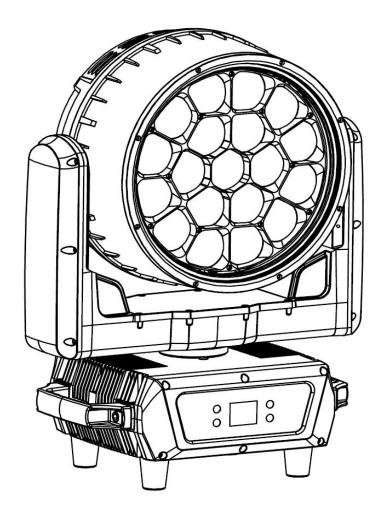
MLight M-WASH 1940 IP



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 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 60degress.
- 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!

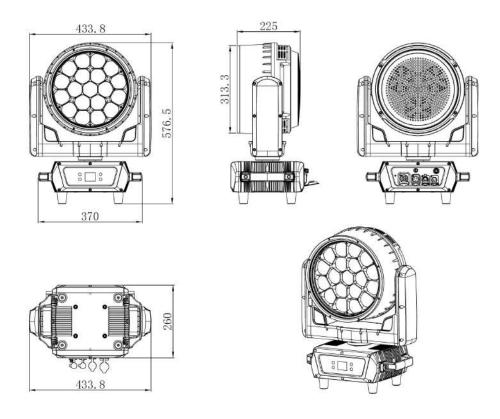
Disconnect from mains before starting maintenance operation!

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.

DRAWING (mm)



TECHNICAL PARAMETERS

Power supply

AC100V-240V/50-60Hz Power consumption: 850W

Optic

Osram 19*40W RGBW 4 in1 High brightness LEDs

Individual LED control Average life: 50,000 hrs

Color temperature: 2500 ~ 10000K PMMA Lens with glass lighting pipe

Effect

Zoom angle: 4-45°;

Wash/Beam/Graphic/Effects function

Front lens can rotated infinity LED halo ring with rainbow effect

With "vortex" and "kaleidoscope" effects

Variable built-in dynamic effects

4 Liner dimming curves2 color mode (RGBW)

Strobe: 1-25 hz, random and pulse flash

Control

Pan/Tilt: 540/216 °

Control mode: DMX512/RDM/Master Slave

DMX channels: 21/35/78/92/97/43

Body

Alumininum die casting with fire-proof housing in IP65

Intelligent cooling system with overheating protection and speed adjustable fans

1.77 inch OLED display avoiding signal bothering with display flip, the password: 1111

Magnetic code for highest precision positioning

Software updating by DMX connector

Seetronic powercon ture1 IP

XLR in & out: 3-pin & optional 5-pin

Optional folding clamp for easy installation

Weight&Size

Net weight: 22kg Gross weight: 26kg

Fixture size: 432*333*485mm Cartbox size: 610*530*450mm

MOUNTING AND INSTALLATION

Cautions:

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

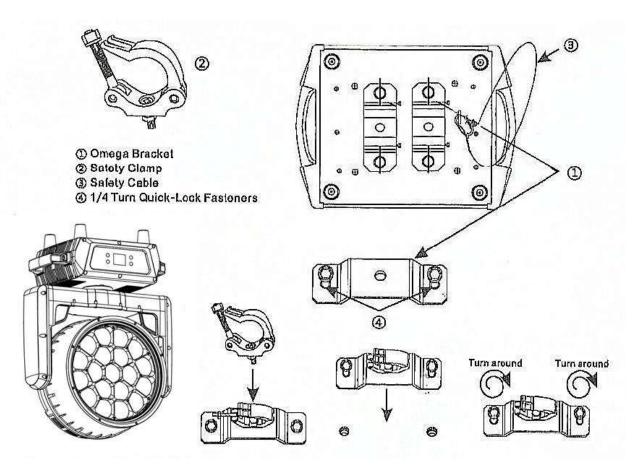
Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

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.

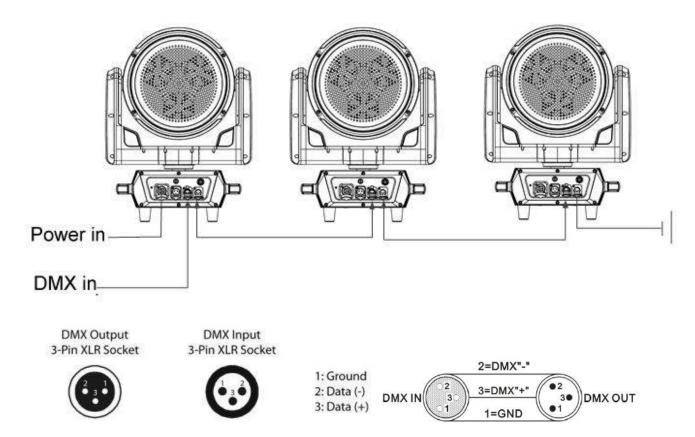
Clamp Mounting: The B-Eye provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket," and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to 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



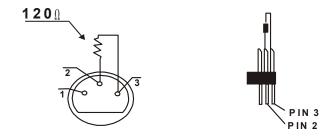
Regardless of the rigging option you choose for your B-Eye, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and 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.



MENU FUNCTION: Press menu for 3seconds to unlock

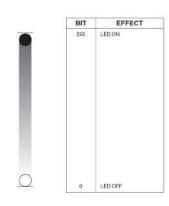
Menu	Sub-Menu	Secondary submenu	Function
Address	001-512		DMX address
		21CH	Same as B-EYE K10 CH
		35CH	Same as B-EYE K10 CH
		78CH	Same as B-EYE K10 CH
	DMX	92CH	Same as B-EYE K10 CH
		97CH	Same as B-EYE K10 CH
Run mode		43CH	Shape + LED Ring
	Auto Test		System detection
	Manual Test		Manual test
	Auto		Auto run
	Channel Test		Manual control each channe
	Pan Reverse	YES/NO	Pan reverse
	Tilt Reverse	YES/NO	Tilt reverse
	Screen Reverse	YES/NO	Screen reverse
	Screen Lock	YES/NO	Screen Lock
	No Signal Hold	YES/NO	No DMX mode
	Pan Angle	540/360/180	Pan angle
	Tilt Angle	250/180/90	Tilt angle
	Arefaction Time	0-255	Arefaction Time
	Language	EN/CH	Language
Setting		Smooth	Smooth dimmer mode
	Dimmer Speed	Fast	Fast dimmer mode
		Linear	Linear dimmer
		SCurve	S curve dimmer
	Dimmer Curve	Square	Square dimmer
		I Square	I Square dimmer
		Pan/Tilt	Pan/Tilt reset
	Reset Functions	Zoom	Zoom reset
		All	All reset
	Factory Reset	YES/NO	Factory mode
	Ver: V1.2		
	Running Mode: DMX		
Sys Info	Dmx Address: 001		
	Temperature: xx		
	Fixture Hours		

CHANNEL MODE

СН	STANDARD- 21	СН	SHAPE-35	СН	EXTENDED- 78	СН	EXTENDED RGBW-92	СН	EXTENDED RGBW-97	СН	SHAPE RING-43
1	Red	1	Red	1	Red	1	Red	1	Red	1	Red
2	Red fine	2	Red fine	2	Red fine	2	Red fine	2	Red fine	2	Red fine
3	Green	3	Green	3	Green	3	Green	3	Green	3	Green
4	Green fine	4	Green fine	4	Green fine	4	Green fine	4	Green fine	4	Green fine
5	Blue	5	Blue	5	Blue	5	Blue	5	Blue	5	Blue
6	Blue fine	6	Blue fine	6	Blue fine	6	Blue fine	6	Blue fine	6	Blue fine
7	White	7	White	7	White	7	White	7	White	7	White
8	White fine	8	White fine	8	White fine	8	White fine	8	White fine	8	White fine
9	Linear CTO	9	Linear CTO	9	Linear CTO	9	Linear CTO	9	Linear CTO	9	Linear CTO
10	Marco color	10	Marco color	10	Marco color	10	Marco color	10	Marco color	10	Marco color
11	Strobe	11	Strobe	11	Strobe	11	Strobe	11	Strobe	11	Strobe
12	Dimmer	12	Dimmer	12	Dimmer	12	Dimmer	12	Dimmer	12	Dimmer
13	Dimmer fine	13	Dimmer fine	13	Dimmer fine	13	Dimmer fine	13	Dimmer fine	13	Dimmer fine
14	Pan	14	Pan	14	Pan	14	Pan	14	Pan	14	Pan
15	Pan fine	15	Pan fine	15	Pan fine	15	Pan fine	15	Pan fine	15	Pan fine
16	Tilt	16	Tilt	16	Tilt	16	Tilt	16	Tilt	16	Tilt
17	Tilt fine	17	Tilt fine	17	Tilt fine	17	Tilt fine	17	Tilt fine	17	Tilt fine
18	Function	18	Function	18	Function	18	Function	18	Function	18	Function
	Reset	19	Reset	19	Reset	19	Reset	19	Reset	19	Reset
20	Zoom	20	Zoom	20	Zoom	20	Zoom	20	Zoom	20	Zoom
_	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation
21		22	Shape selection	22	Red Led 1	22	Shape selection	22	Red Led 1	22	Shape selection
		23	Shape speed	23	Green Led 1	23	Shape speed	23	Green Led 1	23	Shape speed
		24	Shape fade		Blue Led 1	24	Shape fade	24	Blue Led 1	24	Shape fade
		25	Shape R		Red Led	25	Shape R	25	White Led 1	25	Shape R
		26	Shape G		Green Led	26	Shape G	26	Red Led 2	26	Shape G
		27	Shape B	75	Blue Led	27	Shape B	27	Green Led2	27	Shape B
		28	Shape W	76	Red Led19	28	Shape W	28	Blue Led2	28	Shape W
		29	Shape dimmer	77	Green Led19				White Led2	29	Shape dimmer
		30	Background dimmer	78	Blue Led19	***			Red Led	30	Background dimmer
		31	Shape transition	Г		90	Red dimmer 19	***	Green Led	31	Shape transition
		32	Shape offset	İ		91	Green dimmer 19	***	Blue Led	32	Shape offset
		33	Foreground strobe	İ		92	Blue dimmer 19	93	White Led	33	Foreground strobe
		34	Background strobe	İ			,	94	Red Led19	34	Background strobe
		35	Background select	İ				95	Green Led19	35	Background select
	ā.			1				96	Blue Led19	36	Reversed
									White Led19	37	LED ring dimmer
								2003			LED ring strobe
										-	LED ring red
										-	LED ring green
										-	LED ring blue
											LED ring macro
										-	LED ring speed
										40	LLD my speed

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 128 bit - Tilt 128 bit) all the others channels stay at 0 bit.

• RED GREEN BLUE WHITE



• RED FINE GREEN FINE BLUE FINE WHITE FINE



· LINEAR CTO

BIT	EFFECT
255	2500 K
	144
224	3200 K
188	4000 K
100	
144	5000 K
100	100
117	5600 K
	746
99	6000 K
54	7000 K
	(60 m)
10	8000 K
0-9	UNUSED RANGE

Note: If CTO channel is active, the WHITE channel is disabled.

• MACRO COLOUR

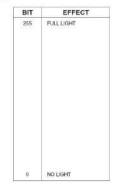
D	LEE	001 0115	BIT VALUE				
BIT	REFERENCE	COLOUR	R	G	В	w	
209-255	-	White	255	235	66	255	
208	15	Dirty White	255	255	122	255	
207	197	Alice Blue	128	255	143	0	
191-206	181	Congo Blue	77	0	255	0	
184-190	174	Dark Steel Blue	181	255	95	0	
180-183	170	Deep lavender	255	168	64	0	
179	169	Lilac Tint	255	199	49	0	
175-178	165	Daylight Blue	82	214	90	0	
174	164	Flame Red	255	46	2	0	
172-173	162	Bastard Amber	255	181	28	0	
168-171	158	Deep Orange	222	84	0	0	
162-167	152	Pale Gold	253	171	26	0	
157-161	147	Apricot	255	143	13	0	
151-156	141	Bright Blue	0	255	87	0	
149-150	139	Primary Green	77	255	0	0	
147-148	137	Special lavender	219	197	79	0	
146	136	Pale Lavender	255	197	61	0	
145	135	Deep Golden Amber Medium Blue	255	58	143	0	
142-144	132			255		0	
138-141 136-137	128 126	Bright Pink Mauve	255	53 41	36 56	0	
134-135	124	Dark Green	84	255	13	0	
131-133	121	Leaf Green	206	255	0	0	
129-130	119	Dark Blue	0	186	255	0	
128	118	Light Blue	74	255	82	0	
127	117	Steel Blue	206	255	56	0	
126	116	Med Blu Green	206	255	56	0	
125	115	Peacock Blue	51	255	51	0	
123-124	113	Magenta	255	20	15	0	
121-122	111	Dark Pink	255	109	33	0	
120	110	Middle Rose	217	130	28	0	
119	109	Light Salmon	255	138	31	0	
118	108	English Rose	255	148	23	0	
117	107	Light Rose	255	141	31	0	
115-116	105	Orange	255	122	0	0	
114	104	Deep Amber	255	166	0	0	
113	103	Straw	230	160	0	69	
112	102	Light Amber	237	163	0	0	
110-111	100	Spring Yellow	245	202	0	0	
100-109	90	Dark yellow green	41	219	0	0	
89-99	79	Just Blue	0	194	130	0	
78-88	68	Sky Blue	0	255	135	0	
68-77	58	Lavender	243	117	133	19	
62-67	52	Light Lavender	243	117	39	19	
49-61	39	Pink Carnation	255	107	0	13	
46-48	36	Medium Pink	255	87	0	10	
45	35	Light Pink	255	112	0	14	
35-44	25 22	Sunrise Red Dark Amber	255	83 65	0	0	
31	21	Gold Amber	255	100	0	0	
30	20	Medium Amber	255	135	0	0	
29	19	Fire	255	56	0	0	
27-28	17	Surprise Peach	198	114	9	0	
23-26	13	Straw Tint	152	115	9	0	
20-22	10	Medium Yellow	156	126	o	0	
19	307	Black	0	0	0	0	
18	6	White 5000 K	255	137	0	19	
17		White 3700 K	255	201	25	25	
16	1/2	White 7000 K	216	237	61	25	
15	35	Magenta	255	0	255	0	
14	12	Yellow	255	255	0	0	
13	÷	Cyan	0	255	255	0	
12	3-	Blue	0	0	255	0	
11	15-	Green	0	255	0	0	
10		Red	255	0	0	0	
0-9		Macro color OFF			-	-	

• STOP STROBE - FOREGROUND STROBE - BACKGROUND STROBE



BIT	EFFECT
252 - 255	OPEN
239 - 251	RANDOM FAST STROBE
226 - 238	RANDOM MEDIUM STROBE
213 - 225	RANDOM SLOW STROBE
208 - 212	OPEN
207	FAST PULSATION (25 flash/sec)
108 104 - 107 103	SLOW PULSATION (0,5 flash/sec) OPEN FAST STROBE (25 flash/sec)
	The content of the co
4	SLOW STROBE (1 flash/sec)
0-3	CLOSED

• DIMMER

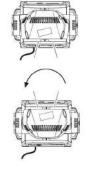


• DIMMER FINE

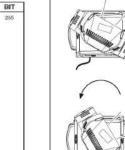


BIT

• PAN

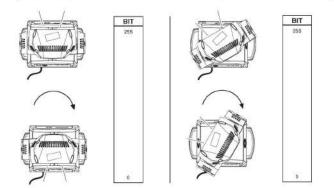






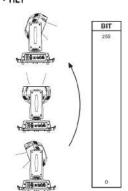
• PAN FINE

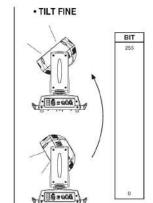
Operation with option InvertPan © Off (Tilt conventionally represented at 35 bit and option Invert Tilt © Off)



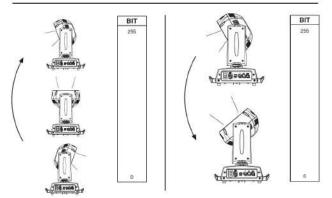
Operation with option InvertPan 3 On (Tilt conventionally represented at 35 bit and option Invert Tilt 0 Off)

• TILT





Operation with option InvertPan \(\bar{0} \) Off
(Tilt conventionally represented at 35 bit and option Invert Tilt \(\bar{0} \) Off)



Operation with option InvertPan 0 On (Tilt conventionally represented at 35 bit and option Invert Tilt © Off)

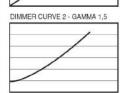
• FUNCTION

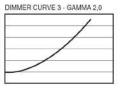
BIT	EFFECT	
103 - 255	Reserved	
98 - 102	Halogen Lamp Simulation, type 5 (2500 W)	Linear CTO @ 0 bit
93 - 97	Halogen Lamp Simulation, type 4 (2000 W)	Linear CTO @ 0 bit
88 - 92	Halogen Lamp Simulation, type 3 (1200 W)	Linear CTO @ 0 bit
83 - 87	Halogen Lamp Simulation, type 2 (1000 W)	Linear CTO @ 0 bit
78 - 82	Halogen Lamp Simulation, type 1 (750W)	Linear CTO @ 0 bit
73 - 77	Halogen Lamp Simulation OFF (Detault)	
68 - 72	RGBW Gamma curve 3 gamma = 2.0	
63 - 67	RGBW Gamma curve 2 - gamma = 1.5	
58-62	RGBW Gamma curve 1 gamma = 1.0	
52 - 57	Dimmer Curve 4	
48 - 52	Dimmer Curve 3	
43 - 47	Dimmer Curve 2	
38-42	Dimmer Curve 1	
24 - 37	Pan Tilt Normal	
12 - 24	Pan Tilt Fast (Default)	
0 - 11	Function off - rearmed	

The functions are actived passing through the "unused range" and staying 5 seconds in necessary level.

Last selected function still active. Enable setting a new function.







DIMMER CURVE 4 - S

• RESET

BIT	EFFECT
255	COMPLETE RESET
	Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels
128 127	COMPLETE RESET PAN / TILT RESET
	Pan / Trift reset is activated passing throug the unused range and staying 5 seconds in Pan / Tilt reset levels
77 76	PAN/TILT RESET ZOOM RESET
	Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels.
26 25	ZOOM RESET
0	UNUSED RANGE

· ZOOM



BIT	EFFECT
255	WIDE BEAM
0	NARROW BEAM

• ZOOM ROTATION



EFFECT
FAST ROTATION
SLOW ROTATION STOP
SLOW ROTATION
FAST ROTATION
LINEAR ROTATION

• ZOOM ROTATION (available on zoom channel from 0 bit to 42 bit)

BIT	MACRO EFFECT
193-255	CCW Rotation, speed from 3 RPH to 10 RPM
191-192	Stop rotation
128-190	CW Rotation, speed from 10 RPM to 3 RPH
127	Indexed zone, Lens angle = 60,00
126	Indexed zone. Lens angle = 59.52
0.00	
3	Indexed zone, Lens angle = 1.42
2	Indexed zone. Lens angle = 0.94
1	Indexed zone, Lens angle = 0.47
0	Indexed zone, Lens angle = 0

• ZOOM ROTATION (available on zoom channel at 255 bit only)

BIT	MACRO EFFECT	
128-255	Lens offset angle: 0.00 degree	
127	Lens offset angle: +4.00 degree	
126	Lens offset angle: +3.94 degree	
125	Lens offset angle: +3.87 degree	
411		
1	Lens offset angle: +0.06 degree	
0	Lens offset angle: 0.00 degree	

• RED LED 1 to... GREEN LED 1 to... BLUE LED 1 to... WHITE LED 1 to...



BIT	EFFECT	
255	LED ON	
0	LED OFF	

SHAPE MODE DESCRIPTION

CONCEPTS: FOREGROUND AND BACKGROUND

The powerful shapes engine allows the user to set all the possible parameters relating to the pixels of the light in an organic way, with a distinction between the pixels affected by a selected "image" and the ones that are not affected by that specific image (more properly called SHAPE from now on).

The macro called "ring 2" will, as an example, involve all the pixels that compose the ring of the unit, while the middle pixel and the 1 smaller ring will not be affected by the shape. The involved pixels will belong to the "Foreground" layer, while all the remaining pixels will belong to the "Background" layer.

Pixels on the foreground take the colour the user will select specifically for them using the dedicated channels, while the remaining pixels will all maintain the colours related to the washlight.

SHAPE PARAMETERS DESCRIPTION

	OHAI ET AKAMETEKO DEGGKII HON
SHAPE SELECTION	Allows to choose the kind of shape to be visualized amongst the 63 available ones. Each shape can be composed of a multitude of frames or be a single, static image.
SHAPE SPEED	Allows to set the speed at which the different frames of the selected shape are played by the unit.
SHAPE FADE	In case of shapes with multiple frames, it allows to select a snap or faded variation from frame to frame of the same shape.
SHAPE RGBW	Allows to select the colour of the pixels composing the selected shape, if all are left at 000 no shape will be visualized (unless the background dimmer and normal RGBW attributes of the unit are given a value, in which case a "negative" of the macro will be shown)
SHAPE DIMMER	Allows to select the overall brightness of the pixels involved in the selected shape.
BACKGROUND DIMMER	Allows to select the overall brightness of the pixels NOT involved by the selected shape. The relevant colour is set using the normal RGBW channels of the washlight.
SHAPE TRANSITION	Internal fade time between a shape and another one set via DMX. Using this "channel" when you change from a shape to a different one as if it was the console fade time will avoid the scrolling effect normally visible when having fades between eg. gobo changes is traditional lights. Fade time on the console should be set to 0.
SHAPE OFFSET	Depending on the selected shape the channel sets the "density" of the involved pixels (few random pixel, many random pixels) or enables an internal algorithm that will distribute the macro between a multitude of lights on a specific DMX line basing on their DMX starting address.
FOREGROUND STROBE	Allows to set a strobe rate for the pixels involved in a macro.
BACKGROUND STROBE	Allows to set a strobe rate for the pixels NOT involved in a macro.
BACKGROUND SELECT	Allows to reduce, if needed, the background to a lower amount of "rings". With selected macros this allows to mirror the image between the two halves of the fixture's head (in this case the RGBW channels of the washlight will set the colour of the mirrored half and the background will remain black.

Note of Foreground Shape Effect:

Shapes will be available while (*Dimmer* CH12),(*Strobe* CH11), (*Shape dimmer* CH29), (*Foreground strobe* CH33), (*Shape color* CH25/26/27/28) turned on then selecting the Shapes on (*Shape Selection* CH22) with different speed on (*Shape Speed* CH23).

Background Effect: Meanwhile the (**BG dimmer** CH30), (**BG strobe** CH34), (**Color RGBW** CH1/3/5/7) turned on. (CH value mentioned above is based on SHAPE 35/SHAPE RING 43)

Vortex effect: With Shape slot 3(Ring 2 on Shape Selection Value 10) and Zoom rotation turned on.

SHAPE SELECTION*SHAPE SPEED*SHAPE OFFSET*SHAPE FADE*BACKGROUND SELECT

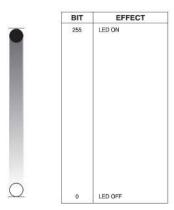
Shape Selection	Shape Slot	Shape Name	Random Colors *1	Shape Speed	Shape Offset	Shape Fade	Background Select(*3)(*4)
0-7		Macro OFF	No	No	No	No	No
8	1	Pixel 1					
9	2	Ring 1				0=000	
10	3	Ring 2		No		0=snap effect	0-7=Wash
11	4	Reserved	No	NO	No	1-255=Fade	8-15=Bgrings
12	5	Pixel 1+ring1				effect	16-255 wash
13	6	Pixel 1+ring2					
14	7	Reserved					
15	8	Single ring (Ramp -/+)	Yes		0-9 →	0=snap effect 1-255=Fade effect	0-7=Wash 8-15=Bgrings 16-255 wash
16	9	Filled ring (Ramp -/+)	Yes	64-158 = max to min speed,Closing effect 159-160 = STOP 161-255 = min to max speed Opening effect	random Distribution		
17	10	Open/Close 1	Yes		fixtures		
18	11	Open/Close 2	Yes				
19	12	Random pixels 1	Yes	0-63 = STOP 64-158 = max to min speed,	0-255→ select random distribution from 2 up to 20 fixtures	0=snap effect	0-7=Wash 8-15=Bgrings 16-255 wash
20	13	Random pixels 2	Yes	Instant-on + fadeout. 159-160 = STOP. 161-255 = min to max speed, FadeIn + FadeOut.	0-255 Select pixel density	1-255=Fade effect	All fixtures: 255=Mirror effect
21	14	Rainbow 1 (Variable speed)	NO	0-63 = Angle 0-360°, static. 64-158 = max to min speed, c.cw rotation 159-160=STOP 161-255 =min to max speed, Cw rotation	0-255 angle offest from 0 to 360	0=snap effect 1-255=Fade effect	0-7=Wash 8-15=Bgrings 16-255 wash
22	15	Rainbow 2 (Fixed speed with variable color offset)	NO	0-63 = STOP 64-158 = c.cw rotation 159-160 = STOP 161-255 = cw rotation The value 64-158 or 161-255 change the rainbow angle offset (the orange starting angle).	NO	0=snap effect 1-255=Fade effect	0-7=Wash 8-15=Bgrings 16-255=wash
23	16	Fan					0-7=Wash
24	17	Bar 1		0-63 = Angle 0-360°, static. 64-158 = max to min speed,	0-255 → angle offset from 0 to 360°	0=snap effect 1-255=Fade effect	8-15=Bgrings 16-255 wash
25	18	Half moon					For all fixtures: Marco 25 26 255=Mirror Effect
26	19	Triangle	N0	c.cw rotation 159-160=STOP			
27	20	Segment 1		161-255 =min to max speed, Cw rotation			with bkgnd color
28	21	Arc 1					Macro 27 28 29 255= Show
29	22	Arc 2					Alternative Color

Shape Selection	Shape Slot	Shape Name	Random Colors *1	Shape Speed	Shape Offset	Shape Fade	Background Select (*3)(*4)	
30	23	Bar 2 (Variable size)	NO		0-255 → select shape width	0 = Snap effect 1-255 = Fade effect		
31	24	Rando explosion	Yes		0-255 → select Random distribution	0=Snap effect 1-255=select		
32	25	Segment 2			0-255 → select shape width	the wake of the faded macro		
33	26	Reserved						
34	27	Reserved			0-255 → select macro offset	0=Snap effect		
35	28	Bumping Selection						
36	29	Ramp by 6						
37	30	Ramp by 4			0-255 → select	0=Snap effect 1-255=select		
38	31	Left/Right scrolling bar			shape width	the wake of the faded		
39	32	Up/Down scrolling bar				macro		
40	33	Bar 3						
41	34	Reserved				0 = Snap effect		
42	35	Vertical arc 2			0-255 → select macro offset	1-255 = Fade		
43	36	Reserved			macro onset	effect		
44	37	Horizontal arc 2						
45	38	Mirrored pixel					0-7 = wash	
46	39	Pixel animation 1					8-15 = Bkgnd rings	
47	40	Pixel animation 2		0-255 → select shape width 1-255=se	0-255 → select shape width 1-255	0.055	0=Snap effect	
48	41	Pixel animation 3	N0			shape width 1-255=select	wash	
49	42	Pixel animation 4		speed			effet with	
50 51	43	Pixel animation 5 Semi arc (Ramp -		64-158 = max to min speed, c.cw rotation.		macro	bkgnd color Note: Mirror	
52	45	/+) Bumping arc section	_	1	159-160 = STOP. 161-255 = min to max speed cc	0-255 → select	0 = Snap	effect unavailable
53	46	Pixel animation 6			rotation.	shape offset	effect 1-255 = Fade effect	for macro 31. Macro 67,68,69:the
54	47	Vertical ramp by 2				0=Snap effect	mirror effect is available	
55	48	Following pixel by2				0-255 → select shape width	1-255=select the wake of the faded macro	only for options 1,3,9
56	49	Syncopation				0 = Snap		
57	50	Bumping 1		0-255 → select effect	0-255 → select effect		lect effect	
58	51	Bumping 2			macro offset	effect		
59 60	52	Bumping 3 Vertical pixel scrolling			0-255 → select macro width	0=Snap effect 1-255=select the wake of the faded		
61	54	Vertical pixel				macro		
62	55	scrolling Random centra				0 = Snap		
63	56	section Random ring 2			0-255 → select random distribution	0-255 → select ef	0-255 → select effect	
64	57	Reserved	Yes					
65	58	Random ring 1+2						
66	59	Random ring 2						
67	60	Single pixel ring 1			0-255→select the			
68	61	Single pixel ring 2			NO.of led:1,2,3,6,9	0=Snap effect		
69	62	Reserved	NO		this NO. depends on the ring size	1-255=select the wake of		
			Reserved		0-255 → select	the faded		
70	63	Spiral			macro width	macro		

SHAPE FADE

	EFFECT	
246-255 245 243 244	Smooth, fading curve with automatic gamma * Smooth, fading curve gamma 2 Smooth, fading curve gamma 1,986 Smooth, fading curve gamma 1,993	
18	Smooth, fading curve gamma 0,513 Smooth, fading curve gamma 0,506	
16 0-15	Smooth, fading curve gamma 0,5 Snap	

SHAPE RGBW SHAPE DIMMER BACKGROUND DIMMER



SHAPE TRANSITION

BIT	EFFECT	
255	4 sec	
216	3 sec	
171	2 sec	
113	1 sec	
73	0,5 sec	
5	100 ms	
0-4	No fade	

• BACKGROUND SELECT

BIT	EFFECT
16-255	No selection
15	Ring 2 + Ring 3
14	Pixel 1 + Ring 2 + Ring 3
13	Pixel 1 + Ring 2
12	Pixel 1 + Ring 3
11	Ring 3
10	Ring 2
9	Pixel 1
8	No selection

LED RING MACRO

ВІТ	EFFECT
0-1	No fuction
2-51	Static color on every 2 dmx ch
52-54	The 1st dynamic effect
55-250	Dynamic effect on every 4 dmx ch
251-255	The 51th dynamic effect

REMARK

The product has perfect performance and intergrity 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.