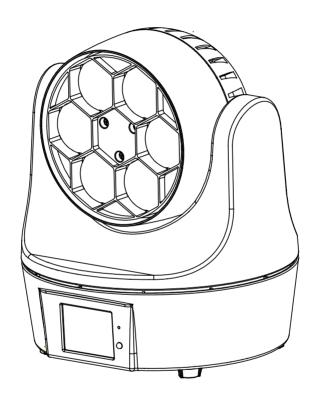


MANUAL



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TABLE OF CONTENTS

Safety instructions	3
Fixture overview	4
Dimensions	4
Photometric data	5
Physical installation	5
Mounting	6
Power and signal connection	7
Power connection	8
Control mode	9
Circuit connecting diagrtam	9
Onboard control menu	10
DMX protocol	14
Cleaning and maintenance	16
Specifications	16

SAFETY INSTRUCTIONS



WARNING!

Read the safety precautions in this section before installing, powering, operating or servicing this product

The following symbols are used to identify important safety information on the product and in this manual:



DANGER! Safety hazard Risk of severe injury or death.



DANGER! Hazardous voltage, Risk of lethal or severe electric shock.



WARNING! Fire hazard.



WARNING! LED light emission. Risk of eye injury.



WARNING! Burn hazard. Hot surface Do not touch.



WARNING! Wear protective evewear.



WARNING! Refer to user manual.



To guarantee proper and consistent operation, it is important to follow the guidelines in this manual. The manufacturer will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



In order to ensure the fixture could operate normally, the ambient temperature must not exceed 38°C and 0°C. Under normal conditions, the highest sectional surface temperature will be up to 60°C.



The fixture is designed with electric shock protection. The fixture should be connected to a power supply system with earth grounding. The fixture's ground cable should be connected with the ground cable of the power supply system as well



When the isolation is damaged please ask the manufacturer, distributor or a professional mechanic for a new power cable as replacement in order to avoid dangerous situations.



Never open the fixture while power is connected.



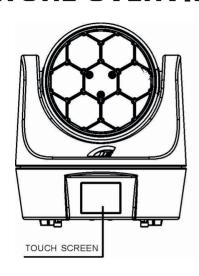
Never look directly into the light source. You risk injury to your eyes, which may cause blindness.

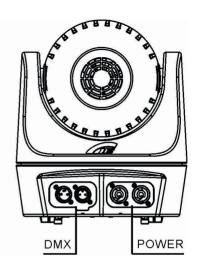


Please be aware that damages caused by modifications to the device are not subject to warranty.

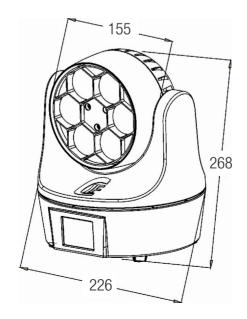


FIXTURE OVERVIEW

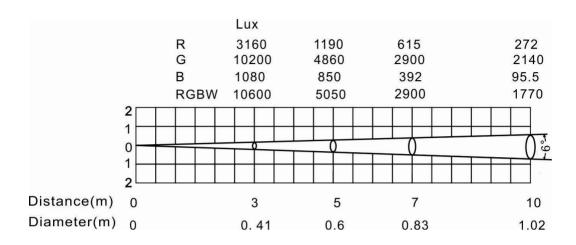




DIMENSIONS



PHOTOMETRIC DATA



PHYSICAL INSTALLATION

CAUTION:

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.

To avoid injury, never stand directly below the device when mounting, removing, or servicing the fixture.

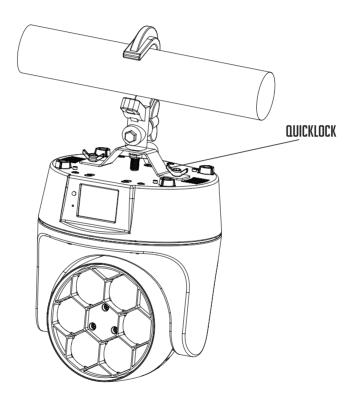
MOUNTING POINTS:

Overhead mounting requires experience, including calculating working load limits, knowledge of the installation material being used and periodic safety inspection of all installation materials and the fixture. If you don't have these qualifications, do not attempt the installation yourself. Wrong installation can result in injuries. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

MOUNTING:

The fixture is operational in any mounting position. Be sure the fixture is kept at least 50cm away from any flammable materials (decoration etc.).

When mounted with a clamp, always use and install the supplied safety cable as a safety measure to prevent accidents.



POWER AND SIGNAL CONNECTION

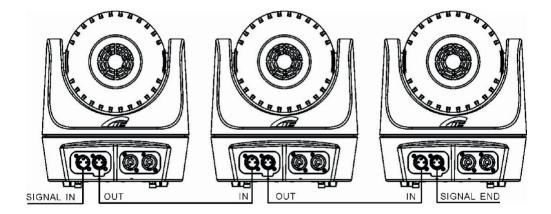
POWER SUPPLY:

Use powerCON plug to connect the fixture to the main power supply.

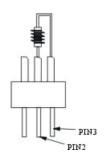
Please check if the voltage and the frequency are the same as mentioned on the fixture.

SIGNAL CONNECTION:

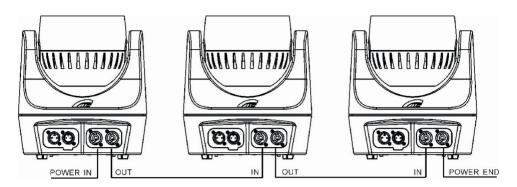
Please use the 5 pin XLR connectors to connect the first fixture's DMX output to the next fixture's input, and so on. As connect in the following figure.



The resistance of each core is at least a diameter of 0.5mm. (Notice: The inside leading wire of the 5-pin XLR plug can't touch each other or the earth). We recommend to use the DMX signal terminator during the installation to avoid electronic reflection of the digital control signal. The DMX terminator is a XLR connector with a 120 Ω & 1/2W resistor connected across pin 2 and 3 (see picture on the right). Which is plugged into the output socket on the last fixture in the chain. Refer to the connection as in above picture. We advise to use a DMX signal distributor when the distance of the lights is more then 15 meter, to prevent signal loss.



POWER CONNECTION



The L terminal is connected with the brown line



The N terminal is connected with the blue line

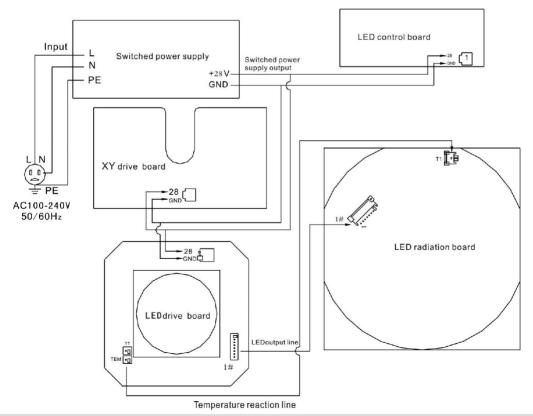
Do not daisychain more then 6 fixtures.

CONTROL MODE

STANDARD 11CH			
1. Dimmer	4. Green	7. Pan	10. Rota speed
2. Shutter	5. Blue	8. Tilt	11. Fixture control
3. Red	6. White	9. Rota lens	

STANDARD 17CH			
1. Dimmer	6. Blue	11. Tilt	16. Calibration
2. Dimmer fine	7. White	12. Tilt fine	17. Slave ID
3. Shutter	8. Macro color	13. Rota lens	
4. Red	9. Pan	14. Rota speed	
5. Green	10. Pan fine	15. Fixture control	

CIRCUIT CONNECTION DIAGRAM



MENU			REMARK
	DMX address	001 - 512	
	Fixture ID	000 - 064	
		Standard 11CH	Default
	Channel mode	Extended 17CH	
		Hold	
		Black	
		D. scene	
		Program 1	
Setting		Program 2	
	DMX Function	Program 3	
		Program 4	
		Program 5	
		Program 6	
		Program 7	
		Program 8	
	Slave - Master	Slave mode	
	Olavo Masioi	Master mode	
	Fixture times	Power on time ****H	
	i ixtaro timos	Lamp on time ****H	
	Fixture temperature	Lamp_tem ****°C	
	RDM UID	*****	
		1. Dimmer	
		2. Dimmer fine	
		3. Shutter	
		3. Shutter 4. Red	
		3. Shutter	
		3. Shutter4. Red5. Green6. Blue	
		3. Shutter4. Red5. Green6. Blue7. White	
Info		3. Shutter4. Red5. Green6. Blue7. White8. Macro color	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine 13. Rota lens	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine 13. Rota lens 14. Rota sp	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine 13. Rota lens 14. Rota sp 15. Fixturecontrol	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine 13. Rota lens 14. Rota sp 15. Fixturecontrol 16. Calibration	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine 13. Rota lens 14. Rota sp 15. Fixturecontrol 16. Calibration 17. Slave ID	
Info	DMX live	3. Shutter 4. Red 5. Green 6. Blue 7. White 8. Macro color 9. Pan 0 - 255 10. Pan fine 11. Tilt 12. Tilt fine 13. Rota lens 14. Rota sp 15. Fixturecontrol 16. Calibration	

MENU				REMARK
		P/T swap	OFF ON	Default
	Pan / Tilt	Pan invert	OFF	Default
		Tilt invert	OFF ON	Default
	DMX reset	ON OFF		Default
	Reset	System reset		
	Quick closedown	ON OFF		Default
	P/T angle limit	Close		
Personality	Program on/off	Close		
	Set P/T angle	Pan start Pan end Tilt start Tilt end		
	Display	Display sleep Display intensity Display rotation	Light always 2 minutes 4 minutes 6 minutes 10 - 100 Rotate 180 Normal	

MENU	MENU I		
	1. Dimmer		
	2. Dimmer fine		
	3. Shutter		
	4. Red		
	5. Green		
	6. Blue		
	7. White		
	8. Macro color		
Manual control	9. Pan	0 - 255	
	10. Pan fine		
	11. Tile		
	12. Tilt fine		
	13. Rota lens		
	14. Rota sp		
	15. Fixturecontrol		
	16. Calibration		
	17. Slave ID		

MENU			MENU IV	
			Scene (000 - 100
			1. Dimmer	
			2. Dimmer fine	
			3. Shutter	
			4. Red	
			5. Green	
			6. Blue	
			7. White	
			8. Macro color	
Program	Edit program	Edit program 1	9. Pan (000 - 255
			10. Pan fine	
			11. Tilt	
			12. Tilt fine	
			13. Rota lens	
			14. Rota sp	
			T. T. Total op	
			15. Fixturecontrol	
			15. Fixturecontrol	

MENU			MENU IV	
		Edit program 2		
		Edit program 3		
		Edit program 4		
	Edit program	Edit program 5	Same as 'Edit prog	gram 1'
		Edit program 6		
		Edit program 7		
		Edit program 8		
			Start step	000 - 100
		C-1 4	End step	000 - 100
Dragram		Set program 1	Step time	000 - 255
Program			Save	
		Set program 2		
	Set program	Set program 3		
		Set program 4		
		Set program 5	Same as 'Set prog	ram 1'
		Set program 6		
		Set program 7		
		Set program 8		
	Run	Running program		
	Fixed scene	Scene 001 - 100		
	Error list			
		Pan	±5.00%	
	Adjust	Tilt	±5.00%	
Service		Rotatable lens	±5.00%	
	Factory	Default		
	1 actory	Adjust default		
	Firmware update	***		

DMX PROTOCOL

CHANNEL	DMX VALUES	%	EFFECT
1. Dimmer	000 - 255	0 - 100	
2. Dimmer fine	000 - 255	0 - 100	
	000 - 009	0 - 3	
	010 - 049	4 - 19	Light> dark, slow> fast
	050 - 089	20 - 34	Dark> light, slow> fast
3. Shutter	090 - 119	35 - 46	Dark> light> dark, slow> fast
	120 - 179	47 - 70	Random fast> slow strobe
	180 - 250	71 - 98	In-phase, slow> fast
	251 - 255	99 - 100	Unused range
4. Red	000 - 255	0 - 100	
5. Green	000 - 255	0 - 100	
6. Blue	000 - 255	0 - 100	
7. White	000 - 255	0 - 100	
	000 - 001	0 - 1	
8. Macro color	002 - 254	1 - 99	Shadow
	255	100	
9. Pan	000 - 255	0 - 100	
10. Pan fine	000 - 255	0 - 100	
11. Tilt	000 - 255	0 - 100	
12. Tilt fine	000 - 255	0 - 100	
	000 - 127	0 - 49	
13. Rotatable lens	128 - 135	50 - 52	
13. Notatable letis	136 - 231	53 - 90	
	232 - 255	91 - 100	
14. Rota sp	000 - 255	0 - 100	
	000 - 009	0 - 3	
	010 - 014	4 - 5	
	015 - 019	6 - 7	
	020 - 024	8 - 9	
15. Fixture control	025 - 029	10 - 11	
	030 - 034	12 - 13	
	035 - 239	14 - 93	
	240 - 244	94 - 95	
	245 - 249	96 - 97	
	250 - 255	98 - 100	
16. Calibration	000 - 255	0 - 100	

DMX PROTOCOLS

CHANNEL	DMX VALUES	%	EFFECT
	000 - 002	0	
	003 - 005	1 - 2	ID:1 effective
	006 - 008	2 - 3	ID:2 effective
	192 - 194	75 - 76	ID:64 effective
	195 - 197	76 - 77	ID is (2xn) + 1 effective, (n=0 - 31) 1, 3, 5, 7, 9 63
	198 - 200	77 - 78	ID is (2xn) + 2 effective, (n=0 - 31) 2, 4, 6, 8, 10 64
	201 - 203	78 - 79	ID is (3xn) + 1 effective, (n=0 - 21) 1, 4, 7, 10, 13 64
	204 - 206	80 - 81	ID is (3xn) + 2 effective, (n=0 - 20) 2, 5, 8, 11, 14 62
	207 - 209	81 - 82	ID is (3xn) + 3 effective, (n=0 - 20) 3, 6, 9, 12, 15 63
	210 - 212	82 - 83	ID is (4*n) + 1 effective, (n=0 - 15) 1, 5, 9, 13, 17 61
	213 - 215	83 - 84	ID is (4*n) + 2 effective, (n=0 - 15) 2, 6, 10, 14, 18 62
	216 - 218	84 - 85	ID is (4*n) + 3 effective, (n=0 - 15) 3, 7, 11, 15, 19 63
17. Slave ID	219 - 221	85 - 86	ID is (4*n) + 4 effective, (n=0 - 15) 4, 8, 12, 16, 20 64
	222 - 224	87 - 88	ID is (5*n) + 1 effective, (n=0 - 12) 1, 6, 11, 16, 21 61
	225 - 227	88 - 89	ID is (5*n) + 2 effective, (n=0 - 12) 2, 7, 12, 17, 22 62
	228 - 230	89 - 90	ID is (5*n) + 3 effective, (n=0 - 12) 3, 8, 13, 18, 23 63
	231 - 233	90 - 91	ID is (5*n) + 4 effective, (n=0 - 12) 4, 9, 14, 19, 24 64
	234 - 236	91 - 92	ID is (5*n) + 5 effective, (n=0 - 11) 5, 10, 15, 20, 25 60
	237 - 239	93 - 94	ID is (6*n) + 1 effective, (n=0 - 10) 1, 7, 13, 19, 25 61
	240 - 242	94 - 95	ID is (6*n) + 2 effective, (n=0 - 10) 2, 8, 14, 20, 26 62
	243 - 245	95 - 96	ID is (6*n) + 3 effective, (n=0 - 10) 3, 9, 15, 21, 27 63
	246 - 248	96 - 97	ID is (6*n) + 4 effective, (n=0 - 10) 4, 10, 16, 22, 28 64
	249 - 251	97 - 98	ID is (6*n) + 5 effective, (n=0 - 9) 5, 11, 17, 23, 29 59
	252 - 254	98 - 99	ID is (6*n) + 6 effective, (n=0 - 9) 6, 12, 18, 24, 30 60
	255	100	All ID's are valid

CLEANING AND MAINTENANCE

- In order to ensure the fixture could work normally it should be kept clean always. The lens should also be regularly cleaned to
 maintain an optimum light output. Do not use any type of chemicals on the lens. It will damage the lens.
- Please disconnect the power supply of the fixture when you start maintenance.

CAUTION: Disconnect the fixture from the main power before you start with the maintenance.

SPECIFICATIONS

Voltage	240VAC 50/60Hz
Power	91W
LED chips	6x RGBW 4 in 1 LED chip
Lens degree	Standard 1.5°
Beam angle	Minimum 6°, maximum 51°
Color	RGBW
Strobe	1-30 times / second electronic strobe and random strobe
Pan	540°
Tilt	180°
Control mode	DMX512, RDM ready
Channel	Standard CH11 & extended CH17
Display menu	2.4 inch TFT touch screen
Software	Upgrade by XLR cable
Fixture size	226 x 226 x 286 mm
Netto weight	3,8 kg
Fixture size	226 x 268mm
Ambient temperature	0°C - 38°C



