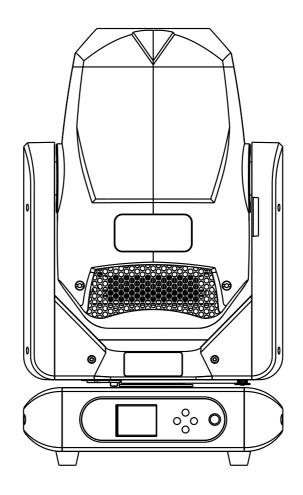


Vader BWS



USER MANUAL

1.Unpacking

Thank you for choosing Vader BWS.For your own safty, please read this mannual before installing the device. This manual covers the important information on installation and applications. Please operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

The Vader BWS is made of new type of high temperature strength of engineer plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX 512 PROTOCOL. It's available independently controlled and linkable with each other for coperation. And it is applicable for large-scable liveperformance, the ater, studio, nightclubs and disco.

Vader BWS adopts powerful 300W 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 including inside the box:

Moving head light	One
Omega	Two
Signal Cable	One
Power Cable	One
User Manual	One

2. Safety instructions



CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock whentouching wires

This device has left the factory in perfect condition. In order to maintain this condition 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 change due to enviromental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until has reached room temperature.

3. Operate on instruction

- -The moving head is for beam spot wash 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 normal temperature.
- -This light should be keep away from strong shaking during any transportation or movement.
- -Don't 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 floor. Or it might cause electrionic 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 person who knows the fixture before using.
- -Keep the original packages if any second shipment is needed.
- -Don't try to change the fixtures without any instruction by the manufacturer or the appointe drepairing agencies.
- -It is no in warranty range if there are 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 fixture in areas outside walking paths, seating areas, or in area 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 device's weight.

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

Never stand directly below the device when mounting, removing, or serving the fixture from a ceiling, or set on a flat level surface (see illustration below). Be sure his fixture is kept at least 0.5m(1.5ft) 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.

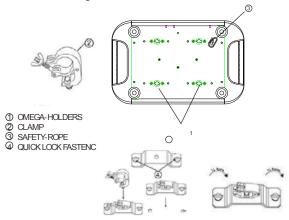
Mounting points:

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

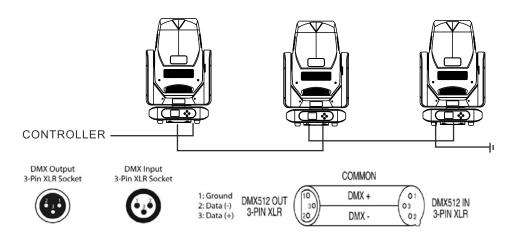
Clamp mounting:

The Vader BWS provides a unique mounting bracket assembly that integrates the bottom of the base, the included OMEGE 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 clamp to the included omega braceket using a M10 screw fitted through thecenter hole of the OMEGE BRACKET.

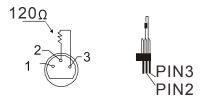


5.DMX 512 Control connection

Connect the provice XLR cable to the female 3 pin XLR Output of your control and the other side to the male 3-pin XLR input of the moving head, You can chain multiple Movng head together through serial linking. The cable needed should be two core, screened canle with XLR input and output connectors. Please refre to the diagram below. DMX-512 Connection with DMX terminator.

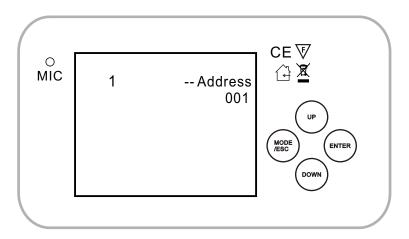


For installations where the DMX cable has to run a long distance or is in an electrically noisy environments as in a disco, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control singal by electrical noisy. The DMX terminator is simply an XLR plug with a 120 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

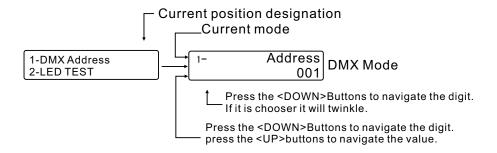


The control Display

6. Top menu, present the current opertion



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



Power on the moving head light, press the <MODE/ESC> or <ENTER>button , no any movement.

7. Menu for Control Display

GENERAL MENU	FUNCTION	OPERATION OPTIONS
INFORMATION	ADDRESS	1~512
	RUNTIME	TIME
	VERSION	
	TEN ADED A TILIDE	MAIN BOARD
	TEMPERATURE	LIGHT SOURCE
	FAN SPEED	
	ERROR MESSAGE	
	DECET	REBOOT
	RESET	DEFAULT DATA
	CHANNEL SET	
	SIGNAL	DMX512/ARTNET/PROGRAM
	OFFLINE SET	HOME/HOLD
	FAN MODE	NORMAL/PERFORMANCE/QUIET
SETTING	WIRELESS SET	ON/OFF
	ADJUST	
	ARTNET SET	IP ADDRESS
		SUBNET MASK
		UNIVERSE
	RDM UID	
	AUTO ON	NC
LAMAD	LIGHT UP	NC
LAMP	LAMP ADJUST	NC
	LAMP FAIL	NC
	LANGUAGE	ENGLISH/CHINESE
DISPLAY	BACKLIGHT	ON/OFF/FLASH
	REVERSE	ON/OFF/AUTO
USER	SETTING LOCK	INPUT CODE
	KEY LOCK	ON/OFF
	TEST	ON/OFF
	DDOCDAN4	SELECT PROGRAM 1~8
	PROGRAM	PROGRAM 1~8

Note:

- 1. Above all projects to the actual lighting shall prevail, no notice if there is further modification;
- 2. The programming function provides only a very limited operation, in the case of no control units to use. Generally do not recommend the use of manual programming;
 3. In the absence of the DMX512 signal, only need to set up first items, namely the address code can be used lamps.

8. 28 Control Channels

28CH	25CH	Function	Value	Feature
1	11	Pan	0~255	
211	21	Pan Fine₁	0~255	
311	31	Tilt	0~255	
4	4	Tilt Fine	0~255	
			0~7	No Colour
			8~ 15	Colour1
			16~23	Colour2
			24~31	Colour3
			32~39	Colour4
			40~47	Colour5
			48~55	Colour6
5	5	0-1	56~63	Colour7
5	5	Colour Wheel	64~71	Colour8
			72~79	Colour9
			80~87	Colour10
			88~95	Colour11
			96~ 103	No Colour
			104~221 ₁	Colour Arbitrary Positioning
			222~238 ₁	Rotate Left
			239~255 ₁	Rotate Right
6.	6.	Cyan	0~255	
7.1	7.	Magenta	0~255	
811	81	Yellow	0~255	
9	9	Colour Temperature	0~255	

			0~3	No Gobo
			4~7	Gobo1
			8~11	Gobo2
			12~15	Gobo3
			16~19	Gobo4
			20~23	Gobo5
			24~27	Gobo6
			28~31	Gobo7
			32~35	Gobo8
			36~39	Gobo9
			40~43	Gobo 10
			44~47	Gobo11
			48~51	Gobo12
			52~55	Gobo13
			56~59	No Gobo
10	10	Fixed Gobo	60~67	Gobo1 Shake From Slow To Fast
		I Mod dobo	68~75	Gobo2 Shake From Slow To Fast
			76~83	Gobo3 Shake From Slow To Fasta
			84~91	Gobo4 Shake From Slow To Fasti
			92~99	Gobo5 Shake From Slow To Fasti
			100~107	Gobo6 Shake From Slow To Fasta
			108~115	Gobo7 Shake From Slow To Fast
			116~ 123	Gobo8 Shake From Slow To Fasti
			124~ 131	Gobo9 Shake From Slow To Fasti
			132~139	Gobo10 Shake From Slow To Fasta
			140~147	Gobo11 Shake From Slow To Fasti
			148~ 155	Gobo11 Shake From Slow To Fasti
			156~ 163	Gobo13 Shake From Slow To Fasti
			164~ 167	No Gobo
			168~211	Rotate Left
			212~255	Rotate Right
			0~7	No Gobo
			8~15	Gobo1
			16~23	Gobo2
			24~31	Gobo3
			32~39	Gobo4
			40~47	Gobo5
			48~55	Gobo6
				Gobo7
			56~63 64~71	
	l			No Gobo
11	11	Rotating Gobo	72~79 80~87	Gobo1 Shake From Slow To Fast
				Gobo2 Shake From Slow To Fast
			88~95	Gobo3 Shake From Slow To Fast
			96~103	Gobo4 Shake From Slow To Fast
		104~111	Gobo5 Shake From Slow To Fast	
			112~119	Gobo6 Shake From Slow To Fast
			120~127	Gobo7 Shake From Slow To Fast
			128~135	No Gobo
			136~ 195	Rotate Left
			196~255	Rotate Right
			0~3	No Effect
12	12	Gobo Rotation	4~123	R-Gobo Angle
12	'-	12 Gobo Rotation	124~ 187	Rotate Left
			188~191	Stop
			192~255	Rotate Right

13	13	Dimmer	0~255	
14		Dimmer 16bit	0~255	
		Dilliller Tobic	0~3	Open
			4~67	Strobe 1
			68~99	Strobe 2
			100~131	Strobe 3
	١.,	Or and a	132~175	Strobe 4
15	14	Strobe	176~247	Strobe 5
			248~251	Random Strobe1
			252~255	Random Strobe2
			0~63	Refresh Rate 1200 Auto
16	15	Dimmer Mode	64~127	Refresh Rate 1200 Fast
		5	128~`191	Refresh Rate 13672 Auto
			192~255	Refresh Rate 13672 Fust
17	16	Prism	0~31	No Prism
17	10	THOM	32~255	Prism1 On
			0~3	Prism Stop
			4~123	Prism Angle
18	17	Prism Rotation	124~187	Rotate Left Fast To Slow
			188~191	Stop
			192~255	Rotate Right Slow To Fast
19	18	Zoom	0~255	Notate right slow to rast
20		Zoom 16bit	0~255	
21	19	Focus		
	19		0~255	
22		Focus 16bit	0~255 0~3	Do Not Use Auto Focus
		20 Auto Focus Distance fine® Reserved®		
00			4~63	5M
23	20		64~ 127	7.5M
			128~191	10M
			192~255	15M
24	21	Auto Focus Distance Fine	0~255	Continuous Adjustment Within The Above
24	21	Auto i ocus distance i me	0 233	Distance Range
			0~127	Open To Close
			128~135	Close
			136~173	Iris Movement 1
25	22	Iris Open	174~211	Iris Movement 2
			212~249	Iris Movement 3
			250~255	Close
			0~9	No Effect
26	23	Frost	10~255	Liner Frost
27	24	Coon Coood	0~255	
21	24	Scan Speed	+	Fast To Slow
			0~19	no used
		25 Control	20~29	reset all
			30~39	reset pan,tilt
			40~49	reset colour,gobo,CMY,CTO
			50~59	reset zoom,focus,prism,frost
28	25		60~69	No effect
-5	25 Control	3311101	70~74	display default
			75~79	display off(don't Keep after shutdown)
			80~84	display on(don't Keep after shutdown)
			85~89	fan speed low(Keep after shutdown)
			90~94	fan speed medium(Keep after shutdown)
				, , , ,
			95~99	fan speed high(Keep after shutdown)
				Please Hold The Value For More Than 8
				Seconds To Take Effect,And Then Return
	1	1	1	To 0 To Avoid Repeated Activation.

9. Specification

OPTICS

•Light Source :300W White LED Module •Lifetime: 50000 Hours

•Color temperature:7000K

MOVEMENT

•Pan movement:540°(16 bit) •Tilt movement:270°(16 bit) •Automatic reset function

COLORS

•1+11colors. Bi-directional rainbow effect

Linear CMY+CTO

GOBOS

•Fixed gobo wheel: 14 gobos + open

•Rotating gobo wheel: 7 HD interchangeable gobos +open

FEATURE

•Prism:1 rotating and indexable prism (3,8,16,24 facet option)

•Iris: Linear adjustable with macro

•Frost: 1 pcs Frost Filter, linear frost

•Focus: Auto focus

•Zoom: 5°-45°linear adjustment

•Dimmer: 0-100% linear dimmer

•Strobe: Electronic strobe, 0.3-20Times/SEC

CONTRAOL AND PROGRAMMING

•Standard mode: 25 channels

•Control mode: DMX512, 3-pin/5-pin DMX512; protocols RDM;

wireless (option) and Art-Net (option)

•Manual programming: DMX and RDM data in/out

•Fan mode: NORMAL/PERFORMANCE/QUIET

OTHER FUNCTION

•2.4inch color LCD screen

·High reliability touch button

•Support Multi-language

•Automatic monitoring of light source temperature,

high temperature automatic protection

•Intelligent cooling system

•DMX512 Software update

•Display lamps use time

•100% brightness without stroboscopic problem

•Internal rechargeable battery (3.7V rechargeable lithium-ion battery)

•Maintenance mode

•Intelligent control of wind speed

•Reverse display

•Control panel lock

POWER SUPPLY

•Input voltage:100V~240V AC 50/60Hz

•Rate power:500W@220V

•Power socket: power connector input and output

•DMX and RDM data in/out: Locking 3-pin / 5-pin XLR

HOUSING

•Environmentally friendly flame retardant materials

•High temperature resistant engineering plastics

•Device locking PAN and TILT mechanisms for transportation and maintenance.

•Intellectual property rights of appearance and structure design

IP GRADE

•IP:20

DIMENSION AND WEIGHT

•Product Size:

•Carton size:680x450x345mm

•Flight case size(2in1): 540x500x820mm

•Net weight:15KG

10. Maintenance Cleaning

The following points have to be considered during the inspection:

- 1)All screw for installing the devices or parts of the device have to be tightly connnected and must be corroded.
- 2)There must not 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

Futher instruction 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 male the lights in good condition and extend the life time, we suggest a regular clearning 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 detail electric check by approved electrical engineer each three month, make sure the circuit contacts are good condition, prevent the poor contact of circuit from overheating.

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

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