

EVENT LIGHTING

MULTIHEAD BEAM

M6B20W & M6B10RGBW

USER MANUAL



For safety, please read this user manual carefully before initial use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting

for any clarification or information regarding this item.

www.event-lighting.com.au

V1.1

Safety Instructions

WARNING

- Do not open this device, there is no user-serviceable parts inside. Risk of electric shock.
- Do not look at the light source when the device is on.
- **CAUTION:** This unit's housing may be hot during and after operation.
- Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Use a safety chain when mounting this device overhead.
- Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- **ONLY** connect this device to a grounded and protected circuit.
- **ONLY** use the hanging bracket to carry this device.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.

Power Input & Power Linking

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.

Link up to the maximum 8A. DO NOT exceed this.

Fuse Replacement

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

Procedure:

Step 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anticlockwise).

Step 2: Remove the old fuse from the fuse holder.

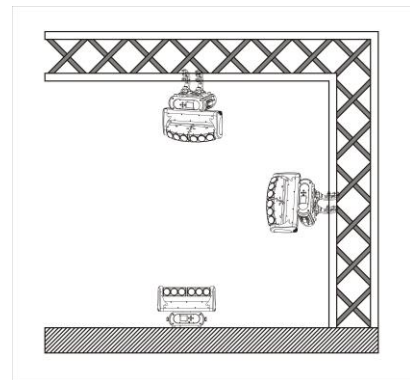
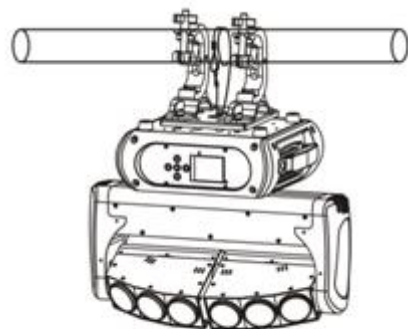
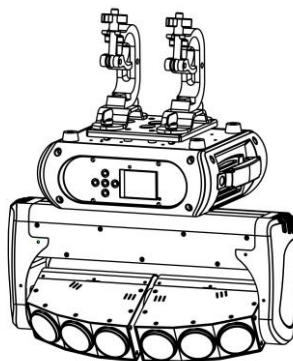
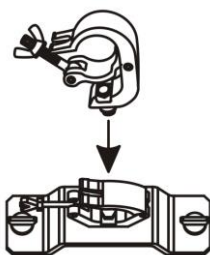
Step 3: Install the new fuse in the fuse holder.

Step 4: Replace the fuse holder in the housing and fix it.

Product Installation

This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

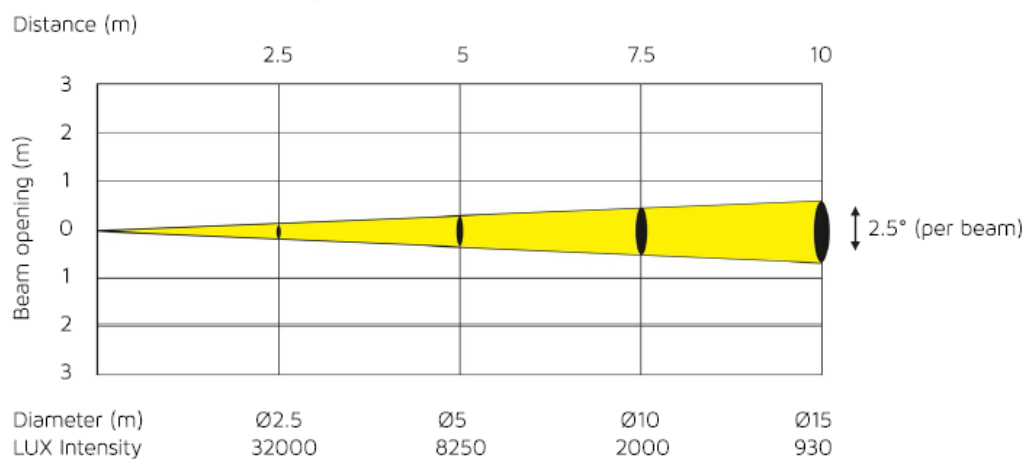
Use a safety chain when mounting this device overhead.



Product Appearance, LUX Chart, Dimensions

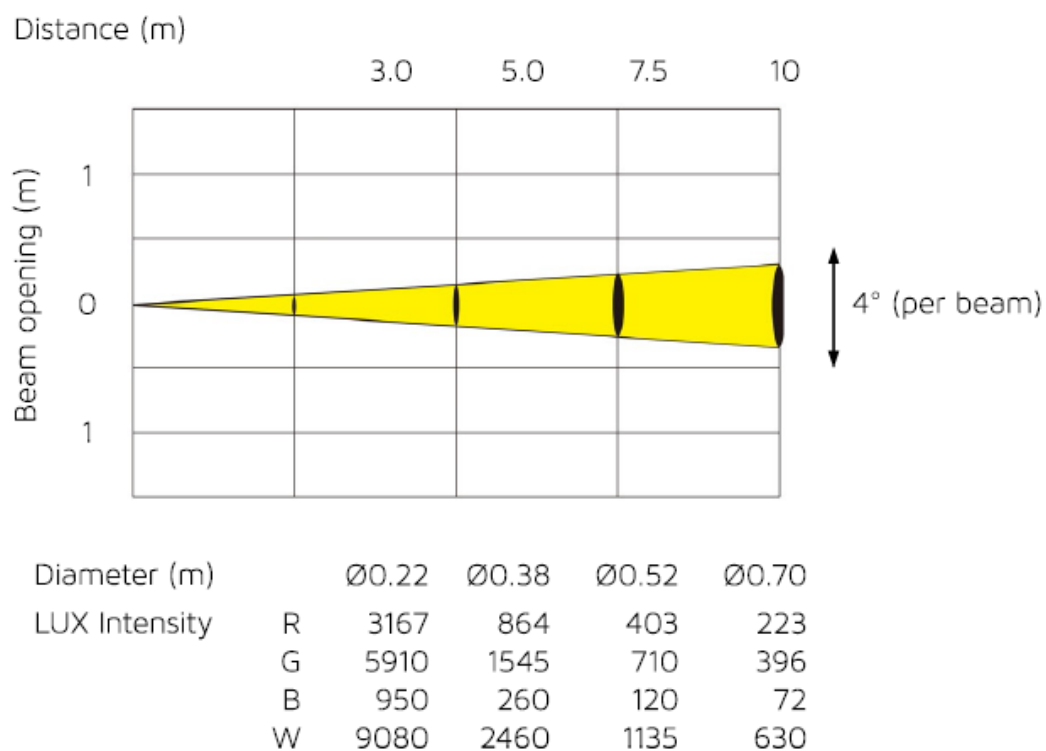
M6B20W

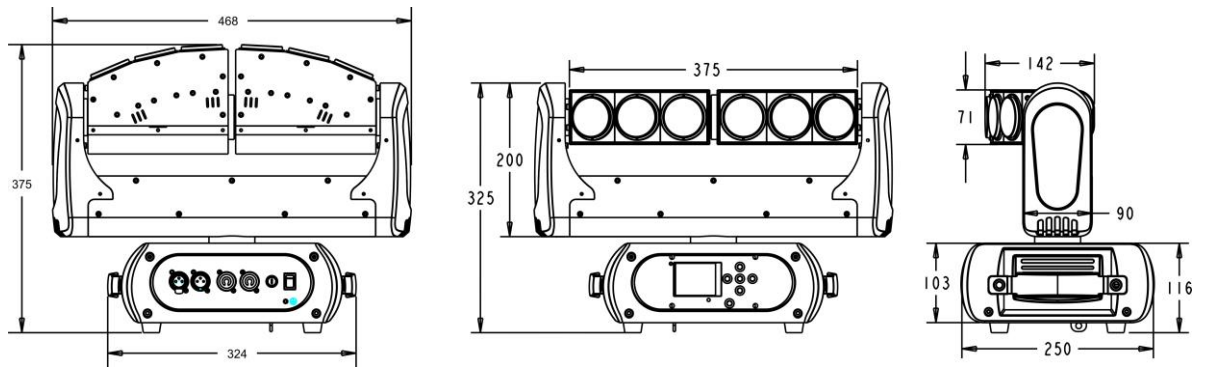
Photometric Data (per beam)



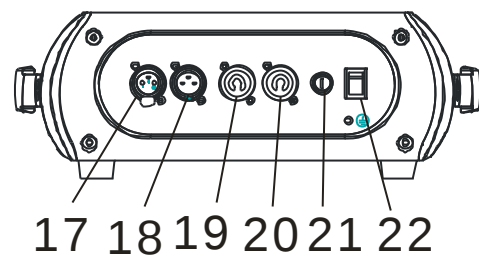
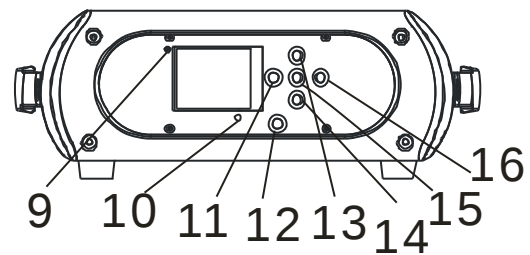
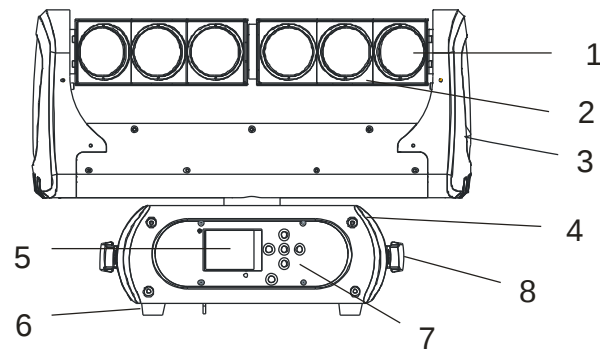
M6B10RGBW

Photometric Data (per beam)





1. Project lens
2. Head
3. Arm
4. Base
5. Display
6. Foot stand
7. Operation button
8. Handle
9. Wireless indicator
10. Mic
11. Left button
12. Battery indicator
13. Up button
14. Down button
15. Enter button
16. Right button
17. 3-pin DMX in
18. 3-pin DMX out
19. Powercon in
20. Powercon out
21. Fuse
22. Power switch



Menu operation

Description of icons in the menu

CONNECT	LIGHT	INFOMATION	SET	PROGRAM
				

Menu

Default setting shadowed. Mark with ① can be basic reloaded, ② be program reloaded, ③ can be private reloaded.

CONNECT	DMX Address①	XXX		DMX address setting
	Wireless①			Wireless Enabled
LIGHT	Max Temperature①	80~139°C, 80°C (176~282°F, 176°F)		Lamp will switch off when temperature continuously over max temperature for 5 minutes
	Lamp Adjust①			Adjust value of each channels
INFORMATION	Time Info.	Current XXXX(Hours) Fixture Life XXXX(Hours)		Fixture boot time Fixture total run time
	Temperature	Near Lamp Temp (depends on fixture)		Temperature Sensors
	Fans Speed	Near Lamp Fan (depends on fixture)		Fan speed Sensors
	Channel Value			Display value of channel
	Error Message			Error channels
	Fixture Model	M1S150W		Display brand and model
	Software Ver	1U01 V1.0.00		Version of each IC
SET	Reset	All Pan&Tilt Colors Gobos Others		Reset all Reset Pan&Tilt Reset Colors Reset Gobos Reset Others
	Movement	Pan Reverse① Tilt Reverse① Pan Degree① Encoders① Pan/Tilt Mode①	ON/OFF ON/OFF 630°/540° ON/OFF Stand/Smooth	Pan Reverse Tilt Reverse Choose Pan Degree Encoder wheel on/off Choose pan/tilt mode
	UI Set	Mic Sens. ③ No Signal① Temperature. C/F① Fans Mode① Hibernation① Backlight① Flip Display①	0~99%, 60% Close/Hold/Auto/Music Fahrenheit/Celsius Auto / High Speed OFF, 01M~99M, 15M 02~60m 02m ON/OFF	Sensitivity of Mic Mode when no signal Temperature at °C/°F Fans mode Sleeping mode Show backlight time Display 180°reverse

PROGRAM		Display Bright ^③ Brand Show ^① Key Lock ^① Language ^①	00~31 10 ON/OFF ON/OFF En/简/繁/Fr/Sp	Display Brightness Show brand or not Key lock on/off Language Select
	Users	User Mode ^①	Standard Extended Basic-8bit Basic-16bit User	Standard mode Extended mode Basic mode-8bit Basic mode-16bit User program mode
		Edit User ^③	Max Channel = XX PAN = CH01 :	Edit users mode
	Calibration ^③	-Password- Color :	=XXX =XXX :	Password: 050 Calibrate channel value
	Fixture ID ^③	Name -Password- PID Code		Name Password: 050 Set PID of RDM
	Wireless Set ^①	DMX On Cable Reset Connect	ON/OFF ON/OFF	DMX Send Out Reset Connect
	Reload Default	Basic Reload(^①) Program Reload(^②) ---Password--- Private Reload(^③) All Reload	ON/OFF ON/OFF XXX ON/OFF ON/OFF	Basic Reload Program Reload Password: 050 Private Reload All Reload
	Play ^①	DMX Receive Slave Receive Sequence Music	Slave Receive 1,2,3 Master / Alone Master / Alone	DMX Receive Choose slave position Run Sequence Music mode
	Select Chase ^②	Chase Part 1 Chase Part 2 Chase Part 3	Chase 1 ~ 8 Chase 1 Chase 1 ~ 8 Chase 2 Chase 1 ~ 8 Chase 3	Select and run auto program
	Edit Chase ^②	Chase 1 : : Chase 8	Chase Test Step 01 : Step 64	Test Beginning scene : Ending scene
	Edit Scenes ^②	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,..... Fade Time-- Secne Time-- DMX Input	Input manual scene Modify manually fading time Modify manually scene time Input scene from exterior controller
	Scenes Record	ScXX=>ScXX		Auto Input scenes

DMX Chart for M6B20W

Channel				name	function	Min DMX	Max DMX
St	Ex	Ba1	Ba2				
1	1	1	1	Pan	Pan Coarse	0	255
	2		2	Pan fine	Pan Fine	0	255
2	3	2	3	Tilt	Tilt Coarse	0	255
	4		4	Tilt fine	Tilt Fine	0	255
3	5	3	5	Tilt	Tilt Coarse	0	255
	6		6	Tilt fine	Tilt Fine	0	255
4	7	4	7	Movement Speed	fastest to Slowest	0	255
5	8	5	8	Movement Function	Normal	0	15
					Movement With Blackout	16	31
					All Tilt Movement	32	47
					TBD	48	255
6	9			Shutter Function	Normal Shutter Functions	0	15
					Pulse-effect Forward	16	31
					Pulse-effect Reverse	32	47
					Random Strobe	48	63
					Effect	64	95
					TBD	96	255
7	10			Shutter	Normal Shutter Functions		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Forward		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Reverse		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Random Strobe		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Effect		
					Close	0	31
					Effect Speed (slow to fast)	32	223
					Open	224	255

		6	9	Shutter	Shutter closed	0	31
					Effect 1 slow to fast	32	47
					Effect 2 slow to fast	48	63
					Strobe effect slow to fast	64	95
					Effect 3 slow to fast	96	111
					Effect 4 slow to fast	112	127
					Pulse-effect in sequences	128	159
					Effect 5 slow to fast	160	175
					Effect 6 slow to fast	176	191
					Random strobe effect slow to fast	192	223
					No function (shutter open)	224	255
8	11	7	10	Dimmer	Dimmer(Close to Open)	0	255
9	12	8	11	White 1	White 0->100%	0	255
10	13	9	12	White 2	White 0->100%	0	255
11	14	10	13	White 3	White 0->100%	0	255
12	15	11	14	White 4	White 0->100%	0	255
13	16	12	15	White 5	White 0->100%	0	255
14	17	13	16	White 6	White 0->100%	0	255
15	18	14	17	Control	Normal	0	7
					Reset All	8	15
					Pan&Tilt Reset	16	23
					TBD	24	31
					TBD	32	39
					TBD	40	47
					TBD	48	55
					Display Off	56	63
					Display On	64	71
					TBD	72	79
					TBD	80	87
					Hibernation	88	95
					TBD	96	255

DMX Chart for M6B10RGBW

Channel				name	function	Min DMX	Max DMX
St	Ex	Ba1	Ba2				
1	1	1	1	Pan	Pan Coarse	0	255
	2		2	Pan fine	Pan Fine	0	255
2	3	2	3	Tilt	Tilt Coarse	0	255
	4		4	Tilt fine	Tilt Fine	0	255
3	5	3	5	Tilt	Tilt Coarse	0	255
	6		6	Tilt fine	Tilt Fine	0	255
4	7	4	7	Movement Speed	fastest to Slowest	0	255
5	8	5	8	Movement Function	Normal	0	15
					Movement With Blackout	16	31
					All Tilt Movement	32	47
					TBD	48	255
6	9			Shutter Function	Normal Shutter Functions	0	15
					Pulse-effect Forward	16	31
					Pulse-effect Reverse	32	47
					Random Strobe	48	63
					Effect	64	95
					TBD	96	255
7	10			Shutter	Normal Shutter Functions		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Forward		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Reverse		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Random Strobe		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Effect		
					Close	0	31
					Effect Speed (slow to fast)	32	223
					Open	224	255

					Shutter closed	0	31
					Effect 1 slow to fast	32	47
					Effect 2 slow to fast	48	63
					Strobe effect slow to fast	64	95
					Effect 3 slow to fast	96	111
					Effect 4 slow to fast	112	127
					Pulse-effect in sequences	128	159
					Effect 5 slow to fast	160	175
					Effect 6 slow to fast	176	191
					Random strobe effect slow to fast	192	223
					No function (shutter open)	224	255
8	11	7	10	Dimmer	Dimmer(Close to Open)	0	255
					No Function	0	15
					CTC Function	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Color Bounce	80	111
					TBD	128	255
					CTC Function		
					Colour Temperature Correction 2000K->2700K	0	223
					White 3200K	224	231
					White 4200K	232	239
					White 5600K	240	247
					White 8000K	248	255
					Forward Spin		
					Rainbow Effect (Slow->Fast)	0	255
					Reverse Spin		
					Rainbow Effect (Slow->Fast)	0	255
					Continuous & Color Bounce		
					Black	0	3
					Red=full, Green->up,Blue=0,White=0	4	33
					Red->down, Green=full,Blue=0,White=0	34	63
					Red=0 Green=255 Blue->up White=0	64	93
					Red=0 Green->down Blue=255 White=0	94	123
					Red=0 Green=0 Blue=255 White->up	124	153
					Red=0 Green=0 Blue->down White=255	154	183
					Red->up Green=0 Blue=0 White=255	184	213
					Red=255 Green=0 Blue=0 White->down	214	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255

11	14	10	13	Virtual Color2	Color Bounce		
					Black	0	3
					Red=full, Green->up,Blue=0,White=0	4	33
					Red->down, Green=full,Blue=0,White=0	34	63
					Red=0 Green=255 Blue->up White=0	64	93
					Red=0 Green->down Blue=255 White=0	94	123
					Red=0 Green=0 Blue=255 White->up	124	153
					Red=0 Green=0 Blue->down White=255	154	183
					Red->up Green=0 Blue=0 White=255	184	213
					Red=255 Green=0 Blue=0 White->down	214	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
12	15	11	14	Color A	Black	0	3
					Color Continuous	4	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
13	16	12	15	Color B	Black	0	3
					Color Continuous	4	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
14	17	13	16	Color C	Black	0	3
					Color Continuous	4	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
15	18	14	17	Color D	Black	0	3
					Color Continuous	4	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
16	19	15	18	Color E	Black	0	3
					Color Continuous	4	243

					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
17	20	16	19	Color F	Black	0	3
					Color Continuous	4	243
					Red	244	245
					Green	246	247
					Blue	248	249
					White	250	251
					All Color	252	255
18	21	17	20	Control	Normal	0	7
					Reset All	8	15
					Pan & Tilt Reset	16	23
					TBD	24	31
					TBD	32	39
					TBD	40	47
					TBD	48	55
					Display Off	56	63
					Display On	64	71
					TBD	72	79
					TBD	80	87
					Hibernation	88	95
					TBD	96	255

- The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 18/21/17/20, if we set the mode at standard 21 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 22, third one at 43, etc.
- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

More functions

- RDM. RDM stands for “Remote Device Management”, with this function, users can realize remote control of the device, such as remotely changing DMX address, reverse pan/tilt setting, check a lot of useful information such as temperature, power consumption, fan speed. Etc. Every single device has a unique RDM code programmed at manufacture to distinguish from each other. It is not recommended for users to change this code.
- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, no need to change any mechanical parts. The upgrade box is not included in the package, if need any further assistance please just contact your authorized dealer.
- Hibernation. The device will enter sleeping mode if activated after a period of disconnecting DMX signal to save the power consumption, and will return immediately as soon as the DMX signal is sent again.
- Display back-up communication IC. There is a back-up communication IC installed in the display PCB, so users could replace at once if the original one is broken.
- Display flip. By press up and down button for more than 3 seconds, the display will flip automatically, this function is useful to read menu conveniently when device is hanged.

Technical Specifications

	M6B20W	M6B10RGBW
Input Voltages	100V~240V AC, 50/60Hz	
Power Consumption	206W	134W
Light source	6 pcs 20W white LED	6 pcs 10W RGBW LED
Power Connection	Neutrik® Powercon input and output connection	
LED life	60,000 hours	
Lux	32000 lux @2.5M for per beam	3167 lux @3M Red per beam, 5910 lux @3M Green per beam, 950 lux @3M Blue per beam, 9080 lux @3M white per beam
Beam angle	2.5°	
PWM	1,200Hz	
Colors	white	RGBW
Pixel control	Yes	
Separate control of two heads	Yes	
Dimmer	0-100% dimmer	
Strobe	0.5 - 26 Hz	
Head movement	630°(2.8 sec)or 540°(2.0 sec), Tile 265°(1.8 sec).16-bit resolution, auto repositioning	
Control	DMX512, 3-pin XLR interfaces, 15/18/14/17 channel mode	DMX512, 3-pin XLR interfaces, 18/21/17/20 channel mode
wireless DMX is available	Yes	
2.4 inch colour LCD display with back-up power	Yes	
Thermostat Controlled, variable speed fan	Yes	
RDM and software upgrade via DMX	Yes	
Net weight	10Kg	
Overall Size	468x375x375mm	
Rigging	1pc omega brackets with 1/4 – turn quick locks	
Road case available	Yes	

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