M18B

108*3W RGBW zoom wash 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 Ta: 40℃. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. 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 and has no one pass by or under it.

2. Technical Specifications

Light Sources: 108 x 3W RGBW LED
Beam Angle: 25°
Power Consumption: 350W
Power Voltage: AC 100-240V, 50/60Hz
Dimension: **37*27*22cm**
Packing Dimension: 400x330x460mm（1pcs/ctn)
Net Weight: 10Kgs
Gross Weight: 11Kg
Control
DMX Channel: 14 Channel
Control Modes: DMX

Pan/Tilt

Pan/Tilt: 540°/ 270°

Pan/Tilt Resolution: 16 bit

Construction

Display: LCD Display

Data In/Out socket: 3-pin & 5-pin XLR sockets

Power Socket: Powercon in/out

Protection Rating: IP20

Features

Motorized liner zoom system, zoom range: 10°~60°

Outstanding color macro effect

Dimmer: 0~100% smooth dimming

Variable strobe effects

Fast, quiet operation and flicker free

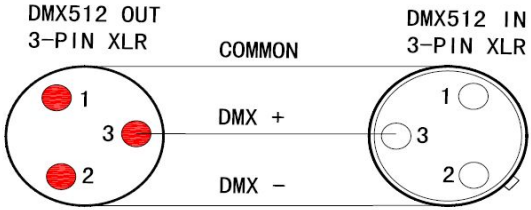
The lumen derails like below:

10°		1m	3m	5m
R	lux	190	29	8.7
G	lux	1299	186	68.9
B	lux	2350	346	109.2
W	lux	2094	265	89.6
RGBW	lux	6300	826	295

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 (+)



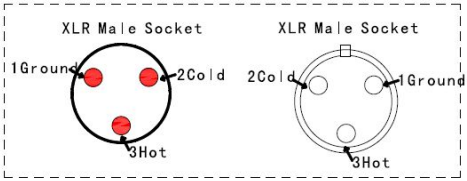


Figure2

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

function	Address CH Value Set to Slave Auto program Music control	Address001~XXX PAN…… Slave Master-Auto / Alone-Auto Master-Music / Alone-Music		Change address Show each channel value Slave receive position select auto run mode Sound auto run
inform	Temp Inf	Head Temperature	XXX℃/℉	current tempreture
	Soft Inf	V1.0……		software version
Person	Status settings	 Pan Reverse Tilt Rev P-Degree Feedback Movement Speed Mic Sensitivity	 ON/OFF ON/OFF 540/360 ON/OFF Speed 1~ 2 0~99%	 Pan scan opposition title scan opposition scan angle select scan the Measuring dish play a part or not scan mode select mic sensitivity
	Fans Control	Auto Speed High Speed		
	Display Settings	Shut off		show close delay time
	Reset Default	ON/OFF		Re-load all delivery parameter
Reset	Reset All			Reset the light
Adjust	Test Channel	PAN… :		Channel test :
	Stati Control	PAN	PAN=XXX	Manually test channels

	Calibrate Values	**Password** **PAN** **TILT**	**Password=XXX** **PAN=XXX** **TILT**	channels' data calibrate code :050 PAN channel data calibrate **TILT** channel data calibrate

DMX functions and their values (14 DMX channels):		
Channel	**Value**	**Function**
1		**PAN Movement 8bit :**
	0-255	Pan Movement
2		**Pan Fine 16bit**
	0-255	Fine control of Pan movement
3		**TILT Movement 8bit :**
	0-255	Tilt Movement
4		**Tilt Fine 16bit**
	0-255	Fine control of Tilt movement
5		**Red LED :**
	0-255	Red (0-Black , 255-100% Red)
6		**Green LED :**
	0-255	Green (0-Black , 255-100% Green)
7		**Blue LED :**
	0-255	Blue (0-Black , 255-100% Blue)
8		**White LED :**
	0-255	White (0-Black , 255-100% White)
9		**Shutter, strobe:**
	0-31	Led trun off
	32-63	Led turn on
	64-95	Strobe effect slow to fast

	96-127	Led turn on
	128-159	Pulse-effect in sequences
	160-191	Led turn on
	192-223	Random strobe effect slow to fast
	224-255	Led turn on
10		**Dimmer intensity:**
	0-255	Intensity 0 to 100%
11		**Rainbow:**
	0-4	No function
	5-29	R
	30-54	G
	55-79	B
	80-104	W
	105-129	Rainbow colours
	130-154	Rainbow colours
	155-174	Rainbow colours
	175-179	Rainbow colours
	180-184	Rainbow colours
	185-189	Rainbow colours
	190-210	Rainbow colours
	211-255	Crossfading colours from slow to fast
12		**Zoom Movenment 8 bit**
	0-255	Zoom movement
13		**Speed Pan/Tilt movement:**
	0-225	max to min speed
	226-255	no function
14		**reset, internal programs:**
	0-79	Normal
	80-84	All motor reset
	85-87	Scan motor reset

	88-99	No function	
	100-119	Internal program 1 (secne1~8 of EEPROM)	2700k
	120-139	Internal program 2 (secne9~16 of EEPROM)	3200k
	140-159	Internal program 3 (secne17~24 of EEPROM)	4300k
	160-179	Internal program 4 (secne25~32 of EEPROM)	5600k
	180-199	Internal program 5 (secne33~40 of EEPROM)	6500k
	200-219	Internal program 6 (secne41~48 of EEPROM)	7200k
	220-239	Internal program 7 (secne49~56 of EEPROM)	8000k
	240-255	Music Control (secne of Program 1)	

Note: Color Chase Patterns scene, G, B, W and Color Presets four channels is determined by the channel in front of R, to note that if these channels are not selected then the scene has no effect, R, G, B, W four Color Presets priority channel than the channel.

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.**