

AVA MOXLITE

MEDUSA LITE



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 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.

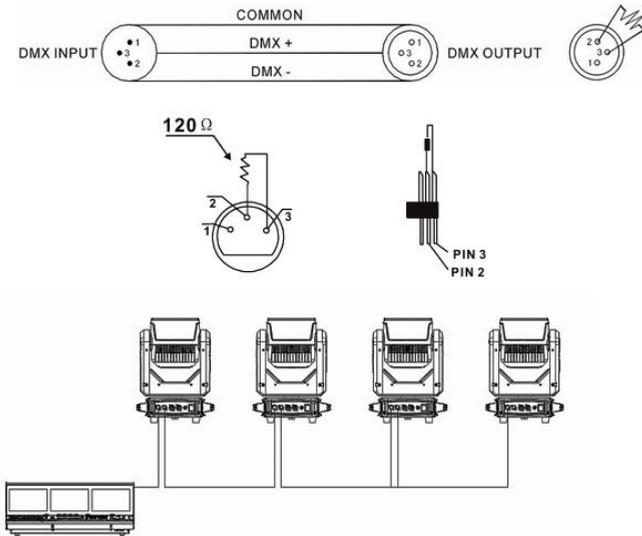
As an additional safety measure, make sure to use at least one safety cable integrated in the base assembly to connect at least one appropriately rated safety cable to the fixture.

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



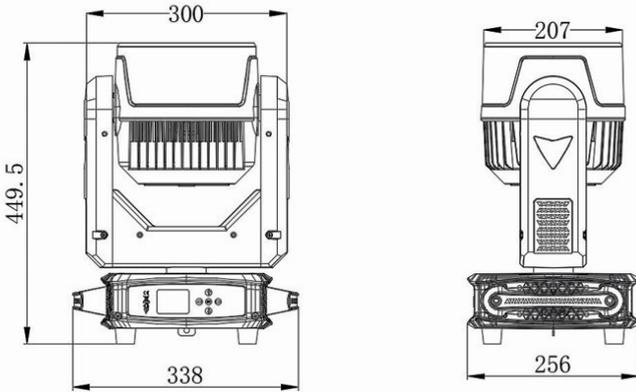
4. DMX-512 CONTROL CONNECTIONS

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.

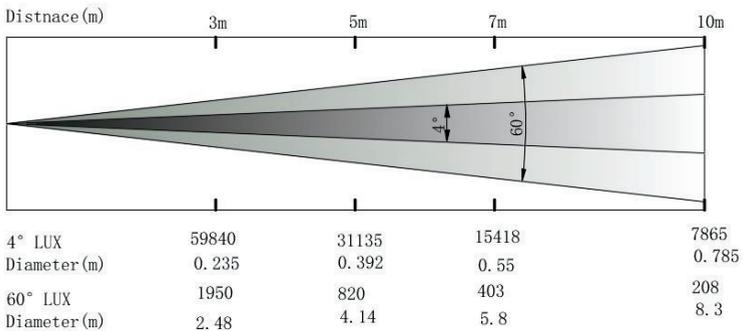
Press the MENU button to enter menu mode, select DMX Settings, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will blink in the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER 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
23CH	1	24	47	70
35CH	1	36	71	106
51CH	1	52	103	155

5. FIXTURE SIZE



6. ILLUMINANCE CHART



7. LED TECHNICAL PARAMETERS

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

Output Voltage: V1:36V(LED driver+ main board),

Power consumption: 300W

Power supply: 350W

Single LED power: 40W

Light source: 7x40W RGBW 4IN LED

Beam angle: 4-60°

Adjustable color temperature

DMX Channel: 23/35/51CH

Operate mode: DMX512, AUTO master/slave, Voice control, RDM

Electronic dimmer:0~100% linear

Linear CTO color temperature adjustment: 2500-8000K

Four dimming curve functions

Rich color gradient effects

Rich and diverse dynamic effects

Infinite color mixing

Equipped with a color correction system to ensure consistent color output

Automatically calculate the address code of the next fixture

Infinite honeycomb rotation, adjustable forward and backward speeds

Encoding positioning is used for the XY axis

Three phase silent motor fast and stable

Fast operation speed and noiseless operation

No flickering under high-definition camera

Dust and oil resistant design

Fixture size: 338*256*449.5mm

Feature:

LED shaking head dyeing light, with fast operation speed, no noise during operation, and no flicker under high-definition camera. It consists of 7 40W RGBW four color LEDs as a light source, creating a uniform color mixing system and rainbow effect, easily creating a fast and powerful beam, adding dynamism to the stage. Multiple channel modes are available, with point by point control of the light beads. The lighting engineer can flexibly switch colors, angles, and lighting effects. A linear focusing system with a beam angle of 4.5 ° -45 ° , multiple speed stroboscopic effects, and a smooth dimming function of 0~100% 16BIT. The shell is made of nylon material, which is wear-resistant and resistant to falling, and is a sturdy LCD display screen,

8. MENU ACTIONS

8.1: Home interface menu display

First interface	Description	explain
address	001 - 512	Button up and down: Change the address code of this light, for example, if the channel value is 23CH, then the address code of this light is 1, and the address code of the next light is 24; Left and right buttons: Each time the address code of this light increases by 1 or the address code decreases by 1
signal	OK/NG	DMX signal
Channel	21CH/23CH/35CH	
Mode	DMX512/Auto1/auto2/sound	Current operating mode of the LED
TEMP	20°C	Current temperature of the LED
	**°C	Abnormal temperature display
Reset information	Display reset status	1) Normal 2) Exception: Reset the specific content of the exception. View the information options on the setting interface

8.2: Shortcut interface menu

shortcut menu	Description	explain
address	address: 001 - 512	Same interface menu structure operation
Adjust	Enter password	LED calibration
中/EN	中/EN	Change Language
Normal	Normal	Screen does not display in reverse
	Invert	Screen inversion display
	Auto	The system can automatically rotate the screen according to the

		direction of gravity
Setup	Setup	Enter the settings interface

8.3:Settings interface menu

Main Menu	Secondary menu	tertiary menu/parameters
Address	001 - 512	
System settings	Run mode	DMX/sound/auto1/auto2
	Channel	23CH/35CH/51CH
	Pan def Pos	000
	Tilt def Pos	127
	Invert pan	on/off
	Invert Tilt	on/off
	Swap pan/tilt	on/off
	Fast dimming	on/off
	KEEP Signal	on/off/auto
	Encoder Correct	on/off
	Hall correct	中/EN
	Back lighting time	15s/30s/LOGO/OFF
	Curve	Curve1/Curve2/ Curve3/Curve4
	Load default	OK/Cancel
Adjust	Enter password	xxxx
TEST	Current channel mode Channel	0-255
reset	Motor ON/OFF	
	Reset Head	
	Reset XY	
	Reset ALL	
Info	Error message	Display specific information content
	DMX data	Display specific testing content for DMX
	Sensor info	Display specific information of optocoupler and Hall
	Version	Display version number and RDM code
	Usage time	xxxxH

9. DMX512

23CH			
CH	function	DMX value	description
1	X	0-255	X rotate
2	X fine	0-255	X-axis fine adjustment
3	Y	0-255	Y rotate
4	Y fine	0-255	Y-axis fine adjustment
5	XY speed	0-255	Fast-slow
6	zoom	0-255	Angle From large to small
7	rotating	0-127	0-60 degree
		128-188	Antwise fast-slow
		189-193	Stop
		194-255	Forward slow-fast
8	dimmer	0-255	Linear dimming from dark to light
9	strobe	0-3	OFF
		4-103	Synchronous strobe speed from slow to fast (1HZ-25HZ)
		104-107	Open
		108-207	Split the strobe speed from slow to fast (1HZ-25HZ)
		208-212	Open
		213-225	Low speed random strobe
		226-238	Medium speed random strobe
		239-251	High speed random strobe
		252-255	Open
10	R	0-255	From dark-bright
11	G	0-255	From dark-bright
12	B	0-255	From dark-bright
13	W	0-255	From dark-bright
14	CT	0-255	Linear CT control
15	Color Macro	0-255	Inner color gradual change
16	Static effects	0-255	5 no. One effect
17	Dynamic effects	0-255	5 no. One effect
18	Dynamic	0-127	Forward from fast-slow

	effects Speed	128-255	Reverse from slow-fast
19	Background R	0-255	Dark-bright
20	Background G	0-255	Dark-bright
21	Background B	0-255	Dark-bright
22	Background W	0-255	Dark-bright
23	reset	0-79	No function
		80-99	Curve 1 (5s)
		100-119	Curve 2 (5s)
		120-139	Curve 3 (5s)
		140-159	Curve 4 (5s)
		160-179	Slow dimming mode (5s)
		180-199	Fast dimming mode (5s)
		200-209	Effect motor reset (5s)
		210-219	XY motor reset (5s)
220-229	Reset all motors (5s)		

35CH			
CH	function	DMX value	description
1	R	0-255	Red dimmer
2	R Fine	0-255	Red dimmer fine
3	G	0-255	Green dimmer
4	G Fine	0-255	Green dimmer fine
5	B	0-255	Blue dimmer
6	B fine	0-255	Blue dimmer fine
7	W	0-255	White dimmer
8	W Fine	0-255	White dimmer fine
9	CT	0-255	Linear CT control
10	Color Macro	0-255	Color Macro function
11	strobe	0-3	off
		4-103	Synchronous strobe slow-fast (1HZ-25HZ)
		104-107	on
		108-207	Divide strobe from slow-fast (1HZ-25HZ)

		208-212	on
		213-225	Random strobe in low speed
		226-238	Random strobe in middle speed
		239-251	Random strobe in high speed
		252-255	on
12	dimmer	0-255	Linear dimmer from dark-bright
13	Dimmer Fine	0-255	Dimmer fine
14	X	0-255	pan
15	X fine	0-255	Pan fine
16	Y	0-255	tilt
17	Y fine	0-255	Tilt fine
18	function	0-255	reserve
19	reset	0-79	No function
		80-99	Curve 1 (5s)
		100-119	Curve 2 (5s)
		120-139	Curve 3 (5s)
		140-159	Curve 4 (5s)
		160-179	Slow dimming mode (5s)
		180-199	Fast dimming mode (5s)
		200-209	Effect motor reset (5s)
		210-219	XY motor reset (5s)
220-229	Reset all motors (5s)		
20	zoom	0-255	zoom
21	rotating	0-127	0-60 degree
		128-188	Antiwise fast-slow
		189-193	Stop
		194-255	Forward slow-fast
22	pattern	0-255	Pattern rotate
23	Pattern speed	0-255	Pattern speed
24	Pattern effect fade	0-255	Pattern effect fade
25	Pattern effect R	0-255	Pattern effect R
26	Pattern effect G	0-255	Pattern effect G
27	Pattern effect B	0-255	Pattern effect B
28	Pattern effect W	0-255	Pattern effect W
29	Pattern dimmer	0-255	Pattern 0-100% dimmer

30	Background dimmer	0-255	Background 0-100% dimmer
31	Pattern Transition	0-255	Pattern change control
32	Pattern angle adjustment	0-255	Pattern translation
33	Prospect strobe	0-255	Prospect strobe (with 11 chs)
34	Background strobe	0-255	Background strobe (with 11 chs)
35	Background selection	0-255	Background selection

51CH			
ch	function	DMX value	description
1	X	0-255	pan
2	X fine	0-255	Pan fine
3	Y	0-255	tilt
4	Y fine	0-255	Tilt fine
5	XY speed	0-255	Fast-slow
6	zoom	0-255	Small-big
7	rotating	0-127	0-60 degree
		128-188	Antiwise fast-slow
		189-193	Stop
		194-255	Forward slow-fast
8	dimmer	0-255	Dark-bright
11	strobe	0-3	off
		4-103	Synchronous strobe slow-fast (1HZ-25HZ)
		104-107	on
		108-207	Divide strobe from slow-fast (1HZ-25HZ)
		208-212	on
		213-225	Random strobe in low speed
		226-238	Random strobe in middle speed
		239-251	Random strobe in high speed
252-255	on		
10	R dimmer	0-255	
11	G dimmer	0-255	

12	B dimmer	0-255	
13	W dimmer	0-255	
14	CT	0-255	Linear CT control
15	Wash	0-255	
16	Static effect	0-255	5 no. One effect
17	Dynamic effect	0-255	5 no. One effect
18	Dynamic effect speed	0-127	Forward fast-slow
		128-255	Reverse slow-fast
19	Background R	0-255	Dark-bright
20	Background G	0-255	Dark-bright
21	Background B	0-255	Dark-bright
22	Background W	0-255	Dark-bright
19	reset	0-79	No function
		80-99	Curve 1 (5s)
		100-119	Curve 2 (5s)
		120-139	Curve 3 (5s)
		140-159	Curve 4 (5s)
		160-179	Slow dimming mode (5s)
		180-199	Fast dimming mode (5s)
		200-209	Effect motor reset (5s)
		210-219	XY motor reset (5s)
		220-229	Reset all motors (5s)
24	R1 LED dimmer	0-255	R1 LED dimmer
25	G1 LED dimmer	0-255	G1 LED dimmer
26	B1 LED dimmer	0-255	B1 LED dimmer
27	W1 LED dimmer	0-255	W1 LED dimmer
...
...
48	R7 LED dimmer	0-255	R7 LED dimmer
49	G7 LED dimmer	0-255	G7 LED dimmer
50	B7 LED dimmer	0-255	B7 LED dimmer
51	W7 LED dimmer	0-255	W7 LED dimmer

10. MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

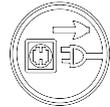
1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing)
3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION

Disconnect from mains before starting maintenance operation



In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1. Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2. Clean the fan each week.
3. A detailed electric check by approved electrical engineer each three month, makesure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth.

Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.



Contact

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

HQ & Workshop

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