KUDUX®

STAGE TECHNOLOGY

Moving Head

Hot BEAM 2R



User manual

CE

! Please read the manual before installing and using this lighting

Keep it for future reference

Thank you for purchasing our device.
We make every effort to ensure the best quality of our products and to meet your expectations.

If you have any remarks or comments, please share them with us.

We will be grateful for any suggestions that will help us make products that are even better and devices that satisfy your needs.

R&D Team

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Statement

The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally if have technical changes.

Production introduces

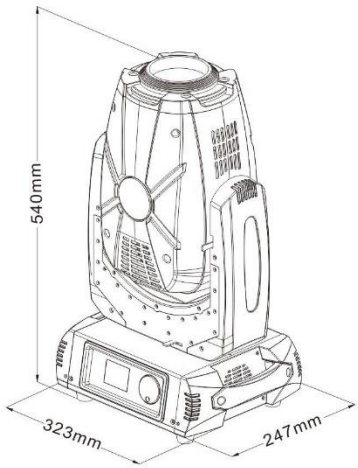
Thank you for choosing this HOT BEAM 2R products, this model is the moving head light which is the latest development of the smart, efficient products, beautiful shape, smooth R & D, combined with the advanced technology of today's stage lighting products with international advanced electronic control technology and excellent user-friendly industrial design, fully comply with CE standard, accepted international standard DMX512 signal mode.

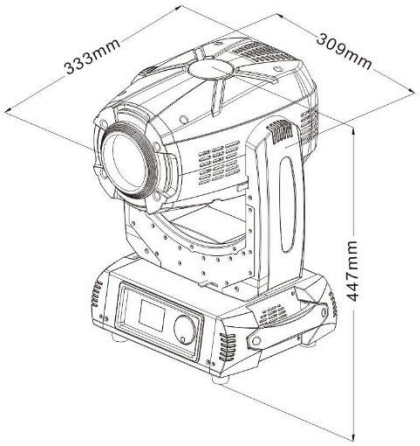
This moving head lights, use ceramic luminescent film reflector as a condenser system, coupled with the high-quality optical lens components, broadband voltage, a clear pattern, sharp and uniform output light efficiency. Intelligent LED display module, the English language selection mode, intuitive operating menu, shortcut.

Hot Beam 2R, have 16/24 international standard DMX512 channels optional Horizontal scan:
540 ° vertical scanning 270 ° (16bit precision scanning) electronic correction, dot-matrix display, four touch switch LCD + single-Key flying shuttle can spin. The can be inverted 180 °, the color wheel is combined with white and 14 colors. 2 Gobo wheels: 9 patterns + white effect round by 8 prism+ 6 prism and atomization function. 0-100% mechanical dimmer, support mechanical strobe and variable strobe effect, strobe macro function. The optical system of the lens group electric focusing, the beam angle of 0 to 4 ° with overheating protection function. This Moving head lights are widely used in television, disco, dance halls, nightclubs, performances and other professional venues.

1. Fixture size

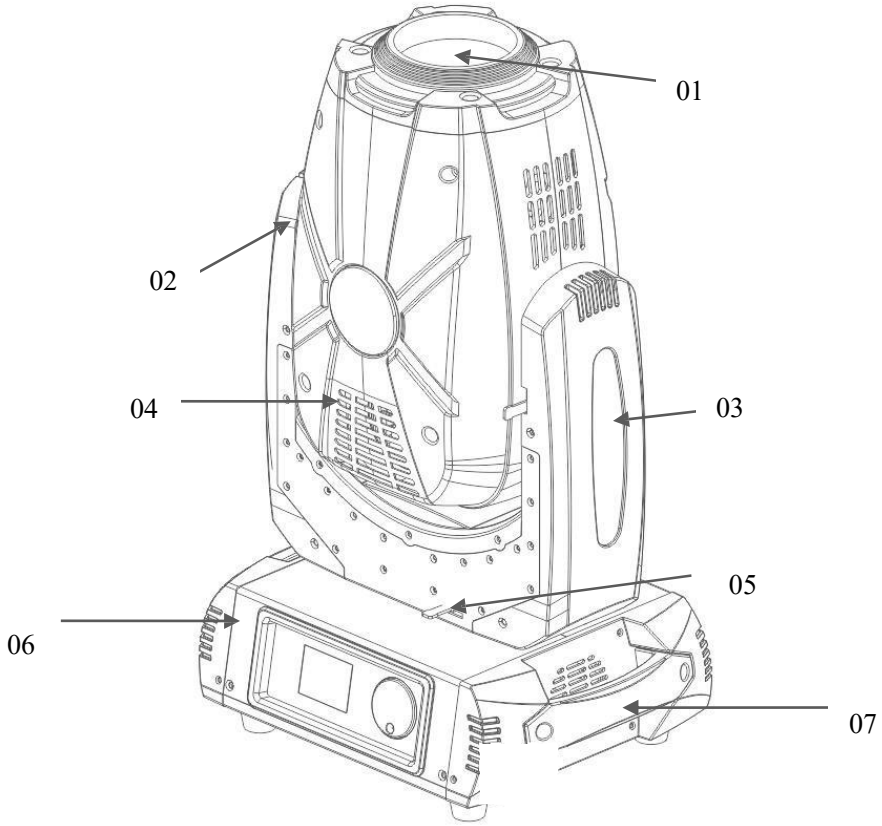
Size：333（L）×323（W）×540（H)



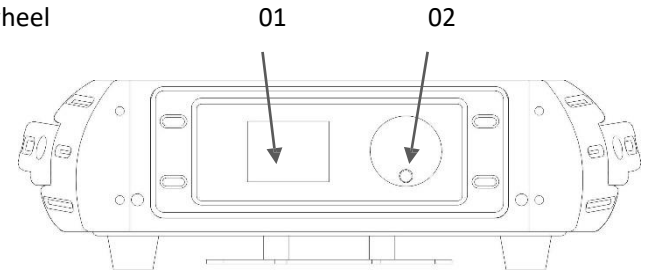


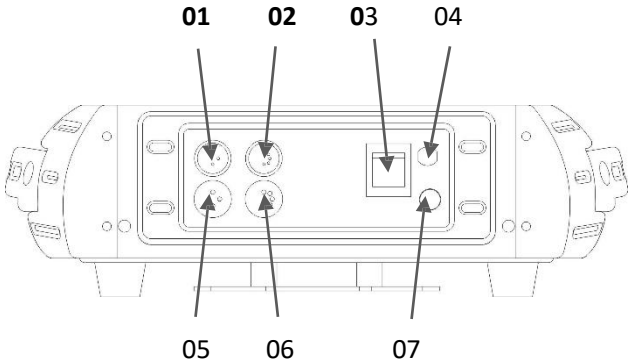
2. Part introduction

01 — lens
02 — Tilt lock
03 — Arm
04 — Body
05 — Pan lock
06 — light base
07 — handle



01 — display
02 — control wheel





01 — 3 Pin DMX in 02 — 5 Pin DMX in 03 — Power switch
04 — Power in 05 — 3 Pin DMX out 06 — 5 pin DMX out 07 — Fuse

3. Safety information

Safety warning:

This product is only suitable for professional use, and does not apply to security for other purposes. After you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible. This product is only suitable for indoor, IP20 protection class. Lamps should be kept dry to avoid Moisture, overheating or dusty environment. Prevent lamps meet water or any other liquid. The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode or shedding caused serious or fatal injury. Need to read the instructions before use energized or installing. Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment. If you have any problem for how to safely operate the equipment. Please contact your dealer.

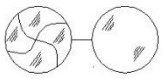
3.1. Anti-high temperature



ta =40°C

Please don't use the equipment if the temperature above 40℃

3.2. Burst prevention

The lens should be changed if had damaged or a 

Don't change the non-original manufacturer lens. Len size: ∅119mm×23mm

3.3. To prevent falling wounding



Please don't move the package by one person only.

When Hang the fixture, please must verify that the facilities to be able to withstand the weight of the lamps at least 10 times more.

Please make sure the Mounting hardware is strong enough no any damage, and insurance for the safety rope as auxiliary security fixed in other facilities will need to verify before installation. Installing or removing the equipment, to make the pulley below the work location

3.4. UV protection and the bulb explosion

Prohibit straight viewpoint with exposed bulbs to avoid UV damage to the eyes;

Do not use the equipment without the lens screen and the lid;

The lens and the light head covers should be timely replaced if any damage to rupture

The Fixture should be used with the protection screen together.

3.5. Prevention of electric shock



The electrical connection must only be carried out with corresponding qualifications;

Before installing, make sure you use the power voltage lamps must comply with the identified

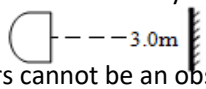
power, voltage and have an overload or leakage protection;
Each lamp must be properly grounded, installed in accordance with the relevant standards
Cut off the power when stall or replace the lamp and the fuse
Prohibit the use of a lightning storm or wet environment.

3.6. To prevent burning or fire





- The fixture can be mounted directly on the surface of ordinary combustible material.
- Do not short-circuit temperature protection switch or fuse, use the specified type of fuse.
- The equipment must be installed away from inflammable and explosive materials.
- The equipment should be projected range of 3 meters away objects and projectiles temperature less than 60 ° C;



- Fan or ventilation, at least in the range of 0.5 meters cannot be an obstacle.
- Do not place any object on the lens.
- Handling at least allow the device to cool for 20 minutes.
- Do not replace the non-original parts.



4. Package

4.1. Attachment

HOT BEAM 2R packed with fly-case of one in one, two in one, or carton box. Attach follow accessory.

ACCESSORY

CONTENT	QUANTITY
USER MANUL	1 piece
CLAMP (option)	2 pcs
SIGNAL CABLE	1 piece

4.2. Transport protect lock

To protect the light, there is a protect lock; During the transport, the lock will have closed keeping the item in safety state.

4.3. About pack stage

1. Before packed, make sure power is off, and wait for at least 20mins for cooling down.
2. Before cleaning the fixture, make sure X, Y axis protect lock closed.
3. After packed by plastic bag, high-lift the fixture with two handles besides the product. put the product into the fly-case up-side-down.



4. After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.
5. Fly-case only up stacked two layers. Prohibited upside down
6. When packed with carton box, equipment should be put into the foam first, then set into a carton, pay attention to the vertical position.

4.4. Unpacking

Note: Before unpacking check the damage is whether due to the transportation or not, if you find any such damage, please do not use this item, and contact with the dealer or manufacturer as soon as possible.

- Open the fly-case, and discover the inside plastic bag.
- High-lift the product by two handles beside the bottom base and move it out.
- Before power on, make sure you have opened the X, Y axis lock!

5. Install standard

5.1. Install lock

HOT BEAM 2R can be placed on the stage, or mounted in an arbitrary direction of the truss. Two fast locks system could fix the item easily.

5.2. Equipment fixed

- Before installation must verify the fast lock is keep in good state, and can withstand at least 10 times the weight of product. Verify that the building can withstand at least 10 times of the total weight of the product and accessory equipment's.
- Fix the hang fixture into the hole, which located on the base of the price.
- Seize handle of fasteners, clockwise rotate 1/4 turn and lock. Installed other one fastener
- in the same method.
- Using the safety cable which can withstand 10 times the weight of the equipment.
- Make sure the X, Y protect locks are opened, verify that within 3 meters there is no combustibles.

WARNING 

Fixture must use two fixing devices, and make sure the fixing device have locked! And only fully clockwise rotate 90 ° can lock the hang fixture! Do remember plus a safety rope, and do not connect the safety rope to plastic handle. It should be connected to the hole on the base!

5.3. Fixture connects



Attention! One product only can accept one input one output.

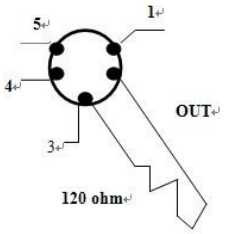
HOT BEAM 2R DMX cable include 3 contact pins:
Pin 1, FOR GROUND; Pin 2 connected to the negative polarity signal; The pin 3 connected to the positive polarity signal.

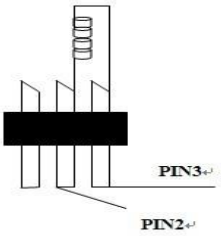
DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data. 24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add\ DMX 512 signal amplifier.

Do not use two outputs to separate the connection, if separate a continuous connection to branch, DMX512 splitter is necessary.

If use the DMX512 splitter. At first connect DMX512 Splitter input terminal to

controller, and then connected from the splitter output terminal to next device.
Do as above guide to connect other device, and finally coupled with terminal insertion as following:





6. Power supply

6.1. Voltage, power, fuse specification

Input Voltage	Total Power	Frequency
110~240V	150 W	50/60HZ

6.2. Power protect

The equipment must be operated by professionals; Make sure that the voltage of power supply must be comply with the voltage identified on the lamp, and must have an overload or leakage electrical protection.

ATTENTION!



Factory has equipped the standard 3 pin plug socket. Connect the power supply as below table.
If lamp cable is damaged, replacement should be operated by factory or qualified staff. Any question, please contact professionals or talk to a qualified electrician.

Live wire(L)	Null(N)	Ground wire	
RED	BLUE	Yellow +Green	

7. Lamp

7.1. Lamp description

LAMP MODEL	POWER OF LAMP	LIFE/HOUR	COLOR TEMPERATURE
OSRAM SIRIUS HRI	150 W	4000 HOURS	9300K



WARNING!
There is a safety hazard or damage if install similar bulb to reduce the risk of damage to light, do change the lamp before using time over 90% of lamp life.

7.2. Lamp replace



Attention! When replace the lamp is forbidden to touch lamp with bare hand, to avoid the greasy dirt stains filament. filament must be kept clean. Disconnect the power. Before replace lamp, fixture need 20 minutes for lamp cooling. Fasten the head with Y axis protect lock in 60 ° position.

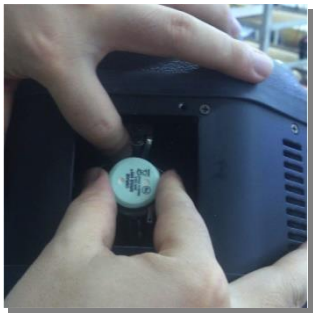
1. Use cross screwdriver to open the light body cover



2. After open the cover, you can see the lamp inside, please wait the lamp be cool after used but not touch it in hot status.



3. One hand press the lamp holder, another hand hold the lamp and pull out the wires



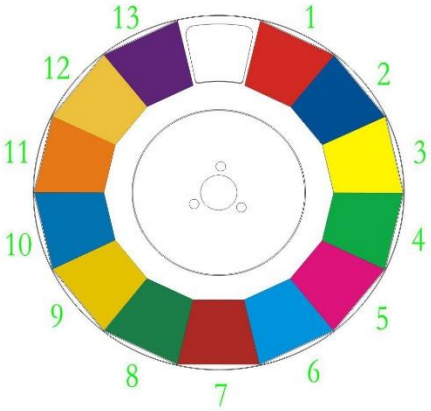


4. after take apart the lamp, please check the inside glasses, clear it will make the light better effect

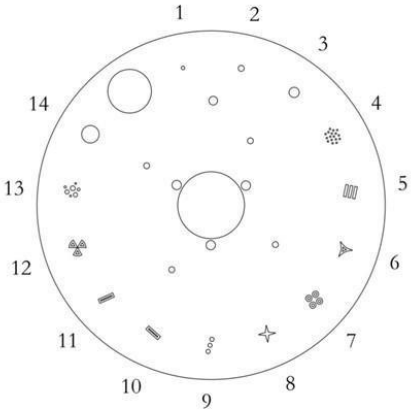


5. installed the lamp after replaced.

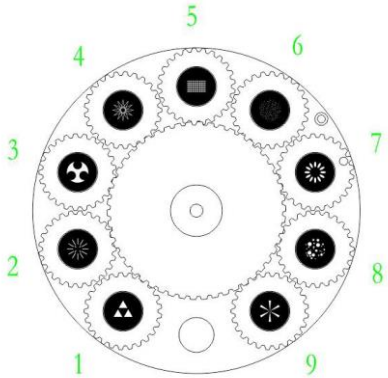
8. Color wheel, gobo wheel



Fixed Gobo



Rotation Gobo



MINIHOT BEAM Have 6 linear prism and 8 facet prism. With Focus . Rotation . Zoom . Shaking . Rotation speed changeable

9. Control panel



Display: to display all information of fixture.
Control wheel: can turn right, left and enter.
turn left ： date increase
turn right ： date decrease
Press function ： enter

10.CONTROL PANEL MENU OPERATE

Main Menu	Submenu 1	Submenu 2	Function SET	Function description
DMX Address			001-512	DMX Address number set
Display	"ShowReve"		"Natu"	Normal
			"Revl"	reverse 180°
	"Language"		"Chin"	Chinese 中文
			"English"	English
	"BrigSett"		000-255	Brightness set
	"Backligh"		"60S "	Backlight close after delay 60S
			"Ligh"	Backlight light always
	MenuBack"		90S	Menu back to mainmenu after delay 90S
			"Off "	Menu back not automatic
	Backflah		open	Backlight blinking when no dmx
			off	Backlight not blinking when
	"Return "		▲	return
		"Xreverse"	"Off "	PAN SCAN Normal
			"Open"	Pan Scan Reverse
			"Off "	Tilt Scan normal

"Feature "	"XY Setup"	"Yreverse"	"Open"	Tilt Scan Reverse
		"XY Speed"	"Fast"	PAN/TILT FAST
				SPEED
			"NORM"	PAN/TILT NORMAL
			"Solw"	PAN/TILT SLOW
		"X Angle"	"360 ", "360 "	Pan Angle 360°
			"540 ", "540 "	Pan Angel 540°
			"630 ", "630 "	Pan Angel 630°
		"XY Fback"	"Off "	PAN/TILT optical sensor testing off
			"Open"	PAN/TILT optical sensor testing on
		Return	▲	Return
	"Shortcut"		"Off "	Shortcust off for colors and gobos
			"Open"	Shortcust open for colors and gobos
	"FullColr"		"Off "	half color function
			"Open"	full color function
	"ChanMode"		"Smal"	Simplify mode
			"Stan"	Standard mode
	"ReceMode"		"DMX "	Accept DMX
			"Wire"	Accept Wireless
			"Auto"	AutoRun
	"RunMode "		"Slve"	Accept other signal control
			"Musc"	Sound active
			"Auto"	Inside program Run automatically
	"SigClear"		"Off "	keep signal data
			"Open"	clear signal data
	DMX Reset		Off	Dmx reset not accept
			Open	Dmx reset accept
	Return		▲	Return
"LampSett"	"Default "		"Wink"	Lamp off
			"Ilum"	Lamp on
	"Control "		"Wink"	Lamp off by manual
			"Ilum"	lamp on by manual
			"Off "	Close other signal control the lamp

	"DmxLamp "		"Open"	Open other signal control the lamp
			0000-9999	Lamp used time recorded
	"LampTime"			
	"ClearTim"		★	Password input Enter
			"Ilum"	Clear Lamp time
	"LampStat"		"Wink"	Lamp off
			"Ilum"	Lamp on
	Return		▲	Return
"InfoSee "	"WorkHour "		0000-9999	working hours memo for connect power
	"Times "		0000-9999	Open times memo
	"Fan1Rota"		0000-9999	Fan rotation speed 1
	"Fan2Rota"		0000-9999	Fan rotation speed 2
	"Version "		XMOA	Version
	Spare time		No limit	No limit time
	Spare cut		No limit	No limit times
	Return		▲	Return
"Control "			Chan 00-Chan 40	Control the Channels
"AssiTool"	**"Factory "**		★	Password input Enter
			"Fold"	Recover Factory set
			"Save"	Save factory set
	"Defaults"		★	Password input Enter
			"Fold"	Recover to default
	Redress		★	Password input enter
			Reset01-10	Set the motors
	Chdefine		Color wheel Rotation 001	Channels set by define
			000……040	Channels set by define
	"Brightne"		★	Password input Enter
		"TimeLimi"	0000-9999	Open fixture time limit
		"TimsLimi"	0000-9999	fixture times limit
		TimeCLEA	clear	Clear the time of used
		CutClea	clear	Clear the times of used
		"Passwor1"	000-255	Revise password 1
		"Passwor2"	000-255	Revise password 2
		"Passwor3"	000-255	Revise password 3

		"Passwor4"	000-255	Revise password 4
		"X Drivin"	000-255	pan main drive gear
		"X Driven"	000-255	Pan slave drive gear
		"Y Drivin"	000-255	Tilt main drive gear
		"Y Driven"	000-255	Tilt slave drive gear
		"LampPowe"	"Off "	Ballast earthed
			"total 5V", "Open"	Ballast 5V
		"YAngle "	000-255	Tilt angel rotation set
		"Return "	000-255	return
	"Checksum "	01-10"		Check Cabrilate data
	Return		▲	Return
CHANLEVE			Chan1..140	Show the dmx address
MotorRst			Color...focus	Display the status
	Return		▲	
All Reset''			"Annu"	Cancel
			"Exec"	Reset
XY Rst	PAN/tilt RESET		"Annu"	Cancel
			"Exec"	Reset
EffecRst	Effect reset		"Annu"	Cancel
			"Exec"	Reset
"ExitMenu"			▲	Exit

11.DMX Channels

MODE 1	MODE 2	DMX Value	Description
1	1	0—255	Pan
2	*	0—255	Pan Fine
3	2	0—255	Tilt
4	*	0—255	Tilt Fine
5	3	0—255	Pan/Tilt speed
6	4		Micro
		0—19	Empty
		20—24	Energy-saving mode（230W）
		25—129	Empty
		130—139	Lamp on by dmx
		140—149	PAN/TILT reset
		150—159	Empty

		160—169	Small motors reset
		170—199	empty
		200—209	Whole unit reset
		210—229	empty
		230—239	Lamp off by dmx
		240—255	empty
7	5		Colors
		0—8	white
		9—17	Deep Red
		18—26	Deep blue
		27—36	Yellow
		37—45	Green
		46—54	Magenta
		55—63	Azure
		64—72	Red
		73—81	Dark green
		82—90	Amber
		91—100	blue
		101—109	orange
		110—118	CTO
		119—127	UV
		128—129	white
		Positioning	
		130—134	Deep Red
		135—138	Deep blue
		139—143	Yellow
		144—147	Green
		148—152	Magenta
		153—157	Azure
		158—161	Red
		162—166	Dark green
		167—171	Amber
		172—176	blue
		177—180	orange
		181—185	CTO
		186—189	UV
		190—215	Forwards rainbow ,speed down
		216—217	No rotation
		218-243	Backwards rainbow, speed up
		244-255	Random color
8	*		empty

9	6		empty
	7		Static gobo
10		0—3	empty
		4—9	Gobo 1
		10—15	Gobo 2
		16—21	Gobo 3
		22—27	Gobo 4
		28—33	Gobo 5
		34—39	Gobo 6
		40—45	Gobo 7
		46—51	Gobo 8
		52—57	Gobo 9
		58—63	Gobo 10
		64—69	Small beam 1
		70—75	Small beam 2
		76—87	Small beam 3
			Gobo shaking from slow to fast
		88—95	shaking
		96—103	Gobo 2
		104—111	Gobo 3
		112—119	Gobo 4
		120—127	Gobo 5
		128—135	Gobo 6
		136—143	Gobo 7
		144—151	Gobo 8
		152—159	Gobo 9
		160—167	Gobo 10
		168—175	Small beam 1
		176—183	Small beam 2
		184—199	Small beam 3
		200—255	Static gobo run from slow to fast
11	8		Rotate gobo
		0—8	empty
		9—17	Gobo 1
		18—26	Gobo 2
		27—35	Gobo 3
		36—44	Gobo 4
		45—53	Gobo 5
		54—62	Gobo 6
		63—71	Gobo 7
		72—80	Gobo 8

		81—89	Gobo 9
			Gobo shaking from slow to fast
		90—97	Shaking ,from slow to fast
		98—106	Gobo 2
		107—115	Gobo 3
		116—124	Gobo 4
		125—133	Gobo 5
		134—142	Gobo 6
		143—151	Gobo 7
		152—160	Gobo 8
		161—169	Gobo 9
		171—179	Gobo 9 not move
		180—217	Run from fast to slow
		218—255	Run from slow to fast
12	9		Gobo rotation
		0—127	index
		128—177	Run from slow to fast in anti clockwise
		178—203	stop
		204—255	Run from fast to slow in clockwise
13	*	0—255	empty
14	10		prism
		0—19	empty
		20—75	6 linear prism
		76—255	8 facet prism
15	11		Prism rotation
		0—127	index
		128—191	Run from fast to slow in clockwise
		192—194	empty
		195—255	Run from slow to fast in anti clockwise
16	12		Frost
		0—64	empty
		65—255	linear frost
17	13		zoom
		0—255	Linear zoom
18	*	0—255	Zoom fine
19	14	0—255	focus
20	*	0—255	Zoom fine
21	*	0—255	empty

22	15		strobe
		0—31	Strobe close
		32—63	No Strobe
		64—95	Strobe from slow to fast
		96—127	No Strobe
		128—143	Fast to slow,slow close fast open
		144—159	Slow to fast,fast open slow close
		160—191	Strobe open
		192—223	Random strobe from slow to fast
		224—255	No strobe
23	16		dimmer
		0—255	Linear dimmer
24	*		empty

12. Clear and maintenance



Warning: Please make sure cut off the power before open the covers.

(Kind Remind: Non-Professional don't do this)

1. Cut off the power supply, cool down the lamp and open the covers.
2. Using vacuum or pressure blows gently blow any dust and floating structures.

13. Contact:

Please check who is our dealer in your country at our website

www.kudux.com

or write direct to us by email: office@kudux.com