LED MH 1930

USER MANUAL



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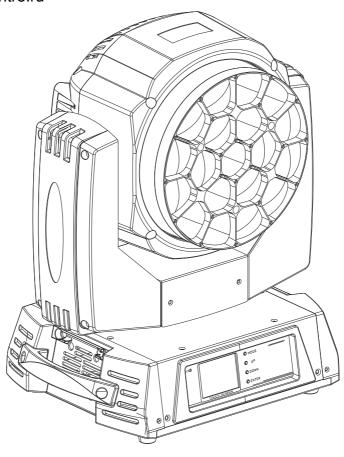






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Congratulations on choosing our products! Please carefully read this instruction manual in its entirety and keep it well for using reference. This manual contained about the installation and the relative using information of this products. Plese refere this manual's relative instruction when using this equipment.

1. Open-Package guidelines

This equipment is made of new style, high intensity plastic. It fully shows the modern times light charac teristic with teristic with beauty struture. And it is made accord to CE standard. Fully agree with the internation standard of DMX512 agreement.

When receive the product, please be careful to take and put, check if the product has damage or not because of transportation, and check the following parts:

1. Signal cable-1PC 2.Safty cable-1PC

3.User Manval-1PC 4. Omega holder-2PCS 5.Power cable-1PC

5.Service card-1PC

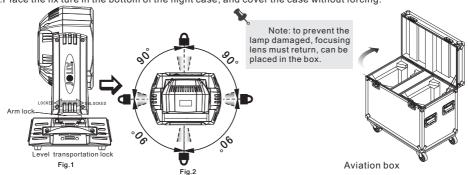
1.1Package

Unpacking the fixture

- 1. Open the flight case cover
- 2. With one person on each side, lift the fixture out of the flight case.
- 3. Unlock pan and tilt before operating fixture

Packing the fixture

- 1.Disconnect the fixture from power and allow it to cool.
- 2.lock arms as figure.- Fig.1(PAN Mechanism Lock and Release (every 90°) Fig.2)
- 3. Place the fix ture in the bottom of the flight case, and cover the case without forcing.



2. Safety instructions

Every person involvd with installation and maintenance of this device to:

- -Be qualilfied
- -Follow the instructions of this manual.



This device has been shipped with our premises in absolutely perfect condition. In order to maintain this condition and toensure a safe operation ,it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:

- > The manufacturer will not accept liability for any resulting damages caused by the nonobservance of this manual or any unauthorized modification to the device.
- > Please consider that damages caused by manual modifications to the device are not subject to warranty.

- Never let the power-cord come into contact with other cables! Handle the power cord and all connections with particular caution!
- >Make sure that the available voltage is not higher than stated on the rearpanel.
- Always plug in the power plug least. Make suer that the power-switch is set to off-position before you con ections with themains with particular caution!
- >Make sure that the power-cord is never crimped or damaged by sharp edges. Check the decice and the power-cord from time to time.
- > 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 powercord.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- > The electric connection, repairs and servicing must be carried out by a qualified employee.
- > Do not connect this device to a dimmer pack.
- > Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
- >Do not touch the device's housing bare hands during its operation(housing becomes hot)!
- For replacement use lamps and fuses of same type and rating only.

Eye damage!

Avoid looking directly into the light source(meant especially for epileptics)!

(]--0.2m

> Minimum distance of illuminated objects

The projector needs to be positioned so that the objects hit by the beam of light are at least 0.20 metres from the lens of the projector.

t. 40°C

➤ Maximum ambient temperature

Do not operate the fixture if the ambient temperatuer(Ta) exceeds 40°C (104°F).

> Temperature of the external surface

 $t_c 90^{\circ}C$

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steadystate, is 90° C (194° F).

IP20

>IP20 protection rating

The fitting is protected against penetration by solid of over 12mm (0.47") in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).



Indoor use only



Not suitable for household illumination



▶Photobiological Safety

CAUTION Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes.



Light collimation system

This product contains internal light collimation system. Avoid intense light from any angle.

➤ The products to

The products to which this manual refers comply with the European Directives pursuant to:



•2006/95/EC - Safety of electrical equipment supplied at low voltage (LVD)

2004/108/EC - Electromagnetic Compatibility (EMC)

•2011/65/EU - Restriction of the use of certain hazardous substances (RoHS) •2009/125/EC - EcoDesign requirements for Energy-related Products (ErP)

➤ Protection against electrical shock

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/orshorting to earth by using appropriately sized residual current devices.



➤ Disposing

This product is supplied in compliance with European Directive 2012/19/EU-Waste Electrical and Electronic Equipment (WEEE). To preserve the environment please dispose/recycde this product at the end of its life according to the local regulation.



▶Battery

This product contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

3. Operating determinations

- >This device is a moving-head for creating decorative effects and was designed for indoor use only.
- If the device ha been exposed to drastic temperature fluctuation(e.g. after transportation).do not weitch it on immediately. The arising condensation water might damage your device, Leave the device switched off until it has reached room temperature.
- Never run the device without lamp!
- >Do not shake the device, Avoid brute force when installing or operating the device.
- Never life the fixture by holding it at the projectorhead, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- > When choosing the installation-spot, please make sure that the device is not exposed to heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!
- The minimum distance between light output and the illuminated surface must be more than 0.2 meters.
- Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.
- > Always fix the fixture with an appropriate safety rope, Fix the safety rope at the correct holes only.
- Operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastend.
- > The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explose and emit a hign ultraviolet radiat, which may cause burns.
- >The maximum ambient temperature 40° C must never be exceeded.
- >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.
- >Please consider that unauthorized modifications on the device are forbidden due to safety reasonsl.
- 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 dangers like short-circuit, burns, electric shict, burns due to ultraviolet radiation, lamp explosion, crash etc.

4. Rigging the fixture

4.1 Mounting



- For the various mounting positions of the FIXTURE(standing on the floor, sideways or hanging different accessories kits are available.
- Through this a safe and firm installation is assured.
- PYou'll find special connectors on the bottom side of the system which are put to use here.

4. 2 Installing the Clamps

Please consider the respective national norm's during the Installation! The installation must only be carried out by an authorized dealer!

The installation of the projector has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g.an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall if the main attachment fails.

When servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The projector should be installed outside areas where persons may walk by or be seated.

Important! Overhead rigging requires extensive expering CE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodilyinjury and or damage to property.

The projector has to be installed out of the reach of people.

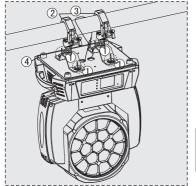
If the projector shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The projector must never be fixed swinging freely in the room.

Caution Projectors may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the projector!

Before rigging make sure that the installation area can hold a minim um point load of 10 times the projector's weight.

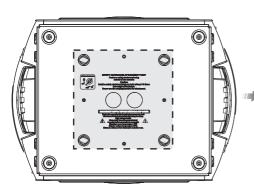
The projector can be placed directly on the stage floor or rigged in any orientation on atruss without altering its operation characteristics.

For overhead use, always install a safety-rope that can hold at least 10 times the weight of the fixture. You must only use safety-ropes with screw on carabines. Pull the safety-rope through the two apertures on the bottom of the base and over the trussing system etc.











4.3 Power supply connection and cut off

Connect the light source to the main power source with the plug of the power cord, or cut off the power supply:

Connection: according to procedures, the power plug and socket is inserted into the groove one one alignment, rotation.

Cut off:according to procedures, press the button on the rotating plug, pull out.

4.4 Power Connection

If you wish to change the power supply settings, see the chapter appendix Connect the fixture to the mains with the enclosed power cable and plug.



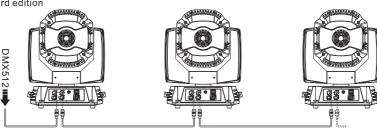
Warning: please verify the power of the power supply equipment prior to the connection! Earth wire must be grounded!

CABLE(EU)	CABLE(US)	Pin	INTERNATIONAL
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	•

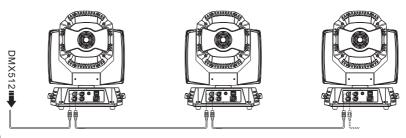
4.5 DMX-512 connection/connection between fixtures

Only use stereo shieded cable and 3-pin XLR-plugs and connectors in order to connect.





Online edition



Caution

At the last fixture, the DMX-cable has to be terminated with a terminatou. solder a 120 resistor between signal(-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

DMX output DMX iutput 3-pin XLR socket

DMX output DMX iutput 5-pin XLR socket 5-pin XLR socket





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





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

4 : N. A.

5: N. A.

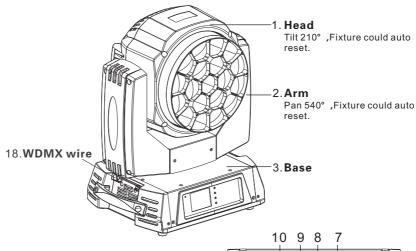
DMX Terminator Diagram

-For installations where the DMX cable has to run a long distance or is In an electrically noisy environment it is recommended to use a DMX terminator. This help in preventing corruption of the signal by electrical noise. The DMX terminator is simply an XLR plug witha 120Ω resistor connected between pins 2 and pins3, which is then plugged into a the output XLR socket of the last ifxture in the chain.





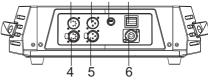
5.Description of the device



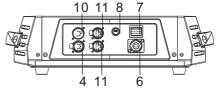
BACK PANEL

- 4. 5-pin XLR female
- 5. 3-pin XLR female
- 6. Power-in
- 7. Power switch
- 8. Main Fuse
- 9. 3-pin XLR male 10.5-pin XLR male
- 11.Network interface

Standard edition

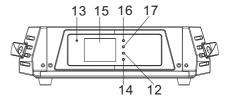


Online edition

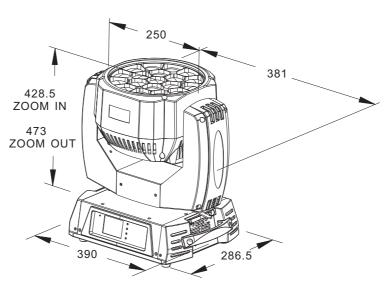


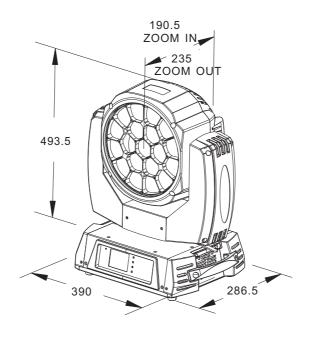
CINTROL PANEL

- 12.DOWN button
- 13. Status indicator lamp
- 14.ENTER button
- 15. Touch screen(LCD display)
- 16.MODE button
- 17 UP button
- 18.WDMX Wire



6.Dimension





7. Display control

7.1 Navigation in the Menu

Using the buttons or touch screen, and this can be simply and easily set the address code and functions code.

If you view or modify the lighting feature set, then press ENTER button, the display will enter the menu interface. Both there is sub menu corresponding to the functional operation of the main menu. Each of the menus is representative of the specific features of the lamp. The specific contents shows as the table menu below.

Set or browse lighting function, press UP or DOWN button.

Press ENTER to save your changes or enter the submenu. Press the UP or DOWN can change the numerical (increase or decrease in value).

Press the MODE button to return to menu. Set a time 0 to 10 minutes automatically exit menu interface and close the screen.

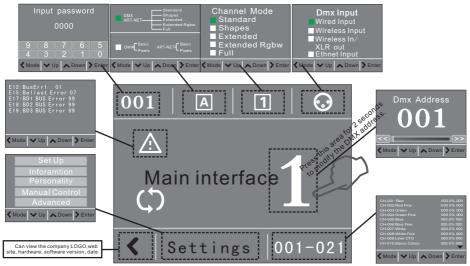
7.2 Display Operation

Put through power supply, open the power switch of lamps and lanterns, display show the company LOGO website. According to the main interface, as shown in figure:

In the main interface, press "MODE" button to view the software version, press the "UP" "DOWN" can modify the DMX address.

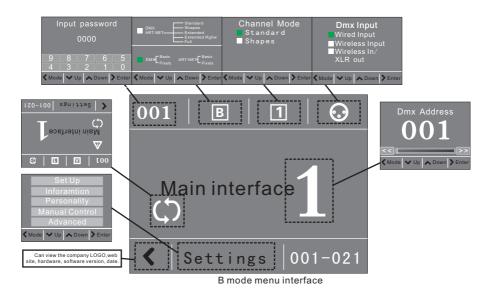
If the screen "3" icon is green, said DMX signal connection is normal, this state can be used to check the elamps and lanterns and connection between the control table is normal.

This lamp contains "\overline{\text{""}} = "two control modes are optional, see below; (A mode, also known as unit mode, its function as a network and only a single control console .B mode known as multivariate models, its function as a network and control console merge or separate two options.)



A mode menu interface

This lamp can be set to turn off the automatic flip screen function, touch this " 🗘 "icon can be manually flip screen.



Click on the main interface of the icon, numerical to view view Settings related information of lamps and lanterns. Symbols such as the main interface appear " Δ ", the following error message indicates that there might be a lamps and lanterns, can click to view and control information content to modify the lamps and lanterns.

CODE #	ERRO INFO	CHECK MEASURMENT	NOTE		
E02	Program Err 1	Check the welding of Chip			
E04	MBDInit Error	Check the communication signal 485& 485 chip & memory	RESET		
E05	BD1Init Error	Check main cable ABAB(485) chip	ERROR		
E06	BD2Init Error	Check Inam cable ADAD (405) Chip	Limon		
E12	Bus1 Error	Check main cable ABAB (485) chip			
E16	MFpga Error	Check the communication signal& welding of			
E17	BD1 BUS	communication chip			
E18	BD2 BUS	ommunication cmp			
E21	Pan FB. Error	Check the light coupling line, optical coupling switch and a			
E23	Tilt FB. Error	plate of the relative position measurement			
E22	Pan Zero	Check cable of sensor, distance and location of ,magnets			
E24	Tilt Zero Error	and sensor			
E36	Zoom RT.	aliu selisui			
E46	H.Fan Error	Check the fan of head			
E057	EthMDL Error	Check the fan of ArtNet、communication signal			

Note: under standard version only mode A is working ,and without DMX input.

7.3 Menu list

DMX Address Universe DMX Address DMX				Remark	
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Auto Screen ON/OFF Auto Screen (defaul ON) Fan Mode Auto High Language English English Simplified Chinese Simplified Chinese Reset ALL Reset Pan/Tilt Reset Other Channel Channel		Screen			
Fan Mode Auto High Language English Simplified Chinese Simplified Chinese Reset ALL Reset Pan/Tilt Reset Other Channel Channel					
High Language High English Simplified Chinese Reset ALL Reset Pan/Tilt Reset Other Channel Channel Channel Channel High English Simplified Chinese Simplified Chinese Channel Channel Channel				, , , , , , , , , , , , , , , , , , , ,	
Language English English Simplified Chinese Simplified Chinese Reset ALL Reset Pan/Tilt Reset Other Channel Channel		Fan Mode			
Channel Chan				English	
Reset ALL Reset Pan/Tilt Reset Other Channel Channel Channel		Language			
Channel Testing	_ =				
Channel Testing	ius tro	Reset	Reset Pan/Tilt		
Channel Testing	lar on		Reset Other		
Calibration Chanel Adgusting Factory Default Reset to original parameters Touch Calibration Touch screen adjusting	ک ک	Channel		Chanel Testing	
Factory Default Reset to orignal parameters Touch Calibration Touch screen adjusting	bec	Calibration		Chanel Adgusting	
Touch Calibration Touch screen adjusting	and	Factory Default		Reset to orignal parameters	
	Adv	Touch Calibration		Touch screen adjusting	

Note: under standard version, the content mark "*" are unable to use.

8.DMX protocol

8.1 Unit model(A mode)

Mode1	Mode2	Mode3	Mode4	Mode5	Fade Type	Function	Dmx Value
1	1	1	1	1	Red	Black→Red 0-100%	0-255
2	2	2	2	2	Red fine	Red fine	0-255
3	3	3	3	3	Green	Black→Green 0–100%	0-255
4	4	4	4	4	Green fine	Green fine	0-255
5	5	5	5	5	Blue	Black→Blue 0-100%	0-255
6	6	6	6	6	Blue fine	Blue fine	0-255
7	7	7	7	7	White	Black→White 0–100%	0-255
8	8	8	8	8	White fine	White fine	0-255
						Note: If CTO channel is active, the WHITE cha	nnel is
						disabled.	
						UNUSED RANGE	0–9
						8000K	10
						8000K→7000K	10-54
9	9	9	9	9	Linear CTO	7000K→6000K	54-99
						6000K→5600K	99-117
						5600K→5000K	117-144
						5000K→4000K	144-188
						4000K→3200K	188-224
						3200K→2500K	224-255
						Macro color OFF	0–9
						Red	10
						Green	11
						Blue	12
						Cyan	13
						Yellow	14
						Magenta	15
						White 7000 K	16
						White 3700 K	17
						White 5000 K	18
						Black	19
						Medium Yellow	20-22
						Straw Tint	23-26
						Surprise Peach	27-28
						Fire	29
10	10	10	10	10	Macro colour	Medium Amber	30
						Gold Amber	31
						Dark Amber	32-34
						Sunrise Red	35-44
						Light Pink	45
						Medium Pink	46-48
						Pink Carnation	49-61
						Light Lavender	62-67
						Lavender	68-77
						Sky Blue	78–88
						Just Blue	89-99
						Dark yellow green	100-109
						Spring Yellow	110-111
						Light Amber	112
						Straw	113
						Deep Amber	114

Mode1	Mode2	Mode3	Mode4	Mode5	Fade Type	Function	Dmx Value
						Ovenes	115-116
						Orange Light Rose	115-116
						English Rose	117
						Light Salmon	119
						Middle Rose	120
						Dark Pink	121-122
						Magenta	123-124
						Peacock Blue	125
						Med Blu Green	126
						Steel Blue	127
						Light Blue	128
						Dark Blue	129-130
						Leaf Green	131-133
						Dark Green	134-135
						Mauve	136-137
						Bright Pink	138-141
						Medium Blue	142-144
10	10	10	10	10	Macro colour	Deep Golden Amber	145
						Pale Lavender	146
						Special lavender	147-148
						Primary Green	149-150
						Bright Blue	151-156
						Apricot	157-161
						Pale Gold	162-167 168-171
						Deep Orange Bastard Amber	
						Flame Red	172–173 174
						Daylight Blue	175-178
						Lilac Tint	179
						Deep lavender	180-183
						Dark Steel Blue	184-190
						Congo Blue	191-206
						Alice Blue	207
						Dirty White	208
						White	209-255
						CLOSED	0-3
						STROBE SLOW→FAST (1→25 flash/sec)	4-103
						OPEN	104-107
						PULSATION SLOW→FAST (0.5–25	108-207
11	11	11	11	11	Strobe	OPEN	208-212
						RANDOM SLOW STROBE	213-225
1						RANDOM MEDIUM STROBE	226-238
						RANDOM FAST STROBE	239-251
<u> </u>	4.5	4-	4-	4.5		OPEN	252-255
12	12	12	12	12	Dimmer	Dimmer 0–100%	0-255
13	13	13	13	13	Dimmer Fine		0-255
14 15	14 15	14 15	14 15	14 15	Pan Pan Fine	Pan Pan Fine	0-255 0-255
	16		16		Pan Fine Tilt	Tilt	
16 17	16	16 17	16	16 17	Tilt Fine	Tilt Fine	0-255 0-255
H''	- 17	17	- 17	17	IIIL FIIIE	The functions are actived passing through th	
1						range" and staying 5 seconds	e unusea
1							0.11
1						Function off - rearmed	0-11
18	18	18	18	18	Function	Pan Tilt Fast (Default)	12-24
1						Pan Tilt Normal	25-37
						Dimmer Curve 1	38-42
1						Dimmer Curve 2 Dimmer Curve 3	43-47 48-52
						Diffiller Carve 3	40-02

18	Mode1	Mode2	Mode3	Mode4	Mode5	Fade Type	Function	Dmx Value	
RGBW Gamma curve 1 - gamma = 1.0							Discourse Course 4		
RGBW Gamma curve 2 - gamma = 1.5									
18						DCDW Commo curvo 2 - gamma - 1.5			
Halogen Lamp Simulation OFF (Detault)						PCPW Camma curve 2 - gamma = 1.5			
Halogen Lamp Simulation, type 1 (750 W) 78-82									
18								73-77	
18							Linear CTO @ 0 bit	78-82	
Linear CTO @ 0 bit	18	18	18	18	18	Function		83-87	
Linear CTO @ 0 bit							Halogen Lamp Simulation, type 3 (1200 W)		
Linear CTO @ 0 bit							Linear CTO @ 0 bit	88-92	
Linear CTO @ 0 bit							Halogen Lamp Simulation, type 4 (2000 W)		
Halogen Lamp Simulation, type 5 (2500 W) 98-102								93-97	
Served 103-255									
19								98-102	
19								103_255	
19									
19	1							stuying 5	
19		19 19 19						0.25	
PAN / TILT RESET 77-127	19		19	19	19	Reset			
COMPLETE RESET 128-255									
20 20 20 20 20 20 20 20									
20 20 20 20 20 20 20 20									
21 21 21 21 21 21 21 21	20	20	20	20 20	20	20	Zoom		
21 21 21 21 21 21 20									
Page					21				
CW Rotation speed from slow to fast	21	21	21	21					
VINUSED RANGE 0-7									
Shape1									
Shape3									
VALUED RANGE 11 11 12 12 13 13 14 14 15 15 15 15 15 15							Shape2	9	
Shape4 12 Shape5 13 UNUSED RANGE 14 Shape6 15 Shape7 16 Shape8 17 Shape9 18 Shape10 19 Shape10 19 Shape11 20 Shape11 20 Shape13 22 Shape13 22 Shape14 23 Shape14 23 Shape15 24 Shape16 25 Shape17 26 Shape18 27 Shape18 27 Shape19 28 Shape19 28 Shape20 29 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape26 37 Shape27 38 Shape26 37 Shape27 38 Shape26 37 Shape27 38 Shape27 38 Shape28 37 Shape28 37 Shape29 38 Shape26 37 Shape27 38 Shape27 38 Shape28 37 Shape28 37 Shape29 38 Shape29 38 Shape29 39 Shape29							Shape3	10	
Shape5							UNUSED RANGE	11	
Color									
Shape6 15 Shape7 16 Shape8 17 Shape8 18 Shape9 18 Shape10 19 Shape11 20 Shape11 20 Shape11 20 Shape11 22 21 Shape13 22 25 Shape14 23 Shape15 24 Shape16 25 Shape16 25 Shape17 26 Shape17 26 Shape18 27 Shape18 27 Shape19 28 Shape19 28 Shape20 29 Shape20 29 Shape21 30 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 33 Shape24 35 Shape26 36 Shape26 36 Shape26 37 Shape26 37 Shape26 37 Shape27 38 Shape27 38 Shape28 37 Shap							Shape5		
Shape7 16									
Shape8									
Shape9									
Shape Shape Selection Shape 19 20 Shape 1 20 Shape 12 21 Shape 22 Shape 3 32 22 Shape 16 25 Shape 16 25 Shape 16 25 Shape 16 27 Shape 18 27 Shape 18 27 Shape 18 27 Shape 18 27 Shape 19 28 Shape 20 29 Shape 20 29 Shape 20 29 Shape 20 29 Shape 20 20 20 20 20 20 20 2									
Shape Shap									
Shape Shap	1								
Shape Selection Shape	1								
Sape	1								
Selection Shape15 24 Shape16 25 Shape17 26 Shape18 27 Shape19 28 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38		22			22				
Shape16 25 Shape17 26 Shape18 27 Shape19 28 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38		22			22	Selection			
Shape17 26 Shape18 27 Shape19 28 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38	1								
Shape18 27 Shape19 28 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38									
Shape19 28 Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38									
Shape20 29 Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38	1								
Shape21 30 Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38	1								
Shape22 31 Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38	1								
Shape23 32 UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38									
UNUSED RANGE 33 UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38	1								
UNUSED RANGE 34 Shape24 35 Shape25 36 Shape26 37 Shape27 38									
Shape24 35 Shape25 36 Shape26 37 Shape27 38	1								
Shape25 36 Shape26 37 Shape27 38									
Shape26 37 Shape27 38	1								
Shape27 38									
	1						Shape28		

Mode ²	Mode2	Mode3	Mode4	Mode5	Fade Type	Function	Dmx Value
						Shape29	40
						UNUSED RANGE	41
							42
						Shape30	
						UNUSED RANGE	43
						Shape31	44
						Shape32	45
						Shape33	46
						Shape34	47
						Shape35	48
						Shape36	49
						Shape37	50
						Shape38	51
						Shape39	52
						Shape40	53
						Shape41	54
					Shape	Shape42	55
	22			22			
					Selection	Shape43	56
1						Shape44	57
						Shape45	58
						Shape46	59
						Shape47	60
						Shape48	61
						Shape49	62
						Shape50	63
						UNUSED RANGE	64
						Shape51	65
						Shape52	66
						Shape53	67
						Shape54	68
					UNUSED RANGE	69	
						Shape55	70
						UNUSED RANGE	71-255
						Radius size, Static	0-63
	23		23	Shape Speed	max to min speed	64-158	
				onape opeca	Stop	159-160	
						min to max speed	161-255
	24			24	Shape Fade	Shape Fade 0-100%	0-255
	25			25	Shape R	Shape R	0-255
	26			26	Shape G	Shape G	0-255
	27			27	Shape B	Shape B	0-255
	28			28	Shape W	Shape W	0-255
					Shape		
	29			29	Dimmer	Shape Dimmer 0-100%	0-255
	30			30	Background Dimmer	Background Dimmer 0-100%	0-255
	31			31	Shape Transition	Shape Transition	0-255
	32			32	Shape Offset	Shape Offset	0-255
						CLOSED	0-3
						STROBE SLOW→FAST(1→25 flash/sec)	4–103
						OPEN	104-107
1						PULSATION SLOW→FAST (0.5–25	104-107
	33			33	Foreground	OPEN	
	33			33	Strobe		208-212
						RANDOM SLOW STROBE	213-225
						RANDOM MEDIUM STROBE	226-238
						RANDOM FAST STROBE	239-251
						OPEN	252-255

Mode1	Mode2	Mode3	Mode/	Mode5	Fade Type	Function	Dmx
Wioue i	IVIOUEZ	ivioues	Wioue4	woues	raue Type	Fullction	Value
						CLOSED	0-3
						STROBE SLOW→FAST (1→25	4-103
	24					OPEN	104-107
					Dookaraund	PULSATION SLOW→FAST (0.5-25	108-207
	34			34	Background Strobe	OPEN	208-212
					Strope	RANDOM SLOW STROBE	213-225
						RANDOM MEDIUM STROBE	226-238
						RANDOM FAST STROBE	239-251
						OPEN	252-255
						UNUSED RANGE	0-7
						NO selection	8
						pixe I	9
						Ring 2	10
	35			35	Background	Ring 3	11
	35			35	Select	pixe I + Ring 3	12
						pixe I + Ring 2	13
						pixe I + Ring 2 + Ring 3	14
						Ring 2 + Ring 3	15
						UNUSED RANGE	16-255
		22	22	36	Red LED 1	Red 0-100%	0-255
		23	23	37	Green LED 1	Green 0-100%	0-255
		24	24	38	Blue LED 1	Blue 0-100%	0-255
			25		White LED 1	White 0-100%	0-255
		25	26	39	Red LED 2	Red 0-100%	0-255
		26	27	40	Green LED 2	Green 0-100%	0-255
		27	28	41	Blue LED 2	Blue 0-100%	0-255
			29		White LED 2	White 0-100%	0-255
		28	30	42	Red LED 3	Red 0-100%	0-255
		29	31	43	Green LED 3	Green 0-100%	0-255
		30	32	44	Blue LED 3	Blue 0-100%	0-255
			33		White LED 3	White 0-100%	0-255
		31	34	45	Red LED 4	Red 0-100%	0-255
		32	35	46	Green LED 4	Green 0-100%	0-255
		33	36	47	Blue LED 4	Blue 0-100%	0-255
			37		White LED 4	White 0-100%	0-255
		34	38	48	Red LED 5	Red 0-100%	0-255
		35	39	49	Green LED 5	Green 0-100%	0-255
		36	40	50	Blue LED 5	Blue 0-100%	0-255
			41		White LED 5	White 0-100%	0-255
		37	42	51	Red LED 6	Red 0-100%	0-255
		38	43	52	Green LED 6	Green 0-100%	0-255
		39	44	53	Blue LED 6	Blue 0-100%	0-255
		40	45	F4	White LED 6	White 0-100%	0-255
		40	46	54	Red LED 7	Red 0-100%	0-255
		41 42	47 48	55	Green LED 7	Green 0-100%	0-255
-		42	48	56	Blue LED 7 White LED 7	Blue 0-100%	0-255 0-255
-		43	50	57	Red LED 7	White 0-100% Red 0-100%	0-255
		43	51	58	Green LED 8	Green 0-100%	0-255
—		44	52	58 59	Blue LED 8	Blue 0-100%	0-255
		45	53	วช	White LED 8	White 0-100%	0-255
-		46	54	60	Red LED 9	Red 0-100%	0-255
—		46	55	61	Green LED 9	Green 0-100%	0-255
<u> </u>		48	56	62	Blue LED 9	Blue 0-100%	0-255
-		1 70	57	UL	White LED 9	White 0-100%	0-255
		49	58	63	Red LED 10	Red 0-100%	0-255
		49	30	UJ	HOU LLD IV	116G 0-100/0	0-233

Mada1	Mode2 Mode	2 Mada4	MadaE	Fodo Typo	Function	Dmx
Model	iviodeziviode	3 IVIOUE4	woues	rade Type	Function	Value
	50	59	64	Green LED 10	Green 0-100%	0-255
	51	60	65	Blue LED 10	Blue 0-100%	0-255
		61		White LED 10	White 0-100%	0-255
	52	62	66	Red LED 11	Red 0-100%	0-255
	53	63	67	Green LED 11	Green 0-100%	0-255
	54	64	68	Blue LED 11	Blue 0-100%	0-255
		65		White LED 11	White 0-100%	0-255
	55	66	69	Red LED 12	Red 0-100%	0-255
	56	67	70	Green LED 12	Green 0-100%	0-255
	57	68	71	Blue LED 12	Blue 0-100%	0-255
		69		White LED 12	White 0-100%	0-255
	58	70	72	Red LED 13	Red 0-100%	0-255
	59	71	73	Green LED 13	Green 0-100%	0-255
	60	72	74	Blue LED 13	Blue 0-100%	0-255
		73		White LED 13	White 0-100%	0-255
	61	74	75	Red LED 14	Red 0-100%	0-255
	62	75	76	Green LED 14	Green 0-100%	0-255
	63	76	77	Blue LED 14	Blue 0-100%	0-255
		77		White LED 14	White 0-100%	0-255
	64	78	78	Red LED 15	Red 0-100%	0-255
	65	79	79	Green LED 15	Green 0-100%	0-255
	66	80	80	Blue LED 15	Blue 0-100%	0-255
		81		White LED 15	White 0-100%	0-255
	67	82	81	Red LED 16	Red 0-100%	0-255
	68	83	82	Green LED 16	Green 0-100%	0-255
	69	84	83	Blue LED 16	Blue 0-100%	0-255
		85		White LED 16	White 0-100%	0-255
	70	86	84	Red LED 17	Red 0-100%	0-255
	71	87	85	Green LED 17	Green 0-100%	0-255
	72	88	86	Blue LED 17	Blue 0-100%	0-255
		89		White LED 17	White 0-100%	0-255
	73	90	87	Red LED 18	Red 0-100%	0-255
	74	91	88	Green LED 18	Green 0-100%	0-255
	75	92	89	Blue LED 18	Blue 0-100%	0-255
		93		White LED 18	White 0-100%	0-255
	76	94	90	Red LED 19	Red 0-100%	0-255
	77	95	91	Green LED 19	Green 0-100%	0-255
	78	96	92		Blue 0-100%	0-255
		97		White LED 19	White 0-100%	0-255

8.2 Multivariable model(B mode)

BASIC ENGINE **STANDARD SHAPES** CHAN-**CHANNEL** CHAN-CHANNEL **MODE NEL NEL MODE** Red Red 1 2 Red fine 2 Red fine Green Green 3 4 Green fine 4 Green fine Blue 5 Blue 5 6 Blue fine 6 Blue fine White White 7 8 White fine 8 White fine 9 Linear CTO 9 Linear CTO 10 Macro colour 10 Macro colour 11 Strobe Strobe 11 12 Dimmer 12 Dimmer 13 **Dimmer Fine** 13 **Dimmer Fine** Pan 14 14 Pan 15 Pan Fine 15 Pan Fine Tilt 16 16 Tilt Tilt Fine Tilt Fine 17 17 18 Function Function 18 19 Reset Reset 19 20 Zoom 20 Zoom 21 **Zoom Rotation Zoom Rotation** 21 Shape 22 Selection 23 Shape Speed 24 Shape Fade 25 Shape R 26 Shape G 27 Shape B 28 Shape W 29 Shape Dimmer Background 30 Dimmer Shape 31 Transition Shape Offset 32

PIXEL ENGINE

Pixel Engine need to be enabled through the function channel.

RGB

RGBW

1 Red LED 1 2 Green LED 1 3 Blue LED 1 Red LED Green LED Blue LED Blue LED 55 Red LED 19 56 Green LED 19	CHAN-		ľ
2 Green LED 1 3 Blue LED 1 Red LED Green LED Blue LED 55 Red LED 19 56 Green LED 19	NEL	MODE	Ц
3 Blue LED 1 Red LED Green LED Blue LED 55 Red LED 19 56 Green LED 19	1	Red LED 1	L
Red LED Green LED Blue LED 55 Red LED 19 56 Green LED 19	2	Green LED 1	L
Green LED Blue LED 55 Red LED 19 56 Green LED 19	3	Blue LED 1	L
Blue LED 55 Red LED 19 56 Green LED 19	•••	Red LED ···	
55 Red LED 19 56 Green LED 19	•••	Green LED ···	L
56 Green LED 19	•••	Blue LED ···	L
GIGGH EED IG	55	Red LED 19	Ĺ
57 Blue I FD 19	56	Green LED 19	
PIGO EED 10	57	Blue LED 19	

RGBW				
CHAN- NEL	CHANNEL MODE			
1	Red LED 1			
2	Green LED 1			
3	Blue LED 1			
4	White LED 1			
	Red LED ···			
	Green LED ···			
	Blue LED ···			
	White LED ···			
73	Red LED 19			
74	Green LED 19			
75	Blue LED 19			
76	White LED 19			

Foreground

Strobe Background

Strobe Background

Select

33

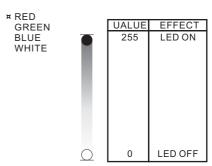
34

35

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.

MACRO COLOUR

S/N	DMX VALUE	CHANNEL FUNCTION	B R	IT V G	ALU B	E W
1	0-9	Reserved	0	0	0	0
2	10	Red	255	0	0	0
3	11	Green	0	255	0	0
4	12	Blue	0	0	255	0
5	13	Cyan	0	255	255	0
6	14	Yellow	216	255	0	0
7	15	Magenta	255	0	160	0
8	16	White 7000 K	164	255	18	255
9	17	White 3700 K	255 255	255	57	0 176
10 11	18 19	White 5000 K Black	0	137	0	0
12	20-22	Medium Yellow	207	126	0	0
13	23-26	Straw Tint	152	84	1	0
14	27-28	Surprise Peach	238	84	1	0
15	29	Fire	246	14	0	0
16	30	Medium Amber	246	72	0	0
17	31	Gold Amber	246	48	0	0
18	32-34	Dark Amber	246	22	0	0
19	35-44	Sunrise Red	246	34	0	0
20	45	Medium Pink	246	61	0	96
21	46-48	Medium Pink	255	46	0	56
22	49-61	Pink Carnation	255	63	0	94
23	62-67	Light Lavender	212	47	0	227
24	68-77	Lavender	212	41	22	255
25 26	78-88 89-99	Sky Blue Just Blue	0	255 137	46 46	0
27	100-109		21	255	0	0
28	110-109	Dark yellow green Spring Yellow	255	178	0	0
29	112	Light Amber	214	108	0	0
30	113	Straw	210	105	0	51
31	114	Deep Amber	255	130	0	3
32	115-116	Orange	255	80	0	0
33	117	Light Rose	255	106	0	11
34	118	English Rose	255	100	2	0
35	119	Light Salmon	255	77	3	7
36	120	Middle Rose	255	60	1	0
37	121-122	Dark Pink	253	39	3	0
38	123-124	Magenta	255	0	1	0
39	125	Peacock Blue	0	255	0	23
40	126 127	Med Blu Green Steel Blue	157 0	255 7	255	23
42	127	Light Blue	0	255	4	23
43	129-130	Dark Blue	0	91	255	0
44	131-133	Leaf Green	167	255	0	0
45	134-135	Dark Green	11	255	2	0
46	136-137	Mauve	255	0	6	0
47	138-141	Bright Pink	255	6	2	0
48	142-144	Medium Blue	0	255	34	0
49	145	Deep Golden Amber	255	17	0	0
50	146	Pale Lavender	228	116	6	0
51	147-148	Special lavender	171	116	6	8
52	149-150	Primary Green	15	255	0	0
53	151-156	Bright Blue	0	255	14	0
54	157-161	Apricot	212	54	0	0
55 56	162-167	Pale Gold	248 255	94 22	0	0
57	168-171 172-173	Deep Orange Bastard Amber	255	108	1	0
58	172-173	Flame Red	255	4	0	0
59	175-178	Daylight Blue	17	255	16	0
60	179	Lilac Tint	255	129	0	14
61	180-183	Deep lavender	255	75	ō	28
62	180-183 184-190	Dark Steel Blue	66	182	0	53
63	191-206	Congo Blue	25	0	255	0
64	207	Alice Blue	49	255	30	0
65	208	Dirty White	255	255	20	255
66	209-255	White	255	255	13	255



RED FINE
GREEN FINE
BLUE FINE
WHITE FINE

UALUE EFFECT

255 UP

0 LOW

♯ LINEAR CTO

UALUE	EFFECT
255	2500K
224	3200K
188	4000K
144	5000K
117	5600K
99	6000K
54	7000K
10 0-9	 8000K 未使用的范围

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

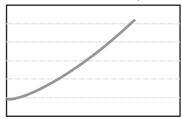
Function

CHANNEL FUNCTION	DMX VALUE		
To activate following functions, stop in DMX value for at least 5 seconds(Use of the light channel):			
Reserved	0-11		
Pan Tilt Fast (Default)	12-24		
Pan Tilt Normal	25-37		
Dimmer Curve 1	38-42		
Dimmer Curve 2	43-47		
Dimmer Curve 3	48-52		
Dimmer Curve 4	53-57		
RGB Gamma curve(gamma=1.0)	58-62		
RGB Gamma curve(gamma=1.5)	63-67		
RGB Gamma curve(gamma=2.0)	68-72		
Activation of the following functions ninth channel linear CTO is automatically shut down			
Halogen Lamp Simulation OFF (Default)	73–77		
Halogen Lamp Simulation,type1 (750W)	78-82		
Halogen Lamp Simulation, type2 (1000W)	83-87		
Halogen Lamp Simulation, type3 (1200W)	88-92		
Halogen Lamp Simulation,type 4 (2000W)	93-97		
Halogen Lamp Simulation,type 5 (2500W)	98-102		
Reserved	103-255		

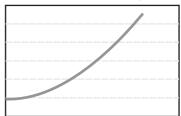
DIMMER CURVE 1 - GAMMA 1 LINEAR



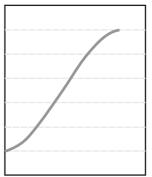
DIMMER CURVE 2 - GAMMA 1,5



DIMMER CURVE 3 - GAMMA 2,0

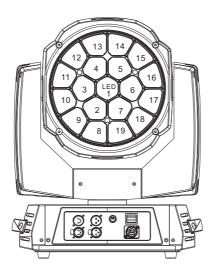


DIMMER CURVE 4 - S

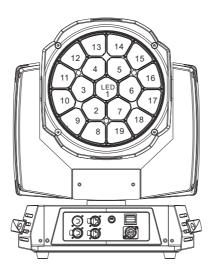


LED reference number for pixel mapping TILT: channel 16 @ 200 bit

Standard edition



Online edition



9. Maintance and cleaning

DANGER: Disconnect from the mains before starting any maintenance work.

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke fluid residues must not buildup on or within the fixture. Otherwise, the fixtures light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably through out its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circum stances should alcohol or solvents be used!

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The gobos may be cleaned with a soft brush, The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.

There are no serviceable parts inside the device except for the lamp and the fuse.

Replacing the fuse: If the lamp burns out, the fine-wire fuse of the device might fuse, too. Only replace the fuse by a fuse of same type and rating. Before replacing the fuse, unplug mains lead.

Maintenance and maintenance of the operation, please contact the manufacturer or distributor.

10. Electric equipment specification

10.1 Electrical paramters

SOURCE: RGBW LED-30W

POWER:650W

VOLTAGE:AC100-240V 50/60HZ

Color Temperature:6500K

10.2 Weight and dimensions

 ${\bf Dimensions: 390X286.5X493.5mm}$

NET WEIGHT: 16Kg

Dimensions (Carton Package): 526X496X596mm

WEIGHT (Carton Package): 22.5Kg

Dimensions (Flight Case -4 lights):1016X650X699mm

NET WEIGHT/WEIGHT (Flight Case -4 lights): 45.6Kg/119.6Kg

10.3 Channel Characteristics

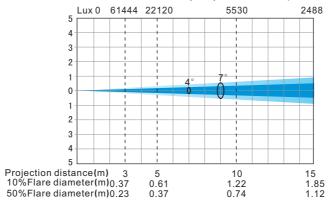
- 1. 21、35、78、97、92 five standard DMX channel model or 21、35 two standard DMX channel model and network control mode optional.
 - 2. Scan: Pan540°, Tilt210°, Fixture could auto reset.
 - 3. Demmer: limear dimmer.
 - 5. Zoom:linear amplifier...
 - 6. Enlarged rotation: Can be 360 $^\circ$ $\,$ degrees clockwise, counterclockwise rotation.
 - 7. 19 RGBW lamp can be controlled separately.
 - 8. The network control mode and DMX control mode have independent control and combined control.
 - 9. Shutter: electronic shutter, random strobe.
 - 10. Focus: linear focus.

10.4 Menu Function

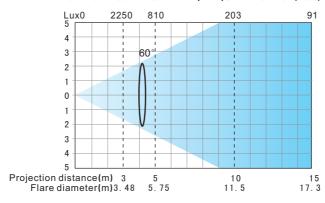
- 1. Touch screen, English menu.
- 2. DMX values and communication quality values can be displayed in each channel. .
- 3. Monitor could ON/OFF automatically.
- 4. Show fixture use time.
- 5. After the DMX signal is disconnected, the display will be bright and dark.
- 6. The screen can be set automatically to flip or hand over.
- 7. Auto error detection.
- 8. Wireless input, wired input, wirelss in/xlr out, ethnet input.
- 9. With DMX software upgrade.
- 10.5 seconds after the DMX signal is disconnected, the amplification is automatically retracted.

10.5 light table

Minimum Zoom with WHITE, RED, GREEN&BLUE (10%-50%)

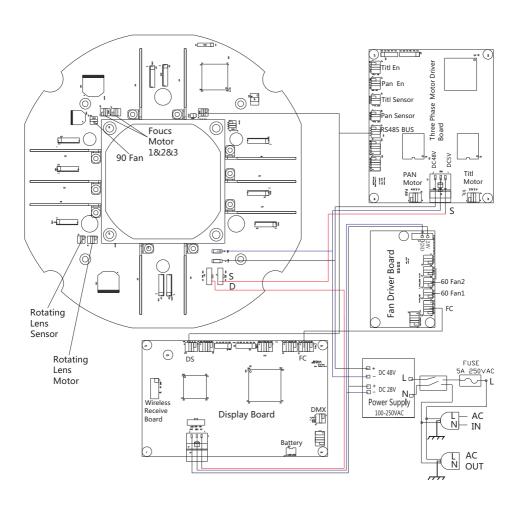


Maximum Zoom with WHITE, RED, GREEN&BLUE(10%)



11. Electronic drawing

Standard edition



Online edition

