LT-1220

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. Power cable-1PC
 5.Service card-1PC   6.Omega bracket-2PCS

1.1 Package

Unpacking the fixture

1.Open the flight case cover.

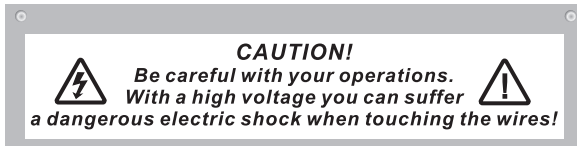2.With one person on each side, lift the fixture out of the flight case.

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 0.80 metres from the lens of the projector.

➤Maximum ambient temperature
Do not operate the fixture if the ambient temperatuer(Ta) exceeds 45℃ (113℉).

➤Temperature of the external surface
The maximum temperature that can be reached on the external surface of the fitting,in a thermally steadystate, is 80℃ (176℉).

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

➤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 :
•Safety of electrical equipment supplied at low voltage (LVD)
   EN 60598-1:2015
   EN 60598-2-17:1989+A2:1991
•Electromagnetic Compatibility (EMC)
   EN55015:2013/A1:2015
   EN 61000-3-2:2014
   EN 61000-3-3:2013
   EN61547:2019

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.

t$_a$ 45℃

t$_c$ 80℃

IP 65

Risk Group 2
According to
En62471

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 ex-plose 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 qua-lified 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-circ-uit,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 car-ried 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 wei-ght 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 an-other 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 ma-terial and the projector. If you lack these qualifications, do not attempt the installation yourself, but inste-ad 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 alte-ring 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
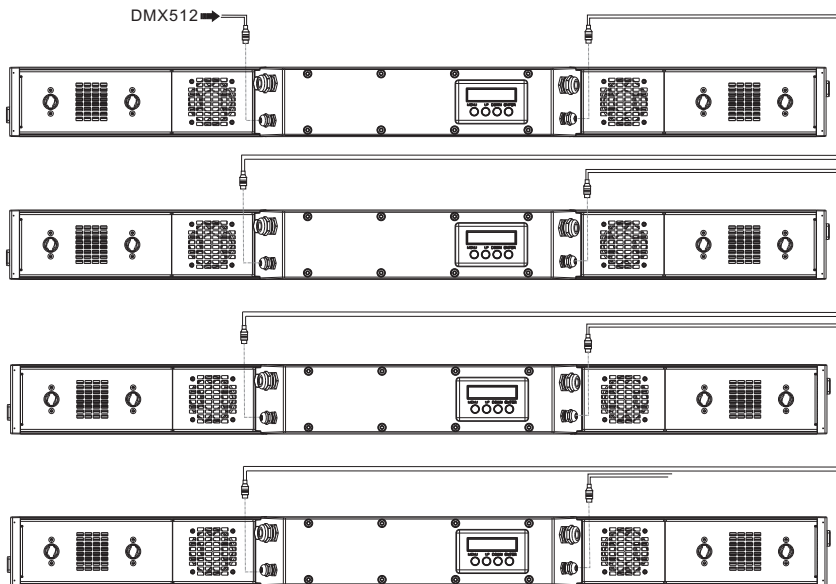
Max loop 3 fixture at 110V, Max loop 6 fixture at 240V.

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   3-pin XLR socket

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

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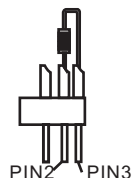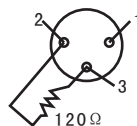
5.Description of the device
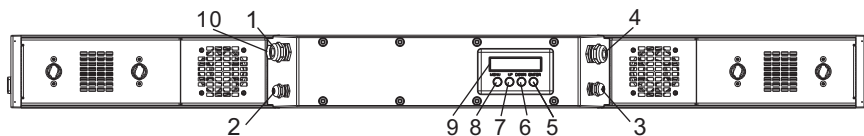
1.Power-In
2.3-pin XLR male
3.3-pin XLR female
4.Power-Out
5.ENTER button
6.DOWN button
7.UP button
8.MODE button
9.LED display
10.Respirator

1.25° lens.
2.6°/15°/45°/60° lens(Optional).

6.Dimension

85mm

1008mm

166mm
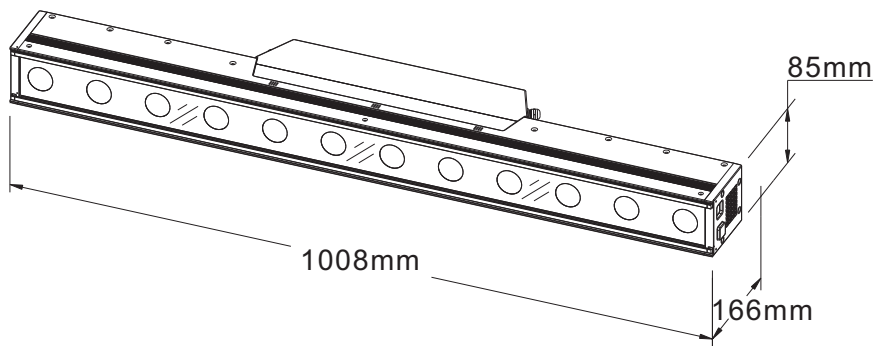
7.Display control

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 numerical (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 |

– 7 –
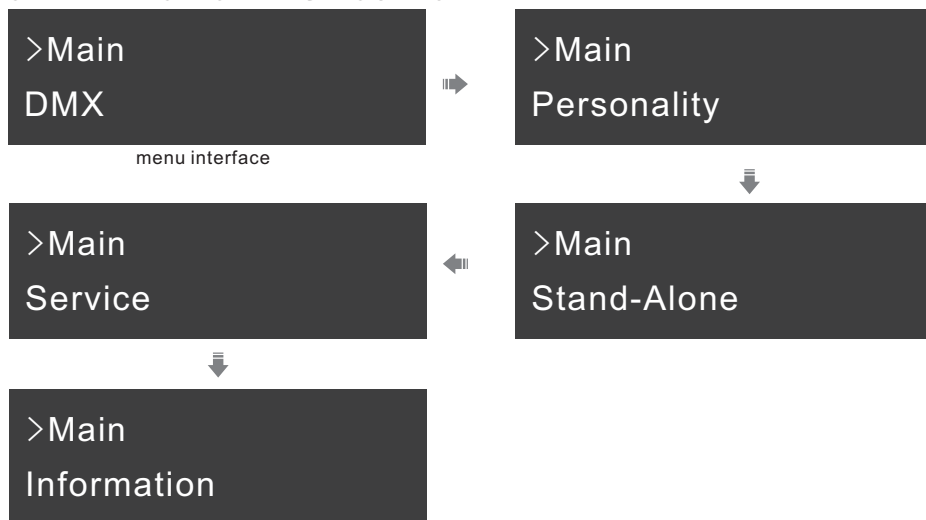
7.3 Menu Maps

DMX	Adress	1–XXX		
	Mode	Standard – 13*		
		Advanced – 32		
		Pixel – 61		
		Compressed RGBW – 5		
	RDM	ON*/OFF		
	Reset via DMX	ON*/OFF		
	No DMX	Shutter/Closed*		
		Hold		
		Play Program 1 / 2 / 3		
	W–DMX	W–DMX Enable	OFF*	
			ON	
		WirelessToDmx	OFF*	
			ON	
	DMX Live	Refresh rate	xxx Hz	
		Color Wheel	0–255	
		Red	0–255	
		Green	0–255	
		Blue	0–255	
		White	0–255	
		Shutter	0–255	
		Dimmer	0–255	
		CTO	0–255	
		Pattern	0–255	
		Pattern Speed	0–255	
		Pattern Fade	0–255	
Personality	Dimmer Curve	Linear		
		Theatrical		
		Square Law *		
		Inverse Square		
	Dimmer Speed	Fast*		
		Smooth		
	PWM	600 Hz		
		1200 Hz*		
		2400 Hz		
		4800 Hz		
		9600 Hz		
	Display Setting	Shut–off time	Off	
			1 minute*	
			5 minute	
			60 minute	
		No signal flash	On*/Off	
		Flip Display	Auto	
			Off*	
			On	
	Temperature Unit	Celsius*		
		Fahrenheit		
	Lock	Off*		
		ON		
		Set password	****	Yes/NO
	Boot mode	Select Mode	Auto*	
			DMX	
			Static	

Personality	Boot mode	Select Mode	Play Program	
		DMX High Priority	ON*/Off	
	Reverse LED	Off*/ON		
Stand–Alone	Test Sequence	Run/Cancel		
	Master/Slave	Alone*		
		Master		
		Slave	Slave 1/2/3	
	Static Mode	Color Wheel	0–255	
		Red	0–255	
		Green	0–255	
		Blue	0–255	
		White	0–255	
		Shutter	0–255	
		Dimmer	0–255	
		CTO	0–255	
		Pattern	0–255	
		Pattern Speed	0–255	
		Pattern Fade	0–255	
		Reset All	Yes/No	
	Program Edit	Program 1	Select Step	01–30
			Capture DMX	Yes/Cancel
			Color 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 All	Yes/NO
			Hold Time	000–999
			Fade Time	000–999
		Program 2/3	(See above)	
	Program Play	Program 1/2/3		
	Program Reset	Program 1/2/3/All		
Service	Reset	Fixture Reset	Reset/Cancel	
	LED Calibration (Password:xxxx)	Color Min.	Red	0–255 (0*)
			Green	0–255 (0*)
			Blue	0–255 (0*)
			White	0–255 (0*)
		Color Max.	Red	0–255 (255*)
			Green	0–255 (255*)
			Blue	0–255 (255*)
			White	0–255 (255*)
		LED Protect	0–255 (100*)	
	Factory Default	NO/Yes		
Information	Fixture time	Resettable	xxx H xxM	
		Total	xxx H xxM	
		Clear Resettable	Clear/Cancel	
	Fixture Temp.	Actual	xxx C/F	
		Max	xxx C/F	
		Reset Max	Cancel/Confirm	
	Firmware version	x.x.x.x		
	Serial Number	Password：xxxx	xxxxxx	

8.DMX protocol

Standard	Advanced	Pixel	Compressed RGBW	Fade Type	Function	Dmx Value
1	1	1	*	Color 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 – slow	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	Red	Red 0–100%	0 – 255
*	3	3	*	Red fine	Red fine 0–100%	0 – 255
3	4	4	2	Green	Green 0–100%	0 – 255
*	5	5	*	Green fine	Green fine 0–100%	0 – 255
4	6	6	3	Blue	Blue 0–100%	0 – 255
*	7	7	*	Blue fine	Blue fine 0–100%	0 – 255

Standard	Advanced	Pixel	Compressed RGBW	Fade Type	Function	Dmx Value
5	8	8	4	White	White 0–100%	0 – 255
*	9	9	*	White fine	White fine 0–100%	0 – 255
6	10	10	*	Shutter	Shutter Closed	0 – 15
					Random Strobe (slow–fast)	16 – 47
					Ramp Up (slow–fast)	48 – 79
					Ramp Down (slow–fast)	80 – 111
					Ramp UP & down (slow–fast)	112 – 143
					Strobe Pause 5s –1s (slow–fast)	144 – 199
					Strobe 1Hz –20 Hz (slow–fast)	200 – 239
					Shutter Open	240 – 255
7	11	11	*	Dimmer	Dimmer 0–100%	0 – 255
8	12	12	*	Dimmer fine	Dimmer fine 0–100%	0 – 255
9	13	13	*	CTO	CTO	0 – 255
10	14	*	*	Pattern 1	No Effect	0 – 5
					Static Pattern	6 – 61
					No Effect	62 – 79
					Animated Pattern	80 – 163
					Random Pixel	164 – 179
					No Effect	180 – 255
11	15	*	*	Pattern 1 Speed	Pattern 1 Speed 0–100%	0 – 255
12	16	*	*	Pattern 1 Fade	Pattern 1 Fade 0–100%	0 – 255
*	17	*	*	Pattern 1 Red	Pattern 1 Red 0–100%	0 – 255
*	18	*	*	Pattern 1 Green	Pattern 1 Green 0–100%	0 – 255
*	19	*	*	Pattern 1 Blue	Pattern 1 Blue 0–100%	0 – 255
*	20	*	*	Pattern 1 White	Pattern 1 White 0–100%	0 – 255
*	21	*	*	Pattern 1 Shutter	Pattern Shutter	0 – 255
*	22	*	*	Pattern 1 Dimmer	Pattern 1 Dimmer 0–100%	0 – 255
*	23	*	*	Pattern 2	No Effect	0 – 5
					Static Pattern	6 – 61
					No Effect	62 – 79
					Animated Pattern	80 – 163
					Random Pixel	164 – 179
					No Effect	180 – 255
*	24	*	*	Pattern 2 Speed	Pattern 2 Speed 0–100%	0 – 255
*	25	*	*	Pattern 2 Fade	Pattern 2 Fade 0–100%	0 – 255
*	26	*	*	Pattern 2 Red	Pattern 2 Red 0–100%	0 – 255
*	27	*	*	Pattern 2 Green	Pattern 2 Green 0–100%	0 – 255
*	28	*	*	Pattern 2 Blue	Pattern 2 Blue 0–100%	0 – 255
*	29	*	*	Pattern 2 White	Pattern 2 White 0–100%	0 – 255
*	30	*	*	Pattern 2 Shutter		0 – 255
*	31	*	*	Pattern 2 Dimmer	Pattern 1 Dimmer 0–100%	0 – 255
13	32	*	5	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

Standard	Advanced	Pixel	Compressed RGBW	Fade Type	Function	Dmx Value
13	32	*	5	Control	Reserved	126 – 135
					DMX Mode: Standard	136 – 140
					DMX Mode: Advanced	141 – 145
					DMX Mode: Pixel	146 – 150
					DMX Mode: Compressed RGBW	151 – 155
					Reserved	156 – 175
					Zoom Reset	176 – 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: 2400 Hz	211 – 215
					PWM Rate: 4800 Hz	216 – 220
					PWM Rate: 9600 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
*	*	14	*	Red 1	Red 1 0–100%	0 – 255
*	*	15	*	Green 1	Green 1 0–100%	0 – 255
*	*	16	*	Blue 1	Blue 1 0–100%	0 – 255
*	*	17	*	White 1	White 1 0–100%	0 – 255
*	*	18	*	Red 2	Red 2 0–100%	0 – 255
*	*	19	*	Green 2	Green 2 0–100%	0 – 255
*	*	20	*	Blue 2	Blue 2 0–100%	0 – 255
*	*	21	*	White 2	White 2 0–100%	0 – 255
*	*	22	*	Red 3	Red 3 0–100%	0 – 255
*	*	23	*	Green 3	Green 3 0–100%	0 – 255
*	*	24	*	Blue 3	Blue 3 0–100%	0 – 255
*	*	25	*	White 3	White 3 0–100%	0 – 255
*	*	26	*	Red 4	Red 4 0–100%	0 – 255
*	*	27	*	Green 4	Green 4 0–100%	0 – 255
*	*	28	*	Blue 4	Blue 4 0–100%	0 – 255
*	*	29	*	White 4	White 4 0–100%	0 – 255
*	*	30	*	Red 5	Red 5 0–100%	0 – 255
*	*	31	*	Green 5	Green 5 0–100%	0 – 255
*	*	32	*	Blue 5	Blue 5 0–100%	0 – 255
*	*	33	*	White 5	White 5 0–100%	0 – 255
*	*	34	*	Red 6	Red 6 0–100%	0 – 255
*	*	35	*	Green 6	Green 6 0–100%	0 – 255
*	*	36	*	Blue 6	Blue 6 0–100%	0 – 255
*	*	37	*	White 6	White 6 0–100%	0 – 255
*	*	38	*	Red 7	Red 7 0–100%	0 – 255
*	*	39	*	Green 7	Green 7 0–100%	0 – 255
*	*	40	*	Blue 7	Blue 7 0–100%	0 – 255
*	*	41	*	White 7	White 7 0–100%	0 – 255
*	*	42	*	Red 8	Red 8 0–100%	0 – 255
*	*	43	*	Green 8	Green 8 0–100%	0 – 255
*	*	44	*	Blue 8	Blue 8 0–100%	0 – 255
*	*	45	*	White 8	White 8 0–100%	0 – 255
*	*	46	*	Red 9	Red 9 0–100%	0 – 255
*	*	47	*	Green 9	Green 9 0–100%	0 – 255
*	*	48	*	Blue 9	Blue 9 0–100%	0 – 255

Standard	Advanced	Pixel	Compressed RGBW	Fade Type	Function	Dmx Value
*	*	49	*	White 9	White 9 0–100%	0 – 255
*	*	50	*	Red 10	Red 10 0–100%	0 – 255
*	*	51	*	Green 10	Green 10 0–100%	0 – 255
*	*	52	*	Blue 10	Blue 10 0–100%	0 – 255
*	*	53	*	White 10	White 10 0–100%	0 – 255
*	*	54	*	Red 11	Red 11 0–100%	0 – 255
*	*	55	*	Green 11	Green 11 0–100%	0 – 255
*	*	56	*	Blue 11	Blue 11 0–100%	0 – 255
*	*	57	*	White 11	White 11 0–100%	0 – 255
*	*	58	*	Red 12	Red 12 0–100%	0 – 255
*	*	59	*	Green 12	Green 12 0–100%	0 – 255
*	*	60	*	Blue 12	Blue 12 0–100%	0 – 255
*	*	61	*	White 12	White 12 0–100%	0 – 255

9.Maintance and cleaning

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 usinga 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 12 LED-20W
Max POWER:240W
VOLTAGE:AC100-240V 50/60HZ
Color temperature：6000K-6500K(W)

10.2 Weight and dimensions

Dimensions：1008X166X85mm
NET WEIGHT:10.8Kg
Dimensions（Carton package）:1110X250X180mm
WEIGHT（Carton package）:13.2Kg
Dimensions（Air boxes -10 lights):1060X605X615mm
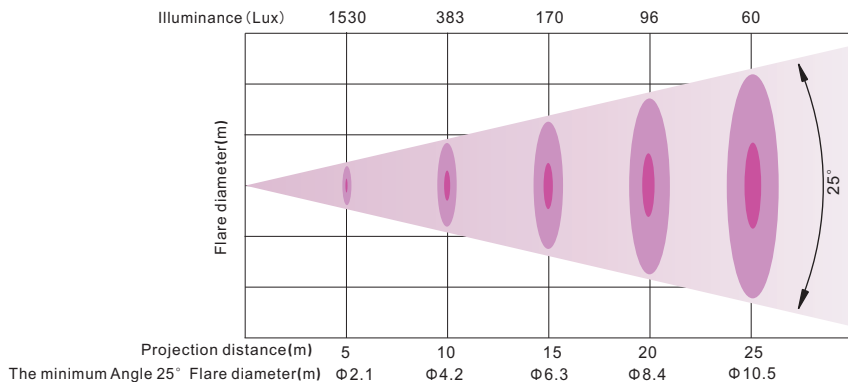NET WEIGHT/WEIGHT（Air boxes -10 lights）:162Kg

10.3 Channel Characteristics

1.Channel:13、32、61、5 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.OLED display.
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.

10.5 light table

| Illuminance（Lux） | 1530 | 383 | 170 | 96 | 60 |

Projection distance(m)	5	10	15	20	25
The minimum Angle 25° Flare diameter(m)	Φ2.1	Φ4.2	Φ6.3	Φ8.4	Φ10.5

25°

Flare diameter(m)

11.Electronic drawing

LED Board 1 **LED Board 2** **LED Board 3** **LED Board 4** **LED Board 5** **LED Board 6**

LED Control Board

1220LED DRIVER

3&4

5&6   7&8

1&2   2

9&10   11&12

13&14

15&16

Displayer Board

60   60
FAN1   FAN2

PSU
DC36V   AC220V

N
L
G

N
L
G

OUT
AC220V

N G
L

IN AC220V

G N
L

1
2
3

1
2
3

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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