

IP HOLYSTORM BAR



User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

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1. SAFETY INSTRUCTIONS



CAUTION

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

- This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



IMPORTANT

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device.
- Leave the device switched off until it has reached room temperature.
- This device falls under protection-class I. Therefore it is essential that the device be earthed.
- The electric connection must carry out by qualified person.
- The device shall only be used with rated voltage and frequency.
- Make sure that the available voltage is not higher than stated at the end of this manual.
- Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.
- Always disconnect from the mains, when the device is not in use or before cleaning it.
- Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.
- Please don't project the beam onto combustible substances.
- Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

2. INSTALLATIONS

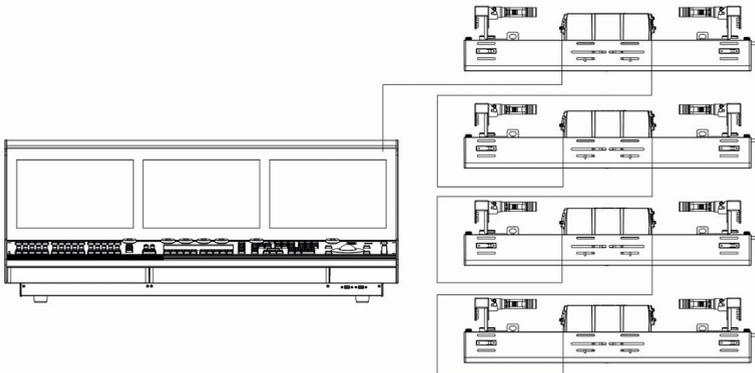
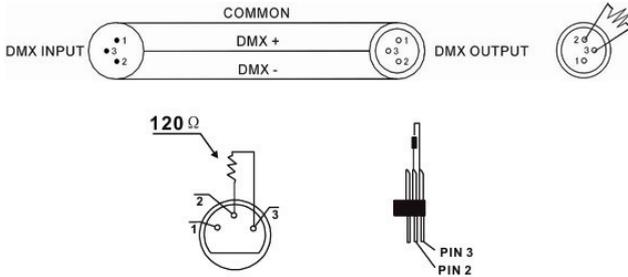
- In order to increase protection, please install the lamp on the sidewalk, outside the seating area, or an area where unauthorized persons may touch the lamp.
- Before installing the fixture on any surface, make sure that the installation area can bear the minimum point load above 10 points of the weight of the equipment.
- The installation of the fixing device must always be fixed with auxiliary safety accessories (such as a suitable safety rope)
- Do not stand directly under the equipment when installing, removing, or servicing fixtures. From the ceiling or set on a flat surface (see the picture below).
- Ensure that this fixture is kept at least 0.5m (1.5 feet) away from any flammable materials (decorations, etc.)
- Be sure to use and install the supplied safety rope to ensure safety and prevent accidental damage and/or injury in case the fixture is damaged
- Installation point: Overhead installation requires a wealth of experience, including calculation of working load limits, in-depth understanding of the installation materials used, and regular safety inspections of all installation materials and fixtures.
- If you do not have these qualifications, please do not try to install it yourself. Improper installation can cause personal injury.
- Before connecting the main power cord to an appropriate wall outlet, make sure to complete all assembly and installation procedures
- LED installation: LED shaking head provides a unique mounting bracket assembly, which integrates the bottom of the base and the fixing point of the safety cable into one.
- When installing the fixture on the truss, make sure to use the appropriate tools to fix it on the attached bracket, and use M10 screw that passes through the center hole of the "bracket" to fix it.
- As an additional safety measure, make sure to use at least one safety cable integrated in the base assembly to connect at least one appropriately rated safety cable to the fixture.

3. DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple

Moving heads be connected together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors.

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below



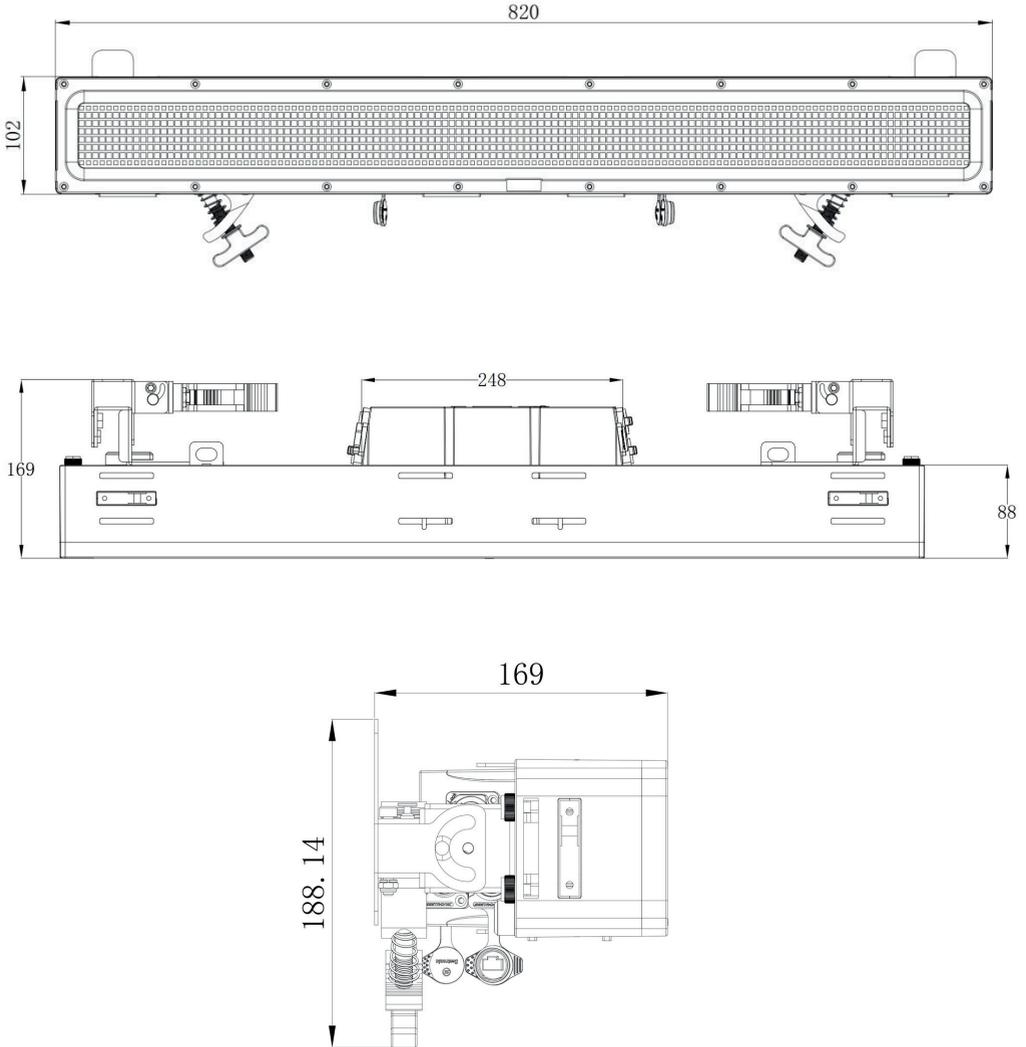
4. ADDRESS CODE SETTING

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button to enter menu mode, select DMX Settings, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will blink in the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle 30 seconds to exit menu mode. Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel MODE	UNIT1 ADDERSS	UNIT2 ADDERSS	UNIT3 ADDERSS	UNIT4 ADDERSS
12CH	1.1	1.13	1.25	1.38
27CH	1.1	1.28	1.55	1.82
44CH	1.1	1.45	1.89	1.133
110CH	1.1	111	221	331
138CH	1.1	1.139	1.277	1.451
166CH	1.1	1.167	1.333	2.1

5. FIXTURE SIZE



6. LED PIXEL ZONES

RGB pixel segment



WW pixel segment



Note:

1. It is possible to set the starting point of RGB and WW light beads in the opposite direction.
2. 138/166CH can set the starting point direction of WW LED in different directions.
3. 138/166CH WW LED can achieve cross square running effect, realizing more possibilities

7. LED TECHNICAL PARAMETERS

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

Power consumption: 600W

Power supply: 800W

Light source: 650pcs x 0.5W 5050 RGB 3IN1

260pcsx3W 3535CW LED (7000K)

Color System: Excellent Color Macro Effects

Rich built-in macro effects

Pixel matrix: RGB is divided into 26 segments and controlled separately (each segment contains 25 RGB LEDs)

CW is controlled separately in 26 segments (each segment contains 10 CW LEDs)

LED lifespan:>20000 hours

DMX channels: 12/27/44/110/138//166 channels

Operation mode: DMX512、 Automatic, master-slave/ RDM (area net optional)

Dimmer: 0-100% smooth linear dimming

Dimming curves: linear, square law, inverse square law, S-curve

Dimming speed: fast, slow

Strobe: 0-30HZ strong output flicker effect

Display: OLED display

Temperature intelligent control fan

Built in splicing buckle for quick splicing and alignment

Signal input/output: 3-pin and 5-pin waterproof XLR sockets (optional ARE-NET)

Power socket: Waterproof power connector input/output

Protection level: IP66

Size: 820x102x169mm

Net weight: 9kg

Feature:

The lighting fixture includes two zone controls, Zone 1: using 650 0.5W RGB LEDs, 26 zones can be individually controlled, and each block contains 25 RGB LEDs. Zone 2: Using 260 3W CW LEDs, 26 zones can be individually controlled. The excellent and powerful strobe function can create a colorful and vibrant strobe rendering effect, and when the main LED and auxiliary LED work together, they do not affect each other. Built in splicing pins for quick machine splicing, exciting multi area macro tracking, quickly create various dynamic colors and flicker effects, strong flickering colors covering vast areas and other powerful functions, greatly meeting user needs

8. LCD Homepage Instructions

Screen unlock password: Up Down ENTER MENU

Main Menu	First level menu	Secondary menu	Third level menu	
DMX Address	000-255			
Channel Mode	12/27/44/110/138/166			
Run	DMX			
	Auto			
Run Settings	Master/remote	Slave/master		
	Dim Curve		Linear	
			Square Law	
			Inv SQ Law	
			S Curve	
	Dim speed	Fast/slow/medium		
	Single tube1	No/yes		
	Single tube2	No/yes		
	RGB panel	No/yes		
	Lost signal	Keep/off		
	Swap tubes	Keep/off		
	Fan control	Auto/high/silent		
	Lost signal	Keep/off		
DMX manual	Return			
	dimmer			
	Master strobe			
	Tube duration			
	white			
		
	keep	No/yes		
	Atuo exit	Never/300s...		
ADV Set	Return			
	Display set	sleep	Never/300s...	
		invert	N/Y	
		Display lock	Off/on	
		Display	On/off	
	language	ENG/中文		
	Recover settings	NO/yes		

	return			
Factory set	xxxx			
Info	DMX monitor	DMX value1-32		
		DMX value33-64		
	Total Chns	000		
	Return			
	Security	xxx		
	LED usage time	current		xxx
		total		xxx
		ignite ties		000
		clear		
		return		
	Test	xxx		
	Error	xxx		
	vers	xxx		
return				

9. DMX CHANNEL

12CH

12CH	DMX	Explanation
1	0-255	Master Dimmer
2	0-255	Single Tube (1-2)Dimmer
3		Single Tube (1-2)Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
170 - 184	Strobe 7: burst pulse (fast -slow)	

	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9:sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
4	0-255	Single Tube(1-2) Strobe Duration
		only affects to Strobe 1 (025-064)
5	0-255	RGB Dimmer
		RGB Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
6	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9:sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
7	0-255	RGB Strobe Duration
		only affects to Strobe 1 (025-064)
8	0-255	Red
9	0-255	Blue
10	0-255	green
		CTC
11	0-4	7000k
	5-255	2000k-10000k
12		function Settings

0-5	Null
6-10	Display Backlight On
11-15	Display Backlight Off
19-23	Signal keep
24-28	Signal clear
29-36	Null
37-41	Linear Dimmer Curve
42-46	Exponential Dimmer Curve
47-51	Logarithmic Dimmer Curve
52-56	S-Curve Dimmer Curve
57-61	Null
62-66	Fast Dimmer
67-71	Medium Dimmer
72-76	Slow Dimmer
77-126	No function
127-131	Fan Auto
132-136	Fan Silent
142-146	Fan High
147-149	Null
150-154	Invert RGB Panel Off
155-159	Invert RGB Panel On
160-164	Invert Single Tube 1 Off
165-169	Invert Single Tube 1 On
170-174	Invert Single Tube 2 Off
175-179	Invert Single Tube 2 On
180-184	Swap Single Tubes Off
185-189	Swap Single Tubes On
190-255	Null

27CH

27CH	DMX	Explanation
1	0-255	Master Dimmer
2	0-255	Single Tube (1-2) Dimmer
3		Single Tube (1-2) Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 - 64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)

	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9:sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
4	0-255	Single Tube(1-2) Strobe Duration only affects to Strobe 1 (025-064)
5	0-255	Single Tube (1-2)Pattern Dimmer
6	0-255	Single Tube (1-2)Pattern selection
7	0-255	No function
8		Single Tube (1-2) Pattern speed
	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
9		Single Tube (1-2)Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
10		No function
11	0-255	RGB Dimmer
12		RGB Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open

	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9:sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
13	0-255	RGB Strobe Duration
		only affects to Strobe 1 (025-064)
14	0-255	Red
15	0-255	Blue
16	0-255	green
		CTC
17	0-4	7000k
	5-255	2000k-10000k
18	0-255	RGB Pattern Dimmer
19	0-255	RGB Pattern selection
20		No function
		RGB Pattern speed
21	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
		RGB Pattern fade
22	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
23		No function
24	0-255	Pattern Red
25	0-255	Pattern Green
26	0-255	Pattern Blue
		function Settings
27	0-5	Null
	6-10	Display Backlight On
	11-15	Display Backlight Off

19-23	Signal keep
24-28	Signal clear
29-36	Null
37-41	Linear Dimmer Curve
42-46	Exponential Dimmer Curve
47-51	Logarithmic Dimmer Curve
52-56	S-Curve Dimmer Curve
57-61	Null
62-66	Fast Dimmer
67-71	Medium Dimmer
72-76	Slow Dimmer
77-126	No function
127-131	Fan Auto
132-136	Fan Silent
142-146	Fan High
147-149	Null
150-154	Invert RGB Panel Off
155-159	Invert RGB Panel On
160-164	Invert Single Tube 1 Off
165-169	Invert Single Tube 1 On
170-174	Invert Single Tube 2 Off
175-179	Invert Single Tube 2 On
180-184	Swap Single Tubes Off
185-189	Swap Single Tubes On
190-255	Null

44CH

44CH	DMX	Explanation
1	0-255	Master Dimmer
2	0-255	Single Tube 1 Dimmer
3		Single Tube 1 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 - 64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)

	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
4	0-255	Single Tube1 Strobe Duration only affects to Strobe 1 (025-064)
5	0-255	Single Tube 1 Pattern Dimmer
6	0-255	Single Tube 1Pattern selection
7	0-255	No function
8		Single Tube 1 Pattern speed
	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
9		Single Tube 1Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
10		No function
11	0-255	Single Tube 2 Dimmer
12		Single Tube 2 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open

	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9:sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
13	0-255	Single Tube2 Strobe Duration
		only affects to Strobe 1 (025-064)
14	0-255	Single Tube 2 Pattern Dimmer
15	0-255	Single Tube 2Pattern selection
16	0-255	No function
		Single Tube 2 Pattern speed
17	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
		Single Tube 2Pattern fade
18	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
19		No function
20		Single Tube Group (1-2) -Pattern Dimmer
21		Single Tube Group (1-2) -Pattern selection
22		No function
		Single Tube Group (1-2) - Pattern speed
23	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
		Single Tube Group (1-2) - Pattern fade
24	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
25		No function
26	0-255	RGB Dimmer
		RGB Strobe
27	0 - 19	Shutter close
	20 - 24	Shutter open

	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
28	0-255	RGB Strobe Duration
		only affects to Strobe 1 (025-064)
29	0-255	Red
30	0-255	Blue
31	0-255	green
		CTC
32	0-4	7000k
	5-255	2000k-10000k
33	0-255	RGB Color Macros
		RGB Color Macro fade
34	000 - 005	no function
	006-105	0,1s - 10s (0,1s step)
	106-214	11s - 119s (1s step)
	215-244	2m - 4m50s (10s step)
	245-255	5m - 15m (1m step)
35	0-255	RGB Pattern Dimmer
36	0-255	RGB Pattern selection
37		No function
		RGB Pattern speed
38	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function

	131-249	Right to Left / Slow to fast
	250-255	No Function
39		RGB Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
40		No function
41	0-255	Pattern Red
42	0-255	Pattern Green
43	0-255	Pattern Blue
44		function Settings
	0-5	Null
	6-10	Display Backlight On
	11-15	Display Backlight Off
	19-23	Signal keep
	24-28	Signal clear
	29-36	Null
	37-41	Linear Dimmer Curve
	42-46	Exponential Dimmer Curve
	47-51	Logarithmic Dimmer Curve
	52-56	S-Curve Dimmer Curve
	57-61	Null
	62-66	Fast Dimmer
	67-71	Medium Dimmer
	72-76	Slow Dimmer
	77-126	No function
	127-131	Fan Auto
	132-136	Fan Silent
	142-146	Fan High
	147-149	Null
	150-154	Invert RGB Panel Off
	155-159	Invert RGB Panel On
	160-164	Invert Single Tube 1 Off
	165-169	Invert Single Tube 1 On
	170-174	Invert Single Tube 2 Off
	175-179	Invert Single Tube 2 On
	180-184	Swap Single Tubes Off
	185-189	Swap Single Tubes On
	190-255	Null

110CH

110CH	DMX	Explanation
1	0-255	Master Dimmer
2		RGB Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast -slow)
225 - 229	Shutter open	
230 - 244	Strobe 10: burst (fast -slow)	
245 - 255	Shutter open	
3	0-255	RGB Strobe Duration
		only affects to Strobe 1 (025-064)
4		Single Tube (1-2) Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)

	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
5	0-255	Single Tube(1-2) Strobe Duration only affects to Strobe 1 (025-064)
6	0-255	Red1 0-100%
7	0-255	Green1 0-100%
8	0-255	Blue1 0-100%
9	0-255	Red2 0-100%
10	0-255	Green2 0-100%
11	0-255	Blue2 0-100%
12	0-255	Red3 0-100%
13	0-255	Green3 0-100%
14	0-255	Blue3 0-100%
...	0-255	....
...	0-255	....
...	0-255	....
75	0-255	Red24 0-100%
76	0-255	Green24 0-100%
77	0-255	Blue24 0-100%
78	0-255	Red25 0-100%
79	0-255	Green25 0-100%
80	0-255	Blue25 0-100%
81	0-255	Red26 0-100%
82	0-255	Green26 0-100%
83	0-255	Blue26 0-100%
84	0-255	Single Tube (1-2) Pixel 1 0-100%
85	0-255	Single Tube(1-2)Pixel 2 0-100%
86	0-255	Single Tube(1-2)Pixel 3 0-100%
87	0-255	Single Tube(1-2) Pixel 4 0-100%

88	0-255	Single Tube(1-2)Pixel 5 0-100%
89	0-255	Single Tube (1-2) Pixel 6 0-100%
90	0-255	....
91		....
92	0-255	...
107	0-255	Single Tube (1-2) Pixel 24 0-100%
108	0-255	Single Tube(1-2)Pixel 25 0-100%
109	0-255	Single Tube(1-2)Pixel 26 0-100%
110		function Settings
	0-5	Null
	6-10	Display Backlight On
	11-15	Display Backlight Off
	19-23	Signal keep
	24-28	Signal clear
	29-36	Null
	37-41	Linear Dimmer Curve
	42-46	Exponential Dimmer Curve
	47-51	Logarithmic Dimmer Curve
	52-56	S-Curve Dimmer Curve
	57-61	Null
	62-66	Fast Dimmer
	67-71	Medium Dimmer
	72-76	Slow Dimmer
	77-126	No function
	127-131	Fan Auto
	132-136	Fan Silent
	142-146	Fan High
	147-149	Null
	150-154	Invert RGB Panel Off
	155-159	Invert RGB Panel On
	160-164	Invert Single Tube 1 Off
	165-169	Invert Single Tube 1 On
	170-174	Invert Single Tube 2 Off
175-179	Invert Single Tube 2 On	
180-184	Swap Single Tubes Off	
185-189	Swap Single Tubes On	
190-255	Null	

138CH

138CH	DMX	Explanation
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1	0-255	Master Dimmer
2	0-255	Single Tube 1 Pixel 1 0-100%
3	0-255	Single Tube 1 Pixel 2 0-100%
4	0-255	Single Tube 1 Pixel 3 0-100%
5	0-255	Single Tube 1 Pixel 4 0-100%
6	0-255	Single Tube 1 Pixel 5 0-100%
7	0-255	Single Tube 1 Pixel 6 0-100%
...	0-255	....
...	0-255	....
...	0-255	....
25	0-255	Single Tube 1 Pixel24 0-100%
26	0-255	Single Tube 1 Pixel25 0-100%
27	0-255	Single Tube 1 Pixel 26 0-100%
28		Single Tube 1 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
190 - 204	Strobe 8: random burst pulse (fast -slow)	
205 - 209	Shutter open	
210 - 224	Strobe 9:sine wave (fast -slow)	
225 - 229	Shutter open	
230 - 244	Strobe 10: burst (fast -slow)	
245 - 255	Shutter open	
29	0-255	Single Tube1 Strobe Duration
		only affects to Strobe 1 (025-064)
30	0-255	Single Tube2 Pixel 1 0-100%
31	0-255	Single Tube2 Pixel 2 0-100%
32	0-255	Single Tube2 Pixel 3 0-100%
33	0-255	Single Tube2 Pixel 4 0-100%

34	0-255	Single Tube2 Pixel 5 0-100%
35	0-255	Single Tube2 Pixel 6 0-100%
....	0-255	....
....	0-255	....
....	0-255	....
53	0-255	Single Tube2 Pixel24 0-100%
54	0-255	Single Tube2 Pixel25 0-100%
55	0-255	Single Tube2 Pixel26 0-100%
56		Single Tube 2 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
205 - 209	Shutter open	
210 - 224	Strobe 9:sine wave (fast -slow)	
225 - 229	Shutter open	
230 - 244	Strobe 10: burst (fast -slow)	
245 - 255	Shutter open	
57	0-255	Single Tube2 Strobe Duration
		only affects to Strobe 1 (025-064)
58		RGB Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
105 - 109	Shutter open	

34	0-255	Single Tube2 Pixel 5 0-100%
35	0-255	Single Tube2 Pixel 6 0-100%
....	0-255	....
....	0-255	....
....	0-255	....
53	0-255	Single Tube2 Pixel24 0-100%
54	0-255	Single Tube2 Pixel25 0-100%
55	0-255	Single Tube2 Pixel26 0-100%
56		Single Tube 2 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
190 - 204	Strobe 8: random burst pulse (fast -slow)	
205 - 209	Shutter open	
210 - 224	Strobe 9:sine wave (fast -slow)	
225 - 229	Shutter open	
230 - 244	Strobe 10: burst (fast -slow)	
245 - 255	Shutter open	
57	0-255	Single Tube2 Strobe Duration
		only affects to Strobe 1 (025-064)
58		RGB Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
105 - 109	Shutter open	

	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast -slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast -slow)
	245 - 255	Shutter open
59	0-255	RGB Strobe Duration
		only affects to Strobe 1 (025-064)
60	0-255	Red1 0-100%
61	0-255	Green1 0-100%
62	0-255	Blue1 0-100%
63	0-255	Red2 0-100%
64	0-255	Green2 0-100%
65	0-255	Blue2 0-100%
66	0-255	Red3 0-100%
67	0-255	Green3 0-100%
68	0-255	Blue3 0-100%
....	0-255	....
....	0-255	....
....	0-255	....
129	0-255	Red24 0-100%
130	0-255	Green24 0-100%
131	0-255	Blue24 0-100%
132	0-255	Red25 0-100%
133	0-255	Green25 0-100%
134	0-255	Blue25 0-100%
135	0-255	Red26 0-100%
136	0-255	Green26 0-100%
137	0-255	Blue26 0-100%
		function Settings
138	0-5	Null
	6-10	Display Backlight On
	11-15	Display Backlight Off
	19-23	Signal keep

24-28	Signal clear
29-36	Null
37-41	Linear Dimmer Curve
42-46	Exponential Dimmer Curve
47-51	Logarithmic Dimmer Curve
52-56	S-Curve Dimmer Curve
57-61	Null
62-66	Fast Dimmer
67-71	Medium Dimmer
72-76	Slow Dimmer
77-126	No function
127-131	Fan Auto
132-136	Fan Silent
142-146	Fan High
147-149	Null
150-154	Invert RGB Panel Off
155-159	Invert RGB Panel On
160-164	Invert Single Tube 1 Off
165-169	Invert Single Tube 1 On
170-174	Invert Single Tube 2 Off
175-179	Invert Single Tube 2 On
180-184	Swap Single Tubes Off
185-189	Swap Single Tubes On
190-255	Null

166CH

166CH	DMX	Explanation
1	0-255	Master Dimmer
2	0-255	Single Tube 1 Pixel 1 0-100%
3	0-255	Single Tube 1 Pixel 2 0-100%
4	0-255	Single Tube 1 Pixel 3 0-100%
5	0-255	Single Tube 1 Pixel 4 0-100%
6	0-255	Single Tube 1 Pixel 5 0-100%
7	0-255	Single Tube 1 Pixel 6 0-100%
...	0-255	....
...	0-255	....
...	0-255	....
25	0-255	Single Tube 1 Pixel24 0-100%

26	0-255	Single Tube 1 Pixel25 0-100%
27	0-255	Single Tube 1 Pixel 26 0-100%
28		Single Tube 1 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
190 - 204	Strobe 8: random burst pulse (fast -slow)	
205 - 209	Shutter open	
210 - 224	Strobe 9:sine wave (fast -slow)	
225 - 229	Shutter open	
29	0-255	Single Tube1 Strobe Duration
		only affects to Strobe 1 (025-064)
30	0-255	Single Tube 1 Pattern Dimmer
31	0-255	Single Tube 1Pattern selection
32	0-255	No function
33		Single Tube 1 Pattern speed
	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
34		Single Tube 1 Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
35		No function
36	0-255	Single Tube 2 Pixel 1 0-100%
37	0-255	Single Tube 2 Pixel 2 0-100%

38	0-255	Single Tube 2 Pixel 3 0-100%
39	0-255	Single Tube 2 Pixel 4 0-100%
40	0-255	Single Tube 2 Pixel 5 0-100%
41	0-255	Single Tube 2 Pixel 6 0-100%
....	0-255	....
....	0-255	....
....	0-255	....
59	0-255	Single Tube 2 Pixel24 0-100%
60	0-255	Single Tube 2 Pixel25 0-100%
61	0-255	Single Tube 2 Pixel 26 0-100%
62		Single Tube 1 Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
190 - 204	Strobe 8: random burst pulse (fast -slow)	
205 - 209	Shutter open	
210 - 224	Strobe 9:sine wave (fast -slow)	
225 - 229	Shutter open	
63	0-255	Single Tube1 Strobe Duration only affects to Strobe 1 (025-064)
64	0-255	Single Tube 1 Pattern Dimmer
65	0-255	Single Tube 1Pattern selection
66	0-255	No function
67		Single Tube 1 Pattern speed
	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function

68		Single Tube 1 Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
69		No function
70		Single Tube Group (1-2) -Pattern Dimmer
71		Single Tube Group (1-2) -Pattern selection
72		No function
73		Single Tube Group (1-2) - Pattern speed
	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
	250-255	No Function
74		Single Tube Group (1-2) - Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
75		No function
76		RGB Strobe
	0 - 19	Shutter close
	20 - 24	Shutter open
	25 -64	Strobe 1 (fast -slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast -slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast -slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast -slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast -slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6:random closing pulse (fast -slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast -slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast -slow)
205 - 209	Shutter open	
210 - 224	Strobe 9:sine wave (fast -slow)	
225 - 229	Shutter open	
230 - 244	Strobe 10: burst (fast -slow)	
245 - 255	Shutter open	
77	0-255	RGB Strobe Duration
		only affects to Strobe 1 (025-064)

78	0-255	RGB Pattern Dimmer
79	0-255	RGB Pattern selection
80		No function
81		RGB Pattern speed
	0-5	No Function
	6-124	Left to Right / Fast to slow
	125-130	No Function
	131-249	Right to Left / Slow to fast
82	250-255	No Function
		RGB Pattern fade
	0-5	Snap from cell to cell
	6-255	Fade Duration short to long
83		No function
84	0-255	Pattern Red
85	0-255	Pattern Green
86	0-255	Pattern Blue
87		CTC
	0-4	7000k
	5-255	2000k-10000k
88	0-255	Red1 0-100%
89	0-255	Green1 0-100%
90	0-255	Blue1 0-100%
91	0-255	Red2 0-100%
92	0-255	Green2 0-100%
93	0-255	Blue2 0-100%
94	0-255	Red3 0-100%
95	0-255	Green3 0-100%
96	0-255	Blue3 0-100%
....	0-255	....
....	0-255	....
....	0-255	....
157	0-255	Red24 0-100%
158	0-255	Green24 0-100%
159	0-255	Blue24 0-100%
160	0-255	Red25 0-100%
161	0-255	Green25 0-100%
162	0-255	Blue25 0-100%
163	0-255	Red26 0-100%
164	0-255	Green26 0-100%
165	0-255	Blue26 0-100%
166		function Settings
	0-5	Null

6-10	Display Backlight On
11-15	Display Backlight Off
19-23	Signal keep
24-28	Signal clear
29-36	Null
37-41	Linear Dimmer Curve
42-46	Exponential Dimmer Curve
47-51	Logarithmic Dimmer Curve
52-56	S-Curve Dimmer Curve
57-61	Null
62-66	Fast Dimmer
67-71	Medium Dimmer
72-76	Slow Dimmer
77-126	No function
127-131	Fan Auto
132-136	Fan Silent
142-146	Fan High
147-149	Null
150-154	Invert RGB Panel Off
155-159	Invert RGB Panel On
160-164	Invert Single Tube 1 Off
165-169	Invert Single Tube 1 On
170-174	Invert Single Tube 2 Off
175-179	Invert Single Tube 2 On
180-184	Swap Single Tubes Off
185-189	Swap Single Tubes On
190-255	Null

10. MALFUNCTIONS

10.1 Lamp Does Not Respond to Console Control After Reset

If the lamp has been reset normally but does not respond to console control, check the following:

- Verify that the digital start address (DMX address) and function settings of the lamp are correctly configured.
- Check whether the communication control cable is properly connected.
- Ensure the communication cable is not too long and not damaged or interrupted.
- Check whether the control equipment is functioning properly.
- Inspect any signal amplifier connected in series and ensure it is operating normally.
- Ensure there is no interference from other devices on the communication line.
- Optimize wiring by:
 - Shortening the length of control signal cables
 - Separating high-voltage and low-voltage cables
- Add a signal amplifier if required.
- Use high-quality shielded twisted-pair cable for the signal line.
- Install a 120-ohm terminating resistor at the end of the DMX line.

10.2 Lamp Cannot Be Powered On

If the lamp cannot be started, check the following:

- Inspect for poor contact or loose parts caused by:
 - Deformation due to extrusion
 - Vibration of internal components
 - Moisture exposure
 - Long-distance transportation
- Check whether internal wires and connectors are loose or detached.
- Inspect electronic components, including:
 - Electronic transformers
 - PCB boards
 - Motor control boards
- Ensure no components are loose, short-circuited, or burned out.

11.

FIXTURE CLEANING

Regular cleaning is essential to maintain fixture performance and extend service life.

Accumulation of dust, dirt, smoke particles, and fog fluid residues can reduce light output and impair cooling efficiency.

11.1 Factors Requiring Frequent Cleaning

Cleaning frequency depends on the operating environment. Factors that may require more frequent cleaning include:

- Use of smoke or fog machines
- High airflow environments (e.g. near air conditioning vents)
- Airborne dust, such as:
 - Stage effects
 - Building structures and fittings
 - Outdoor environments

If one or more of these conditions apply, inspect the fixture during the first few hours of operation and recheck at regular intervals to determine appropriate cleaning frequency.



Contact

@moxlite.prolight
+62 852 1567 6696
info@moxlite.com

HQ & Workshop

Global Multipro Technology
Rukan Crown B no. 25
Greenlake City, Cipondoh, Tangerang