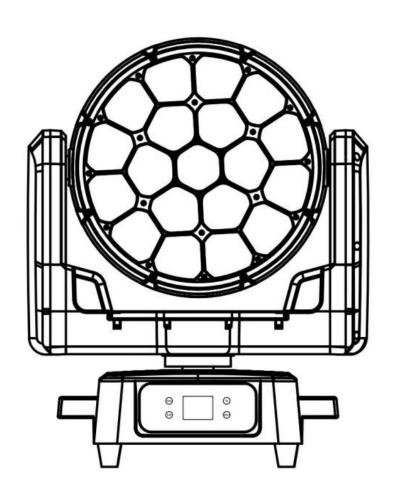


B-EYE 1940 IP User Manual



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

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

19*40W 4in1 RGBW High brightness LEDs +LED RING

Individual LED control Average life: 50,000 hrs

Optical

Zoom angle: 4-45°;

Strobe: 1-25 hz, random and pulse flash

Controls

Control mode: DMX512/RDM/Master Slave DMX channels: 21/35/78/92/97/30/42/ 106 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 ture 1 IP

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

Effect

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 curves

2 color mode (RGBW)

Body

Pan/Tilt: 540/216 °

Alumininum die casting with fire-proof housing in IP65

Intelligent cooling system with overheating protection and speed adjustable fans

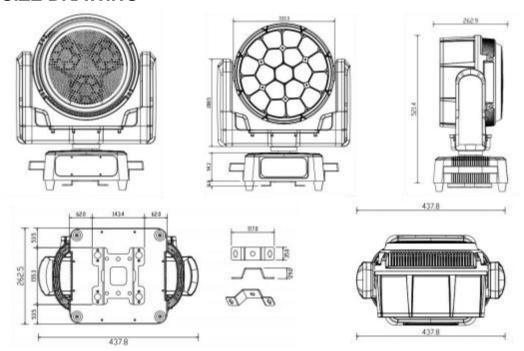
Optional folding clamp for easy installation

Weight&Dimension

Net weight: 19.8kg Gross weight: 23.2kg

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

SIZE DRAWING



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.

2



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

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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 60 degress.



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

l.

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.
- 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.

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.

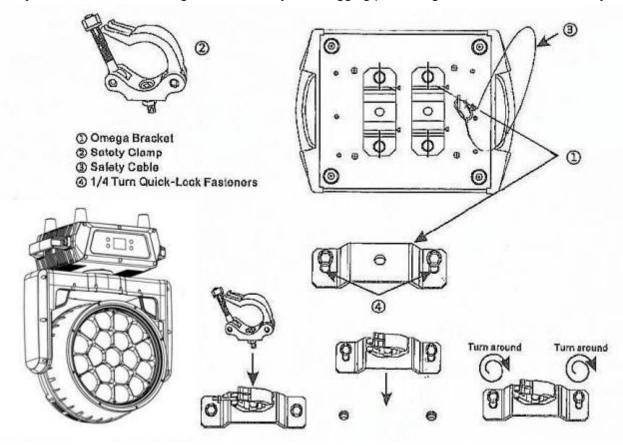
Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

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

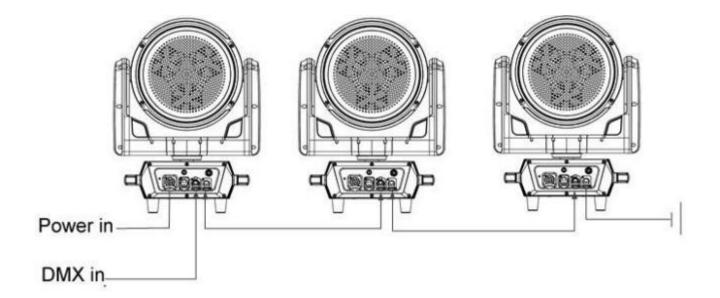


Regardless of the rigging option you choose for your B-Eye, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and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



DMX Output 3-Pin XLR Socket DMX Input 3-Pin XLR Socket



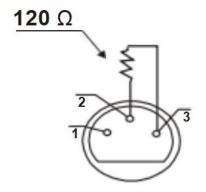


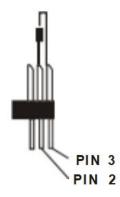
1: Ground 2: Data (-) 3: Data (+)



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	Function	Parameters			
	Operation mode	DMX/Voice Control/Auto 1/Auto 2			
	Channel mode	CH21/CH30/CH35/CH78/CH92/CH97/CH106/CH4 2			
	Horizontal inversion	On/Off			
	Vertical inversion	On/Off			
	Hall error correction	On/Off			
	Optical coupler error correction	On/Off			
	Signal hold	On/Off			
Custom sottings	Screen saver	On/Off			
System settings	Screen flip	On/Off/Auto			
	Synchronous update	On/Off (Please unplug the DMX cable to operate this function)			
	Language	Medium/EN			
	Screen lock	On/Off			
	Dimming curve	Curve 1 / Curve 2 / Curve 3 / Curve 4			
	Dimming speed	Fast/Standard			
	Silent mode	On/Off			
	Restore factory settings				
Manual mode	Manual control channel value	000-255			
System calibration	Enter password	Lighting calibration			
	Effect motor reset	Reset the effect panel except XY			
System reset	Scan motor reset	Reset only XY axis			
	All motors reset	Lighting reset			
	Reset information	Display detailed information			
	DMX data detection	Display detailed DMX detection content			

System information	Sensor information	Display detailed information of optocoupler and Hall
	Hardware version	Display hardware version number
	Software version	Display software version number

CHANNEL MODE

CH30	CH106	Function	Value	Description	
1	1	Pan	0-255	Horizontal control	
2	2	Pan fine	0-255	Horizontal fine-tuning control	
3	3	Tilt	0-255	Vertical control	
4	4	Tilt fine	0-255	Vertical fine-tuning control	
5	5	P/T Speed	0-255	Horizontal/vertical speed from fast to slow	
6	6	Zoom	0-255	Focus	
			0-127	0~60 degrees	
7	7	Zoom Rotation	128-188	Counterclockwise from fast to slow infinitely	
			189-193	Stop	
			194-255	Clockwise from slow to fast infinitely	
8	8	Dimmer	0-255	Linear dimming from dark to bright	
			0-3	Light on	
0		Strobe	4-200	Synchronous strobe speed from slow to fast (1HZ-25HZ)	
9	9	Strope	201-215	Low-speed random strobe	
			216-234	•	
			235-255		
10	10	R	0-255	235-255 High-speed random strobe 0-255 Red from dark to bright linear dimming	
11	11	G	0-255		
12	12	В	0-255		
13	13	W	0-255	High-speed random strobe Red from dark to bright linear dimming Green from dark to bright linear dimming Blue from dark to bright linear dimming White from dark to bright linear dimming Linear color temperature adjustment	
14	14	Linear CTO	0-255		
15	15	Macro color	0-255	Built-in color gradient	
			0-9	None	
			10-14	Static effect 1	
			15-19	Static effect 2	
			20-24	Static effect 3	
40	40	01-1:- 5#1-			
16	16	Static Effects		5 numbers for one effect	
			175-179	Static effect 34	
			180-184	Static effect 35	
			185-255	Static effect 36	
			0-9	None	
			10-14	Effect 1	
			15-19	Effect 2	
			13-19	EIIECL Z	

			20-24	Effect 3
17	17	Dynamic Effects		5 numbers for one effect
		Dynamie Enecte	220-224	Effect 43
			225-229	Effect 44
			230-255	Effect 45
			0-126	Forward from fast to slow
18	18	Dynamic Effects	127-128	Stationary
		Speed	129-255	Reverse from slow to fast
19	19	Background red	0-255	Effect background red from dark to bright with linear dimming
20	20	Background green	0-255	Effect background green from dark to bright with linear dimming
		Packground blue		Effect background blue is linearly
21	21	Background blue	0-255	dimmed from dark to bright
22	22	Background white	0-255	Effect background white is linearly dimmed from dark to bright
			0-26	None
00	22	Doort	27-76	Lamp head reset is valid for 5s
23	23	Reset	77-127	XY reset is valid for 5s
			128-255	All reset is valid for 5s
24	24	LED Ring Dimmer	0-255	Light strip is linearly dimmed from dark to bright
			0-4	Light on
25	25	LED Ring Strobe	5-250	Synchronous strobe from slow to fast
			251-255	Light on
26	26	LED Ring R	0-255	Light strip red is linearly dimmed from dark to bright
27	27	LED Ring G	0-255	Light strip green is linearly dimmed from dark to bright
28	28	LED Ring B	0-255	Light strip blue is linearly dimmed from dark to bright
			0-51	No function
29	29	LED Ring marco	52-255	Light strip effect (one effect for 4 numbers)
30	30	LED Ring speed	0-255	Light strip effect speed from slow to fast
	31	R1 LED dimmer	0-255	R1 LED dimming
	32	G1 LED dimmer	0-255	G1 LED dimming
	33	B1 LED dimmer	0-255	B1 LED dimming
	34	W1 LED dimmer	0-255	W1 LED dimming
,				
/				
	103	R19 LED dimmer	0-255	R19 LED dimmer
	104	G19 LED dimmer	0-255	G19 LED dimmer
	105	B19 LED dimmer	0-255	B19 LED dimmer
	106	W19 LED dimmer	0-255	W19 LED dimmer

Function	CH21	CH35	CH78	CH92	СН97	CH42	Function
Red	1	1	1	1	1	1	Red
Red fine	2	2	2	2	2	2	Red fine
Green	3	3	3	3	3	3	Green
Green fine	4			Green fine			
Blue	5	5	5	5	5	5	Blue
Blue fine	6	6	6	6	6	6	Blue fine
White	7	7	7	7	7	7	White
White fine	8	8	8	8	8	8	White fine
Linear CTO	9	9	9	9	9	9	Linear CTO
Macro color	10	10	10	10	10	10	Macro color
Strobe	11	11	11	11	11	11	Strobe
Dimmer	12	12	12	12	12	12	Dimmer
Dimmer fine	13	13	13	13	13	13	Dimmer fine
Pan	14	14	14	14	14	14	Pan
Pan fine	15	15	15	15	15	15	Pan fine
Tilt	16	16	16	16	16	16	Tilt
Tilt fine	17	17	17	17	17	17	Tilt fine
Function	18	18	18	18	18	18	Function
Reset	19	19	19	19	19	19	Reset
Zoom	20	20	20	20	20	20	Zoom
Zoom Rotation	21	21	21	21	21	21	Zoom Rotation
Shape selection		22		22		22	Shape selection
Shape speed		23		23		23	Shape speed
Shape fade		24		24		24	Shape fade
Shape R		25		25		25	Shape R
Shape G		26		26		26	Shape G
Shape B		27		27		27	Shape B
Shape W		28	/	28	/	28	Shape W
Shape dimmer		29		29		29	Shape dimmer
Background dimmer		30		30		30	Background dimmer
Shape transition		31	-	31		31	Shape transition
Shape offset		32	_	32		32	Shape offset
Foreground strobe	/	33	-	33		33	Foreground strobe
Background strobe		34	-	34		34	Background strobe
Background selection		35		35		35	Background selection
R1 LED dimmer			22	36	22	36	LED Ring Dimmer
G1 LED dimmer			23	37	23	37	LED Ring Strobe
B1 LED dimmer			24	38	24	38	LED Ring R
W1 LED dimmer					25	39	LED Ring G
R2 LED dimmer		,	25	39	26	40	LED Ring B
		_ ′				41	LED Ring marco
R19 LED dimmer			76	91	94	42	LED Ring speed
G19 LED dimmer			77	90	95		
B19 LED dimmer			78	92	96		

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

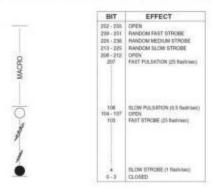
BIT	EFFECT
255	2500 K
_	2007
224	3206 K
	167
188	4000 K
-	
144	5000 K
-11	177
117	5600 K
-	144
99	6006 K
100	- 17
54	TODG K
-	381
10	BODE K
0-0	UNUSED RANGE

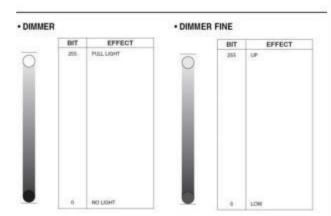
Note: If CTO channel is active, the WHITE channel is disabled.

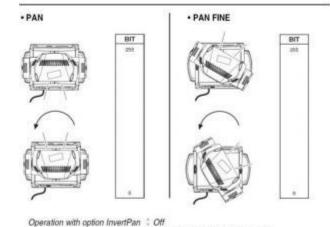
· MACRO COLOUR

BIT	LEE	COLOUR		IT V	-	_
200000000	REFERENCE	The same of the sa	R	G	В	W
209-255		White	255	235	66	258
208	3	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	138	Pale Lavender	255	197	61	0
145	135	Deep Golden Amber	255	58	0	D
142-144	132	Medium Blue	0	255	143	0
138-141	128	Bright Pink	255	53	36	0
136-137	126	Mauve	227	41	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
	(5000)	STATE OF THE STATE OF		2.5	100	100
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	265	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	66
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
	2073	Charles Const.	3712	152	353	100.00
45	35	Light Pink	255	112	0	14
35-44	25	Sunrise Red	255	83	2	0
32-34	22	Dark Amber	255	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	0	0
19	+	Black	0	0	0	0
18		White 5000 K	255	137	0	19
17	-	White 3700 K	255	201	25	25
16	-	White 7000 K	216	237	61	25
15		Magenta	255	0	255	0
14	2	Yellow	255	255	0	0
13		Cyan	0	255	255	0
12	2	Blue	0	0	255	0
	1 1	2000	1034	900	-	0
10	- S	Green	0	255	0	0
	1.0	Red	255	0	0	0

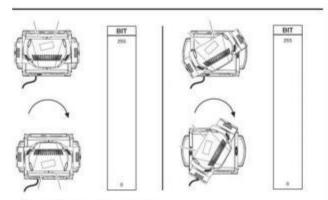
*STOP STROBE - FOREGROUND STROBE - BACKGROUND STROBE





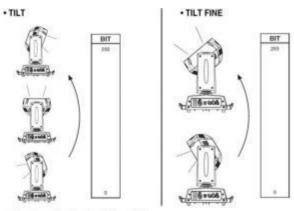


(Tilt conventionally represented at 35 bit and option Invert Tilt : Off)

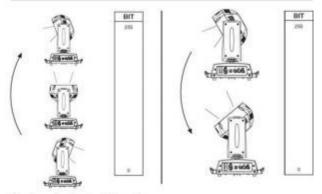


Operation with option InvertPan : On (Tilt conventionally represented at 35 bit and option Invert Tilt . Off)

Mitek



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



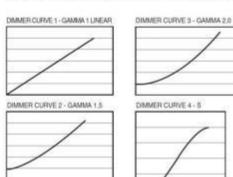
Operation with option InvertPan : On (Tilt conventionally represented at 35 bit and option Invert Tilt 3 Off)

• FUNCTION

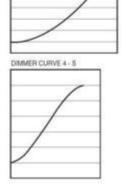
BIT	EFFECT	
103 - 358	Reserved	
96-102	Halogen Lamp Simulation, type 5 (2500 W)	Linear CTO @ 0 bit
35 - 97	Halogen Lamp Simulation, type 4 (2000 W)	Linear CTO @ 6 to
88 - 92	Halogen Lamp Simulation, type 3 (1200 W)	Linear CTO @ 6 bit
83 - 67	Halogen Lamp Simulation, type 2 (1000 W)	Linear CTO 40 6 to
78-82	Helogen Lamp Simulation, type 1 (750W)	Linear CTO @ 0 tol
73-77	Halogen Lamp Simulation OFF (Default)	
88-72	RGBW Gamma curve 3 - gamma = 2.0	
63-67	RGBW Gamma oave 2 - gamma = 1.5	
58 - 62	RSBW Gamma ourve 1 - gamma = 1.0	
82 - 67	Dimmor Curve 4	
48 - 52	Dimmer Curve 3	
43-47	Dimmer Curve 2	
38 - 42	Diremer Curve 1	
24 - 27	Pan Tit 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.



13



RESET

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

• ZOOM



BIT	EFFECT
264	WIDE BEAM
8	NAMES WILLIAM

ZOOM ROTATION



BIT	EFFECT
250	FAST HOTWION
193 191 - 192 190	SLOW ROTATION STOP SLOW ROTATION
128 127	PAST PROTATION
	LINEAR ROTATION
0	

14

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

BIT	MACRO EFFECT
199-255	CCW Rotation, speed from 3 FPH to 10 RPM
191-192	Stop rotation
129-190	CW Rotation, speed from 10 RPM to 3 RPH
127	Indexed zone. Lens angle v 60.00
126	Indexed zone, Lons angle = 56.52
3	Indexed zone, Lens angle = 1.42
2	Indexed zone. Lens angle = 0.94
1	Indexed zone, Less angle = 0.47
.0	Indiexed 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	
940	Lans offsat angle: +0.56 dogree	
1		
0	Lens offset angle: 0.00 degree	

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



BIT	EFFEC
255	LED ON
	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

	SHAPE PARAMETERS DESCRIPTION
SHAPE	Allows to choose the kind of shape to be visualized amongst the 63 available
SELECTION	ones. Each shape can be composed of a multitude of frames or be a single,
OLIA DE ODEED	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 noshape 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	Allows to select the overall brightness of the pixels involved in the selected
DIMMER	shape.
BACKGROUND	Allows to select the overall brightness of the pixels NOT involved by the
DIMMER	selected shape.
SHAPE	The relevant colour is set using the normal RGBW channels of the washlight. Internal fade time between a shape and another one set via DMX. Using this
TRANSITION	"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
HAPE OFFSET	traditional lights. Fade time on the console should be set to 0. Depending on the selected shape the channel sets the "density" of the involved
TIAL E OLI GET	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	Allows to reduce, if needed, the background to a lower amount of "rings". With
SELECT	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	Sha pe Slo t	Shape Name Macro	Rando m Colors *1	Shape Speed No	Shape Offset	Shape Fade No	Back grou nd Selec t(*3)(* 4)
0-7		OFF	NO	NO	NO	NO	NO
8	1	Pixel 1					
9	2	Ring 1				0=snap	0-7=Wa
10 11	3 4	Ring 2 Reserved	No	No	No	effect	u-7=vva sh
12	5	Pixel				1-255=Fa	8-15
		1+ring1				de	=Bgr
13	6	Pixel 1+ring2				effect	ings 16-2
14	7	Reserved					55 wash
15	8	Single ring (Ramp -/+)	Yes	0-63 = Radius size, static 64-158 = max to	0-9 → continuo us 10-255→	0=snap effect	0-7=Wa sh
16	9	Filled ring (Ramp -/+)	Yes	min speed,Closing effect 159-160 = STOP 161-255 = min to max	random Distributi	1-255=Fa de effect	8-15 =Bgr ings 16-2 55
17	10	Open/Clos e 1	Yes	speed, Opening effect	fixtures		wash
18	11	Open/Clos e 2	Yes				
19	12	Random pixel s 1	Yes	0-63 = STOP 64-158 = max to min speed, Instant-on + fadeout.	0-255→ select random distributi on from 2 up to 20 fixtures	0=snap effect 1-255=Fa de effect	0-7=Wa sh 8-15 =Bgr ings 16-2



20	13	Random pixel s 2	Yes	159-160 = STOP. 161-255 = min to max speed, FadeIn + FadeOut.	0-255 Select pixel density		55 wash All fixtures : 255=Mirr or effect
21	14	Rainbow 1 (Variable speed)	N0	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=Fa de effect	0-7=Wa sh 8-15 =Bgr ings 16-2 55 wash
22	15	Rainbo w 2 (Fixed speed with variable color offset)	N0	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).	N0	0=snap effect 1-255=Fa de effect	0-7=Wa sh 8-15 =Bgr ings 16-2 55=w ash
23	16	Fan					0-7=Wa
24	17	Bar 1					sh
25	18	Half moon	N0	0-63 = Angle 0-360°, static. 64-158 = max to	0-255 → angle	0=snap effect	8-15 =Bgr ings
26	19	Triangle		min speed,	offset	1-255=Fa	16-2
27	20	Segment 1		c.cw rotation 159-160=STOP	from 0 to 360°	de effect	55 wash
28	21	Arc 1		161-255 =min to max speed,			For all
29	22	Arc 2		Cw rotation			fixtures: Marco 25 26 255=Mirr or Effect with bkgnd color
							Macro 27 28 29 255= Show Alternativ e Color

Shap e Selecti on	Sha pe Slo t	Shape Name	Rando m Colors *1	Shape Speed	Shape Offset	Shape Fade	Backg round Sele ct (*3)(*4)
30	23	Bar 2 (Variable size)	N0		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=sel ect	
32	25	Segment 2			0-255 → select shape width	the wake of the faded macro	
33	26	Reserved					
34	27	Reserved			0-255 → select	0=Snap	
35	28	Bumping Selection			macro offset	effect	
36	29	Ramp by 6					
37	30	Ramp by 4			0-255 →	0=Snap effect	0-7 =
38	31	Left/Ri ght scrollin g bar		0-63 = STOP, indexed	select shape width	1-255=sel ect the wake of	wash 8-15 = Bkgnd rin gs
39	32	Up/Do wn scrollin g bar		speed 64-158 = max to min speed,		the faded macro	selec tion 16-2 54 =
40	33	Bar 3	N0	c.cw rotation. 159-160 =			was h
41	34	Reserved		STOP.		0 = Snap	255 =
42	35	Vertical arc 2		161-255 = min to max	select	effect 1-255 =	Mirror effet with
43	36	Reserved		speed cc rotation.	macro offset	Fade effect	bkgn
44	37	Horizontal arc 2		Totation.	Oliset	311300	d color
45	38	Mirrored pixel					Note: Mirror
46	39	Pixel animation 1			0-255 →	0=Snap effect	effe ct
47	40	Pixel animation 2			select shape	1-255=sel ect	unav ailabl
48	41	Pixel animation 3			width	the wake of	e for
49	42	Pixel animation 4				the faded	macro 31. Mac
50	43	Pixel animation 5				macro	ro 67,68,
51	44	Semi arc (Ramp - /+)					69:the mirror

52	45	Bumpin g arc sectio n		0-255 → select shape	0 = Snap effect 1-255 = Fade	effect is availa ble
53	46	Pixel animation 6		offset	effect	only for option
54	47	Vertical ramp by 2		0-255 → select	0=Snap effect	s 1,3,9
55	48	Following pixel by2		shape width	1-255=sel ect the wake of the faded macro	
56	49	Syncopatio n		0-255 →	0 = Snap effect	
57	50	Bumping 1		select macro	1-255 = Fade	
58	51	Bumping 2		offset	effect	
59	52	Bumping 3				
60	53	Vertical pixel scrolli ng		0-255 → select macro width	0=Snap effect 1-255=sel ect the wake of the faded macro	
61	54	Vertical pixel scrolli ng		0-255 →	0 = Snap effect	
62	55	Random centra section	V	select random distribution	1-255 = Fade effect	
63	56	Random ring 2	Yes			
64	57	Reserved				
65	58	Random ring 1+2				
66	59	Random ring 2				
67	60	Single pixel ring 1	NO	0-255→select the	0=Snap effect	
68	61	Single pixel ring 2		NO.of led:1,2,3,6,9	1-255=s elect	
69	62	Reserved		this NO. depends on the ring size	the wake of the faded	
70	63	Spiral		0-255 → select macro width	macro	

SHAPE FADE

BIT	EFFECT	
246-256 245 243 244	Smooth, teding curve with automatic generia * Smooth, bading curve garena 2 Smooth, bading curve garena 1,1895 Smooth, bading curve garena 1,1895	
18 17 16	Smooth, folding ourve gamma 0.513 Smooth, folding ourve gamma 0.506 Smooth, folding ourve gamma 0.506	

SHAPE RGBW SHAPE DIMMER BACKGROUND DIMMER



LED RING MACRO

віт	EFFECT
0-1	No fuction
2-51	Static color on every
52-54	2 dmx ch The 1st
55-25 0	dynamic effect
251-2 55	Dynamic effect on every 4 dmx ch
33	The 51th dynamic effect

SHAPE TRANSITION

BIT	EFFECT
255	4 sec
216	3 sec
171	2 sec
113	1 sec
73	0.5 sec
	100 ms
0-4	No tade

BACKGROUND SELECT

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

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.