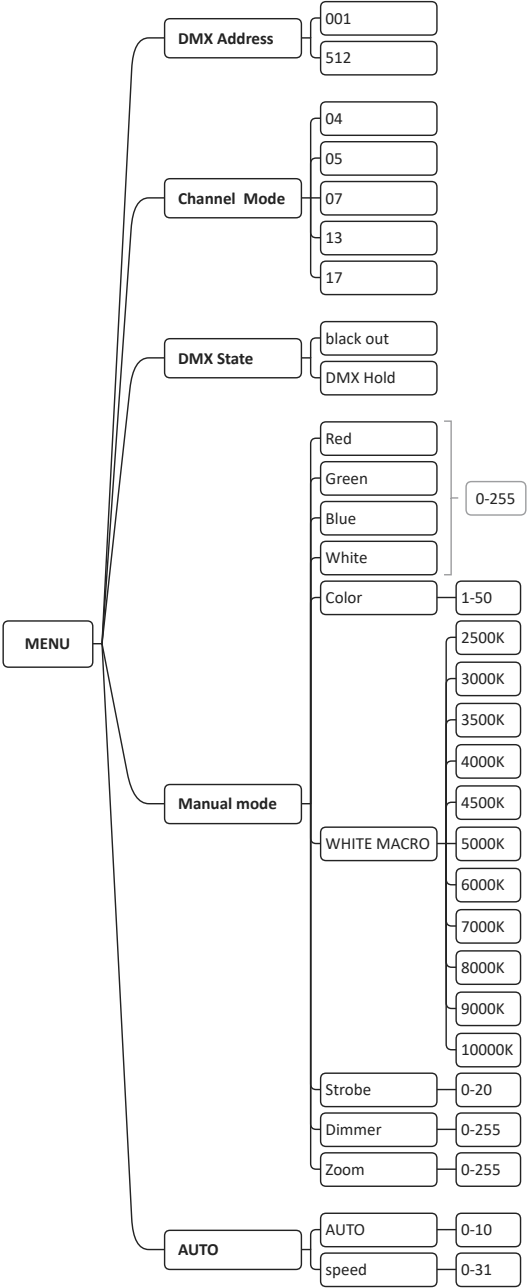
Caution:Do not allow contact between the ground and the fixture’s chassis ground. Grounding the ground can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify positive pole and to make sure the pins are not grounded or shorted to the shield or each other.

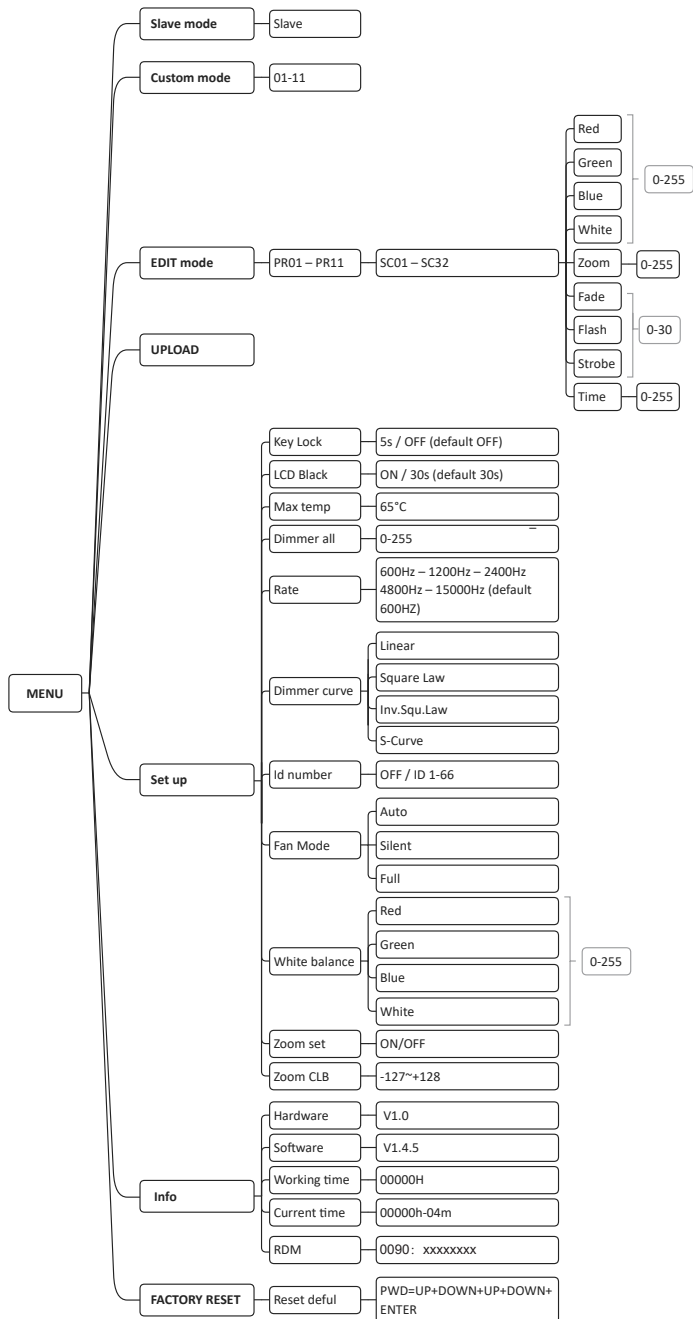
3-PIN TO 5-PIN CONVERSION CHART

Please note if you use a controller with a 5 pin DMX output connector, you need to use a 5 pin to 3 pin adapter. The chart below details a proper cable conversion:

3-PIN TO 5-PIN CONVERSION CHART		
Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

PROGRAMME MENU





5. MENU OPERATION & SETTINGS

Address - DMX Address Setting via control board.

1. Press "ENTER" button, then press the "UP" button or "DOWN" button until "Address" is showed.
2. Press "ENTER" button, "xxx" is showed, "xxx" represents the showed address. Then press "ENTER" to confirm the item. Next press the "UP" or "DOWN" button to select your desired address.

Run Mode - In this menu, you can select the Master/slave mode.

1. Press "ENTER" button, then press the "UP" button or "DOWN" button until "Run Mode" is showed.
2. Press "ENTER" button again, then "slave" is showed, and Slave mode is confirmed. It will perform following the fixture in auto mode and chase mode.

Auto - In this menu you can select your desired Auto mode.

1. Press "ENTER" button, then press the "UP" button or "DOWN" button until "Auto" is showed.
2. Press "ENTER" button again, then "xx auto" or "xx speed" is showed.
3. Press the "UP" button or "DOWN" button to find the "xx auto". Then press "ENTER" to confirm the item. Press the "UP" button or "DOWN" button to select your desirable auto mode.
4. Press "ENTER" button, then press "UP" button or "DOWN" button to find the "xx speed". Press "ENTER" to confirm the item. Next press the "UP" button or "DOWN" button to adjust the speed of auto mode.

Channels mode - You can select your desired channel in this menu.

1. Press "ENTER" button, then press the "UP" button or "DOWN" button until "Channels mode" is showed.
2. Press "ENTER" button again, then "Channel mode xx" is showed. Press "ENTER" to confirm the item. Next press the "UP" button or "DOWN" button to select your desirable channel mode.

Option - Set the data of fixture.

1. Press "ENTER" button, then press the "UP" button or "DOWN" button until "Option" is showed.
2. Press "ENTER" button again, then you can find nice items and adjust the data of them.

(1) color - In this menu, you can select your desired color mode.

- 1) Press "UP" button or "DOWN" button until "color" is showed, then press "ENTER" button.
- 2) "xxx" representing a number between 001~051 will be showed. Press "MENU" to confirm the item. Then press the "UP" or "DOWN" buttons to select your desired color.

(2) static color - In this menu, you can set your desired static color mode and strobe mode

- 1) Press the "UP" button or "DOWN" button until "static color" is showed, then press "ENTER" button.
- 2) There will be five options. Press "MENU" button to confirm the option and then press "UP" or "DOWN" button to set the data you desire as below.

- ① red(000 ~ 255)
- ② green(000 ~ 255)
- ③ blue(000 ~ 255)
- ④ white(000 ~ 255)
- ⑤ strobe(000 ~ 020)

(3) Dim All - In this menu, you can set the brightness of the full color

- 1) Press the "UP" button or "DOWN" button until "Dim color" is showed, then press "ENTER" button.
- 2) "xxx" representing the brightness of full color between 000~255 will be showed. Press "ENTER" to confirm the item. Then press the "UP" or "DOWN" buttons to set the brightness.

(4)CAL WHITE - In this menu, you can set 11 kinds of color temperature white by setting the data of RED, GREEN, BLUE and WHITE.

- 1) Press the "UP" button or "DOWN" button until "Dim color" is showed, then press "ENTER" button.
- 2) "xxx" representing the brightness of full color between 000~255 will be showed. Press "ENTER" to confirm the item. Then press the "UP" or "DOWN" buttons to set the brightness.

(5)Zoom - In this menu, you can set the zoom angle from 8° to 50°.

- 1) Press the "UP" button or "DOWN" button until "Zoom" is showed, then press "ENTER" button.
- 2) "xxx" referring the zoom angle between 000~255 will be showed. Press "MENU" to confirm the item. Then press the "UP" or "DOWN" buttons to set the zoom angle.

(6)ID number - In this menu, you can set the ID number. When you set the ID number, you can control the fixture separately via DMX controller.

- 1) Press the "UP" button or "DOWN" button until "ID number" is showed, then press "ENTER" button.
- 2) "OFF" or "xx" will be showed. "xx" represent the ID number between 1~66. Press "MENU" to confirm the item. Then press the "UP" or "DOWN" buttons to set the ID number.

(7)Factory Reset - In this menu, you can reset the fixture.

- 1) Press the "UP" button or "DOWN" button until "Factory Reset" is showed, then press "ENTER" button.
- 2) Press "ENTER" to reset the fixture.

(8)LCD Black - In this menu, you can set the LCD BLACK time.

- 1) Press the "UP" button or "DOWN" button until "LCD Black" is showed, then press "ENTER" button.
- 2) You will find three selections, "off", "30s" and "60s". Press "ENTER" to confirm the item. Then press the "UP" or "DOWN" buttons to select the option.

"off" represents the displayer will be on all the time.

"30s" represents the displayer will be off if there is no operation with the fixture over 30 seconds.

"60s" represents the displayer will be off if there is no operation with the fixture over 60 seconds.

(9)Key Lock - In this menu, you can set the key lock function.

- 1) Press the "UP" button or "DOWN" button until "Key Lock" is showed, then press "ENTER" button.
- 2) You will find three selections, "off" or "on". Press "ENTER" to confirm the item. Then press the "UP" or "DOWN" buttons to select the option. The password is [DOWN] [UP] [DOWN] [UP].

"off" represents the key lock function is off. And you do not need to input the password before the operation.

"5s" represents the key lock function is off after 5s. And you need to input the password before the operation.

Info - You can check some information of the fixture in this menu.

1. Press "ENTER" button, then press the "UP" button or "DOWN" button until "Info" is showed.
2. Press "ENTER" button again, you will find three options, "Working time", "Software Ver" and "Max Temp". Then press the "UP" button or "DOWN" button to check the information.

- "Working time" represents the lasting time the fixture has been working.

- "Software Ver" represents the software version of the fixture.

- "Max Temp" represents the maximum temperature. The cooling system will start working when the operating temperature of fixture is around the maximum temperature

6. DMX CHANNELS

4 DMX Channel

DMX channel	value	Function
1	000 – 023	No functions
	024 – 027	Red
	028 – 031	Green
	032 – 035	Blue
	036 – 039	Orange
	040 – 043	Cyan
	044 – 047	Magenta
	048 – 051	White
	052 – 055	Yellow
	056 – 059	Pink
	060 – 063	Violet
	064 – 067	Aquamarine
	068 – 071	Pale blue
	072 – 075	Full white
	076 – 079	Cool white
	080 – 083	Day light
	084 – 087	Warm white
	088 – 091	Tungsten
	092 – 095	Medium amber
	096 – 099	Straw
	100 – 103	Spring yellow
	104 – 107	Light rose
	108 – 111	Dark pink
	112 – 115	Magenta 2
	116 – 123	Med blue green
	124 – 127	Blue 2
	128 – 131	Bright pink
	132 – 135	Medium blue
	136 – 139	Violet
	140 – 143	Medium yellow
	144 – 147	Apricot
	148 – 151	Pale yellow
	152 – 155	Pale Lavender
	156 – 159	Pale yellow 2
	160 – 163	Evening blue
	164 – 167	Surprise pink
	168 – 171	Scarlet
	172 – 175	Surprise peach
	176 – 179	Light peach

DMX channel	value	Function
1	180 – 183	Warm white 2
	184 – 187	Mauve
	188 – 191	Bright blue
	192 – 195	Alice blue
	196 – 199	Rose indigo
	200 – 203	Urban blue
	204 – 207	Cool blue
	208 – 211	Light salmon
	212 – 215	Mayan sun
	216 – 219	Cherry rose
	220 – 222	Flesh pink
	223 – 255	Skelton exotic sangria
2	0	No functions
	001 – 023	2500 K
	024 – 047	3000 K
	048 – 071	3500 K
	072 – 095	4000 K
	096 – 119	4500 K
	120 – 143	5000 K
	144 – 167	6000 K
	168 – 191	7000 K
	192 – 215	8000 K
	216 – 225	9000 K
	226 – 255	10000 K
3	000 – 255	Zoom from narrow (000) to wide (255)
4	000 – 200	No functions
	200 – 255	Zoom reset

5 DMX Channel

DMX channel	value	Function
1	000 – 255	Hue
2	000 – 255	Saturation
3	000 – 255	Brightness
4	000 – 255	Zoom
5	000 – 200	No functions
	200 – 255	Zoom reset

7 DMX Channel

DMX channel	value	Function
1	000 – 255	Master dimmer from 0 to 100%
2	000 – 255	Red dimmer
3	000 – 255	Green dimmer
4	000 – 255	Blue dimmer
5	000 – 255	White dimmer
6	000 – 255	Zoom from narrow (000) to wide (255)
7	000 – 200	No functions
	200 – 255	Zoom reset

13 DMX Channel

DMX channel	value	Function
1	000 – 255	Master dimmer from 0 to 100%
2	000 – 009	No function (LED ON)
	010 – 189	Strobe from slow to fast
	190 – 199	No function (LED ON)
	200 – 249	Random strobe from slow to fast
	250 - 255	No function (LED ON)
3	000 – 255	Red dimmer
4	000 – 255	Green dimmer
5	000 – 255	Blue dimmer
6	000 – 255	White dimmer
7	000 – 255	Zoom from narrow (000) to wide (255)
8	000 – 023	No functions
	024 – 027	Red
	028 – 031	Green
	032 – 035	Blue
	036 – 039	Orange
	040 – 043	Cyan
	044 – 047	Magenta
	048 – 051	White
	052 – 055	Yellow
	056 – 059	Pink
	060 – 063	Violet
	064 – 067	Aquamarine
	068 – 071	Pale blue
	072 – 075	Full white
	076 – 079	Cool white
	080 – 083	Day light

DMX channel	value	Function
8	084 – 087	Warm white
	088 – 091	Tungsten
	092 – 095	Medium amber
	096 – 099	Straw
	100 – 103	Spring yellow
	104 – 107	Light rose
	108 – 111	Dark pink
	112 – 115	Magenta 2
	116 – 123	Med blue green
	124 – 127	Blue 2
	128 – 131	Bright pink
	132 – 135	Medium blue
	136 – 139	Violet
	140 – 143	Medium yellow
	144 – 147	Apricot
	148 – 151	Pale yellow
	152 – 155	Pale Lavender
	156 – 159	Pale yellow 2
	160 – 163	Evening blue
	164 – 167	Surprise pink
	168 – 171	Scarlet
	172 – 175	Surprise peach
	176 – 179	Light peach
	180 – 183	Warm white 2
	184 – 187	Mauve
	188 – 191	Bright blue
	192 – 195	Alice blue
	196 – 199	Rose indigo
	200 – 203	Urban blue
	204 – 207	Cool blue
	208 – 211	Light salmon
	212 – 215	Mayan sun
	216 – 219	Cherry rose
	220 – 222	Flesh pink
	223 – 255	Skelton exotic sangria
9	000	No function
	001 – 023	2500 K
	024 – 047	3000 K
	048 – 071	3500 K
	072 – 095	4000 K
	096 – 119	4500 K
	120 – 143	5000 K
	144 – 167	6000 K

DMX channel	value	Function
9	168 – 191	7000 K
	192 – 215	8000 K
	216 – 225	9000 K
	226 – 255	10000 K
10	000 – 255	Different dimmer curves
11	000 – 255	Frequency
12	000 – 255	Fan speed
13	000 – 200	No functions
	200 – 255	Zoom reset

17 DMX Channel

DMX channel	value	Function
1	000 – 255	Master dimmer from 0 to 100%
2	000 – 255	Master dimmer fine
3	000 – 009	No function (LED ON)
	010 – 189	Strobe from slow to fast
	190 – 199	No function (LED ON)
	200 – 249	Random strobe from slow to fast
	250 - 255	No function (LED ON)
4	000 – 255	Red dimmer
5	000 – 255	Green dimmer
6	000 – 255	Blue dimmer
7	000 – 255	White dimmer
8	000 – 255	Zoom from narrow (000) to wide (255)
9	000 – 023	No functions
	024 – 027	Red
	028 – 031	Green
	032 – 035	Blue
	036 – 039	Orange
	040 – 043	Cyan
	044 – 047	Magenta
	048 – 051	White
	052 – 055	Yellow
	056 – 059	Pink
	060 – 063	Violet
	064 – 067	Aquamarine
	068 – 071	Pale blue
	072 – 075	Full white
	076 – 079	Cool white

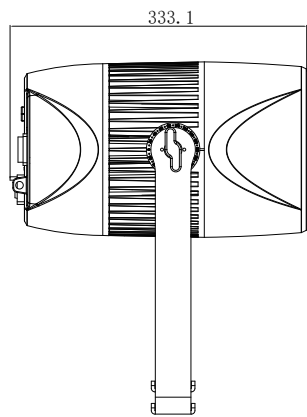
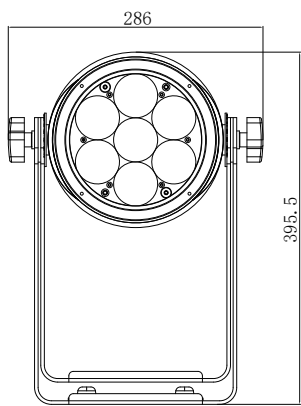
DMX channel	value	Function
9	080 – 083	Day light
	084 – 087	Warm white
	088 – 091	Tungsten
	092 – 095	Medium amber
	096 – 099	Straw
	100 – 103	Spring yellow
	104 – 107	Light rose
	108 – 111	Dark pink
	112 – 115	Magenta 2
	116 – 123	Med blue green
	124 – 127	Blue 2
	128 – 131	Bright pink
	132 – 135	Medium blue
	136 – 139	Violet
	140 – 143	Medium yellow
	144 – 147	Apricot
	148 – 151	Pale yellow
	152 – 155	Pale Lavender
	156 – 159	Pale yellow 2
	160 – 163	Evening blue
	164 – 167	Surprise pink
	168 – 171	Scarlet
	172 – 175	Surprise peach
	176 – 179	Light peach
	180 – 183	Warm white 2
	184 – 187	Mauve
	188 – 191	Bright blue
	192 – 195	Alice blue
	196 – 199	Rose indigo
	200 – 203	Urban blue
	204 – 207	Cool blue
	208 – 211	Light salmon
	212 – 215	Mayan sun
	216 – 219	Cherry rose
	220 – 222	Flesh pink
	223 – 255	Skelton exotic sangria
10	000	No function
	001 – 023	2500 K
	024 – 047	3000 K
	048 – 071	3500 K
	072 – 095	4000 K
	096 – 119	4500 K
	120 – 143	5000 K

DMX channel	value	Function
10	144 – 167	6000 K
	168 – 191	7000 K
	192 – 215	8000 K
	216 – 225	9000 K
	226 – 255	10000 K
11	000 – 007	No function
	008 – 023	AUTO 1
	024 – 039	AUTO 2
	040 – 055	AUTO 3
	056 – 071	AUTO 4
	072 – 087	AUTO 5
	088 – 103	AUTO 6
	104 – 119	AUTO 7
	120 – 129	AUTO 8
	130 – 151	AUTO 9
	152 – 168	AUTO 10
	169 – 183	AUTO 11
	184 – 199	AUTO 12
	200 – 255	AUTO 13
12	000 – 255	Auto modes speed from slow to fast
13	000 – 255	Dimmer curves
14	000 – 255	Frequency
15	000 – 255	Fan speed
16	000 – 255	ID address
17	000 – 200	No functions
	200 – 255	Zoom reset

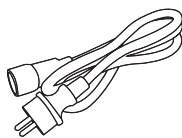
ID address (Channel 17 channels)

DMX address	ID address	DMX address	ID address	DMX address	ID address	DMX address	ID address
000 – 009	All IDs	170 – 179	17	223	34	240	51
010 – 019	1	180 – 189	18	224	35	241	52
020 – 029	2	190 – 199	19	225	36	242	53
030 – 039	3	200 – 209	20	226	37	243	54
040 – 049	4	210	21	227	38	244	55
050 – 059	5	211	22	228	39	245	56
060 – 069	6	212	23	229	40	246	57
070 – 079	7	213	24	230	41	247	58
080 – 089	8	214	25	231	42	248	59
090 – 099	9	215	26	232	43	249	60
100 – 109	10	216	27	233	44	250	61
110 – 119	11	217	28	234	45	251	62
120 – 129	12	218	29	235	46	252	63
130 – 139	13	219	30	236	47	253	64
140 – 149	14	220	31	237	48	254	65
150 – 159	15	221	32	238	49	255	66
160 – 169	16	222	33	239	50		

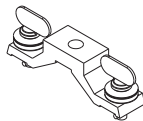
MECHANICAL SPECIFICATION



ACCESSORY



Power cable



Fast lock



User manual

RDM compliance:ANSI/ESTA E.120

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	√		
DISC_MUTE	√		
DISC_UN_MUTE	√		
DEVICE_INFO			√
SUPPORTED_PARAMETERS			√
SOFTWARE_VERSION_LABEL			√
DMX_START_ADDRESS		√	√
IDENTIFY_DEVICE		√	√
DEVICE_MODEL_DESCRIPTION			√
PARAMETER_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
FACTORY_DEFAULTS		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
DEVICE_HOURS			√
LAMP_HOURS			√
RESET_DEVICE		√	
DIMMER CURVE		√	√
DMX STATE		√	√
DIMMER SPEED		√	√



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