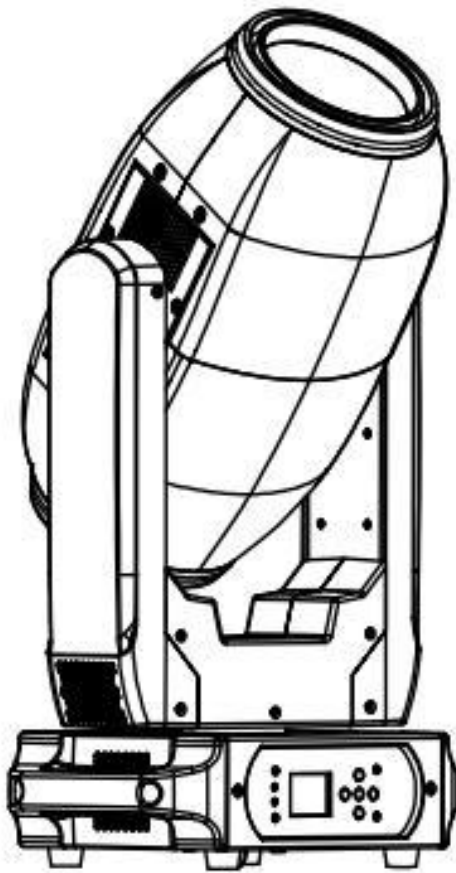


Double head LE BEAM

User Manual



Guangzhou Mitek Light Co.,LTD

Email: info@miteklight.com

Website: www.miteklight.com

Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

TECHNICAL PARAMETERS

Light source

Voltage: AC100V-240V 50/60HZ

Max Power: 250W

Light source: 2pcs 80W LED modules white light source, full color phantom light ring

LED Lifetime: Average 20,000 hours

Optical

Beam angle: 1.5 degrees

Controls

Control mode: Standard International DMX-512 signal, RDM signal

Channel: 20CH/32CH

Effect

Color: 11 colors

Static Gobo Wheel: 18 gobos

Prism : One 24 prism

Dimming: Electronic strobe 1-25Hz/s, multiple strobe effects

Construction

Pan: 360 degrees infinite + 16bit fine

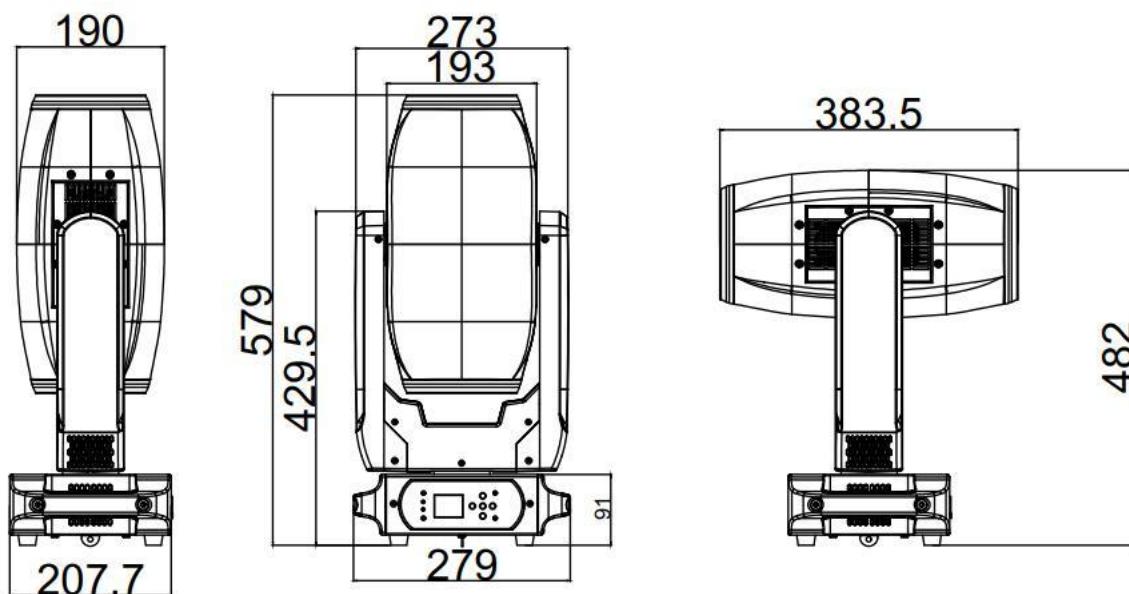
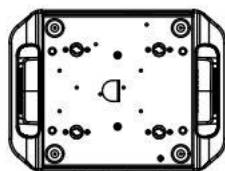
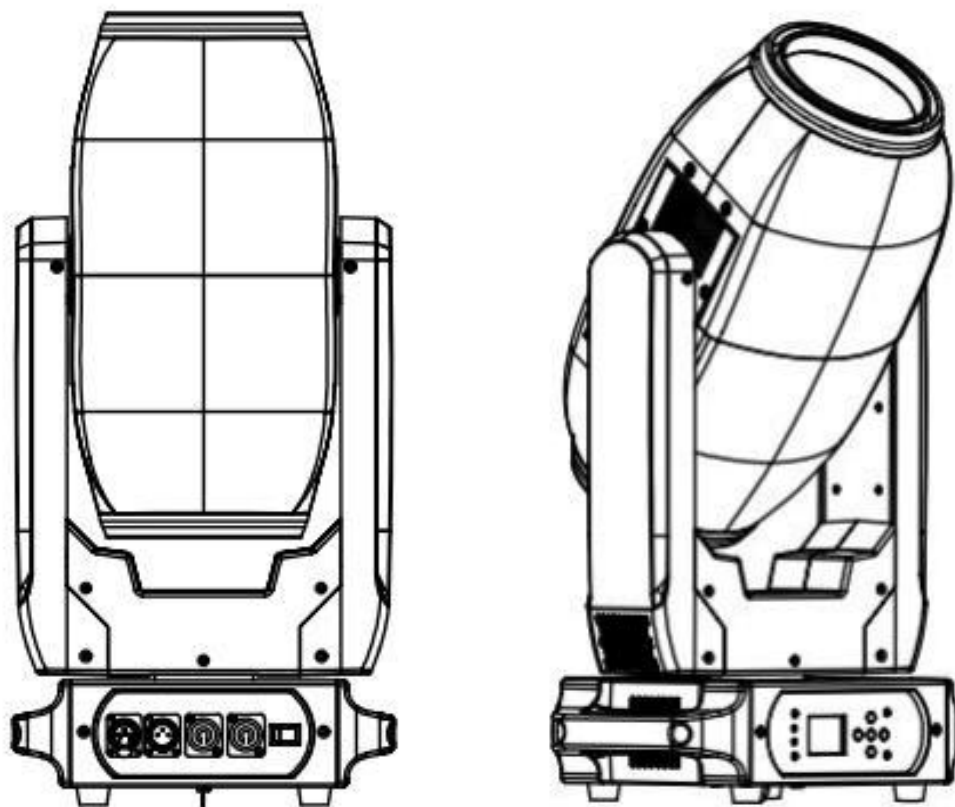
Tilt: 360 degrees infinite + 16bit fine

Weight&Dimension

Fixture size: 384*279*579MM

N.W:12.2KG

SIZE DRAWING



Unpacking

Thank you for choosing our products. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions, make sure the power is off before opening the light or repairing. Meanwhile, please keep this manual well for future needs.

It is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

This light uses 2 high-brightness and stable LED light beads. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:

Moving head-----One
Power cable-----One
Omega bracket----Two

DMX signal cable-----One
User manual-----One
Safety cable-----One

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.

Operation Instructions

- The moving head is for beam purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be kept away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

Mounting and Installation

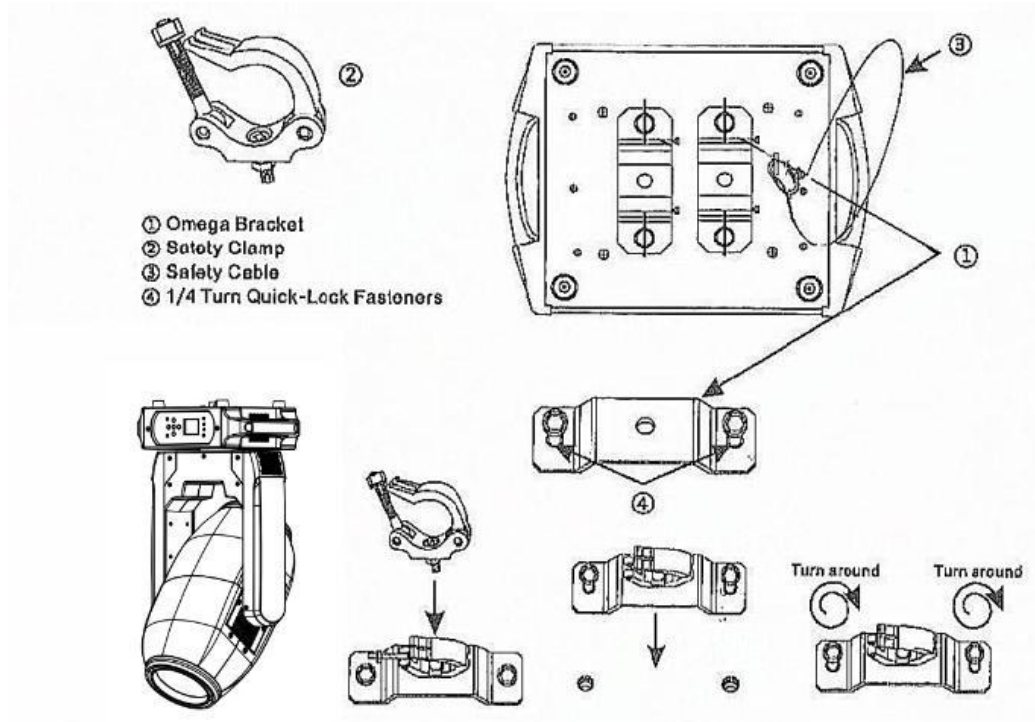
Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture from a periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting: The double head infinite beam moving head light 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 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 on of the safety cable rigging point integrated in the base assembly

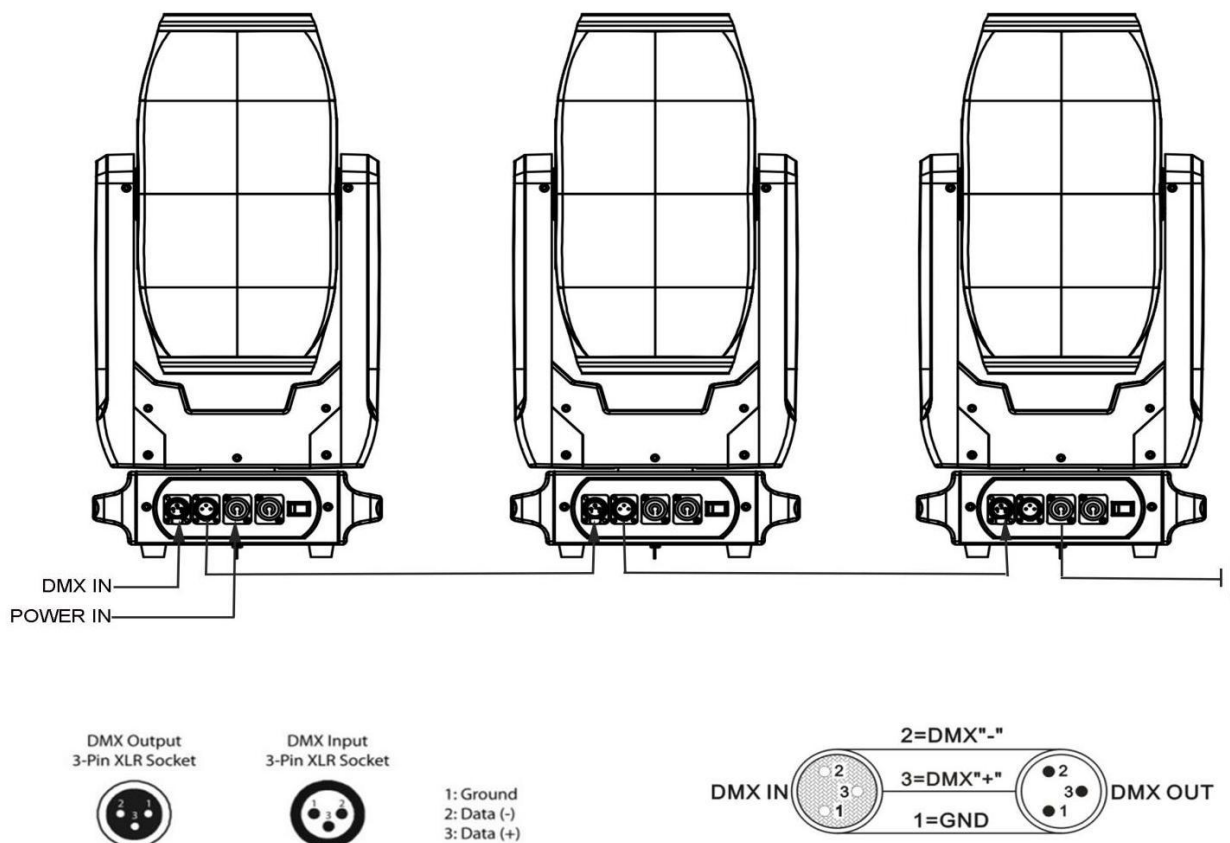


Regardless of the rigging option you choose for your fixture, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

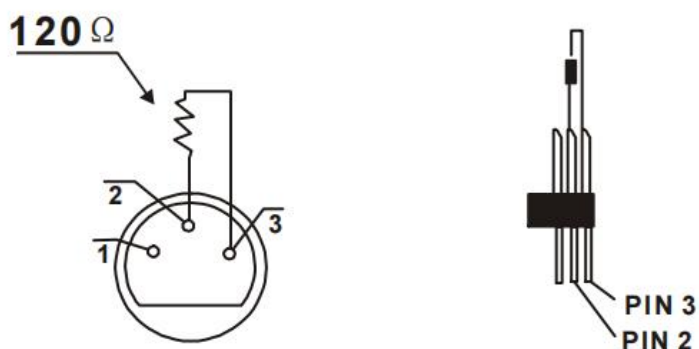
DMX-512 control connections

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. 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 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.



Display instruction

Main menu	Submenu	Level 3 menu/Description
DMX Address	001 - 512	(Add the number of channels each time, subtract the normal)
System Setting	Run Mode	DMX/Auto1/Auto2 / Sound Control
	DMX Mode	20CH /32CH
	Pan Invert	Close/Open
	Tilt Invert	Close/Open
	Hall Error Correction	Close/Open
	Optocoupler Error Correction	Close/Open
	Signal Hold	Close/Open
	Screen Saver	Close/Open
	Screen Flip	Close/Open/Auto
	Synchronous Update	Close/Open
	Language	CH/EN
	Restore Factory Settings	Confirm/Cancel
Manual Mode	Current Channel Mode Channel	0-255
System calibration	Enter Password	Lighting Calibration
System Reset	Effect Motor Reset	Reset all effect wheels except Pan/Tilt
	Scan Motor Reset	Only Pan/Tilt reset
	All Motors Reset	Light Reset
System Information	Reset Information	Device error information
	DMX Data Monitoring	Receive channel value from the console
	Sensor Information	Sensor status information
	Hardware Version	Display hardware version
	Software Version	Display software version

Options	Description	
Operation Mode	Lighting operation mode: DMX/sound control/auto 1/auto 2	
	DMX Mode	Controller mode, receiving DMX signal
	Auto Mode1	The light runs automatically according to the built-in auto program 1
	Auto Mode2	The light runs automatically according to the built-in auto program 2
	Sound Control Mode	When the light detects a strong sound, it will automatically run a scene according to the built-in program, otherwise it will keep the last scene
Channel Mode	20CH/32CH	
Pan Invert	Set the Pan rotation direction	
	Close	No reverse
	Open	Reverse
Tilt Invert	Set the Tilt rotation direction	
	Close	No reverse
	Open	Reverse
Hall Error Correction	Detect whether the gobo wheel, color wheel and other functions out of step and correct	
	Close	No position correction after loss of step
	Open	Automatic position correction after loss of step
Optocoupler Error Correction	Detect if Pan/Tilt out of step and correct	
	Close	No position correction after loss of step
	Open	Automatic position correction after loss of step
Signal Hold	When there is no DMX signal, the output status of the light	
	Close	No signal, so the motor and light source return to the position and state when reset is completed
	Open	No signal, keep the last frame of DMX data output
Screen Saver	How long the screen is on	
	Close	Always on
	Open	In a static environment, the screen turns off at a fixed time
Screen Flip	Set the screen orientation	
	Close	No invert display
	Open	Invert display
	Automatic	The system can automatically rotate the screen according to the direction of gravity

Synchronous Update	Synchronize the setting parameters or calibration parameters multiple	
	Close	Synchronous update function is turned off
	Open	After opening , connect multiple light with DMX cables, and update the information synchronously in the setting interface and calibration interface. (Note: Please unplug the DMX signal cable connected to the console)
Language	Switch between Chinese and English menu	
	CH	Chinese
	EN	English menu
Restore factory Settings	The lighting parameters return to factory settings	
	Cancel	Stay the same
	Confirm	Restore the light to factory settings

DMX Channels

20CH

20CH	Function	DMX	Description
1	Pan	0-255	0-540 degrees
2	Pan fine	0-255	0-2 degrees
3	Pan infinite rotation	0-53	Reset
		54-154	Anti-Clockwise rotate from slow to fast
		155-255	Clockwise rotate from slow to fast
4	Tilt	0-255	0-270 degrees
5	Tilt fine	0-255	0-1 degrees
6	Tilt infinite rotation	0-53	Reset
		54-154	Anti-Clockwise rotate from slow to fast
		155-255	Clockwise rotate from slow to fast
7	Pan/Tilt Speed	0-255	From fast to slow
8	Dimmer	0-255	0-100% dimmer
9	Strobe	0-3	Light up
		4-99	Synchronous strobe
		100-149	Pulse strobe
		150-199	Thunder strobe
		200-249	Random strobe
		250-255	Light on

10	Color	0-12	Open
		13-17	Color 1
		18-22	Color 2
		23-27	Color 3
		28-32	Color 4
		33-37	Color 5
		38-42	Color 6
		43-47	Color 7
		48-52	Color 8
		53-57	Color 9
		58-62	Color 10
		63-67	Color 11
		68-72	Open+Color 1
		73-77	Color 1+Color 2
		78-82	Color 2 + Color 3
		83-87	Color 3 + Color 4
		88-92	Color 4 + Color 5
		93-97	Color 5 + Color 6
		98-102	Color 6+Color 7
		103-107	Color 7+Color 8
		108-112	Color 8+Color 9
		113-117	Color 9 + Color 10
		118-122	Color 10 + Color 11
		123-127	Color 11+Open
		128-189	Anti-Clockwise flow from fast to slow
		190-193	Stop flow
		194-255	Clockwise flow from slow to fast
		0-9	Open
		10-12	Static Gobo 1
		13-15	Static Gobo 2
		16-18	Static Gobo 3
		19-21	Static Gobo 4
		22-24	Static Gobo 5
		25-27	Static Gobo 6
		28-30	Static Gobo 7
		31-33	Static Gobo 8

11	Static Gobo	34-36	Static Gobo 9
		37-39	Static Gobo 10
		40-42	Static Gobo 11
		43-45	Static Gobo 12
		46-48	Static Gobo 13
		49-51	Static Gobo 14
		52-54	Static Gobo 15
		55-57	Static Gobo 16
		58-60	Static Gobo 17
		61-63	Static Gobo 18
		64-70	Static Gobo 1 shake from slow to fast
		71-77	Static Gobo 2 shake from slow to fast
		78-84	Static Gobo 3 shake from slow to fast
		85-91	Static Gobo 4 shake from slow to fast
		92-98	Static Gobo 5 shake from slow to fast
		99-105	Static Gobo 6 shake from slow to fast
		106-112	Static Gobo 7 shake from slow to fast
		113-119	Static Gobo 8 shake from slow to fast
		120-126	Static Gobo 9 shake from slow to fast
		127-133	Static Gobo 10 shake from slow to fast
		134-140	Static Gobo 11 shake from slow to fast
		141-147	Static Gobo 12 shake from slow to fast
		148-154	Static Gobo 13 shake from slow to fast
		155-161	Static Gobo 14 shake from slow to fast
		162-168	Static Gobo 15 shake from slow to fast
		169-175	Static Gobo 16 shake from slow to fast
		176-182	Static Gobo 17 shake from slow to fast
		183-189	Static Gobo 18 shake from slow to fast
		190-221	Anti-Clockwise flow from fast to slow
		222-223	Stop flow
		224-255	Clockwise flow from slow to fast
12	Prism	0-31	Prism 1 cut out
		31-63	Prism 1 cuts in
		64-255	Prism 1 cuts in and rotates from slow to fast
13	Focus	0-255	From far to near
		0-4	Light on

14	Light strip strobe	5-250	Synchronous strobe
		251-255	Light on
15	Light strip red	0-255	Red dimming (dark to bright)
16	Light strip green	0-255	Green dimming (dark to bright)
17	Light strip blue	0-255	Blue dimming (dark to bright)
18	Dynamic Effects	0-4	Null
		5-255	Light strip 1 effect
19	Effect Speed	0-127	Light strip 1 effect positive from slow to fast
		128-255	Light strip 1 effect reverse from slow to fast
20	Reset	215-225	Head motor resets after more than 5 seconds
		230-240	Pan/Tilt motor reset after more than 5 seconds
		245-255	All resets after more than 5 seconds

32CH

32CH	Function	DMX	Description
1	Pan	0-255	0-540 degrees
2	Pan fine	0-255	0-2 degrees
3	Pan infinite rotation	0-53	Reset
		54-154	Anti-Clockwise rotate from slow to fast
		155-255	Clockwise rotate from slow to fast
4	Tilt	0-255	0-270 degrees
5	Tilt fine	0-255	0-1 degrees
6	Tilt infinite rotation	0-53	Reset
		54-154	Anti-Clockwise rotate from slow to fast
		155-255	Clockwise rotate from slow to fast
7	Pan/Tilt Speed	0-255	From fast to slow
8	Dimmer 1	0-255	0-100% dimmer
9	Strobe 1	0-3	Light up
		4-99	Synchronous strobe
		100-149	Pulse strobe
		150-199	Thunder strobe
		200-249	Random strobe
		250-255	Light on
		0-12	Open
		13-17	Color 1
		18-22	Color 2

10	Color 1	23-27	Color 3
		28-32	Color 4
		33-37	Color 5
		38-42	Color 6
		43-47	Color 7
		48-52	Color 8
		53-57	Color 9
		58-62	Color 10
		63-67	Color 11
		68-72	Open+Color 1
		73-77	Color 1+Color 2
		78-82	Color 2 + Color 3
		83-87	Color 3 + Color 4
		88-92	Color 4 + Color 5
		93-97	Color 5 + Color 6
		98-102	Color 6+Color 7
		103-107	Color 7+Color 8
		108-112	Color 8+Color 9
		113-117	Color 9 + Color 10
		118-122	Color 10 + Color 11
		123-127	Color 11+Open
		128-189	Anti-Clockwise flow from fast to slow
		190-193	Stop flow
		194-255	Clockwise flow from slow to fast
11	Static Gobo 1	0-9	Open
		10-12	Static Gobo 1
		13-15	Static Gobo 2
		16-18	Static Gobo 3
		19-21	Static Gobo 4
		22-24	Static Gobo 5
		25-27	Static Gobo 6
		28-30	Static Gobo 7
		31-33	Static Gobo 8
		34-36	Static Gobo 9
		37-39	Static Gobo 10
		40-42	Static Gobo 11
		43-45	Static Gobo 12
		46-48	Static Gobo 13
		49-51	Static Gobo 14
		52-54	Static Gobo 15
		55-57	Static Gobo 16

		58-60	Static Gobo 17
		61-63	Static Gobo 18
		64-70	Static Gobo 1 shake from slow to fast
		71-77	Static Gobo 2 shake from slow to fast
		78-84	Static Gobo 3 shake from slow to fast
		85-91	Static Gobo 4 shake from slow to fast
		92-98	Static Gobo 5 shake from slow to fast
		99-105	Static Gobo 6 shake from slow to fast
		106-112	Static Gobo 7 shake from slow to fast
		113-119	Static Gobo 8 shake from slow to fast
		120-126	Static Gobo 9 shake from slow to fast
		127-133	Static Gobo 10 shake from slow to fast
		134-140	Static Gobo 11 shake from slow to fast
		141-147	Static Gobo 12 shake from slow to fast
		148-154	Static Gobo 13 shake from slow to fast
		155-161	Static Gobo 14 shake from slow to fast
		162-168	Static Gobo 15 shake from slow to fast
		169-175	Static Gobo 16 shake from slow to fast
		176-182	Static Gobo 17 shake from slow to fast
		183-189	Static Gobo 18 shake from slow to fast
		190-221	Anti-Clockwise flow from fast to slow
		222-223	Stop flow
		224-255	Clockwise flow from slow to fast
12	Prism 1	0-31	Prism 1 cut out
		31-63	Prism 1 cut in
		64-255	Prism 1 cuts in and rotates from slow to fast
13	Focus 1	0-255	From far to near
14	Light strip1 strobe	0-4	Light on
		5-250	Synchronous strobe
		251-255	Light on
15	Light strip 1	0-255	Red dimming (dark to bright)
16	Light strip 1	0-255	Green dimming (dark to bright)
17	Light strip 1	0-255	Blue dimming (dark to bright)
18	Dynamic Effect 1	0-4	Null
		5-255	Light strip 1 effect
19	Effect Speed 1	0-127	Light strip 1 effect positive from slow to fast
		128-255	Light strip 1 effect reverse from slow to fast
20	Dimmer2	0-255	0-100% dimmer
		0-3	Light up
		4-99	Synchronous strobe
		100-149	Pulse strobe

21	Strobe 2	150-199	Thunder strobe
		200-249	Random strobe
		250-255	Light on
22	Color 2	0-12	Open
		13-17	Color 1
		18-22	Color 2
		23-27	Color 3
		28-32	Color 4
		33-37	Color 5
		38-42	Color 6
		43-47	Color 7
		48-52	Color 8
		53-57	Color 9
		58-62	Color 10
		63-67	Color 11
		68-72	Open+Color 1
		73-77	Color 1+Color 2
		78-82	Color 2 + Color 3
		83-87	Color 3 + Color 4
		88-92	Color 4 + Color 5
		93-97	Color 5 + Color 6
		98-102	Color 6+Color 7
		103-107	Color 7+Color 8
		108-112	Color 8+Color 9
		113-117	Color 9 + Color 10
		118-122	Color 10 + Color 11
		123-127	Color 11+Open
		128-189	Anti-Clockwise flow from fast to slow
		190-193	Stop flow
		194-255	Clockwise flow from slow to fast
23	Static Gobo 2	0-9	Open
		10-12	Static Gobo 1
		13-15	Static Gobo 2
		16-18	Static Gobo 3
		19-21	Static Gobo 4
		22-24	Static Gobo 5
		25-27	Static Gobo 6
		28-30	Static Gobo 7
		31-33	Static Gobo 8
		34-36	Static Gobo 9
		37-39	Static Gobo 10

		40-42	Static Gobo 11
		43-45	Static Gobo 12
		46-48	Static Gobo 13
		49-51	Static Gobo 14
		52-54	Static Gobo 15
		55-57	Static Gobo 16
		58-60	Static Gobo 17
		61-63	Static Gobo 18
		64-70	Static Gobo 1 shake from slow to fast
		71-77	Static Gobo 2 shake from slow to fast
		78-84	Static Gobo 3 shake from slow to fast
		85-91	Static Gobo 4 shake from slow to fast
		92-98	Static Gobo 5 shake from slow to fast
		99-105	Static Gobo 6 shake from slow to fast
		106-112	Static Gobo 7 shake from slow to fast
		113-119	Static Gobo 8 shake from slow to fast
		120-126	Static Gobo 9 shake from slow to fast
		127-133	Static Gobo 10 shake from slow to fast
		134-140	Static Gobo 11 shake from slow to fast
		141-147	Static Gobo 12 shake from slow to fast
		148-154	Static Gobo 13 shake from slow to fast
		155-161	Static Gobo 14 shake from slow to fast
		162-168	Static Gobo 15 shake from slow to fast
		169-175	Static Gobo 16 shake from slow to fast
		176-182	Static Gobo 17 shake from slow to fast
		183-189	Static Gobo 18 shake from slow to fast
		190-221	Anti-Clockwise flow from fast to slow
		222-223	Stop flow
		224-255	Clockwise flow from slow to fast
24	Prism 2	0-31	Prism 2 cut out
		31-63	Prism 2 cut in
		64-255	Prism 2 cut in and rotate from slow to fast
25	Focus 2	0-255	From far to near
26	Light strip 2 strobe	0-4	Light on
		5-250	Synchronous strobe
		251-255	Light on
27	Light strip 2 red	0-255	Red dimming (dark to bright)
28	Light strip 2 green	0-255	Green dimming (dark to bright)
29	Light strip 2 blue	0-255	Blue dimming (dark to bright)
30	Dynamic Effect 2	0-4	Null
		5-255	Light strip 2 effect

31	Effect Speed 2	0-127	Light strip 2 effect positive from slow to fast
		128-255	Light strip 2 effect reverse from slow to fast
32	Reset	215-225	Head motor resets after more than 5 seconds
		230-240	Pan/Tilt motor reset after more than 5 seconds
		245-255	All resets after more than 5 seconds

REMARK

The product has perfect performance and integrity packing.

All users should be strictly comply with the warning and operating instructions as stated.

Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.