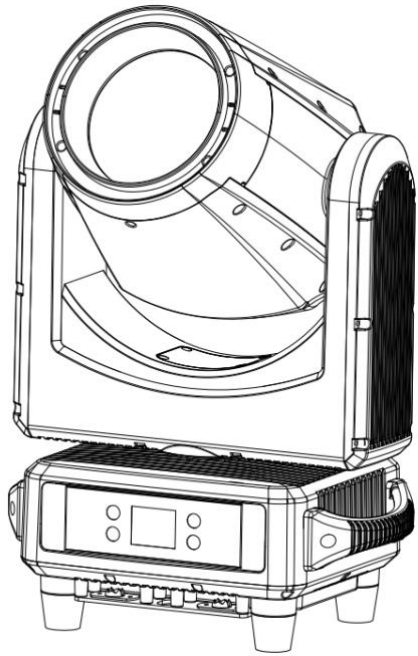
RIUKOE®

Laser Beam50 IP



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

User manual

Please read the instructions carefully before use

INDEX

1.STATEMENT..... 2

2.ACCESSORIES 2

3.IP65 RATED..... 2

4.SAFETY INSTRUCTION..... 3

5.INSTALLATION 5

6.TECHNICAL SPECIFICATION..... 8

7.PANEL OPERATIONS 10

8. CHANNEL DESCRIPTION..... 12

9. TROUBLE SHOOTING..... 16

10.LEANING AND MAINTENANCE 17

1.STATEMENT

Thank you for choosing RIUKOE.The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also cannot be responsible for any malfunction & problem owing to ignore the manual.

2.ACCESSORIES

These items are packed together with the product:

Name	Quantity	Unit	Remark
POWER CABLE	1	PCS	
DMX CABLE	1	PCS	

3.IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The International Protection (IP) rating system is commonly expressed as "IP" (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the

second digit (Water Protection) indicates the extent of protection against water entering the fixture. An IP65 rated lighting fixture is one, which has been designed and tested to protect against the ingress of dust (6) and high-pressure water jets from any direction (5).

Please note although this fixture is IP rated, the fixture is NOT suitable for marine and/or coastal environment installations. Installing this fixture in a marine and/or coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a marine and/or coastal environment will void the manufactures warranty and will NOT be subject to any warranty claims and/or repairs.

4.SAFETY INSTRUCTION

WARNING! *Read the safety precautions in this section before unpacking, installing, powering or operating this product.*

Review the following safety precautions carefully before installing or operating the fixture. This fixture must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the fixture and the hazards involved.

Preventing electric shock

WARNING! *Risk of electric shock.*

- Always power off/unplug the fixture before removing any covers.

- Ensure that the power is turned off when connecting the fixture to the AC mains supply.
- Ensure that the fixture is electrically connected to earth (ground).
- Do not apply power if the fixture is in any way damaged.
- Do not immerse the fixture in water or liquid.

Preventing burns and fire

WARNING! *Take measures to prevent burns and fire.*

- Install in a location that prevents accidental contact with the fixture.
- Install only in a well-ventilated space.
- Install only in accordance with applicable building codes.
- Do not paint, cover or modify the fixture.
- Keep all flammable materials away from the fixture.
- Allow the fixture to cool for 15 minutes after operation, before touching it.
- CAUTION: Exterior surface temperature after 5 min. operation = 45 °C (113 °F). Steady state = 60 °C (140 °F).

Avoid personal injury

WARNING! *Take measure to prevent personal injury.*

- Do not look directly at the light source from close range.
- Take precautions to prevent injury due to falls when working at height.
- For permanent installation, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For temporary installation with clamps, ensure that the quarter-turn fasteners are turned fully and secured with a suitable safety cable. The

cable must be approved for a safe working load (SWL) of 10 times the weight of the fixture, and it must have a minimum gauge of 3 mm.

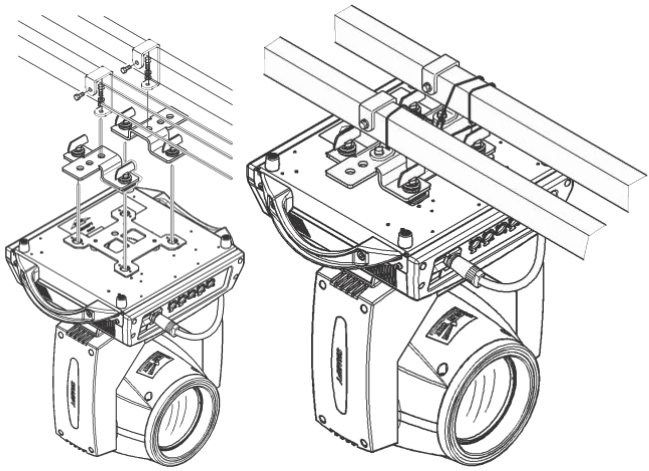
5.INSTALLATION

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

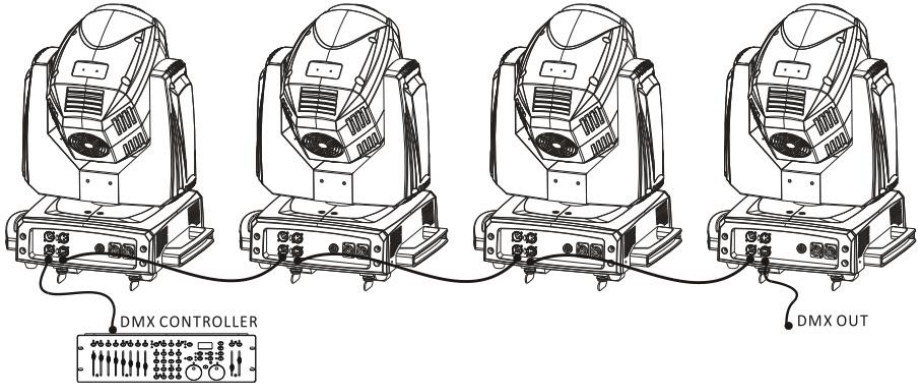
Clamp mounting

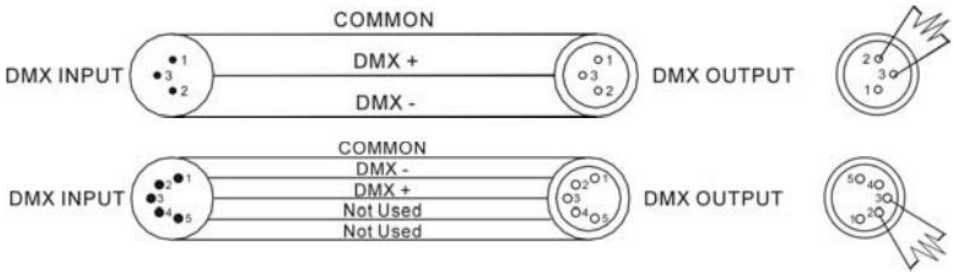
The moving head provides a unique mounting bracket assembly that integrates the bottom of the base, the included '**Omega Bracket**' and the **Safety Cable** rigging point in one unit (see the illustration below).When mounting this fixture to truss be sure to sere to secure an appropriately rated clamp to the included **Omega Bracket** using a M10 screw fitted through the center hole of the 'omega bracket'. As an added safety measure be sure to attached at least one properly rated **Safety Cable** to the fixture using one of the safety cable rigging point integrated in the base assembly.



DMX-512 control connection:

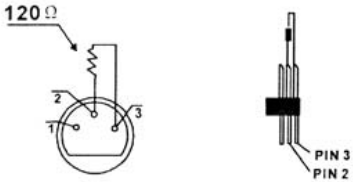
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.





DMX-512 connection with DMX terminator:

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 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.



DMX Address Setting:

By using a universal DMX controller to control the units, you will need to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button up to when the DMX Address is showing on the display. Pressing the ENTER button and the display will blink. Use the UP/DOWN buttons to change the DMX address.

Once the address has been selected, press the ENTER button to setup, to go back to the functions without any change press the MENU button again. Press and hold the MENU button about one second or wait for about one minute to exit the menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units：

CHs Mode	Unit 1 Adds	Unit 2 Adds	Unit 3 Adds	Unit 4 Adds
16CH	1	17	33	49

6.TECHNICAL SPECIFICATION

Power Supply

- Voltage:AC100-240V,50/60Hz
- Power:120W

Light Source

- Lamp source: 50W Laser
- Light CT: 9208K
- Light source life: 12000h

Protocols

- Control mode: DMX512, master-slave, Auto
- Channel mode: 16CH

Color

- 1 Color wheel: 12 colour + open
- 1 six-color filter

Gobos

- 1 Static gobo wheel: 19 gobos + open

Prisms

- 8 facet + big 8 facet+ 18 facet +42 facet prism, overlapped, indexable, rotating in both directions

Frost

- Independent frost system

Dimmer & Strobe

- Dimming level: 0-100% perfect linear dimming system
- Electronic, variable from 1-25Hz or pulse

Structure

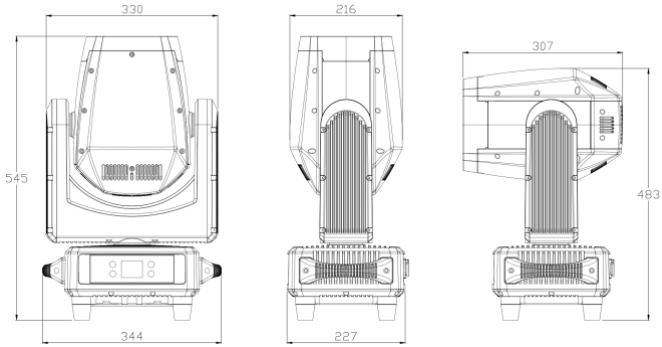
- Display mode: Colorful LCD display
- Power connector: Seetronic PowerCON IN/ OUT
- Signal connection: Seetronic 3-pin & 5-pin XLR connectors IN/OUT

IP Rated

- IP65

Weigh & Size

- Net weight: 11.8kg



Please Note: Specifications and improvements in the design of this unit and this manual are

subject to change without any prior written notice.

7.PANEL OPERATIONS

Display Setting

ADDR	DMX Address	001-512	
	Motor reset		
Mode	DMX Ctrl	Open	
	Auto Run		
	Sound Ctrl		
	Sense mode	Auto	
	M/S choose	Auto	
		Slaver mode	
		Master mode	
DISP	Screen Saver	off	
		Mode 1	
		Mode 2	
		Mode 3	
		Mode 4	
	Screen Rot	Reverse	
		Forward	
	DMX indicate	Mode 1	
		Mode 2	
		Mode 3	
	Lock Screen	on	
		off	
SCENE	Scene select	1-10	
	Scene time	1-255S	

	Control Mode	on	
		off	
	1:Pan	0-255	
	2.Pan Fine	0-255	
	3.Tilt	0-255	
	4.Tilt Fine	0-255	
	5.PT Spd	0-255	
	6.Frost	0-255	
	7.Strobe	0-255	
	8.Dimmer	0-255	
	9.Colour	0-255	
	10.Gobo	0-255	
	11.Prism 1	0-255	
	12.Prism 1. R	0-255	
	13..Prism 2	0-255	
	14..Prism 2 .R	0-255	
	15.Focus	0-255	
	16.Reset	0-255	
ADVA	Pan invert	ON	
		OFF	
	Tilt invert	ON	
		OFF	
	P/T rectify	ON	
		OFF	
	Pan offset	4-150	
	Tilt offset	4-48	
	Data hold	ON	
		OFF	
	Scene time	1-255	

	Reset	Sure	
		No	
	Factory setting	Sure	
		No	
STAT	Stepper info		
	Error logging		
	Fixture status	Tep	
	Version	C8.1.0	
	Light time		
	Total time		

8. CHANNEL DESCRIPTION

16 CH MODE

CH	NAME	VALUE	BRIEF
[CH1]	Pan	0-255	0-540(degree)
[CH2]	Tilt	0-255	0-270(degree)
[CH3]	Pan Fine	0-255	0-2(degree)
[CH4]	Tilt Fine	0-255	0-1(degree)
[CH5]	PT Spd	0-255	Fast to slow
[CH6]	Frost		
		0-127	None
		128-191	Insert colorful
		192-255	Insert frost
[CH7]	Strobe		
		0-10	Dark
		11-99	Pluse strobe slow to fast

		100-199	Fade strobe slow to fast
		200-239	Rand strobe slow to fast
		240-255	Open
[CH8]	Dimmer	0-255	0-100% dimmer
[CH9]	Colour		
		0-4	White
		5-9	White+Red
		10-14	Red
		15-19	Red+Tan
		20-24	Tan
		25-29	Tan+Light blue
		30-34	Light blue
		35-39	Light blue+Green
		40-44	Green
		45-49	Green+Orange
		50-54	Orange
		55-59	Orange+Pink
		60-64	Pink
		65-69	Pink+Light yellow
		70-74	Light yellow
		75-79	Light yellow+Cyan
		80-84	Cyan
		85-89	Cyan+Cool colors
		90-94	Cool colors
		95-99	Cool colors+Yellow
		100-104	Yellow
		105-109	Yellow+Brown
		110-114	Brown
		115-119	Brown+Blue

		120-124	Blue
		125-192	Rotate forward (fast to slow)
		193-255	Rotate reverse (slow to fast)
[CH10]	Gobo		
		0-4	White
		5-9	Gobo1
		10-14	Gobo2
		15-19	Gobo3
		20-24	Gobo4
		25-29	Gobo5
		30-34	Gobo6
		35-39	Gobo7
		40-44	Gobo8
		45-49	Gobo9
		50-54	Gobo10
		55-59	Gobo11
		60-64	Gobo12
		65-69	Gobo13
		70-74	Gobo14
		75-79	Gobo15
		80-84	Gobo16
		85-89	Gobo17
		90-94	Gobo18
		95-99	Gobo19
		100-104	Shake slow to fast Gobo1
		105-109	Shake slow to fast Gobo2
		110-114	Shake slow to fast Gobo3
		115-119	Shake slow to fast Gobo4
		120-124	Shake slow to fast Gobo5

		125-129	Shake slow to fast Gobo6
		130-134	Shake slow to fast Gobo7
		135-139	Shake slow to fast Gobo8
		140-144	Shake slow to fast Gobo9
		145-149	Shake slow to fast Gobo10
		150-154	Shake slow to fast Gobo11
		155-159	Shake slow to fast Gobo12
		160-164	Shake slow to fast Gobo13
		165-169	Shake slow to fast Gobo14
		170-174	Shake slow to fast Gobo15
		175-179	Shake slow to fast Gobo16
		180-184	Shake slow to fast Gobo17
		185-189	Shake slow to fast Gobo18
		190-194	Shake slow to fast Gobo19
		205-225	Rotate reverse (fast to slow)
		226-234	Stop
		235-255	Rotate forward (slow to fast)
[CH11]	Prism1		
		0-127	None
		128-255	Inert prism1
[CH12]	Prism1.R		
		0-127	0-360(degree)
		128-190	Rotate forward (fast to slow)
		191-192	Stop
		193-255	Rotate reverse (slow to fast)
[CH13]	Prism2		
		0-63	None
		64-127	Insert prism2
		128-191	Insert prism3

		192-255	Insert prism4
[CH14]	Prism2.R		
		0-127	0-360(degree)
		128-190	Rotate forward (fast to slow)
		191-192	Stop
		193-255	Rotate reverse (slow to fast)
[CH15]	Focus	0-255	Far to near
[CH16]	Reset		
		0-239	None
		240-255	Reset fxiture over 3 second

9. TROUBLE SHOOTING

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connect power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or run alongside to high voltage

cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

D. The lamp is cutting out intermittently

1. The lamp is not working well. Check the mains voltage either too high or too low.
2. Internal temperature may be too high. Check if replacement of fan is needed on the head.

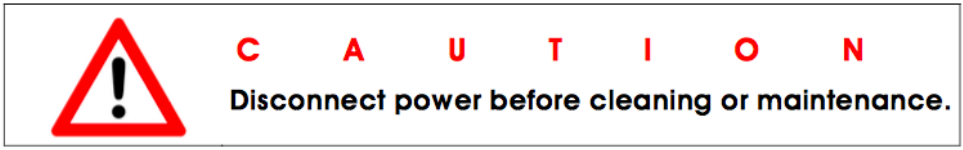
E. No response to the sound

1. Make sure the unit does not receive DMX signal..
2. Check microphone to see if it is good by tapping the microphone.

F. If The tilt belt is broken

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

10.LEANING AND MAINTENANCE



Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics.

- Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation.
- Never use alcohol, solvents, or ammonia based cleaners.

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized service technician. Should you need any spare parts, please order genuine parts from your local dealer.

RIUKOE

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