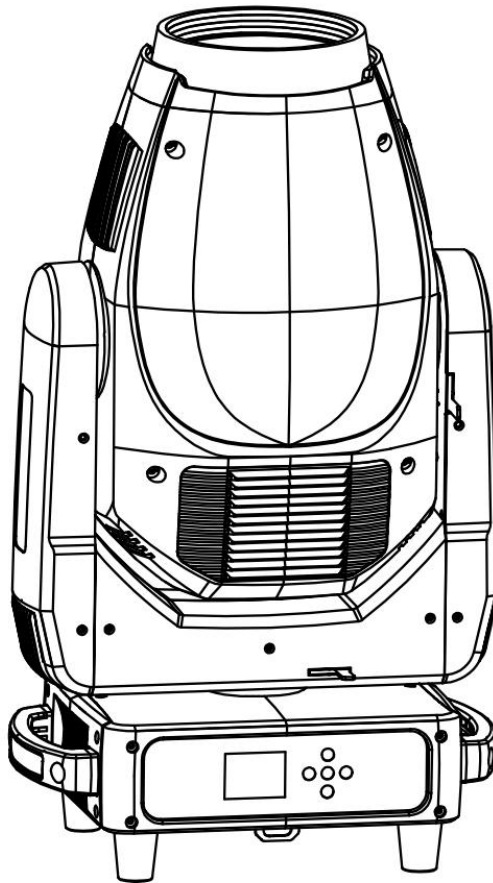


MEGA 480



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!

We are confident that our excellent products and service can satisfy you.

For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly.

We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!

Keep this device away from rain and moisture!



CAUTION!

Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of this device has to:

-be qualified

-follow carefully the instructions of this manual

INTRODUCTION

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Two mounted brackets
4. One safety rope
5. One English user manual

(Flight case, Clamps/Folding clamp are optional, please contact your dealer)

Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6th page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

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.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.

2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ 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 temperatures.

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.

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.

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.



CAUTION!

Never touch the device during operation!
The housing may heat up!



CAUTION!

Never look directly into the light source,
As sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

2. Do not spill water or other liquids into or on to your unit.

3. During long periods of non-use, disconnect the unit's main power.

4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

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. Fixations and installations 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, make sure 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 !

SPECIFICATION

POWER & LIGHT SOURCE

- Light source:Osram Sirius HRI 461W
- Static Consumed Power:480W @230VAC
- Moving Consumed Power:550W @230VAC
- Light source life:2000Hrs
- Color temperature:7500K ·300,000Lux@10m

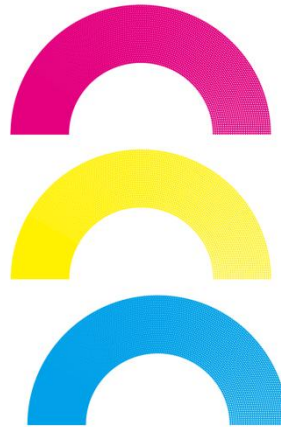
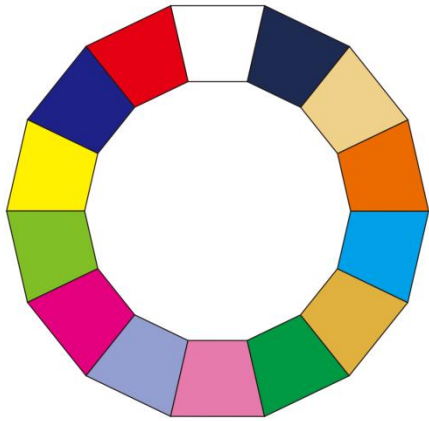
EFFECTS

- Dimming system:0-100%linear adjustment
- Focusing system:linear adjustment
- Frost:variable 1°(light)and 5°(medium)
- BEAM Angle:
- 2°~29°(BEAM MODEL) ·3°~45°(SPOT MODEL)
- Adjustable speed strobe effect
- Linear CMY color mixing system
- Colour Wheel:13 colors+open
- Rotating gobo wheel: 9 rotating gobos+open,indexable and replaceable gobos
- Static gobo wheel:14 gobos+open
- Animation wheel:Aluminium animation wheel,used alone or in combination with gobos,rotating in both directions at variable speed
- Innovative Effect Engine consisting of 6 prisms placed on two wheels, producing 12 various Beam and Flower effects

BODY & CONTROL

- Pan 540 degree,Tilt 270 degree,16bit
- Channel mode:39/34CH
- Powercon /True1 XLR 3Pin in+out
- Net weight: 22KG
- Size:384*252*665mm(L*W*H)

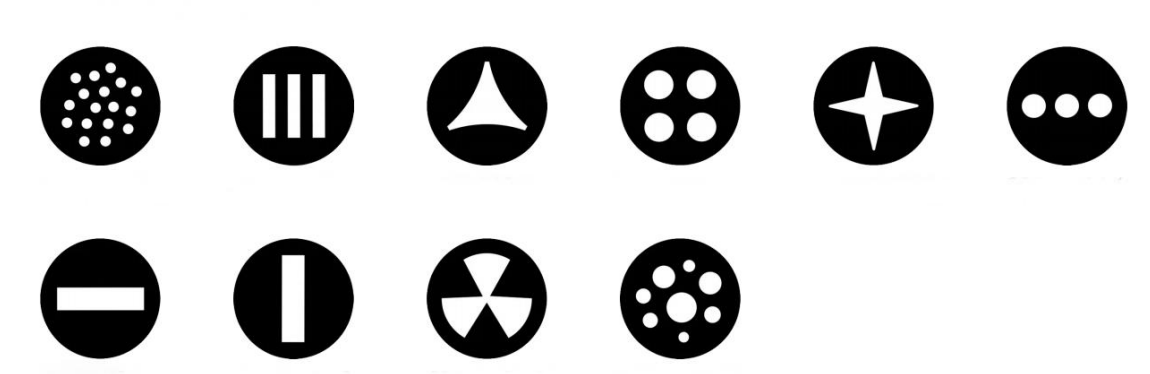
COLOR WHEEL



ROTATING GOBO WHEEL



FIXED GOBO WHEEL



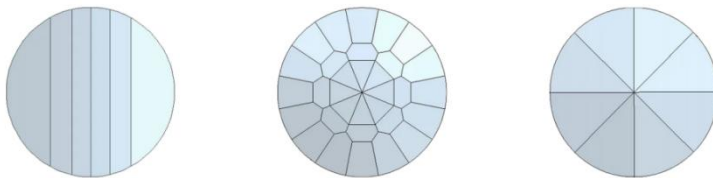
ANIMATION WHEEL



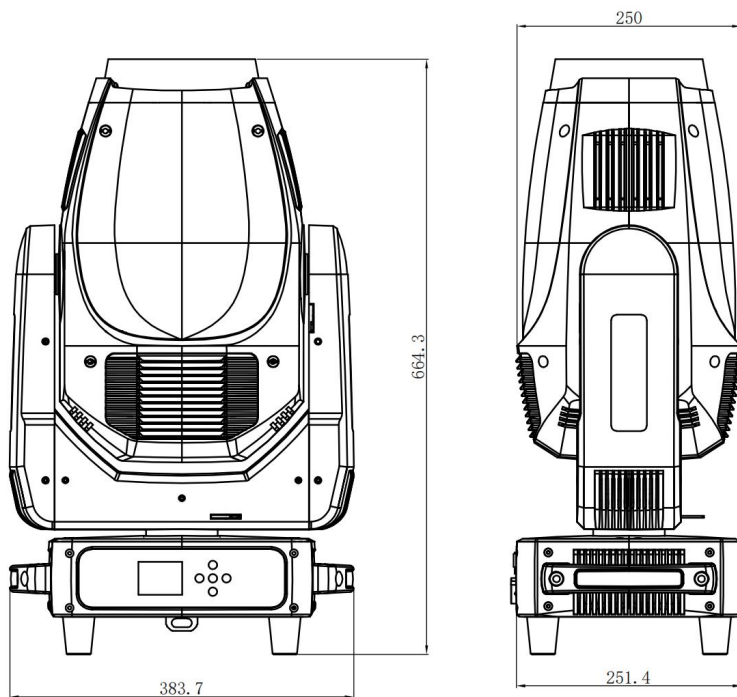
PRISM WHEEL 1



PRISM WHEEL 2



SIZE DRAWING



OPERATION

➤ manual control

This interface controls the current light.

Press OK to enter edit mode. Use the up and down keys to change channel values. Press OK again to save changes and exit edit. Press Exit to exit edit without saving changes.

➤ system calibration

Set a password here to prevent unauthorized access. The default password is "0000". Press OK to verify the password.

Option	Explain
initial position calibration	After entering the sub-interface, you can adjust the reset positions of the Pan, Tilt, and other motors to compensate for hardware installation errors. The adjustment range is 0 to 255, with 127 indicating no adjustment.
course calibration	After entering the sub-interface, you can adjust the motor's travel range for the Xan, Tilt,, etc., with a range of 0 to 255, where 127 indicates no adjustment.
force calibration	After entering the sub-interface, you can adjust the motor strength of the an, Tilt,, etc. The adjustment range is 0~255, where 127 indicates no adjustment.
Speed calibration	After entering the sub-interface, you can adjust the motor speeds of the Pan, Tilt, etc., with an adjustment range of 0 to 255, where 127 indicates no adjustment.
Fan control	Set control fan mode
Other calibrations	Voice sensitivity calibration and password modification
advanced calibration	Reserve feature
Sync updates	Select the above changes to sync with other lights. "Open" means you want to update the content.

➤ lamp bulb

Option	Explain
Turn on the light	Select "On" to turn on the bulb directly the next time the light is turned on
Manual lighting	Select "On" to turn the light on, and "Off" to turn it off.
half-power	half power selection
Clear records	Clear the records of lighting time and lighting frequency, and recalculate
Light-up time	Total lighting time (accurate to minutes)
Number of lights on	Maximum bright bubble time: 9999 hours

➤ system reset

Press the Up or Down key to select the reset mode. Press the Confirm key to execute the reset without waiting.

Option	Explain
head	Reduction of other effects of motors except XY motor
XY	Reset XY motor only
whole	Complete reduction

➤ **system info**

Option	Explain
Reduction error message	If the red ERR indicator light illuminates, it indicates a malfunction in the lamp's operation. Detailed information can be accessed through this sub-interface.
DMX data monitoring	This opens the sub-interface, displaying channel values numerically for viewing
sensor information	Real-time monitoring of various photoelectric switches and Hall sensors on the lamp
Hardware version	Hardware information of the lamp
Software version	Lamp software version
Total usage time	Total usage time (accurate to minutes)

Error message	explain
Reduction failure	The driver board is not responding. The serial communication line between the display board and the driver board is faulty, or the driver board itself is faulty.
Pan reset failed	Pan photoelectric switch or Pan motor is faulty.
Tilt reset failed	Tilt photoelectric switch or Tilt motor is faulty.
Y-axis Hall error	Y-axis Hall effect problem
Failed to reset the color palette	The color wheel Hall sensor or motor is faulty.
Pattern disk reset failed	The patterned disk Hall sensor or the patterned disk motor is faulty.
Focal refocusing failed	The focus-adjusting Hall sensor or motor is faulty.
Motor B board reset failed	Motor driver board malfunction. (Motor B board controls: focus adjustment, color wheel, pattern wheel, seven-color display, atomization, and strobe)

CHANNEL LIST

34 CH	39 CH	FUNCTION	VALUE	EFFECT
1	1	X	000-255	Horizontal 540 degree scan
2	2	X fine	000-255	Horizontal 1.2 degree fine-adjust
3	3	Y	000-255	Vertical 270 degree scan
4	4	Y fine	000-255	Vertical 1.2 degree fine-adjust
4	5	XY speed	000-255	Speed from fast to slow
6	6	Lamp control&reset	000-099 100-101 102-103 130-139 140-149 150-159 200-209 230-239	None Pan tilt move display off Pan tilt move display off forbid Light ON XY motor reset Small motor reset Full motor reset lamp off
7	7	Color C	000-255	Linear dimming
8	8	Color M	000-255	Linear dimming
9	9	Color Y	000-255	Linear dimming
10	10	Color 1	000 - 127 128-129 130 - 134 135 - 138 139 - 143 144 - 147 148 - 152 153 - 157 158 - 161 162 - 166 167 - 171 172 - 176 177-180 181-185 186-189 190-215 216-217 218-243 244-249 250-255	Color linear white Color1 Color2 Color3 Color4 Color5 Color6 Color7 Color8 Color9 Color10 Color11 Color12 Color13 Forwards rainbow effect from fast to slow No rotation Backwards rainbow effect from slow to fast Random colour selection by audio control Auto random colour selection from fast to slow
-	11	Color 1 fine	000-255	Colour wheel - fine positioning

11	12	Color 2	001 - 002	Color mixing 1
			003-004	Color mixing 2
			005-006	Color mixing 3
			007-008	Color mixing 4
			009-010	Color mixing 5
			011-012	Color mixing 6
			013-014	Color mixing 7
			015-016	Color mixing 8
			017-018	Color mixing 9
			019-020	Color mixing 10
			021-022	Color mixing 11
			023-024	Color mixing 12
			025-026	Color mixing 13
			027-028	Color mixing 14
			028-030	Color mixing 15
			031-032	Color mixing 16
			033-034	Color mixing 17
			035-036	Color mixing 18
			037-038	Color mixing 19
			039-040	Color mixing 20
			041-042	Color mixing 21
			043-044	Color mixing 22
			045-046	Color mixing 23
			047-048	Color mixing 24
			049-050	Color mixing 25
			051-052	Color mixing 26
			053-054	Color mixing 27
			055-056	Color mixing 28
			057-058	Color mixing 29
			059-060	Color mixing 30
			061-062	Color mixing 31
			063-064	Color mixing 32
			065-066	Color mixing 33
			067-068	Color mixing 34
			069-070	Color mixing 35
			071-072	Color mixing 36
			073-074	Color mixing 37
			075-076	Color mixing 38
			077-078	Color mixing 39
			079-080	Color mixing 40
			081-082	Color mixing 41
			083-084	Color mixing 42
			085-086	Color mixing 43
			087-088	Color mixing 44
			089-090	Color mixing 45
			091-092	Color mixing 46
			093-094	Color mixing 47
			095-096	Color mixing 48

			097-098 099-100 101-102 103-104 105-106 107-108 109-110 111-112 113-114 115-116 117-118 119-120 121-122 123-124 125-126 127-128 129-130 131-132 133-255	Color mixing 49 Color mixing 50 Color mixing 51 Color mixing 52 Color mixing 53 Color mixing 54 Color mixing 55 Color mixing 56 Color mixing 57 Color mixing 58 Color mixing 59 Color mixing 60 Color mixing 61 Color mixing 62 Color mixing 63 Color mixing 64 Color mixing 65 Color mixing 66 Raw DMX
12	13	Speed of CMY movement	000-255	Speed of CMY movement from max. to min. (0=default)
13	14	CMY&CTO speed	000-255	Fast to slow
14	15	Zoom /foccus frost/ prism speed		Fast to slow
15	16	Effect wheel positioning	001-019 020-127 128-170 171-213 214-255	No animation (0=default) Fixed insertion position Ramping from open to full position (max--->min. speed) Ramping from open to half position (max. --->min. speed) Ramp. from half position to full position (max. --->min. speed)
16	17	Effect wheel rotation	000 001-127 128 129-255	No rotation Forwards rotation from fast to slow No rotation (128=default) Backwards rotation from slow to fast

18	19	Fix gobo wheel	000 - 003 004 - 009 010 - 015 016- 021 022 - 027 028 - 033 034 - 039 040 - 045 046 - 051 052 - 057 058 - 063 064 - 069 070-075 076-081 082-087 088 - 095 096 - 103 104 - 111 112 - 119 120 - 127 128 - 135 136 - 143 144 - 151 152 - 159 160 - 167 168 - 175 176 - 183 184-191 192-199 200 - 201 202 - 222 223 - 255	White Fixed gobo1 Fixed gobo2 Fixed gobo3 Fixed gobo4 Fixed gobo5 Fixed gobo6 Fixed gobo7 Fixed gobo8 Fixed gobo9 Fixed gobo10 Fixed gobo11 Fixed gobo12 Fixed gobo13 Fixed gobo14 Fixed gobo1 shake (from slow to fast) Fixed gobo2 shake (from slow to fast) Fixed gobo3 shake (from slow to fast) Fixed gobo4 shake (from slow to fast) Fixed gobo5 shake (from slow to fast) Fixed gobo6 shake (from slow to fast) Fixed gobo7 shake (from slow to fast) Fixed gobo8 shake (from slow to fast) Fixed gobo9 shake (from slow to fast) Fixed gobo10 shake (from slow to fast) Fixed gobo11 shake (from slow to fast) Fixed gobo12 shake (from slow to fast) Fixed gobo13 shake (from slow to fast) Fixed gobo14 shake (from slow to fast) White light Backward water flow (from fast to slow) Forward water flow (from slow to fast)
19	20	Rotation Glass Gobo	000 001 - 004 005 - 007 008 - 010 011 - 013 014 - 016 017 - 019 020 - 022 023 - 025 026-028 029-031 032 - 034 035 - 037 038 - 040 041 - 043 044 - 046 047 - 049 050 -052 053-055	White light Big white light Gobo1 (angle adjust) Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 Gobo8 Gobo9 Gobo1 (rotating water) Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 Gobo8

			056-059	Gobo9
			060 - 067	Gobo1 shake (from slow to fast) (angle adjust)
			068 - 075	Gobo2 shake (from slow to fast)
			076 - 083	Gobo3 shake (from slow to fast)
			084 - 091	Gobo4 shake (from slow to fast)
			092 - 099	Gobo5 shake (from slow to fast)
			100 - 107	Gobo6 shake (from slow to fast)
			108 - 115	Gobo7 shake (from slow to fast)
			116 - 123	Gobo8 shake (from slow to fast)
			124 - 129	Gobo9 shake (from slow to fast)
			130 - 137	Gobo1 shake (from slow to fast) rotating water)
			138 - 145	Gobo2 shake (from slow to fast)
			146 - 153	Gobo3 shake (from slow to fast)
			154 - 161	Gobo4 shake (from slow to fast)
			161 - 169	Gobo5 shake (from slow to fast)
			170 - 177	Gobo6 shake (from slow to fast)
			178 - 185	Gobo7 shake (from slow to fast)
			186 - 193	Gobo8 shake (from slow to fast)
			194 - 199	Gobo9 shake (from slow to fast)
			200 - 201	Open/hole
			202 - 222	Forwards gobo wheel rotation from fast to slow
			223 - 243	Backwards gobo wheel rotation from slow to fast
			244 - 249	Random gobo selection by audio control
			250 - 255	Auto random gobo selection from fast to slow

20	21	Glass gobo Rot	000 - 000 001 - 127 128 - 129 130 - 255	Stop rotating Forward rotation from slow to fast No rotation (128=default) Reverse rotation from fast to slow
-	22	Glass gobo Rot fine	000 - 255	
21	23	Prism 1	000 - 003 004 - 007 008-011 012-015 016-019 020-023 024-027 028-255	No function Prism1 insert Prism 2 insert Prism 3 insert Prism1 insert Prism 2 insert Prism 3 insert Prism 3 insert
22	24	Prism 1 rotating	000-255 000 - 000 001 - 127 128 - 128 129 - 255	Angle adjust 0°-360°angle adjust Rotating water No function Forward rotation from fast to slow No function Reverse rotation from slow to fast
23	25	Prism 2	000 - 003 004 - 007 008-011 012-015 016-019 020-023 024-027 028-255	No function Prism 4 insert Prism 5 insert Prism 6 insert Prism 4 insert Prism 5 insert Prism 6 insert Prism 6 insert
24	26	Prism 2 Rot	000-255 000 - 000 001 - 127 128 - 128 129 - 255	Angle adjust 0°-360°angle adjust Rotating water No function Forward rotation from fast to slow No function Reverse rotation from slow to fast

25	27	Prism effect	000 - 003	Open
			004 - 005	Mode 1
			006 - 007	Mode 2
			008 - 009	Mode 3
			010 - 011	Mode 4
			012 - 013	Mode 5
			014 - 015	Mode 6
			016 - 017	Mode 7
			018 -019	Mode 8
			020-021	Mode 9
			022-023	Mode10
			024-025	Mode 11
			026-027	Mode12
			028-029	Mode 1
			030-031	Mode 2
			032-033	Mode 3
			034-035	Mode 4
			036-037	Mode 5
			038-039	Mode 6
			040-041	Mode 7
			042-043	Mode 8
			044-045	Mode 9
			046-047	Mode10
			048-049	Mode 11
			050-051	Mode12
			052-053	Mode 13
			054-055	Mode 14
			056-057	Mode 15
			058-059	Mode 16
			060-061	Mode17
			062-063	Mode 18
			064-065	Mode19
			066-067	Mode20
			068-255	No function

26	28	Prism rotating effect	000-255 000 - 000 001 - 127 128 - 128 129 - 255	Angle adjust 0°-360°angle adjust Rotating water No function Forward rotation from fast to slow No function Reverse rotation from slow to fast
27	29	Beam shaper selection	000-003 004-007 008-011 012-015 016-019 020-023 024-027 028-031 032-035 036-255	No function Shaper 1 Shaper 2 Shaper 3 Shaper 4 Shaper 1 Shaper 2 Shaper 3 Shaper 4 No function
28	30	Beam shaper rotation and indexing	000 001-127 128 129-255	No function Forward rotation from fast to slow No function Reverse rotation from slow to fast
29	31	Frost	000 001-050 051-053 054-063 064-073 074-083 084-086 087-136 137-139 140-149	Open Light Frost from 0% to 100% 100% Light Frost Pulse closing from slow to fast Pulse opening from fast to slow Ramping from fast to slow Open Medium Frost from 0% to 100% 100% Medium Frost Pulse closing from slow to fast

			150-159 160-169 170-172 173-222 223-225 226-235 236-245 246-255	Pulse opening from fast to slow Ramping from fast to slow Open Medium Frost from 0% to 100% (Light Frost inserted) 100% Medium Frost (Light Frost inserted) No function No function No function
30	32	ZOOM	000-255	Zoom from max. to min.beam angle (128=default)
-	33	ZOOM fine	000-255	Fine zooming (0=default)
31	34	Focus	000-255	Continuous adjustment from far to near (128=default)
-	35	Focus fine	000-255	Focus Fine
32	36	Hot-Spot control		No function
33	37	Shutter/ Strobe	000-031 032-063 064-095 096-127 128-143 144-159 160-191 192-223 224-255	Shutter closed Shutter open Strobe from slow to fast Shutter open Pulse strobe from slow to fast Pulse strobe from fast to slow Shutter open Random strobe from slow to fast Shutter open
34	38	Dimming	000-255	Dimmer intensity from 0% to 100% (0=default)
-	39	Dimming fine	000-255	Fine dimming (0=default)

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.

Thank you again for your patronage!
We will be offering sincere service as always,
Wish you have a good lighting journey!