

D6-MS

USER MANUAL

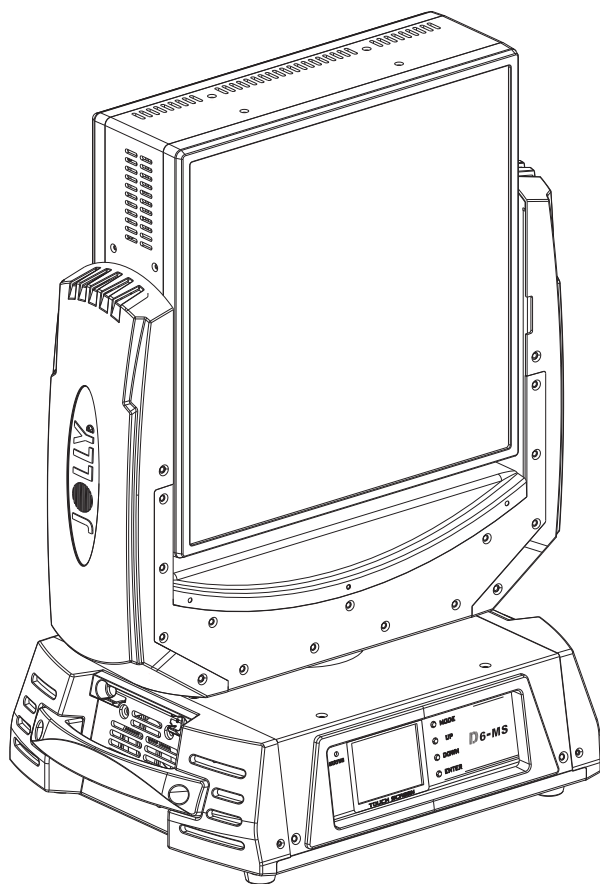


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Congratulations on choosing our products! Please carefully read this instruction manual in its entirety and keep it well for using reference. This manual contained about the installation and the relative using information of this products. Please refer to 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 characteristic with teristic with beauty struture. And it is made accord to CE standard. Fully agree with the international 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 |

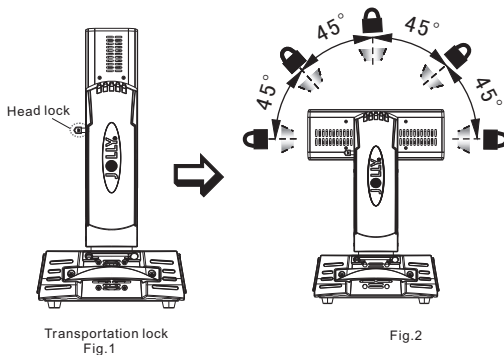
1. 1 Package

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 tilt before operating fixture.

Packing the fixture

- 1.Disconnect the fixture from power and allow it to cool.
- 2.lock head as figure.- Fig.1(Tilt Mechanism Lock and Release (every 45°)- Fig.2)
- 3.Place the fix ture in the bottom of the flight case- Fig.3, and cover the case without forcing.



Transportation lock
Fig.1

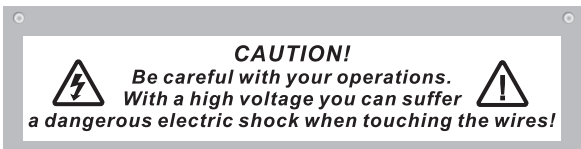
Fig.2

Fig.3

2.Safety instructions

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

- Be qualified
- 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 to ensure 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 sure that the power-switch is set to off-position before you connect with them with particular caution!
- Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device 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)!

LED 0.2

- 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 (8") from the lens of the projector.

t_a 40°C

- Maximum ambient temperature

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

t_c 90°C

- Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, 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



Risk Group 2
According to
EN62471

- 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.

CE

- 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/or shorting 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/recycle 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 has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch 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 lift the fixture by holding it at the projector head, 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 fastened.
- The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explode and emit a high ultraviolet radiation, 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 reasons!
- 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 shock, burns due to ultraviolet radiation, lamp explosion, crash etc.

4. Rigging the fixture

4.1 Mounting



Pay attention to the regulations of CE.

Installation by qualified staff to complete.

☞ 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.

☞ You'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 norms 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 years 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 experience 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 bodily injury and or damage to property.

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

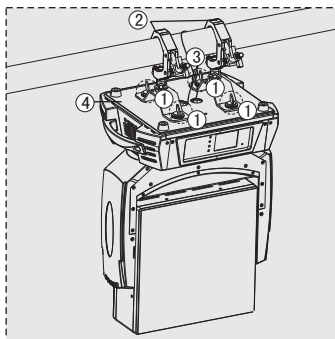
If the projector shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The projector must never be fixed swinging freely in the room.

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 minimum point load of 10 times the projector's weight.

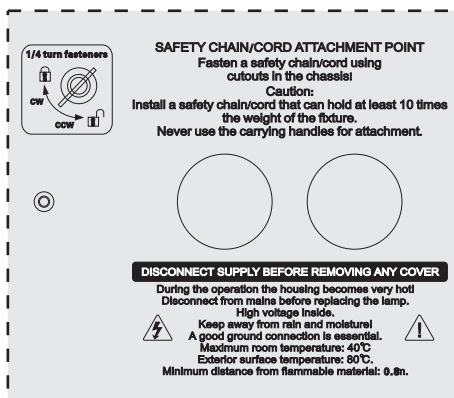
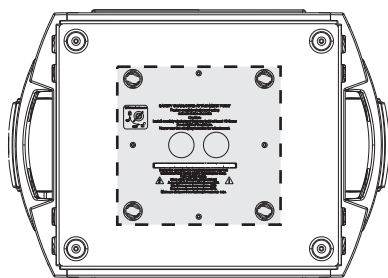
The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

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.



Warning: it is necessary to make sure that the installation location is perfectly appropriate, and the installation location is safe and reliable.

- | | |
|---|----------------|
| ① | Lock catch |
| ② | omega holder |
| ③ | secure chain |
| ④ | mounting plate |

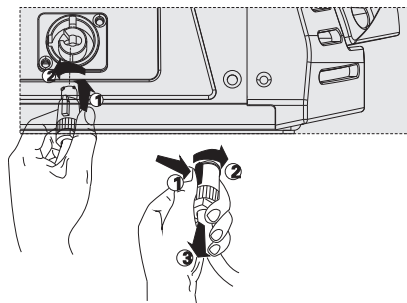


4.3 Power supply connection and cut off

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.

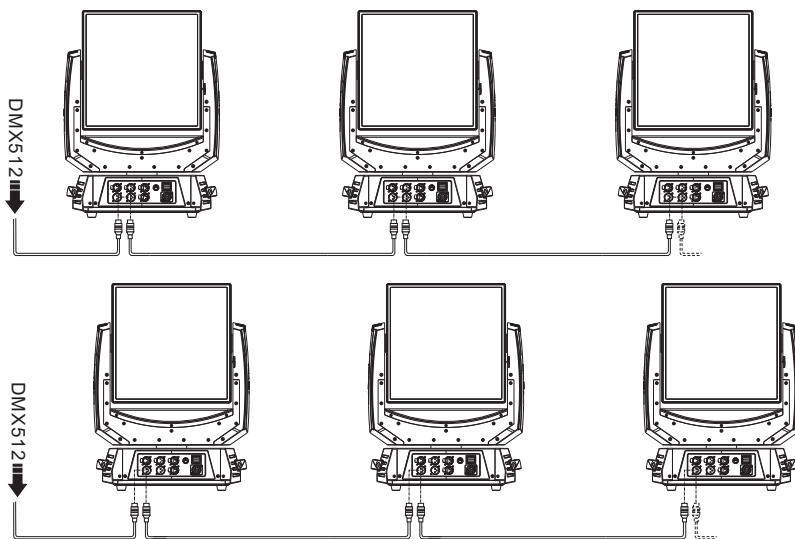


Warning: please verify the power of the power supply equipment prior to the connection! Earth wire must be grounded!

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 shielded cable and 3-pin XLR-plugs and connectors in order to connect.



Caution

At the last fixture, the DMX-cable has to be terminated with a terminator. 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 3-pin XLR socket DMX input 3-pin XLR socket



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

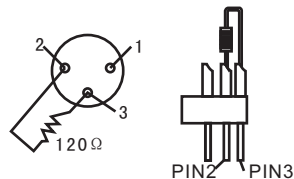
DMX output 5-pin XLR socket DMX input 5-pin XLR socket



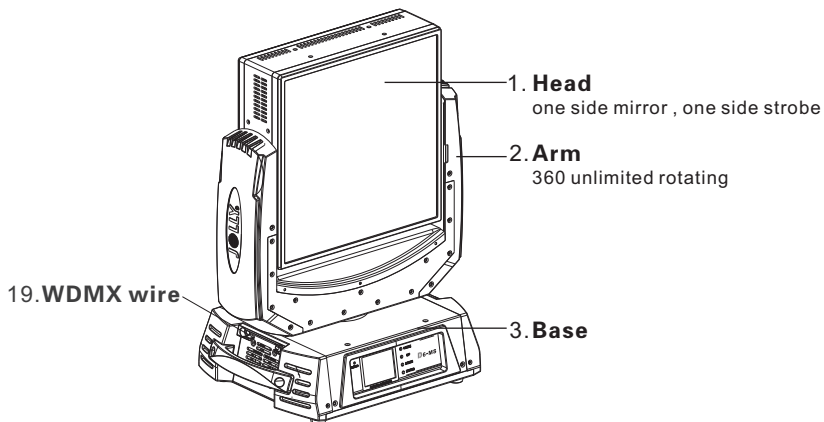
1: Ground
2: Signal (-)
3: Signal (+)
4: N. A.
5: N. A.

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 helps in preventing corruption of the signal by electrical noise. The DMX terminator is simply an XLR plug with a 120Ω resistor connected between pins 2 and pins 3, which is then plugged into the output XLR socket of the last fixture in the chain.

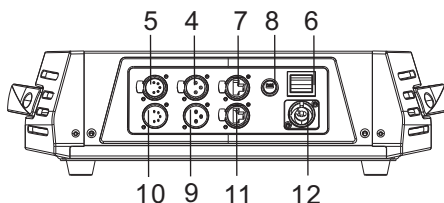


5. Description of the device



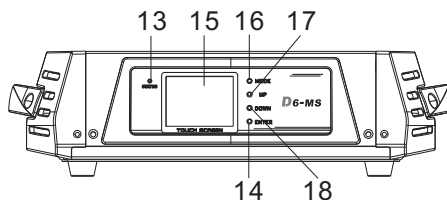
BACK PANEL

- 4. 3-pin XLR female
- 5. 5-pin XLR female
- 6. Power switch
- 7. Network interface
- 8. Insurance seat
- 9. 3-pin XLR male
- 10. 5-pin XLR male
- 11. Network interface
- 12. Power-in

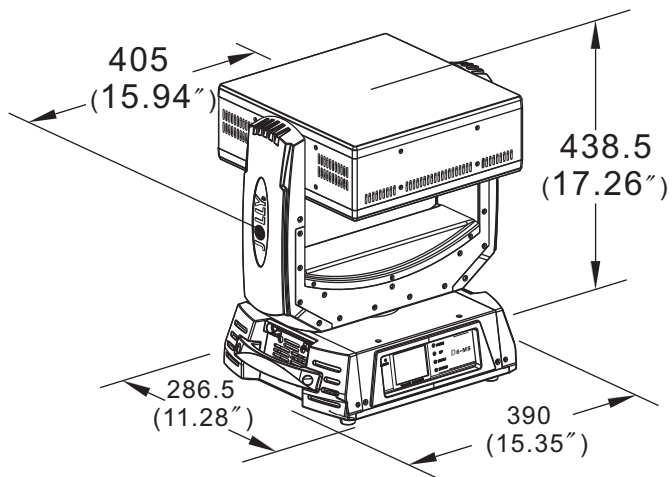
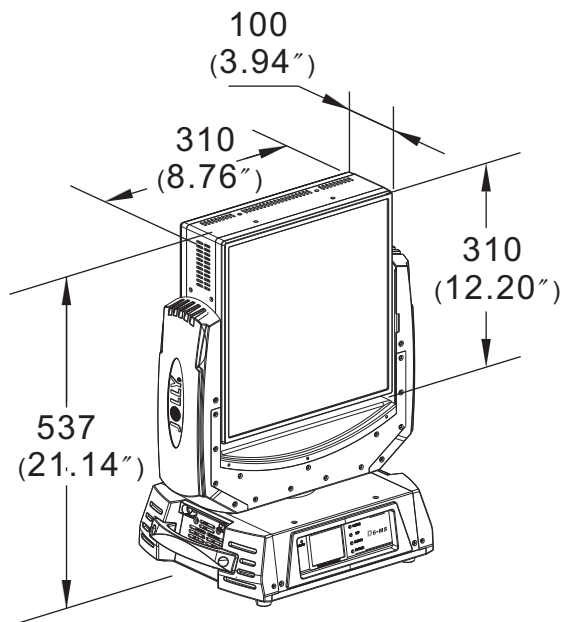


CONTROL PANEL

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



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).

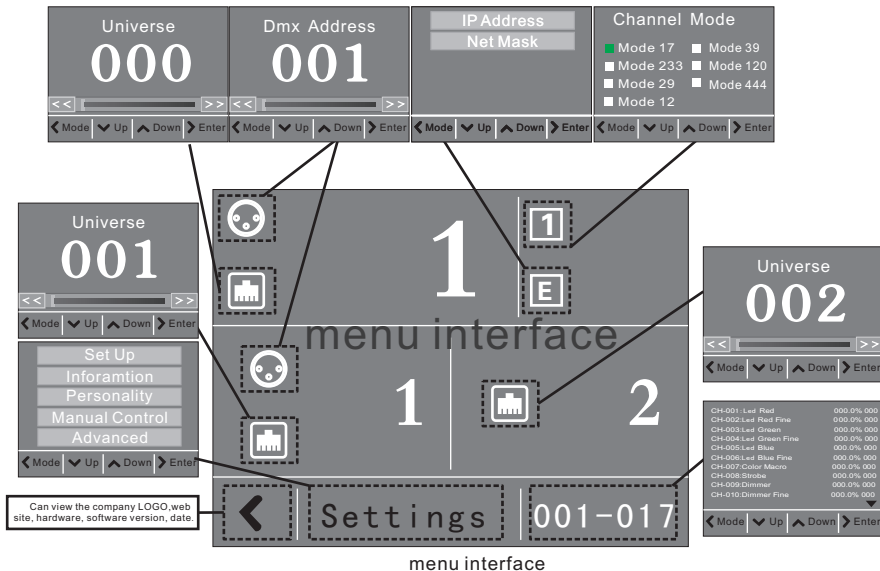
Press the MODE button to return to menu. Set a time 0 to 10 minutes automatically exit menu interface and close the screen.

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



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 MEASUREMENT	NOTE
E01	SpiFlashError	Check the welding of memory IC	RESET ERROR
E02	Program Err 1	Check the welding of Chip	
E03	Program Err 2	Check the welding of master IC EP3C	
E05	MBDInit Error	Check the communication signal 485& 485 chip & memory IC	
E06	Led Init Error	Check main cable ABAB (485) chip	
E07			
E08			
E012	SPDError	Check the welding of master IC	
E013	MFpga Error	Check the communication signal& welding of communication chip	
E017	BD1 BUS Error		
E018	Led BUS Error		
E019			
E020			
E021	Pan FB. Err	Check the light coupling line, optical coupling switch and a plate of the relative position measurement	
E023	Tilt FB. Err		
E022	Pan Zero Err	Check cable of sensor, distance and location of ,magnets and sensor	
E024	Tilt Zero Err		
E076	EthMDL Error	Check the fan of ArtNet、communication signal	

7.3 Menu list

				Remark
Set up	Basic Engine	Universe	0~255	Universe
		DMX Address	1~XXX	Dmx Address
	Strobe Engine	Universe	0~255	Universe
		DMX Address	1~XXX	Dmx Address
	Pixels Engine	Mobe	24X24	default Mode 24x24
			12X12	
			6X6	
			3X3	
		Universe	0~255	
	Fixture Id	0001~9999		Lamps address
	Channel Mode	Mode1	1~17	default Mode1
		Mode2	1~233	
		Mode3	1~29	
		Mode4	1~12	
		Mode5	1~39	
		Mode6	1~120	
		Mode7	1~444	
	Ethernet	IP Address	002.XXX.XXX.XXX	Ethernet Set up
			Confirm	
		NetMask	255.XXX.XXX.XXX	
Information	Fixture Times	XXXXX h XX m		Total working hours
	Lamp Times	LED On Times XXXXh XXm		LED On working hours
		Reset LED Time		Reset LED Time
	Error List			Error details
	Diagnosis	BOARD 1: XX.XX%		Diagnosis
		BOARD 2: XX.XX%		
	Dmx Values			DMX Values
Personality	Fans Monitor			Fans Monitor
	Pan/Tilt	Pan Reverse ON/OFF		Pan Reverse(default OFF)
		Tilt Reverse ON/OFF		Tilt Reverse(default OFF)
		Feedback ON/OFF		Pan/Tilt Auto Switch(default ON)
	Dmx Input	Wired Input		
		Wireless Input		
		Wireless In/XLR out		
		Ethernet Input		
	Screen	Brightness		Brightness
		Screen Time out 0~10m		Screen Time out
		Touch Screen ON/OFF		Touch Screen(default OFF)
		Auto Screen ON/OFF		Auto Screen(default ON)
	Fan Mobe	Auto		default Auto
		High		
Manual Control	Reset	Reset Pan/Tilt		
	Channel			Chanel Testing
	Demo			
Advanced	Calibration	Input Password XXXX		Chanel Adgusting
	Factory Default	ON/OFF		Reset to orignal parameters
	Touch Calibration			Touch screen adjusting

8.DMX protocol

Mode1	Mode2	Mode3	Mode4	Mode5	Mode6	Mode7	Fade Type	Function	Dmx Value
1	1	1	1	1	1	1	LED Red	LED Red 0~100%	0~255
2	2	2					LED Red fine	0~100%	0~255
3	3	3	2	2	2	2	LED Green	LED Green 0~100%	0~255
4	4	4					LED Green fine	0~100%	0~255
5	5	5	3	3	3	3	LED Blue	LED Blue 0~100%	0~255
6	6	6					LED Blue fine	0~100%	0~255
7	7	7	4	4	4	4	Color Macro	Unused range	0~15
8	8	8	5	5	5	5	Strobe	Closed	0~3
								Strobe slow→Fast (1→25 flash/sec)	4~103
								Open	104~107
								Pulsation slow→Fast (0.5→25 flash/sec)	108~207
								Open	208~212
								Random slow strobe	213~225
								Random medium strobe	226~238
								Random fast strobe	239~251
9	9	9	6	6	6	6	Dimmer	Dimmer 0~100%	0~255
10	10	10	7	7	7	7	Dimmer Fine	Dimmer Fine 0~100%	0~255
11	11	11	8	8	8	8	Pan	Pan	0~255
12	12	12					Pan Fine	Pan Fine	0~255
13	13	13	9	9	9	9	Pan Rotation	Pan Rotation	0~255
14	14	14	10	10	10	10	Tilt	Tilt	0~255
15	15	15					Tilt Fine	Tilt Fine	0~255
16	16	16	11	11	11	11	Tilt Rotation	Tilt Rotation	0~255
17	17	17	12	12	12	12	Function	The functions are activated passing through the "unused range" and staying 5 seconds	
								Unused range	0~9
								Strobe Ethernet control on	10~19
								Strobe Ethernet control off	20~29
								Pan/Tilt Reset	30~39
		18					Shape Selection	Unused range	40~255
							Shape Selection	Shape Selection	0~255
		19					Shape Speed	Radius size,Static	0~63
							Shape Speed	max to min speed	64~158
							Shape Speed	Stop	159~160
		20					Shape Fade	min to max speed	161~255
							Shape Fade	Shape Fade 0~100%	0~255
		21					Shape R	Shape R	0~255
		22					Shape G	Shape G	0~255
		23					Shape B	Shape B	0~255
		24					Shape Dimmer	Shape Dimmer 0~100%	0~255
		25					Back Dimmer	Background Dimmer 0~100%	0~255
		26					Shape Offset	Shape Offset	0~255
27		27					Fore Strobe	Closed	0~3
								Strobe slow→Fast (1→25 flash/sec)	4~103
								Open	104~107
								Pulsation slow→Fast (0.5→25 flash/sec)	108~207
								Open	208~212
								Random slow strobe	213~225
								Random medium strobe	226~238
								Random fast strobe	239~251
28		28					Back Strobe	Open	252~255
								Closed	0~3
								Strobe slow→Fast (1→25 flash/sec)	4~103
								Open	104~107
								Pulsation slow→Fast (0.5→25 flash/sec)	108~207
								Open	208~212
								Random slow strobe	213~225
								Random medium strobe	226~238
								Random fast strobe	239~251
								Open	252~255

Mode1	Mode2	Mode3	Mode4	Mode5	Mode6	Mode7	Fade Type	Function	Dmx Value
		29					Back Select	Unused range	0-7
								Unused range	8-23
								Unused range	24-255
	18			13	13	13	Range1 RED	RED	0-255
	19			14	14	14	Range1 GREEN	GREEN	0-255
	20			15	15	15	Range1 BLUE	BLUE	0-255
	21						Range1 Dimmer	Dimmer	0-255
	22						DURATION 1	DURATION	0-255
	23						RATE 1	Unused range	0-5
								4-25flash/sec	6-255
	24			16	16	16	Range2 RED	RED	0-255
	25			17	17	17	Range2 GREEN	GREEN	0-255
	26			18	18	18	Range2 BLUE	BLUE	0-255
	27						Range2 Dimmer	Dimmer	0-255
	28						DURATION 2	DURATION	0-255
	29						RATE 2	Unused range	0-5
								4-25flash/sec	6-255
	.			.	.	.	.		0-255
	.			.	.	.	.		0-255
	.			.	.	.	.		0-255
	.			.	.	.	.		0-255
	66			37	37	37	Range9 RED	RED	0-255
	67			38	38	38	Range9 GREEN	GREEN	0-255
	68			39	39	39	Range9 BLUE	BLUE	0-255
	39						Range9 Dimmer	Dimmer	0-255
	70						DURATION 9	DURATION	0-255
	71						RATE 9	Unused range	0-5
								4-25flash/sec	6-255
	.			.	.	.	.		0-255
	.			.	.	.	.		0-255
	.			.	.	.	.		0-255
	.			.	.	.	.		0-255
	228				118	46	Range36 RED	RED	0-255
	229				119	47	Range36 GREEN	GREEN	0-255
	230				120	48	Range36 BLUE	BLUE	0-255
	231						Range36 Dimmer	Dimmer	0-255
	232						DURATION 36	DURATION	0-255
	233						RATE 36	Unused range	0-5
								4-25flash/sec	6-255
						.	.		0-255
						.	.		0-255
						.	.		0-255
						.	.		0-255
						442	Range144 RED		0-255
						443	Range144 GREEN		0-255
						444	Range144 BLUE		0-255

Function

The functions are activated passing through the "unused range" and staying 5 seconds.

Function	Dmx Value
Unused range	0-9
Strobe Ethernet control on	10-19
Strobe Ethernet control off	20-29
Pan/Tilt Reset	30-39
Unused range	40-255

9. Maintenance 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 build up 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 circumstances 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 parameters

SOURCE: RGB 2304LED-0.2W

POWER: 600W

VOLTAGE: AC100-240V 50/60HZ

10.2 Weight and dimensions

Dimensions : 405X286.5X537mm

NET WEIGHT: 16Kg

Dimensions (Carton Package) : 515X410X650mm

WEIGHT (Carton Package) : 22Kg

Dimensions (Flight Case -2 lights): 800X520X735mm

NET WEIGHT/WEIGHT (Flight Case -2 lights) : 37Kg/74Kg

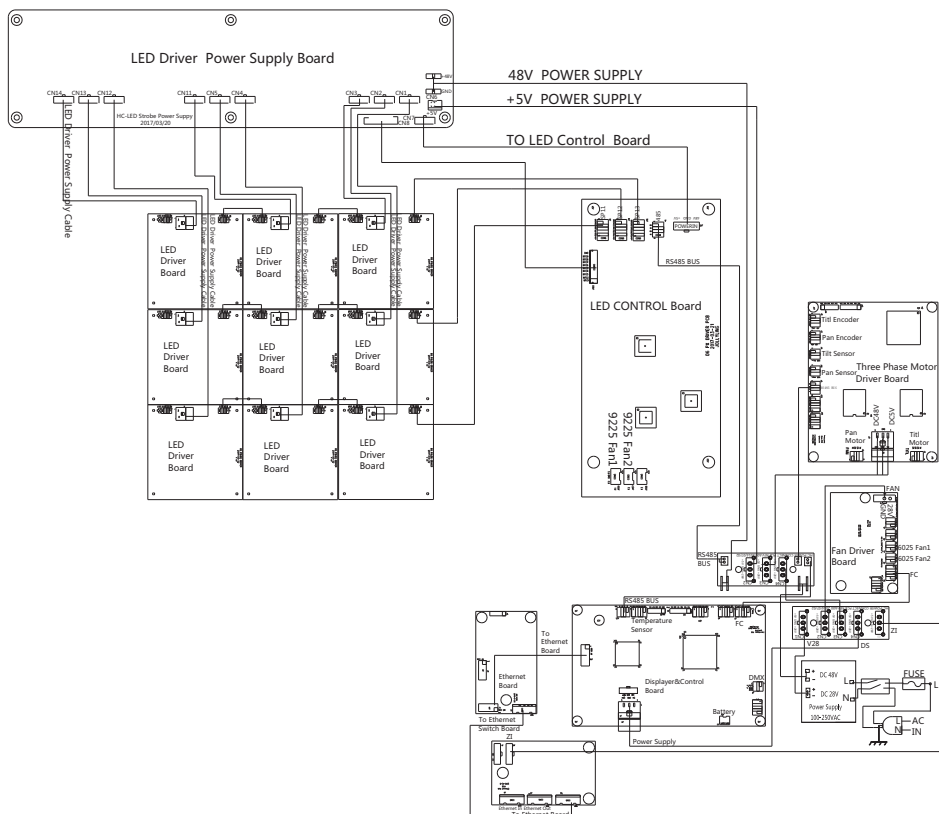
10.3 Channel Characteristics

1. 17/233/29/12/39/120/444 DMX channel model.
2. Scan: Pan、Tilt 360° arbitrary position, 360° rotation, Fixture could auto reset.
3. Shutter: Electronic strobe has slow synchronic, medium asynchrony and fast random modes, with independent foreground and graphic effect.
4. Dimmer: linear dimmer. Independent linear dimming of foreground and background.
5. 3X3、6X6、12X12、24X24 RGB Pixels.
6. Artnet and DMX mode are optional independently.
7. DMX Input mode: Cable connecting, WDMX, WDMX Input and cable Output, Automatic identification of connecting, intelligent selection, no need of manual operation (WDMX and artnet are unable to work simultaneously)

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. Display the time using of lighting feature and lamp as well as the times of turning on for lamp.
5. After the DMX signal is disconnected, the display will be bright and dark.
6. With DMX software upgrade.

11. Electronic drawing



Note: The above contents for reference only and is subject to change without prior notice, please take specification you have on hand and our company reserves the final right of interpretation.



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