LT-1516

USER MANUAL

JOLLY®

Table of content

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 modem times light charac teris-tic 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 be-cause of transportation, and check the following parts:

 1.Signal cable-1PC   2.Safty cable-1PC
 3.User Manval-1PC   4. glare shield-1PCS
 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.

Packing the fixture
1.Disconnect the fixture from power and allow it to cool.
2.Adjust the rotating support ,place it in the box.

2.Safety instructions

Every person involvd with installation and maintenance of this device to:
-Be qualilfied
-Follow the instructions of this manual.

> **CAUTION!**
> *Be careful with your operations.*
> *With a high voltage you can suffer*
> *a dangerous electric shock when touching the wires!*

This device has been shipped with our premises in absolutely perfect condition.In order to maintain this co-ndition 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 p-ower-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)!

➢ 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℃

➢ Maximum ambient temperature
Do not operate the fixture if the ambient temperatuer(Ta) exceeds 40℃ (104℉).

t_c 90℃

➢ Temperature of the external surface
The maximum temperature that can be reached on the external surface of the fitting, in a thermally steadystate, is 90℃ (194℉).

IP 65

➢ IP65 protection rating
Completely prevent external intrusion and dust entering. Avoid the damages to devices of water coming from the nozzle from different directions.

➢ 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.

➢ 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)

$C \in$

➢ 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.

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

> **Pay attention to the regulations of CE.**
>
> **Installation by qualified staff to complete.**
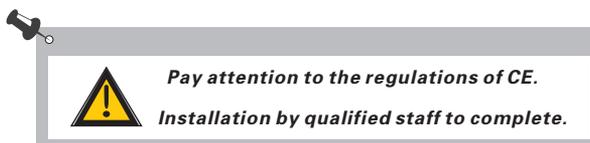
☞For the various mounting positions of the FIXTURE(standing on the floor, sideways or hanging different accessories kits are available.

☞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 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 m ay 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 system s 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.

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

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:

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.

DMX512
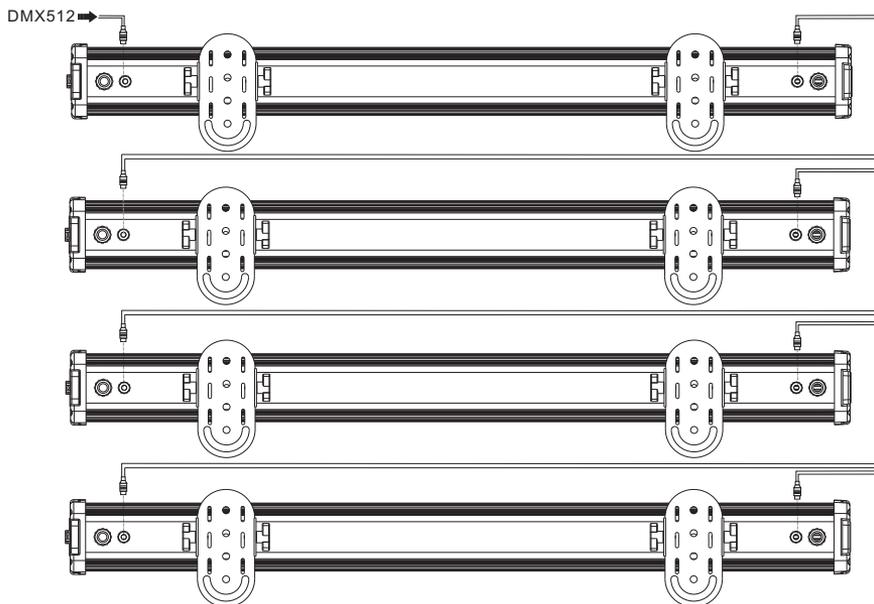
Caution

At the last fixture,the DMX-cable has to be terminated with a terminatou. solder a 120 resistor between signal(-) and Signal (+) into a 5-pin XLR-plug and plug it in the DMX-output of the last fixture.

DMX output   DMX iutput
5-pin XLR socket   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 help in preventing corruption of the signal by electrical noise. The DMX terminato r 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.

120Ω

PIN2   PIN3

– 5 –
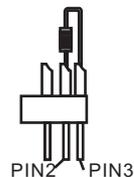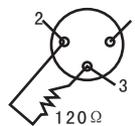
5.Description of the device
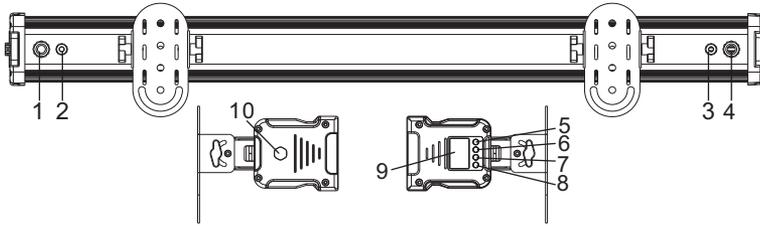
1.Power-In
2.3-pin XLR male
3.3-pin XLR female
4.Power-Out
5.ENTER button
6.DOWN button
7.UP button
8.MODE button
9.LED display
10.Respirator

6.Dimension

153
97

1007

121
108

181
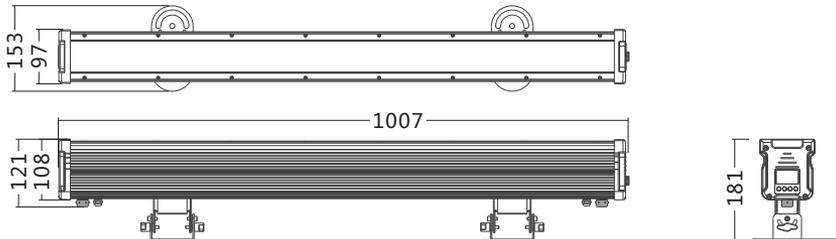
7.Display control

7.1 Navigation in the Menu

Using the buttons, and this can be simply and easily set the address code and function 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 nume-rical (increase or decrease in value).

Press the MODE button to return to menu.

7.2 Display Operation

─When the power on, if the display is flashing, it indicates that the DMX signal connection is unnormal.

─Once powering on, the display indicates as following:

DMXA 001	▮▶ DMX address code
Std.12	▮▶ Mode
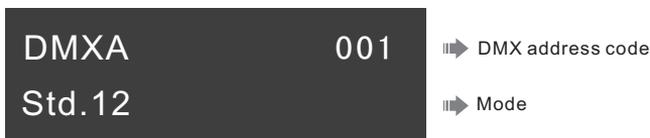
Main interface

CLIKE ENTER OF HOME PAGE TO SELECT:

>Main		>Main
DMX	▮▶	Personality

menu interface

>Main		>Main
Service	◀▮	Stand-Alone

>Main
Information
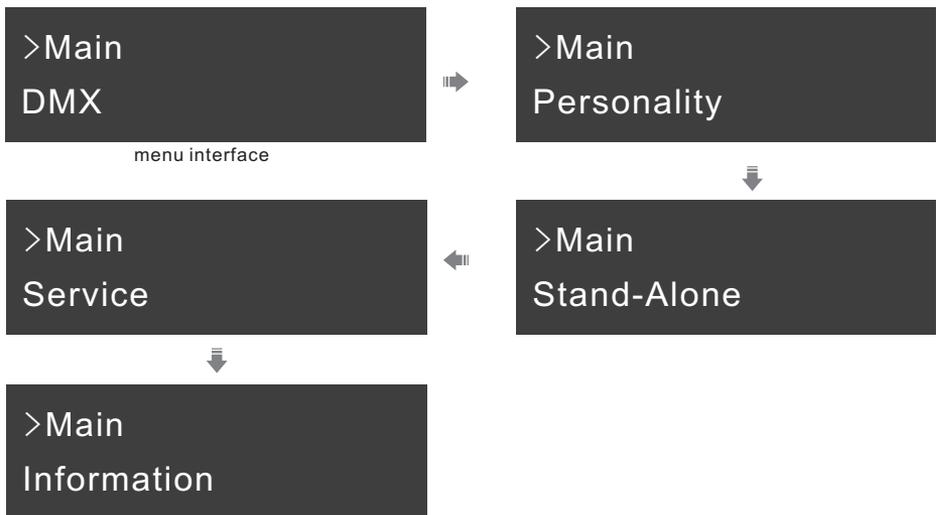
If there is a channel failure in the reset process, the LCD screen will display the corresponding fault information, can be compared to the information content of the lamp to be amended, if in doubt, consult the relevant technical personnel. - (Error List)

CODE #	ERRO INFO	CHECK MEASURMENT	NOTE
E01	SpiErr	Check the welding of memory IC	
E02	PrgErr 1	Upgrade again	RESET ERROR
E03	BD1Err		
E04	BD2Err	Check main cable ABAB（485） chip	
E05	BD3Err		

7.3 Menu Maps

DMX	Adress	1–XXX			
	Mode	Standard – 12 *			
		Advanced – 17			
		Pattern – 27			
		RGBW – 4			
		Easy – – 6			
		Pixel – 76			
		PIX RGBW – 64			
		PIX Dim – 28			
		Rocket–85			
	RDM	On *			
		Off			
	Reset via DMX	ON*/OFF			
	No DMX	Closed *			
		Hold			
		Play P 1			
		Play P 2			
		Play P 3			
	DMX Live	Refresh	xxx Hz		
		Color	0–255		
		Red	0–255		
		Green	0–255		
		Blue	0–255		
		White	0–255		
		Shutter	0–255		
		Dimmer	0–255		
		CTO	0–255		
		Patt	0–255		
		Patt Sp	0–255		
		Patt Fa	0–255		

Personality	**D Curve**	Linear *			
		Theat			
		Square			
		Inv Sq			
	D Speed	Fast *			
		Smooth			
	Dim clk	500 Hz			
		1000 Hz *			
		2000 Hz			
		4000 Hz			
	Display	Shut−off	OFF		
			1 Min *		
			5 Min		
			60 Min		
		No sig fla	ON*		
			OFF		
	Temp U	Celsius *			
		Fahrenh			
	Lock	OFF *			
		ON			
		Password	****	Yes / No	
	Boot	Select	Auto *		
			DMX		
			Static		
			Program		
		DMX Hi P	ON * / OFF		
Stand−Alone	**Test**	Run / Cancel *			
	Master	Alone *			
		Master			
		Slave	Slave 1		
			Slave 2		
			Slave 3		
	Static Mode	C Wheel	0–255		
		Red	0–255		
		Green	0–255		
		Blue	0–255		
		White	0–255		
		Shutter	0–255		
		Dimmer	0–255		
		CTO	0–255		
		Patt	0–255		

Stand–Alone	Static Mode	Patt Sp	0–255	
		Patt Fa	0–255	
		Reset All	Yes	
			No	
	P Edit	Prog 1	Step	01–30
			Capture	Yes / Cancel
			C Wheel	0–255
			Red	0–255
			Green	0–255
			Blue	0–255
			White	0–255
			Shutter	0–255
			Dimmer	0–255
			CTO	0–255
			Reset Al	Yes
				No
			Hold Tim	000–999
			Fade Tim	000–999
		Prog 2	(See above)	
		Prog 3	(See above)	
	P Play	Pro 1		
		Pro 2		
		Pro 3		
	P Reset	Pro 1		
		Pro 2		
		Pro 3		
		Reset All		
Service	Reset	Reset /Cancel		
	Calibrat	Enable		
		Disable *		
		C Offset	Red	0–255
			Green	0–255
			Blue	0–255
			White	0–255
	Factory	No/Yes		
Info	Time	Reset	xxx Hours	
		Total	xxx Hours	
		Clear	Clear / Cancel	
	Temp.	Actual	xxx C / F	
		Max	xxx C / F	
		Reset Max	Cancel/Confirm	
	version	x.x.x.x		
	Fix ID	xxxx		

8.DMX protocol

Standard	Advanced	Pattern	RGBW	Compressed RGBW	Pixel	Compressed Pixel	Pixel Dim	Rocket Mode	Fade Type	Function	Dmx Value
1	1	1			1		1		Colour Wheel	No Function, RGBW Colour mixing	0 – 5
										LEE 790–Moroccan Pink	6–10
										LEE 157–Pink	11–15
										LEE 332–Special Rose Pink	16 – 20
										LEE 328–Follies Pink	21 – 25
										LEE 345–Fuchsia Pink	26 – 30
										LEE 194–Surprise Pink	31 – 35
										LEE 181–Congo Blue	36 – 40
										LEE 071–Tokyo Blue	41 – 45
										LEE 120–Deep Blue	46 – 50
										LEE 079–Just Blue	51 – 55
										LEE 132–Medium Blue	56 – 60
										LEE 200–Double CT Blue	61 – 65
										LEE 161–Slate Blue	66 – 70
										LEE 201–Full CT Blue	71 – 75
										LEE 202–Half CT Blue	76 – 80
										LEE 117–Steel Blue	81 – 85
										LEE 353–Lighter Blue	86 – 90
										LEE 118–Light Blue	91 – 95
										LEE 116–Medium Blue Green	96 – 100
										LEE 124–Dark Green	101 – 105
										LEE 139–Primary Green	106 – 110
										LEE 089–Moss Green	111 – 115
										LEE 122–Fern Green	116 – 120
										LEE 738–JAS Green	121 – 125
										LEE 088–Lime Green	126 – 130
										LEE 100–Spring Yellow	131 – 135
										LEE 104–Deep Amber	136 – 140
										LEE 179–Chrome Orange	141 – 145
										LEE 105–Orange	146 – 150
										LEE 021–Gold Amber	151 – 155
										LEE 778–Mellennium Gold	156 – 160
										LEE 135–Deep Golden Amber	161 – 165
										LEE 164–Flame Red	166 – 170
										Colourwheel rotation effects	
										Coulourwheel rotation forward (fast – slow)	171 – 185
										Coulourwheel rotation stop	186 – 190
										Coulourwheel rotation backward (fast – slow)	191 – 205
										Coulourwheel rotation stop	206 – 210
										Random colours	
										Fast –	211 – 225
										White hue	
										Tungsten Simulation	226 – 230
										Warm white – 3200K	231 – 235
										Neutral white – 4200K	236 – 240
										Cold white – 5600K	241 – 245
										Cold white – 7200K	246 – 250
										Cold white – 8000K	251 – 255
2	2	2	1	1	2		2		Red	Red 0–100%	0 – 255
	3									Red fine	Red fine 0–100%	0 – 255
3	4	3	2	2	3		3		Green	Green 0–100%	0 – 255
	5									Green fine	Green fine 0–100%	0 – 255
4	6	4	3	3	4		4		Blue	Blue 0–100%	0 – 255
	7									Blue fine	Blue fine 0–100%	0 – 255
5	8	5	4	4	5		5		White	White 0–100%	0 – 255
	9									White fine	White fine 0–100%	0 – 255
6	10	6		5	6		6	65	Shutter effects	Shutter Closed	0–15
										Random Strobe (slow –	16–47
										Ramp Up (slow –	48–79
										Ramp Down (slow –	80–111
										Ramp UP & down (slow –	112–143
										Strobe Pause 5s –	144–199
										Strobe 1Hz –	200–239
										Shutter Open	240–255
7	11	7		6	7		7	66	Dimmer	Dimmer 0–100%	0 – 255
	12				8				Dimmer fine	Dimmer fine 0–100%	0 – 255
8	13	8			9		8		CTO	CTO	0 – 255
9	14		10		10		9		Pattern	Pattern	0 – 255
10	15		11		11		10		Pattern Speed	Pattern Speed 0–100%	0 – 255
11	16						11		Pattern Fade	Pattern Fade 0–100%	0 – 255
		9						68	Pattern 1	Pattern 1	0 – 255

Standard	Advanced	Pattern	RGBW	Compressed RGBW	Pixel	Compressed Pixel	Pixel Dim	Rocket Mode	Fade Type	Function	Dmx Value
		10						69	Pattern 1 Speed	Pattern 1 Speed 0–100%	0 – 255
		11						70	Pattern 1 Fade	Pattern 1 Fade 0–100%	0 – 255
		12						71	Pattern 1 Red	Pattern 1 Red 0–100%	0 – 255
		13						72	Pattern 1 Green	Pattern 1 Green 0–100%	0 – 255
		14						73	Pattern 1 Blue	Pattern 1 Blue 0–100%	0 – 255
		15						74	Pattern 1 White	Pattern 1 White 0–100%	0 – 255
		16						75	Pattern 1 Shutter	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 STROBE (slow – fast)	213–251
										Shutter Open	252–255
		17						76	Pattern 1 Dimmer	Pattern 1 Dimmer 0–100%	0 – 255
		18						77	Pattern 2	Pattern 2	0 – 255
		19						78	Pattern 2 Speed	Pattern 2 Speed 0–100%	0 – 255
		20						79	Pattern 2 Fade	Pattern 2 Fade 0–100%	0 – 255
		21						80	Pattern 2 Red	Pattern 2 Red 0–100%	0 – 255
		22						81	Pattern 2 Green	Pattern 2 Green 0–100%	0 – 255
		23						82	Pattern 2 Blue	Pattern 2 Blue 0–100%	0 – 255
		24						83	Pattern 2 White	Pattern 2 White 0–100%	0 – 255
		25						84	Pattern 2 Shutter	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 STROBE (slow – fast)	213–251
										Shutter Open	252–255
		26						85	Pattern 2 Dimmer	Pattern 2 Dimmer 0–100%	0 – 255
12	17	27			12		12	67	Control	Reserved	0 – 55
										Dimmer Speed: Smooth	56 – 60
										Dimmer Speed: Fast	61 – 65
										Reserved	66 – 70
										Dimmer Curve: Linear	71 – 75
										Dimmer Curve: Threatrical	76 – 80
										Dimmer Curve: Sqaure Law	81 – 85
										Dimmer Curve: Inverse Sqaure Law	86 – 90
										Reserved	91 – 95
										No DMX: Hold	96 – 100
										No DMX: Shutter Closed	101 – 105
										No DMX: Play Program 1	106 – 110
										Reserved	111 – 115
										Display Backlight: On	116 – 120
										Display Backlight: Off	121 – 125
										Reserved	126 – 135
										DMX Mode: Standard	136 – 140
										DMX Mode: Advanced	141 – 145
										DMX Mode: Pattern	146 – 150
										DMX Mode: Pixel	151 – 155
										DMX Mode: Compressed Pixel	156 – 160
										DMX Mode: Pixel Dim	161 – 165
										DMX Mode: Rocket Mode	166 – 170
										Reserved	171 – 180
										Fixture Reset	181 – 185
										Factory default(except DMX Address & Mode)	186 – 190
										Reserved	191 – 200
										PWM Rate: 600 Hz	201 – 205
										PWM Rate: 1200 Hz	206 – 210
										PWM Rate: 2000 Hz	211 – 215
										PWM Rate: 2400 Hz	216 – 220
										PWM Rate: 6000 Hz	221 – 225
										Reserved	226 – 230
										Boot Mode: Auto	231 – 235
										Boot Mode: DMX	236 – 240
										Boot Mode: Program Play	241 – 245
										Boot Mode: Static	246 – 250
										Reserved	251 – 255
					13	1		1	Red 1	Red 1 0–100%	0 – 255
					14	2		2	Green 1	Green 1 0–100%	0 – 255
					15	3		3	Blue 1	Blue 1 0–100%	0 – 255
					16	4		4	White 1	White 1 0–100%	0 – 255
					17	5		5	Red 2	Red 2 0–100%	0 – 255
					18	6		6	Green 2	Green 2 0–100%	0 – 255
					19	7		7	Blue 2	Blue 2 0–100%	0 – 255

Standard	Advanced	Pattern	RGBW	Compressed RGBW	Pixel	Compressed Pixel	Pixel Dim	Rocket Mode	Fade Type	Function	Dmx Value
					20	8		8	White 2	White 2 0–100%	0 – 255
					21	9		9	Red 3	Red 3 0–100%	0 – 255
					22	10		10	Green 3	Green 3 0–100%	0 – 255
					23	11		11	Blue 3	Blue 3 0–100%	0 – 255
					24	12		12	White 3	White 3 0–100%	0 – 255
					25	13		13	Red 4	Red 4 0–100%	0 – 255
					26	14		14	Green 4	Green 4 0–100%	0 – 255
					27	15		15	Blue 4	Blue 4 0–100%	0 – 255
					28	16		16	White 4	White 4 0–100%	0 – 255
					29	17		17	Red 5	Red 5 0–100%	0 – 255
					30	18		18	Green 5	Green 5 0–100%	0 – 255
					31	19		19	Blue 5	Blue 5 0–100%	0 – 255
					32	20		20	White 5	White 5 0–100%	0 – 255
					33	21		21	Red 6	Red 6 0–100%	0 – 255
					34	22		22	Green 6	Green 6 0–100%	0 – 255
					35	23		23	Blue 6	Blue 6 0–100%	0 – 255
					36	24		24	White 6	White 6 0–100%	0 – 255
					37	25		25	Red 7	Red 7 0–100%	0 – 255
					38	26		26	Green 7	Green 7 0–100%	0 – 255
					39	27		27	Blue 7	Blue 7 0–100%	0 – 255
					40	28		28	White 7	White 7 0–100%	0 – 255
					41	29		29	Red 8	Red 8 0–100%	0 – 255
					42	30		30	Green 8	Green 8 0–100%	0 – 255
					43	31		31	Blue 8	Blue 8 0–100%	0 – 255
					44	32		32	White 8	White 8 0–100%	0 – 255
					45	33		33	Red 9	Red 9 0–100%	0 – 255
					46	34		34	Green 9	Green 9 0–100%	0 – 255
					47	35		35	Blue 9	Blue 9 0–100%	0 – 255
					48	36		36	White 9	White 9 0–100%	0 – 255
					49	37		37	Red 10	Red 10 0–100%	0 – 255
					50	38		38	Green 10	Green 10 0–100%	0 – 255
					51	39		39	Blue 10	Blue 10 0–100%	0 – 255
					52	40		40	White 10	White 10 0–100%	0 – 255
					53	41		41	Red 11	Red 11 0–100%	0 – 255
					54	42		42	Green 11	Green 11 0–100%	0 – 255
					55	43		43	Blue 11	Blue 11 0–100%	0 – 255
					56	44		44	White 11	White 11 0–100%	0 – 255
					57	45		45	Red 12	Red 12 0–100%	0 – 255
					58	46		46	Green 12	Green 12 0–100%	0 – 255
					59	47		47	Blue 12	Blue 12 0–100%	0 – 255
					60	48		48	White 12	White 12 0–100%	0 – 255
					61	49		49	Red 13	Red 13 0–100%	0 – 255
					62	50		50	Green 13	Green 13 0–100%	0 – 255
					63	51		51	Blue 13	Blue 13 0–100%	0 – 255
					64	52		52	White 13	White 13 0–100%	0 – 255
					65	53		53	Red 14	Red 14 0–100%	0 – 255
					66	54		54	Green 14	Green 14 0–100%	0 – 255
					67	55		55	Blue 14	Blue 14 0–100%	0 – 255
					68	56		56	White 14	White 14 0–100%	0 – 255
					69	57		57	Red 15	Red 15 0–100%	0 – 255
					70	58		58	Green 15	Green 15 0–100%	0 – 255
					71	59		59	Blue 15	Blue 15 0–100%	0 – 255
					72	60		60	White 15	White 15 0–100%	0 – 255
					73	61		61	Red 16	Red 16 0–100%	0 – 255
					74	62		62	Green 16	Green 16 0–100%	0 – 255
					75	63		63	Blue 16	Blue 16 0–100%	0 – 255
					76	64		64	White 16	White 16 0–100%	0 – 255
							13		Dimmer 1	Dimmer 1 0–100%	0 – 255
							14		Dimmer 2	Dimmer 2 0–100%	0 – 255
							15		Dimmer 3	Dimmer 3 0–100%	0 – 255
							16		Dimmer 4	Dimmer 4 0–100%	0 – 255
							17		Dimmer 5	Dimmer 5 0–100%	0 – 255
							18		Dimmer 6	Dimmer 6 0–100%	0 – 255
							19		Dimmer 7	Dimmer 7 0–100%	0 – 255
							20		Dimmer 8	Dimmer 8 0–100%	0 – 255
							21		Dimmer 9	Dimmer 9 0–100%	0 – 255
							22		Dimmer 10	Dimmer 10 0–100%	0 – 255
							23		Dimmer 11	Dimmer 11 0–100%	0 – 255
							24		Dimmer 12	Dimmer 12 0–100%	0 – 255
							25		Dimmer 13	Dimmer 13 0–100%	0 – 255
							26		Dimmer 14	Dimmer 14 0–100%	0 – 255
							27		Dimmer 15	Dimmer 15 0–100%	0 – 255
							28		Dimmer 16	Dimmer 16 0–100%	0 – 255

9.Maintance and cleaning

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

Ballast
Please change timely when each pin is getting yellow.

Be sure to maintain the device every 2 months, and make sure that all parts of the ballast, such as, scre-ws, terminals, are locked well to ensure performance. Neglecting of maintenance may lead to failure of devices.

Lamp
Turn off the lamp first to better protect the device when the fixture is turned off. Turn off the power after running for at least 5 minutes

Don't touch the bulb with your hands. Once contacting with your hands, scrub with alcohol and then dry with linen.

When the light is on, the bulb runs at high pressure,so there is a risk of broken.It is related to the duration of using, temperature and unreasonable operation. Therefore, please do not use lamp over the life span.

The using of lamp should not exceed 10000 hours,otherwise it can damage device.Check the running time of the fixure regularly. When the lamp is used around 10000 hours,We strongly recommend that you change the lamp. After replacing it, the used time of lamp can be removed and reset.

Avoid operating in dirty and dusty environment, clean and maintain lamps regularly. Wipe the outside of the lens at least every 20 days. Wipe the internal fan at least every 30 days

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,reduc-ing 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 annua-lly usinga vacuum-cleaner or an air-jet.

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

Please disconnect the power supply before replacing the fuse and bulb. When replacing them, adopt the same mode.

10.Electric equipment specification

10.1 Electrical paramters

SOURCE:RGBW 16 LED-15W 4IN1

POWER:260W

VOLTAGE:AC100-240V 50/60HZ

Color temperature：6500K(W)

10.2 Weight and dimensions

Dimensions : 1009X153X181mm

NET WEIGHT:7.5Kg

Dimensions（Carton package）: 1090X300X183mm

WEIGHT（Carton package）: 11Kg

10.3 Channel Characteristics

1.Channel:12、17、27、4、6、76、64、28、85 DMX-512.

2.Demmer: limear dimmer.

3.Shutter: electronic shutter, random strobe.

4.LED individual control, preseting automatical temperature control system.

10.4 Menu Function

1.Each DMX Value displayable.

2.Display the time using of lighting feature and lamp as well as the times of turning on for lamp.

3.After the DMX signal is disconnected, the display will be bright and dark.

4.Software upgrade function.

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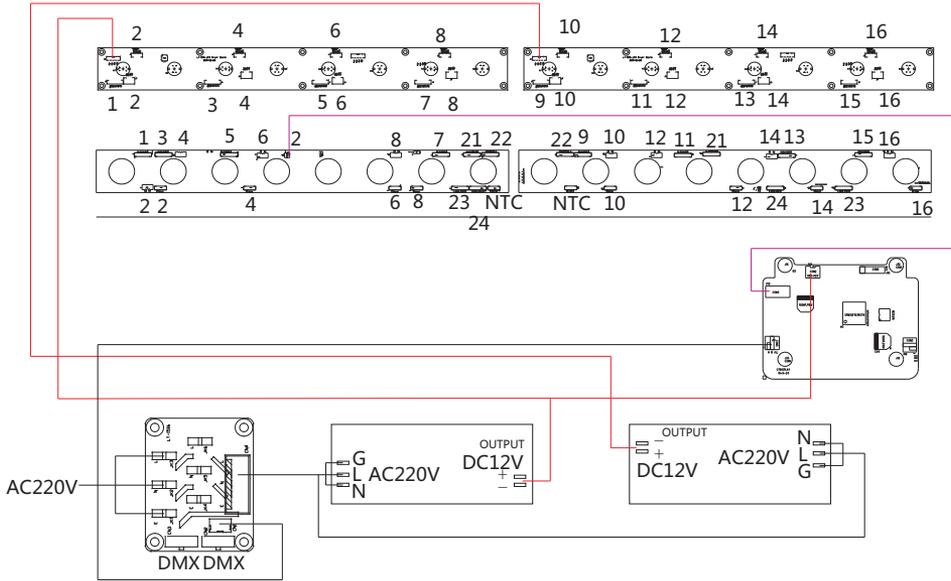
Note: The above contents for reference only and is subject to change without prior notice, please take specification you have on hand and our company reserves the final right of interpretation.

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