


# LED Moving Head Wash Light

VG-LM1083B



CE RoHS

## User Manual

 Please read this user manual before using this product !

Keep it for further reference!

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Thanks for using our product. This device is a great and reliable unit that can meet most of your requirements for professional markets. This product can be operated as a single unit or in multiple units for large applications. This moving head has got the nice sculpt, efficient, save electricity and durable. It is suitable for saloon, disco, hotel, showplace, studio, stage, etc.

This product complies with the following standards:

IEC60598-1:2003

IEC60598-2-17:1984+A2:1990

Upon receiving products, please check carefully that there has been no damage caused in transportation and that the following parts are enclosed:

VG-LM1083B 108 LED Moving Head Washer-----1pc

User manual-----1pc

## I . SAFETY INFORMATION



### Important

All operation and maintenance must be carried out in accordance with this user manual;

Manufacturer will not with responsibility for those operations which not according to these Instructions:

- ◆ Verify that the input voltage matches the rated voltage.
- ◆ Always disconnect the power before attempting to open the equipment housing or carrying out any maintenance.
- ◆ Do not connect power cable of other electric products with this unit.
- ◆ Make sure power socket is connected with earth cable well. The earth cable of this unit is Yellow/Green one.
- ◆ Do not expose the fixture to rain or moisture.

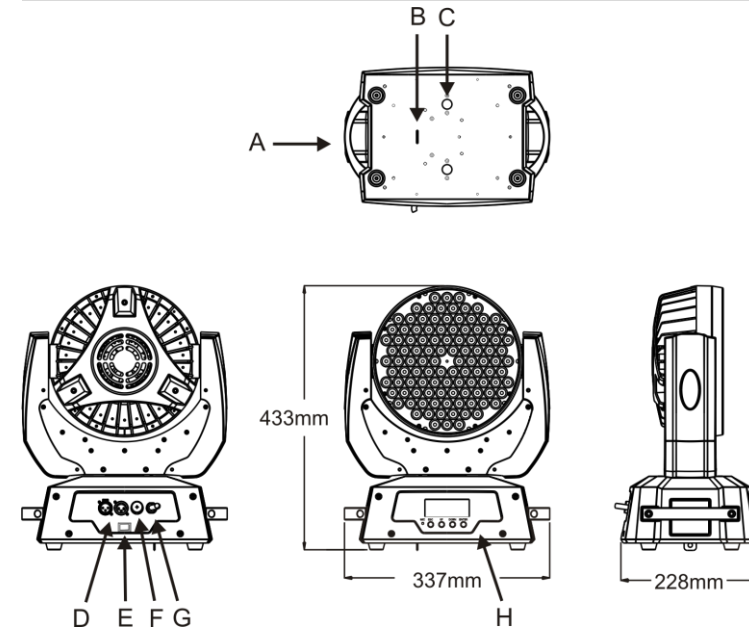
- ◆ Verify that the feed cables are undamaged and rated for the current requirements of all connected devices before use.
- ◆ Never attempt to bypass the thermostatic switch or fuses. Always replace defective fuses with ones of the specified type and rating.
- ◆ Ensure that the air flow through fans and vents is free and unobstructed.
- ◆ Keep all combustible materials (for example fabric, wood, paper) at least 1.5 meters away from the light. Keep flammable materials well away from the fixture.
- ◆ Avoid looking directly into the light source (especially those who suffer from epileptic fits)
- ◆ When it is thunderstorm, don't use the light and disconnect the power supply, high voltage will destroy light.
- ◆ If the ambient temperature exceeds 35 °C, please do not use this light.
- ◆ When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- ◆ Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.
- ◆ Verify that all screws are tightly fastened.

## II. MAIN FEATURES

- Super bright 3 Watt LED, long lifespan 100,000 hours;
- Electronic strobe with pulse effects;
- 11 or 13 standard DMX channels;
- 3 control modes: DMX 512, master/slave mode, sound activated mode;
- Maximum Pan-movement: 540 ° or 630 °, self-correcting;
- Maximum Tilt-movement: 270 °, self-correcting;
- Electronic strobe with pulse effects;

- Smooth electronic dimming make the light more colorful;
- Onboard control panel and LCD graphic display.

## III. OVER VIEW



- A. Carrying handle
- B. Safety cable hole
- C. Installation holes
- D. DMX IN socket/ DMX OUT socket
- E. Power switch
- F. Fuse holder
- G. Power supply
- H. Control panel

## IV. POWER CONNECTION

Please ensure that the voltage matches the rated voltage and the device is always connected to the earth properly.

Depending on the application, the lighting fixture may require a different connector.

Please refer to the below wire color code if installing a new connector.

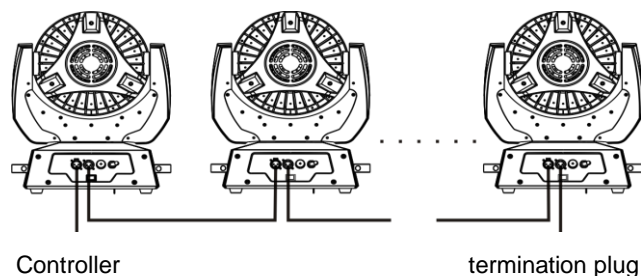
Right connect of the power cables are as below:

Power Cable	Connection
Brown	Live wire
Blue	Zero wire
Yellow green	Ground wire

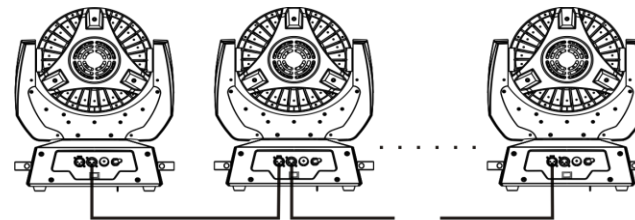
## V. DATA CONNECTION

The fixtures may be connected via 3-Pin signal cables.

In DMX mode, at the last fixture in the chain, the DMX output has to connect with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.



## MASTER/SLAVE CONNECTION



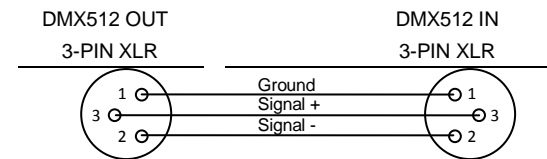
## OCCUPATION OF THE XLR-CONNECTION:

DMX-output XLR mounting-socket:	DMX-input XLR mounting-plug:
1: Ground 2: Signal - 3: Signal +	1: Ground 2: Signal - 3: Signal +

## TERMINATION PLUG

The termination plug is a male XLR plug with a 120 ohm, 0.25 watt resistor soldered between pins 2 and 3.

If you are making your own cables, be sure to use standard two conductors shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.



## 3-PIN TO 5-PIN CONVERSION CHART

If you use a controller with a 5 pin DMX output connector, you will need to use a 5

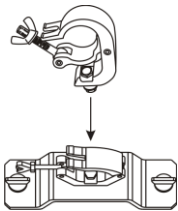
pin to 3 pin adapter. The chart below details a proper cable conversion:

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground	Pin 1	Pin 1
signal -	Pin 2	Pin 2
signal +	Pin 3	Pin 3
Do not use		Pin 4
Do not use		Pin 5

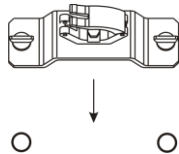
## VI. INSTALLATION

When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

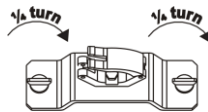
Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.



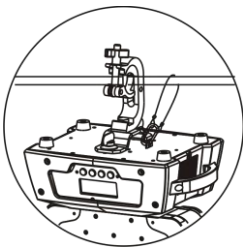
Screw clamp onto the Omega-holder



Insert quick lock fasteners into the installation holes



Tighten quick-lock fasteners fully clockwise.



Use safety-cable for second protection

## VII. OPERATION

### STAND-ALONE OPERATION

Stand-alone operation allows the fixture works without controller and be controlled by the control panel directly. Please refer to the menu instruction.

### MASTER/SLAVE OPERATION

Setting the first fixture to master-device and the following devices to slave-devices (work in DMX mode), then all devices will run synchronously. Please refer to the menu instruction.

### DMX OPERATION

You can control the devices individually or synchronously by the DMX-controller. You should set the device's start address in the DMX menu by control panel .After setting the address, the device enter DMX mode.

### SETTING THE START ADDRESS

Each fixture requires a "start address" from 1 to 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that uses 4 DMX channels and was addressed to start on DMX channel 1, would read data from channels: 1, 2, 3, 4. Choose start addresses so that the channels used do not overlap, and note the start address selected for future reference. Note that Assign the same address to the different lightings, they will receive the same signal.

## VIII. CHANNEL FUNCTION

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CHANNEL	FUNCTION	CHANNEL VALUE	FUNCTION DETAILS
CH1	Red	000←→255	Red dimmer, 0~100%
CH2	Green	000←→255	Green dimmer, 0~100%
CH3	Blue	000←→255	Blue dimmer, 0~100%
CH4	White	000←→255	White dimmer, 0~100%
CH5	Pan	000←→255	Pan 0~630degree or 0~540degree (depending on the setting in menu)
CH6	Tilt	000←→255	0~270degree
CH7	Scan speed	000←→225	Fast to slow
		226←→255	Natural speed(fast) If selected the “Scan Black Out: ON” function in SET menu by control panel, while DMX value is 226~236, the lighting blackout during pan/tilt movement.
CH8	Strobe	000←→009	No strobe function
		010←→149	Strobe (slow to fast)
		150←→199	Fast in slow out (slow to fast)
		200←→249	Slow in fast out (slow to fast)
		250←→255	No strobe function
CH9	General dimmer	000←→225	General dimmer, 0~100%
CH10	Rainbow effect	005←→031	R( ↑ )G(0)B(0)W[min(RGB)]
		032←→063	R( ↓ )G( ↑ )B(0) W[min(RGB)]
		064←→095	R( ↑ )G(255)B(0) W[min(RGB)]
		096←→127	R( ↓ )G( ↓ )B( ↑ ) W[min(RGB)]

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		128←→159	R( ↑ )G(0)B(255) W[min(RGB)]
		160←→191	R( ↓ )G( ↑ )B(255) W[min(RGB)]
		192←→223	R( ↑ )G(255)B(255) W[min(RGB)]
		224←→255	R( ↓ )G( ↓ )B( ↓ ) W[min(RGB)]
CH11		000←→049	RGBW dimmer in operation (CH1~4)
		050←→059	Red
		060←→069	Green
		070←→079	Blue
		080←→089	Yellow
		090←→099	Cyan
		100←→109	Pure white
		110←→119	Purple
		120←→129	White
		130←→139	Color temperature 3200K
		140←→149	Color temperature 5600K
		150←→159	Color temperature 6500K
		160←→169	Color temperature 8500K
		170←→179	Color temperature 10000K
		180←→189	Change Color (The motors rotate automatically)
		190←→199	Change Color (The motors controlled by controller)
		200←→209	Twinkling (The motors rotate automatically)
		210←→219	Twinkling (The motors controlled by controller)

		220←→229	Fade (The motors rotate automatically)
		230←→234	Fade (The motors controlled by controller)
		235←→239	Auto macro (The motors controlled by controller)
		240←→244	Sound macro (The motors rotate automatically)
		245←→249	Sound macro (The motors controlled by controller)
		250←→255	No function
CH12	Pan fine	000←→255	Pan fine(16 bit mode)
CH13	Tilt fine	000←→255	Tilt fine(16 bit mode)

## IX. CONTROL PANEL

BUTTON	FUNCTION
<b>ESC</b>	Call the main menu, or escape the current menu(i.e. return to the upper menu and give up the selected item or parameter)
<b>UP</b>	Browse the menu item forward or increase the parameter
<b>DOWN</b>	Browse the menu item backward or decrease the parameter
<b>ENTER</b>	Confirm the selected item or parameter(i.e. enter the next menu, or escape the current menu and save the selected item or parameter)

## X. MENU INSTRUCTION

Power on the fixture, use **UP** or **DOWN** button could scroll all functions menu step by step as follow:

Addr: 001, ManualDimmer, Red, Green, Blue, Yellow, Cyan, Purple, PureWhite,  
White, 3200K, 5600K, 6500K, 8500K, 10000K, ChangeColor, Twinkling, Fade,

### Macro

Press **ENTER**-button if you wish to select one of them.

Press **ECS**-button enter SET menu, press again return.

### MENU NAVIGATION

SET menu←ESC— **Addr:001**(with actually stored address) —ENTER→DMX menu  
UP↑↓DOWN

SET menu←ESC— **ManualDimmer** —ENTER→ManualDimmer menu  
UP↑↓DOWN

SET menu←ESC— **Red** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **Green** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **Blue** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **Yellow** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **Cyan** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **Purple** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **PureWhite** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **White** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **3200K** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **5600K** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **6500K** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **8500K** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **10000K** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **ChangeColor** —ENTER→null  
UP↑↓DOWN

SET menu←ESC— **Twinkling** —ENTER→null  
 UP↑↓DOWN  
 SET menu←ESC— **Fade** —ENTER→null  
 UP↑↓DOWN  
 SET menu←ESC— **Macro** —ENTER→Macro menu  
 UP↑↓DOWN

The Menu functions provided are described in the following sections.

## FUNCTION MENU

A001(with actually stored address) \_\_ DMX mode

Press **ENTER** enter to the submenu

DMX Menu:

└DMX Address: 001 ; Set the DMX address  
 └No DMX Signal ; Run if there is no DMX signal  
 └Stop Run  
 └Hold Run  
 └Auto Run  
 └Sound Run

## Manual Dimmer

ManualDimmer:

└Light Switch  
 | └Light ON  
 | └Light OFF  
 └Light Red:000 ; Red dimmer  
 └Light Green:000 ; Green dimmer  
 └Light Blue:000 ; Blue dimmer  
 └PureWhite:000 ; Pure White dimmer  
 └Light White:000 ; White dimmer  
 └Light Strobe:000 ; Strobe adjustment  
 └Scan Pan:128 ; Pan -movement with 8 Bit-resolution  
 └Scan Tilt:128 ; Tilt -movement with 8 Bit-resolution  
 └Scan PanFine:000 ; Pan -movement with 16 Bit-resolution  
 └ScanTiltFine:000 ; Tilt -movement with 16 Bit-resolution

└Light Calibrate

└Cal Red:-15~+16

└Cal Green:-15~+16

└Cal Blue:-15~+16

└Cal White:-15~+16

└Cal Pan:-128~+127

└Cal Tilt:-128~+127

Red \_\_ Static red

Green \_\_ Static green

Blue \_\_ Static blue

Yellow \_\_ Static yellow

Cyan \_\_ Static cyan

Pure White \_\_ Static Pure White

White \_\_ Static white

White \_\_ Static white

3200K \_\_ 3200K color temperature

5600K \_\_ 5600K color temperature

6500K \_\_ 6500K color temperature

8500K \_\_ 8500K color temperature

10000K \_\_ 10000K color temperature

Change Color \_\_ Change color program

Twinkling \_\_ Twinkling program

Fade \_\_ Fade program

Macro \_\_ Auto program , enter can edit it

Macro Menu:

└Step Quantity:62

└Program Step 01

| └Change Color

| └Twinkling

| └Fade

| .....

└Program Step 62



**SET MENU**

SET Menu:

└Reset Machine	
└Reset:ON	
└Reset:OFF	
└Load Parameter	
└Load ON	
└Load OFF	
└Master / Alone	
└Master Mode	
└Alone Mode	
└Auto / Sound	
└Auto Mode	
└Sound Mode	
└MIC Sense:00~99%	; MIC sensitivity adjusting
└TC Switch	; Reduce output if over temperature
└TC Switch Mask	
└Switch Mask ON	;
└Switch Mask OFF	
└TC Switch Temp	; (Pass-word protected, common user taboo)
└TC Temp Cap	; TC Temperature Capture
└TC Temp Cap:Yes	
└TC Temp Cap:No	
└TC Temp Set	; TC Temperature set
└Scan Setting	
└Reverse Pan	
└Reverse Pan :ON	
└Reverse Pan :OFF	
└Reverse Tilt	
└Reverse Tilt:ON	
└Reverse Tilt:OFF	

└Scan 16 Bit	; 16 bit resolution
└Scan 16 Bit:ON	
└Scan 16 Bit:OFF	
└Pan Degree	
└Pan Degree:630	; 630 °
└Pan Degree:540	; 540 °
└Scan BlackOut	; Blackout during pan/tilt movement
└ScanBlackOut:ON	
└ScanBlackOut:OFF	
└Feed Back	; Return the head to the correct starting position
└Feed Back:ON	after changing the position
└Feed Back:OFF	
└Information	; Information consultation
└Time:tt/mm/ss	
└Date:mm/dd/yy	

**XI. SPECIFICATION****Electrical**

Power supply: AC100~240V, 50/60Hz

Power consumption: 400W

Fuse: 5A, 5\*20

**Photometric data**

Light source: 108 pcs 3W LEDs, (R: 30, G: 30, B: 30, W: 18)

LED rated life: 50,000 hours

Beam angle: 25degree

**Dynamic effects**

Color changing effects: Can create excellent color mixing with high even and uniform distribution of brightness and light output

Strobe: Variable electronic strobe 0~25F.P.S

Dimmer: Variable electronic dimmer 0~100%

Pan: 540degree or 630degree (8/16 bit movement resolution), automatic self-correction

Tilt: 270degree (8/16 bit movement resolution), automatic self-correction

Other features: Electronic strobe with pulse effects

### Control and programming

DMX channels: 11 or 13 channels (depend on 8/16 bit movement resolution)

Protocols: DMX-512

Operation modes: DMX mode, Master/Slave mode, Sound Activated mode

### Construction

Color: Black

Housing: ABS

Protection rating: IP20

### Thermal

Working temperature: -20°C ~ +35°C

Thermostat: Built-in thermostat for overheating protection

### Physical

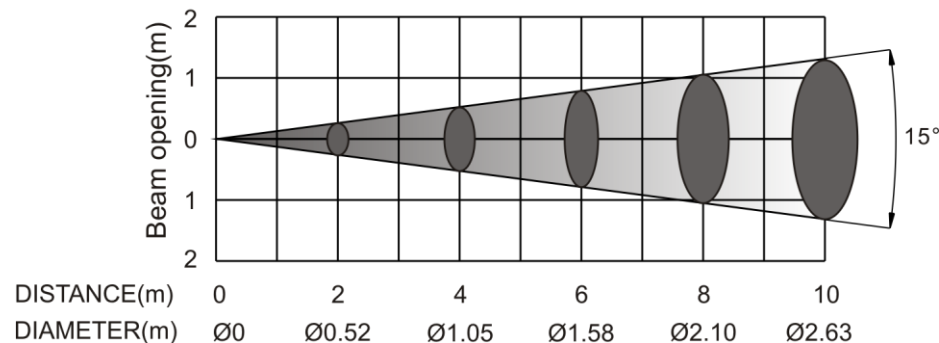
Fixture dimensions: 337\*228\*433mm

Net weight: 10kg

NOTE: Due to improvement, the product specifications and this manual are subject to change without prior notice.

## XII. PHOTOMETRIC DATA

lux(R)	8400	2100	925	527	332
lux(G)	7532	1883	830	460	298
lux(B)	9480	2370	1015	576	354
lux(W)	10720	2680	1180	653	427
lux(RGBW)	35132	8933	3983	2158	1320



Please keep this manual as a reference.

Thanks again for your business. We truly appreciate it!