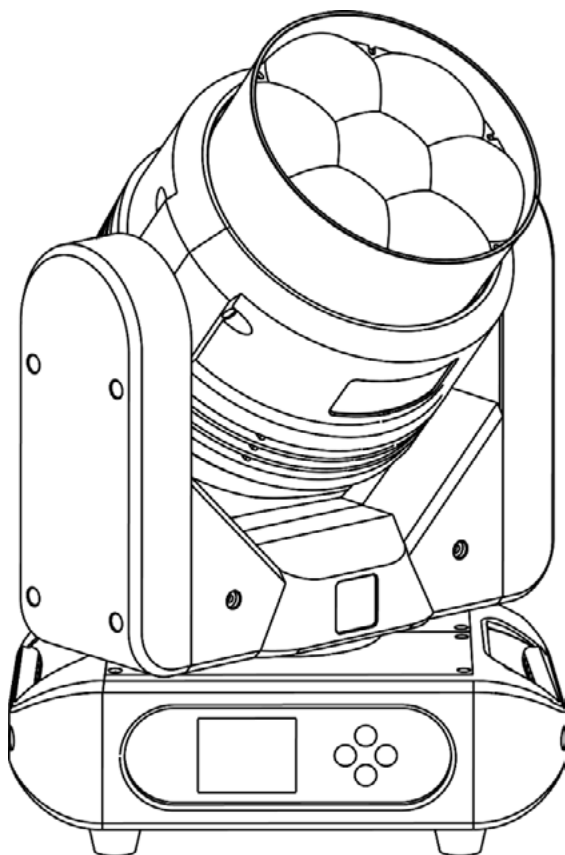




Vader BW



USER MANUAL

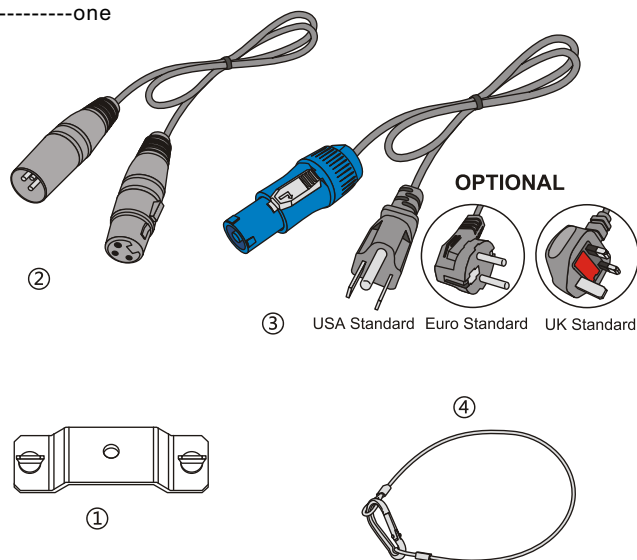
1.Unpacking

Thanks for choosing the Vader BW. For your own safety, please read this manual before installing the devices. This manual covers the important information on the installation and applications. Meanwhile, please keep this manual for future needs.

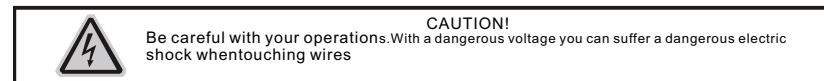
The Vader BW is made of a new type of high temperature strength of engineering plastic and cast aluminum with a nice look. The fixture is designed and manufactured strictly following CE and RoHS Standards, complying with international standard DMX 512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, night clubs and discos.

Vader BW adopts powerful 60W OSRAM RGBW LED which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the carton box:

Moving head-----one
Omega clamp-----one
Signal cable-----one
Power cable-----one
Safety wire-----one



2.safety instructions



This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must be carried out by a qualified person.

The device shall only be used with rated voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

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 power cord.

During initial start-up, some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective; it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances; keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

3. Operation Instructions.

- The moving head is for beam effect for onsite decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement
- Dont pull up the light by only the head, or it might cause damages to the mechanical parts
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using
- Keep the original packages if any second shipment is needed.
- Dont try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

4. Mounting and Installation

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the devices weight.

Fixture installation must always be secured with a secondary safety att attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture from a ceiling, or set on a flat level surface (see illustration below).

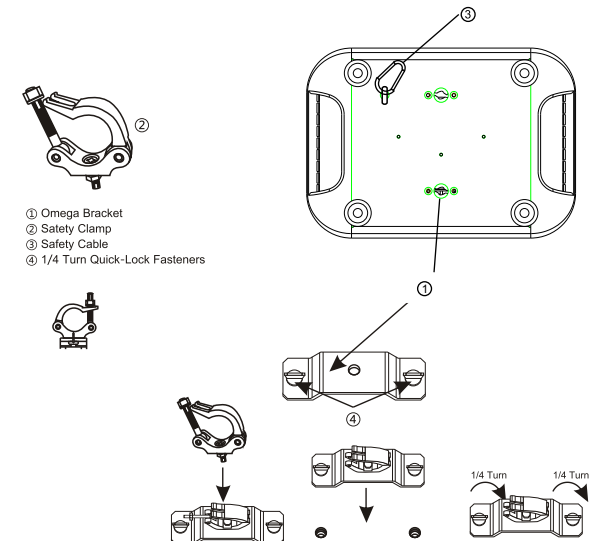
Be sure this fixture is kept at least 0.5m(1.5 f)away from any flammable materials (decoration etc).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Moun ting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily Injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

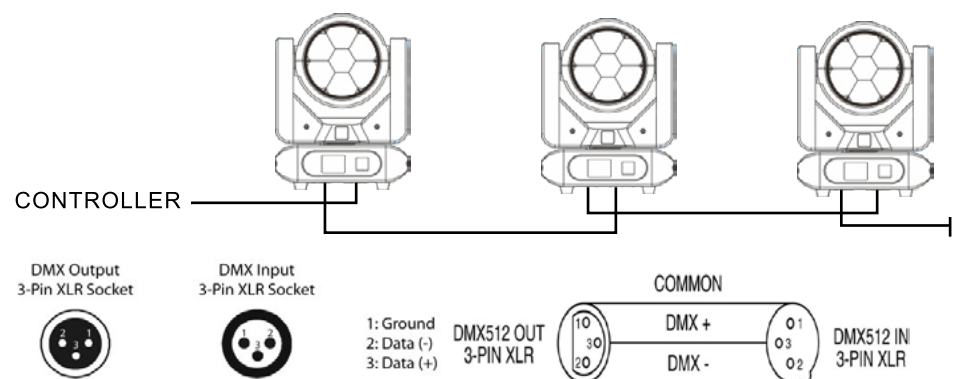
Clamp Mounting: the Vader BW Moving Head provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket and the safety cable rigging point in one unit(see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to t he included omega bracket using a M10 screw fitted through the center hole of the"omega bracket".As an added safety measure be sure to att ached at least one properly rate the bases.



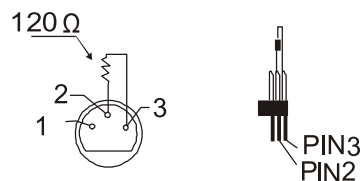
Regardless of the rigging option you choose for your LED wash, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

5. DMX-512 control connections

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to diagram below DMX-512 connection with DMX terminator.

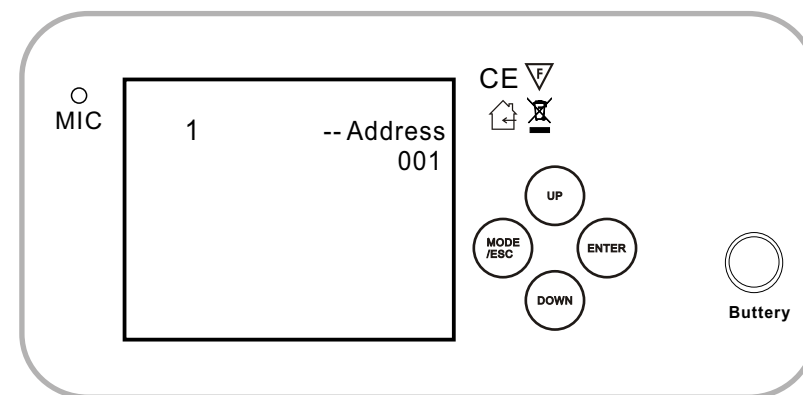


For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

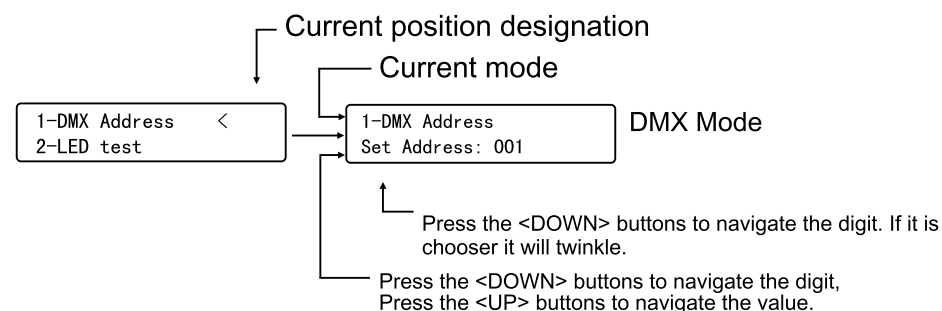


That Control Display

6. Top menu, present the current operation:



2. Press the <UP> or <DOWN> button repeatedly until you reach the desired menu function. Press the <ENTER> button to select the menu function currently displayed, or to enable menu option. To return to the previous option or menu without changing the value. Press the <MODE/ESC> button.



Press the Battery button to set the DMX address. Pls use **3.7V rechargeable lithium ion battery**, don't use others. Ni-MH batteries, lithium iron phosphate batteries, non-rechargeable batteries, and lithium batteries of other voltages cannot be placed, otherwise, it may cause an explosion after charging.

7.Menu for Control Display

UNIVERSAL MENU	PROJECT	INSTRUCTION FOR USE
INFORMATION	ADDRESS	1~512
	RUNTIME	TIME
	VERSION	
	TEMPERATURE	MAIN BOARD(No function) LIGHT SOURCE xx℃
	FAN SPEED	FH xxxx (head fan speed) F1 xx.x(case fan voltage) F2 xx.x(case fan voltage)
	ERROR MESSAGE	
SETTING	RESET	REBOOT DEFAULT DATA
	CHANNEL SET	21/16
	SIGNAL	DMX512/WDMX/DEMO/ARTNET/ WDMX->DMX/ARTNET->DMX/ DMX- WDMX/ARTNET->WDMX/ PROGRAM x
	OFFLINE SET	HOME/HOLD
	FAN MODE	NORMAL/PERFORMANCE/QUIET
	WIRELESS SET	DISCONNECT SEARCH RECEIVER
	ADJUST	X SCAN Y SCAN ZOOM ROTATION FAN SPEED
	ARTNET SET	IP address Subnet mask Universe
	RDM UID	xxxxxxxxxxxx
LAMP		ADJUST(RGBW)
DISPLAY	LANGUAGE	ENGLISH/CHINESE/RUSSIAN
	BACKLIGHT	ON/OFF/FLASH
	REVERSE	ON/OFF/AUTO
USER	SETTING LOCK	Enter 1234 to unlock
	KEY LOCK	ON/OFF
	TEST	
	PROGRAM	SELECT PROGRAM 1~8 EDIT PROGRAM

8. Control Channels

Channel		Function	DMX value	Feacture
21CH	16CH			
1	1	Red	0~65535	
2		Red 16Bit		
3	2	Green	0~65535	
4		Green 16Bit		
5	3	Blue	0~65535	
6		Blue 16Bit		
7	4	White	0~65535	
8		Whiet 16Bit		
	5	Colour Temperature	0~3 4,5 6,7 8,9 10,11 12,13 14,15 16,17 18,19 20~93 94~255	NO Used 10000K 8000K 7000K 6500K 5600K 4200K 3200K 2700K 10000~2700K Color Temperature From Cold To Warm, Non-Standard
10	6	Colour Macro	0~1 2,3 4,5 6,7 8,9 10,11 12,13 14,15 16~239 240~255	No Used All The Light Red Yellow Green Cyan Blue Purple Colour Macro Rainbow Effect From Slow To Fast
11	7	Strobe	0~131 132~175 176~247 248~251 252~255	NC Half Strobe From Slow To Fast Flash Strobe From Slow To Fast Sync Random Strobe Asynchronous Random Strobe
12	8	Dimmer	0~65535	
13		Dimmer 16Bit		
14	9	Pan		
15	10	Pan 16Bit		

16	11	Tilt		
17	12	Tilt 16Bit		
18	13	Dimmer Mode	0~31 32~63 64~95 96~127 128~159 160~191 192~223 224~255	806Hz-Auto 806Hz-Fast 1562Hz-Auto 1562Hz-Fast 5000Hz-Auto 5000Hz-Fast 8333Hz-Auto 8333Hz-Fast
19	14	Reset	0-20 21~30 31-255	NC Reset All NC
20	15	Zoom	0~255	Zoom From Wide To Narrow
21	16	Reserve		

9.Specifications

OPTICS

- Light source:7×60W Original OSRAM RGBW LEDs
- Lifetime: 50000 Hours
- Color temperature:
2500-8000K, linear adjustable

MOVEMENT

- Pan movement: 540°(16 bit)
- Tilt movement: 270°(16 bit)
- Automatic reset function
- High-resolution stepper motors ensure extreme accuracy and smooth movement

COLORS

- Linear RGBW, color mixing with unlimited colors
dynamic color macro effect with variable speed
- Super uniform light beam with no color shadows
and rich saturated and pastel colour-hues

EFFECT SECTION

- Wash, beam, effect modes, multiple macros
- Zoom: 2.5°-60°, 1:24 ratio
- Dimmer: 0-100% linear dimmer
- Strobe: Electronic strobe,0.3-20Times/SEC
- Dedicated channel for color temperature setting

CONTROL AND PROGRAMMING

- Control mode: DMX512, 3-pin/5-pin XLR;
Protocols RDM; wireless (option); Artnet(option)
- Standard mode: 16/21 channels
- Fan mode: NORMAL/PERFORMANCE/QUIET

OTHER FUNCTION

- 2.4inch color LCD screen
- High reliability touch button
- Support auto flip display
- Support Multi-language
- Automatic monitoring of light source temperature
high temperature automatic protection
- Intelligent cooling system
- DMX512 Software update
- Display light use time
- Low level linearity, flicker free film TV
- Menu setting by internal rechargeable battery
without power supply
(3.7V rechargeable lithium-ion battery)
- Intelligent control of wind speed
- Reverse display
- Manual programming

POWER SUPPLY AND CONNECTIONS

- Input voltage:100V~240V AC 50/60Hz
- Power consumption: 520W@220V
- Power socket: power connector input&output
- DMX and RDM data in/out: Locking 3-pin/5-pin XLR

HOUSING

- Environmentally friendly flame retardant materials
- High temperature resistant engineering plastics
- Intellectual property rights of appearance
and structure design

IP GRADE

- IP:20

DIMENSION

- Product Size: 300 x 212 x 397 MM
-11.81"x 8.35"x 15.63"
- Carton size(1in1): 490 x 410 x 320 MM
-19.29"x 16.14"x 12.60"
- Flight case size(4in1): 830 x 530 x 620 MM
-32.68"x20.87"x 24.41"
- Flight case size(6in1): 1200 x 520 x 600 MM
-47.24"x 20.47"x 23.62"

WEIGHT

- Net weight:9KG

10. Maintenance and Cleaning

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust
- 2) Clean the fan each week
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.