280W 10R BEAM SPOT WASH 3IN1
MOVING HEAD LIGHT

MJ-1280

User Manual

======PROFESSIONAL LIGHTING ========

Thank you for choosing our beam spot Wash moving head light. For the sake of your safety, Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

Catalogue

Chapter	Page

☆Important notice:

· In this instruction for use contains about the installment and the use aspect important information of the beam moving head. When installing and using, you need to look this usage instruction strictly.

· Before open the beam moving head and if you want to do the repair work, please make sure the power source is at the separation condition.

· Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer or dealer.

Attention: Unceasingly carries on the product improvement about our company the policy, in this instruction booklet carries the data will have the possibility to be able to change in the future, when no longer separate notice change matters concerned. Our company retains when the product improvement changes the related specification the authority. This instruction booklet publisher cannot be responsible regarding this instruction booklet in information accuracy, also cannot the related consequence which causes regarding these information be responsible.

SAFE USAGE OF THE PRODUCT

When unpacking and before disposing of the carton, check there is no transportation damage before using the product. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The product is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.

The product is not designed or intended to be mounted directly on to inflammable surfaces

The product is only intended for installation, operation and maintenance by professional person.

The product must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not product the beam onto inflammable surfaces, minimum distance is 12m.

Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

Do not attempt to dismantle or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the light clean. Do not touch the light glasss with bare hands.

The product should always be installed with a secondary safety fixing. On the projector base brink, there is a hole for the safety cord provided. It should be attached as shown in "installing the projector" section.

The lamp used in this projector is a discharge lamp. After switching off don,t attempt to restart the projector until lamp has cooled, this will require approx 15 minutes. Switching the lamp on and off at short intervals will reduce the life of both the lamp and the projector. But occasional breaks will prolong the life of the lamp and projector.

Never run the projector without a lamp.

The light shall be changed if it has become damaged or thermally deformed or reached its life limit.

Shields and lens shall be changed if they have become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches.

Exterior surface temperatures of the luminaire after 5 minutes operation is 70°, when steady state is achieved 140°.

There is no user serviceable parts inside the projector, do not open the housing and never operate the product with the covers removed.

If you have any questions, don't hesitate to consult your dealer or manufacturer.

★**Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work !**

Install The Equipment:
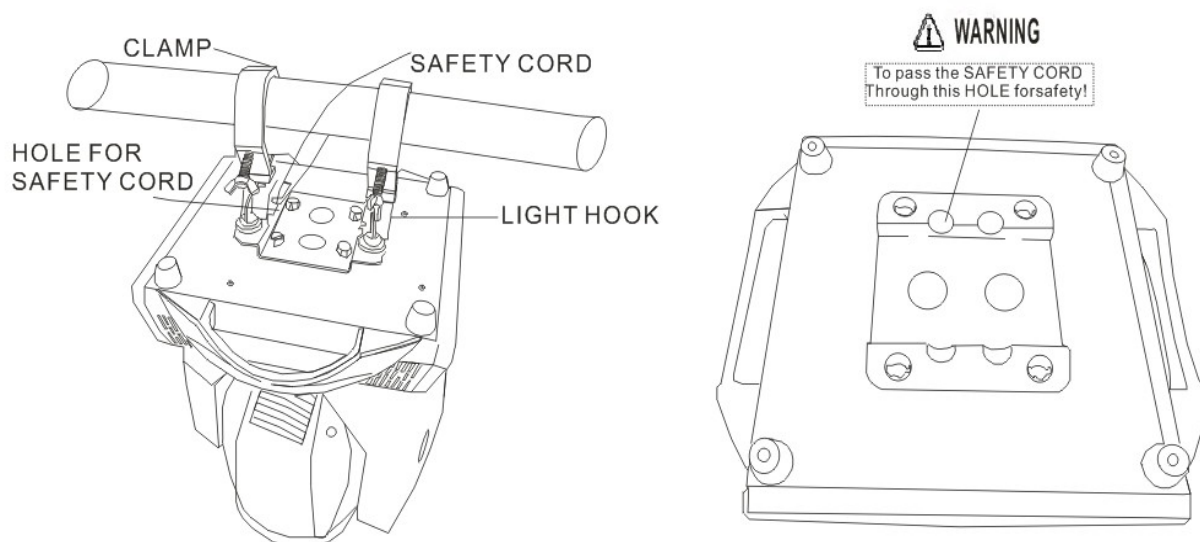
Use 2pcs clamp and 1safety cord(need to purchase).Use clamp fix with light hook which in the packing box with light, then use screw install to the bottom of lamp. Hang the fixture on the structure and fasten the screws attached to each clamp. Make sure the light is installed reliable, and confirm the light which you fixed is strong enough for hanging the light. Base on safety reason, please according to the above picture using safety wire cross the light to make it strong enough again.

Warning!
1. Unlock the PAN and TILT before the 1st application of the light for safety.
2．Hook and clamp only use for hanging the light. Do not use clamp as a tool to move fixtures.
3．Base on safety reason, please use the safety cord which can afford the weight ten times of lamp through Insurance hole for auxiliary hanging.
4．Don't use the handle of the moving head light to fixed or lift!

Fitting The Lamp：

.Loosen 4 fast-fit screws and remove the back cover, when fitting/replacing the lamp.
.Do not touch the bulb of the new lamp with bare hand so as not to influence the beam output.
.Do not harm the sticking out point of the lamp during its installation.
.Fit new lamp and close the back cover by fastening 4 fast-fit screws when finished lamp installation.
.Lamp work will reach a very high temperature, Vapor discharge lamp can not continue to supply this physical characteristics, therefore, the power completely cool for 10 minutes before on the operation. Failure to do so will lead to a high-pressure discharge and short circuit burned out the computer's control panel components.

Notes: Unplug the light from power before lamp installation or replacement and wait for it to cool.

Power Code Connection:

Connect the power cord as follows:
   L (live) =brown
    E (earth) =yellow/green
    N (neutral) =blue

Use the plug provided to connect the mains power to the projector paying attention to the voltage and frequency marked on the panel of the projector. It is recommended that each projector be supplied separately so that they may be individually switched on and off.

★**It is essential that each projector is correctly earthed and the electrical installation conforms to all relevant standards.**
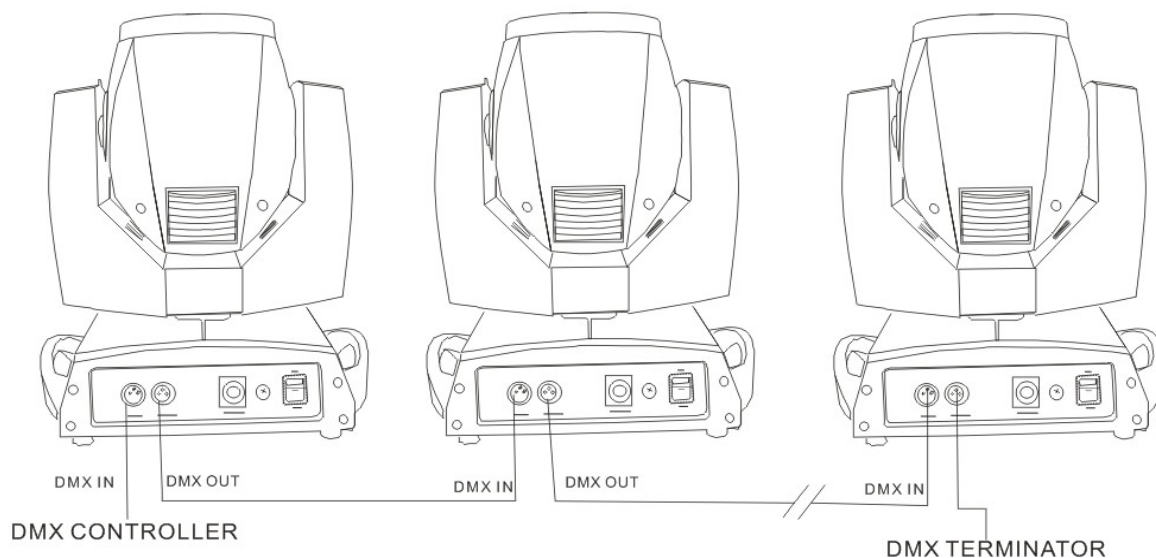
DMX Connection:
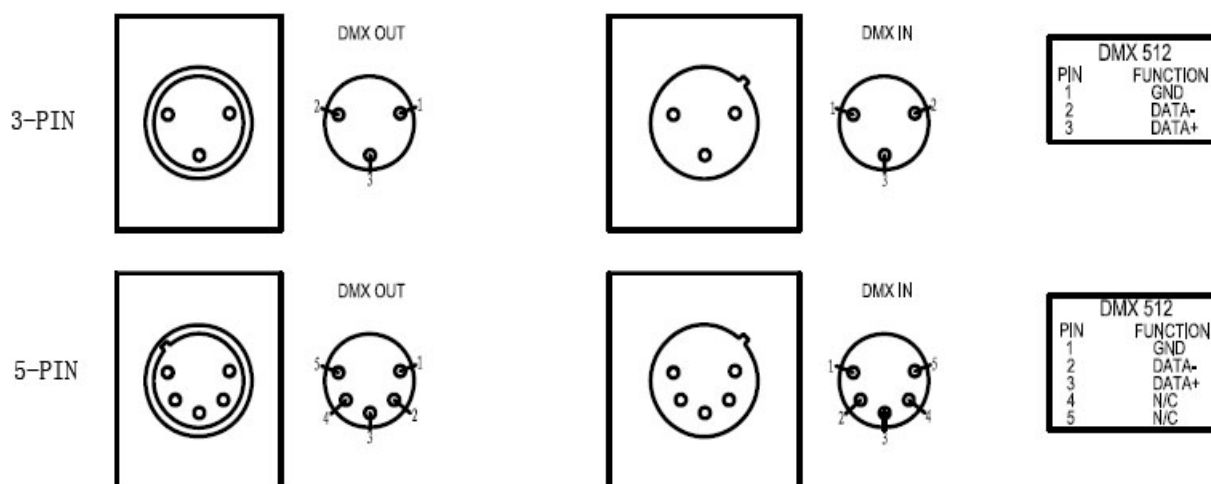
Connection between the controller and a projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Connection to and from the projector is via cannon 3 pin (which are included with the projector) XLR plugs and sockets. The XLR's are connected as shown in the figure above.

Note: Care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The XLED 590 accepts digital control signals in protocol DMX512 (1990).

Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.

DMX Terminator:

In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.
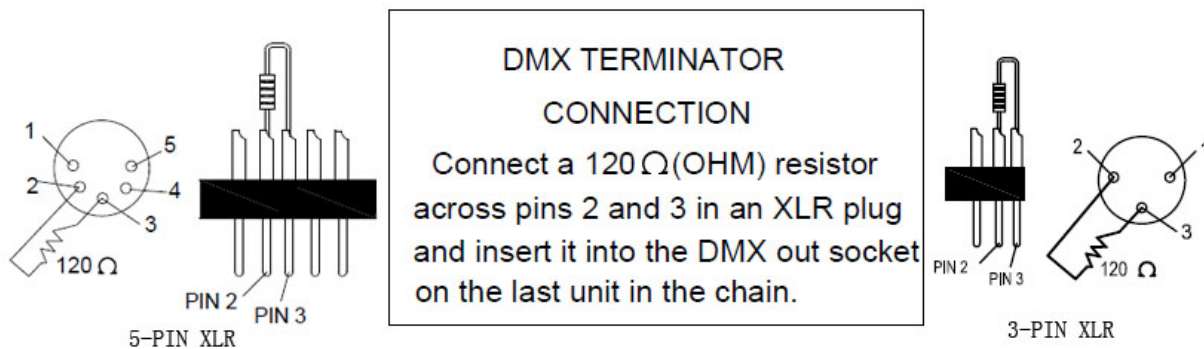
Function Set:

1. Touch Operation
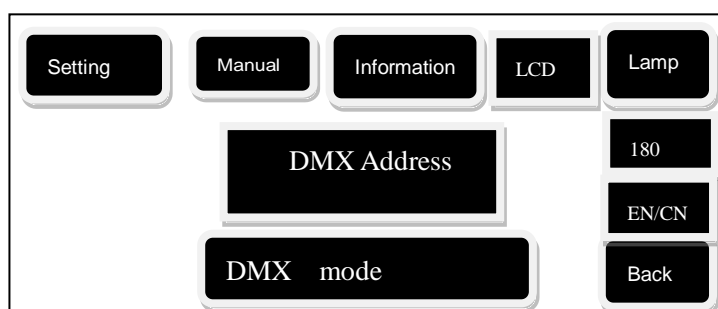
2. Button Opertion

ESC

UP

DOWN

MENU/ENTER

Use button switch and touch LCD display, can set the address code and function code easily.

Check or modify lighting function settings, Press the **Set UP** or **MENU** button. LCD display panel will display main menus. Function operation menu all have corresponding submenu . Each menu all represent the specific functions of lamps, specific see below "operation menu" section.

Set or browse function setting of lamp, Press **UP** or **DOWN** key.
Press **ENTER** key to save your changes or to enter submenu, Press **UP** or **DOWN** can change value(Plus or reduce number).

Operation Menu:

➢ Menu Structure chart

Main Menu	Sub Menu		
1	**Dmx Address (0-512)**	Save	
		Esc	
⚙	Features Setting	Running Mode	Dmx /Wireless /Automatic
		Channel Mode	Standard/Simplify/Custom
		X Reverse	ON/OFF
		Y Reverse	ON/OFF
		X Axis Angle	360/540
		XY Optocoupler Test	ON/OFF
		Signalclear	ON/OFF
		Full Color	ON/OFF
		The Shortest Distance	ON/OFF
	ADV (High Level)	Password 1	***
		Password 2	***
	Channel Definition	Password 1	***
		Password 2	***
	Factory Set	Password 1	***
		Password 2	***

	Use The Management	Password 1	***
		Password 2	***
	RST	Reset	Reset setting
	ESC	Esc	Return to the main menu
			All motors
			Part motor
		Light Reset	XY motor
			Yes
	Manual		No
			Auto running
		Test Running	Sound running
			ESC
		Simulation Controller	CH1-CH32(0-255)
			ESC
		Dmx Value	Ch1-CH32(0-255)
			ESC
			Running time(0-9999)
			Running count(0-9999)
			Residue time(Infinite)
			Residue count (Infinite)
			Fan 1:0
			Fan 2:0
		Other Info	Temperature 1(0-100)
			Temperature 2(0-100)
			PCB1 Ver.: (V1.15)
			PCB2 Ver.: (V1.22)
			PCB3 Ver.: (V1.22)
	System Info		ESC
			Color plate error
			Rotate gobo error
			Fixed rotate gobo error
			X error
			Y error
		Error Info (If Have A Problem, It Will Be Display To Here)	Gobo rotation error
			Prism error
			Gradient error
			Prism rotation error
			Gradient rotation error
			Enlarge error
			Focus error
			ESC

	Display Set	Brightness	1-7 level
		Light Delay	10/20/30 seconds/ <u>ON</u>
		Menu Back	10/20/30 seconds/<u>OFF</u>
		Flicker -Backlight Flash	ON/<u>OFF</u>
		Save	Save settings and return to menu
		Return	Don't save return to menu
	Lamp Setting	Default	ON
		Manual	ON
		Electronic	ON
		ESC	
	Display Reverse	Display 180 degree rotation	
	Chinese /English Display	Switch the language of the menu display	
	Return to the screen protection		

Maintenance:

To prolong the life of the projector, some maintenance work has to be done to ensure the optical system in good condition. If the projector does not function, check the fuses on the power socket of the projector, they should only be replaced by fuses of the same specification. Should these be damaged, call a qualified technician before replacement. The projector has thermal protection device that will switch off the projector in case of overheating. Should either of these operate, check that the fans are not blocked, and if they are dirty, clean them before switching on the projector again. Check that the fans are operational, if not, call a qualified technician.

☆**Any maintenance work should only be carried out by qualified technicians.**

Keeping The Product Clean:

To ensure the reliability of the projector, it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output.
Do NOT use any type of solvent on dichroic colour filters.

Cleaning frequency depends on the environment in which the fixture operates: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean the external optics at least once every 15 days and clean the internal optics at least once every 60 / 90 days.

☆**Do not use any organic solvent, e.g. alcohol, to clean housing of the apparatus.**

Trouble Shooting:

Problem	Answer
The moving head light doesn't switch on.	Check the fuse the power socket Replace the lamp
Although shines, but the moving head lamp doesn't accept the instruction of the controller.	Check the digital start address and also check the connection situation of the communication control line
The moving head lamp only can work intermittently.	Inspect the power supply and voltage is whether normal. Make sure the fan is working well or fans and their filters not blocked
Defective projection	Make sure the lamp is within its life limit Remove dust or grease from the lenses.
The beam appears dim	heck the optics is clean or the lens in good condition(not cracked) Replace with a new lamp of the specified type and rating.

☆**Other maintain work should by the specialist which has the experience to carry on.**

Equipment and Appendix:

☆ 280W 10R Moving Head Light   1pcs
☆ Power Cable   1pcs
☆ XLR connector   1unit
☆ Light Hook   2pcs
☆ The Product of Instruction   1pcs

Channel List:

STAN (24CH)	SMAL (16CH)	DMX Value	Function	
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		Macro function	
		0－19	Empty	
		20－24	Energy saving mode（230W）	
		25-129	Empty	
		130－139	Lamp On	
		140－149	X Y axis reset	

		150－159	Empty
		160－169	All small motor reset
		170－199	Empty
		200－209	Light reset
		210－229	Empty
		230－239	Lamp Off
		240－255	empty
7	5		Color wheel
		0－3	Open
		3－9	White + Red
		9－18	Red + Deep Green
		18－27	Deep Green + Blue
		27－37	Blue + Light Yellow
		37－46	Light Yellow + Brown
		47－55	Brown + Deep blue
		55－64	Deep blue + Orange red
		64－73	Orange red + Light-green
		73－82	Light-green + Blue-green
		82－91	Blue-green + Rose red
		91－101	Rose red + Claybank
		101-110	Claybank +Purple
		110-119	Purple +Orange
		119-127	Orange + White
		128－129	White
		130－134	Red
		135－138	Deep Green
		139－143	Blue
		144－147	Light Yellow
		148－152	Brown
		153－157	Deep blue
		158－161	Orange red
		162－166	Light-green
		167－171	Blue-green
		172－176	Rose red
		177－180	Claybank
		181－185	Purple
		186－189	Orange
		190－215	From fast to slow stream
		218－243	From slow to fast stream
		244－249	Random voice contrpl running color
		250－255	Random running color automatic
8	*	0－255	Color wheel fine
9	6	0－255	Effect speed

		Static gobo wheel	
10	7	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	Beam reducer 1
		70－75	Beam reducer 2
		76－81	Beam reducer 3
		82－87	pattern shake from slow to fast
		88－95	Gobo 1
		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	Beam reducer 1
		176－183	Beam reducer 2
		184－191	Beam reducer 3
		192-199	Open
		202－221	Fixed pattern stream from fast to slow in positive direction
		222-223	stream stop
		224-243	fixed pattern stream from slow to fast reverse
		244-249	random voice control running fixed pattern
		250-255	random voice control running fixed pattern automatic
11	8	Rotating gobo wheel	
		Index-set indexing on channel 12/9	
		0－4	Open
		5－7	Gobo 1
		8－10	Gobo 2
		11－13	Gobo 3
		14－16	Gobo 4
		17－19	Gobo 5

		20－22	Gobo 6
		23－25	Gobo 7
		26－28	Gobo 8
		29－31	Gobo 9
		Rotation-set rotation on channel 12/9	
		32－34	Gobo 1
		35－37	Gobo 2
		38－40	Gobo 3
		41－43	Gobo 4
		44－46	Gobo 5
		47－49	Gobo 6
		50－52	Gobo 7
		53－55	Gobo 8
		56－59	Gobo 9
		pattern shake from slow to fast	
		Index-set indexing on channel 12/9	
		60－67	Gobo 1
		68－75	Gobo 2
		76－83	Gobo 3
		84－91	Gobo 4
		92－99	Gobo 5
		100－107	Gobo 6
		108－115	Gobo 7
		116－123	Gobo 8
		124－129	Gobo 9
		Rotation-set rotation on channel 12/9	
		130－137	Gobo 1
		138－145	Gobo 2
		146－153	Gobo 3
		154－161	Gobo 4
		162－169	Gobo 5
		170－177	Gobo 6
		178－185	Gobo 7
		186－193	Gobo 8
		194－199	Gobo 9
		202－221	Gobo wheel rotation from fast to slow
		224－243	Gobo wheel rotation from slow to fast stream
		244－255	Auto random gobo
		Rot.gobo indexing and rotation	
		0－127	index
12	9	128－177	Counterclockwise from slow to fast stream
		178－203	stop
		204－255	Clockwise from fast to slow stream

13	*	0－255	Rot.gobo indexing and rotation fine
14	10	prism	
		0－19	empty
		20－49	6-facet linear prism index function
		50-75	6-facet linear prism rotation function
		76－104	8-facet circular prism index function
		105-127	8-facet circular prism rotation function
		128-135	Macro function 1
		136-143	Macro function 2
		144-151	Macro function 3
		152-159	Macro function 4
		160-167	Macro function 5
		168-175	Macro function 6
		176-183	Macro function 7
		184-191	Macro function 8
		192-199	Macro function 9
		200-207	Macro function 10
		208-215	Macro function 11
		216-223	Macro function 12
		224-231	Macro function 13
		232-239	Macro function 14
		240-247	Macro function 15
		248-255	Macro function 16
15	11	Prism rotation	
		0－127	index
		128－191	Clockwise from fast to slow stream
		192－193	empty
		194－255	Counterclockwise from slow to fast stream
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	Focus fine
21	*	0－255	Empty
22	15	Strobe	
		0－31	strobe off
		32－63	strobe on
		64－95	strobe from slow to fast
		96－127	strobe opem
		128－143	from fast to slow,slow off fast on

		144－159	from slow to fast,fast on slow off
		160－191	strobe on
		192－223	random strobe from slow to fast
		224－255	strobe on
23	16	0－255	Dimmer
		0－255	Linear dimmer
24	*	0－255	Empty

Technical Parameters:

Voltage : AC100~240V/50-60Hz

Power consumption:470W@(220V)

Bulb: YODN MSD2800R10 LAMP lamp

Lamp : OYODN 280W ,Color temperature : 8500K

Color: 13 Color + White

Gobo1: 9 Rotating gobo + White

Gobo2: 14 Fixed gobo + White

Prism : 1Pcs rotation 8-face prism, Bilateral rotation .frost function

　　　1Pcs rotation 6-facet linear prism rotating in both directions at different speeds

Dimmer : 0-100% linear adjustment ,Strobe(0.5-9 times/ second)

Beam angle : Parallel beam angel 2.5 – 20°

Channel : 16/24CHs

Control mode : DMX512, Automatic，Sound and Master- slave mode

Pan: X axis 540° automatically accurate positioning

Tilt:Y axis 270° automatically accurate positioning

Control Panel: LCD touch screen display panel with buttons, 2.2-inch color LCD display with English and Chinese menu, can be rotation 180 °

Protection grade:IP20

Gross Weight: 19.5 kg

Package Size: 450 x 430x 530cm