

300w 3in1 led spot moving head



User manual

Please read the instructions carefully before use

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statement

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1. Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- ⊠ Unpack and check carefully there is no transportation damage before using the unit.
- ⊠ Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- ⊠ It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- ⊠ The unit is for indoor use only. Use only in a dry location.
- ⊠ The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- ⊠ Disconnect main power before replacement or servicing.

- ⊠ Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- ⊠ Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

- ⊠ Maximum ambient temperature is T_a : 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

- ⊠ In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

⚠ DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- ⚠ To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- ⚠ DO NOT open the unit within five minutes after switching off.
- ⚠ The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2. Technical Specifications

Light Sources: 300W High Power White LED

Max Power Consumption: 550W

Power Input: 100-240V, 50/60Hz

Color Temperature: 6500K-8500K

LED Lifespan: 50000 hours

Operating mode: DMX512,Auto, Sound active, Master/slave

Channel mode: 20 / 25 DMX512 Channel

Pan: 540° (16bit) Electric correction

Tilt: 270° (16bit) Electric correction

Color wheel: 7 colors +open, rainbow effect, arbitrary positioning.

2 Static Gobo Wheels: One packed with 8 static +open, with shake water flow effect, positive and negative, which can produce ripple, flame, night sky effect.

Another one is 6 color gobo, make rainbow effect

Rotation Gobo Wheel (glass gobo): 7 rotating /interchangeable + open, pattern rotating, pattern water flow effect.

Prism: Rotating 3-facet prism, iris aperture free amplification and reduction, add an effect fixed plate, water flow effect with speed adjustable

Function: Frost, Focus and Zoom

0-100% linear dimming, fit advanced iris aperture zoom effect, fast, precise, smooth, one of the most advanced optical system in the same class of products.

Strobe: 0-25Hz/s, sync pulse strobe, random pulse stroboscopic, etc.

Focus: mechanical focus

Zoom range: 8° -40°

Display: Touch screen, English and Chinese interchangeable, reversible display.

Over heat protection

IP level: IP20

Packing Size: 510x420x600mm

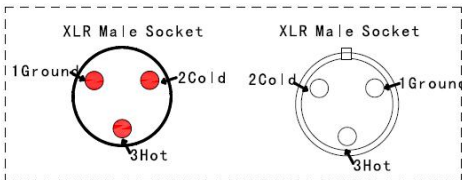
Gross weight: 21kg

3. How To Control The Unit

The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, dmx in and dmx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)



Figure2



XLR Pin Configuration	
pin1=	Ground
pin2=	Data Compliment (negative)
pin3=	Data true (positive)

Display:

- MENU To select the programming functions
- DOWN To go backward in the selected functions
- uP To go forward in the selected functions
- ENTER To confirm the selected functions

Set DMX Address Code

- 1 Press "**Menu**" to "Set DMX Address", and press "**ENTER**" keys to enter into
- 2 Show "Set DMX Address DMX Address:001", Press the "**UP and DOWN**" keys to amended

Press "**ENTER**" keys to save and Exit, Press the "**MENU**" Keys does not save and

Exit

MainMenu	Second Menu	Third Menu	Forth Menu	
Settings	Dmx Address	1 - 512		
	Fixture Set	Dmx Mode	STD / EXT	
		Run Mode	DMX / Host	
		Pan Inverse	Close / Open	
		Tilt Inverse	Close / Open	
	Display	Language	CH / EN	
		Display Flip	Close / Open	
		Display Mode	Show / 60s	
	Reset	XY Reset	Cance / Run	
		Motor Reset	Cance / Run	
		All Reset	Cance / Run	
		Factory	Cance / Run	
	Info	Time	Current Time	xxxH
			Show Time	xxxH
Power Count			xxx	
Sensor		xxxxxx		
Software Version		Panel	Vx.xxx	
		Motor_XY	Vx.xxx	
		Motor	Vx.xxx	

Manual	Pan	0 - 255	
	PanFine	0 - 255	
	Tilt	0 - 255	
	TiltFine	0 - 255	
	⋮	⋮	
Factory	Password	0 - 255	
	Pan	0 - 255	
	Tilt	0 - 255	
	Iris	0 - 255	
	Color	0 - 255	
	RotGobo	0 - 255	
	Gobo Rot	0 - 255	
	Fix Gobo	0 - 255	
	Frost	0 - 255	
	Color7	0 - 255	
	Effect	0 - 255	
	Prism	0 - 255	
	PrismRot	0 - 255	
	Zoom	0 - 255	
	Focus	0 - 255	

DMX channel's functions and values (20/25DMX channels):

Standard mode	Simple mode	DMX Value	Function	Function Illustration
1	1	0–255	Pan	Pan
2	2	0–255	Pan fine	Pan fine
3	3	0–255	Tilt	Tilt
4	4	0–255	Tilt fine	Tilt fine
5	5	0–255	P/T Speed	P/T Speed
6	6		Function	Macro function
		0–139		Blank
		140–149		X Y reset
		150–189		Effect reset
		190–199		Blank
		200–209		Light reset
		210–255		Blank
7	7		Strobe	Shutter
		0-3		Closed
		4-103		Slow - fast
		104-107		Open
		108-207		Fast strobe-slow strobe
		208-212		Open
		213-251		Random slow - fast
		252-255		Open
8	8		Dimmer	Dimmer
		0–255		Linear dimmer
9	9		Color	Colour
		0-9		white
		10-19		Colour 1

		20-29		Colour 2
		30-39		Colour 3
		40-49		Colour 4
		50-59		Colour 5
		60-69		Colour 6
		70-79		Colour 7
		80-89		Colour 8
		90-99		Colour 9
		100-109		Colour 10
		110-119		Colour 11
		120-129		Colour 12
		130-139		Colour 13
		140-149		Colour 14
		150-159		Colour 15
		160-204		Fast rotation - slow rotation
		205-210		Stop
		211-255		Slow rotation - fast rotation
10	*		Color fine	Color Fine
		0—255		Linear
11	10		Fixed gobo 1	Gobo 1
		0-4		white
		5-24		Gobo1
		25-44		Gobo2
		45-64		Gobo3
		65-84		Gobo4
		85-89		white
		90-119		Fast rotation - slow rotation
		120-125		Stop
		126-155		Slow rotation - fast rotation

		156-180		Gobo 1 shake
		181-205		Gobo 2 shake
		206-230		Gobo 3 shake
		231-255		Gobo 4 shake
12	11		Fixed gobo 2	Gobo 2
		0-9		white
		10-19		Gobo 1
		20-29		Gobo 2
		30-39		Gobo 3
		40-49		Gobo 4
		50-59		Gobo 5
		60-69		Gobo 6
		70-79		Gobo 7
		80-89		Gobo 8
		90-112		Fast rotation - slow rotation
		113-120		Stop
		121-143		Slow rotation - fast rotation
		144-157		Gobo 1 shake
		158-171		Gobo 2 shake
		172-185		Gobo 3 shake
		186-199		Gobo 4 shake
200-213	Gobo 5 shake			
214-227	Gobo 6 shake			
228-241	Gobo 7 shake			
242-255	Gobo 8 shake			
13	12		Rotary gobo	R.Gobo
		0-9		white
		10-19		Gobo 1
		20-29		Gobo 2

		30-39		Gobo 3
		40-49		Gobo 4
		50-59		Gobo 5
		60-69		Gobo 6
		70-79		Gobo 7
		80-129		Fast rotation - slow rotation
		130-135		Stop
		136-185		Slow rotation - fast rotation
		186-195		Gobo 1 shake
		196-205		Gobo 2 shake
		206-215		Gobo 3 shake
		216-225		Gobo 4 shake
		226-235		Gobo 5 shake
		236-245		Gobo 6 shake
		246-255		Gobo 7 shake
14	13		Rotary gobo rotation	Rotatry gobo rotation
		0—63		Linear
		64—126		Fast rotation - slow rotation
		127—128		Stop
		129—191		Slow rotation - fast rotation
		192—193		Stop
		194—255		Slow rotation - fast rotation
15	*		Rotary gobo rotation fine	Rotary gobo rotation fine
		0—255		Linear
16	14	0-127	Prism	white
		128-255		Prism
17	15		Prism rotation	Prism rotation
		0—63		Linear
		64—126		Fast rotation - slow rotation

		127—128		Stop
		129—191		Slow rotation - fast rotation
		192—193		Stop
		194—255		Slow rotation - fast rotation
18	*		Prism 1 rotation	Prism rotation fine
		0—255	fine	Linear
19	16			Iris
		0-134		Linear
		135-164	Iris	Fast open, slow close
		165-194		Slow open, fast close
		195-224		Normal fain effect
		225-255		Random rain effect
20	17	0-127	Frost	white
		128-255		Frost
21	18	0-255	Rainbow effect	6colors
22	19	0-255	Focus	Focus
23	*	0-255	Focus fine	Focus fine
24	20	0-255	Zoom	Zoom
25	*	0-255	Zoom fine	Zoom fine

4. Trouble shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

5. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.