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! Disconnct 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.

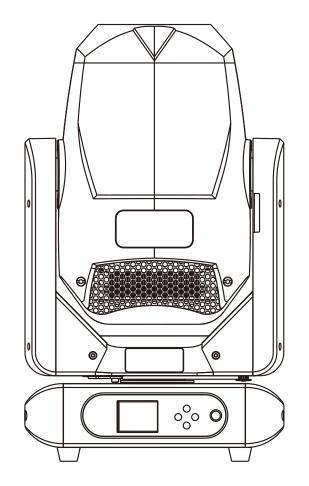
2)Clean the fan each week.

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.

UPRO Vader BWS





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, theater, 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 lightOne
OmegaTwo
Signal CableOne
Power CableOne
User ManualOne

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+7colors, 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 interchangeable rotating and indexable prism (3,8,16,24 facet option)
Iris: Linear adjustable with macro
Frost: 1 pcs Frost Filter, linear frost
Focus: DMX 512 linear focus
Zoom: 5°-45°linear adjustment
Dimmer: 0-100% linear dimmer
Strobe: Electronic strobe,0.3-20Times/SEC

CONTRAOL AND PROGRAMMING

 Standard mode: 24 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

DIMENSION AND WEIGHT

Product Size:
 Carton size:
 Flight case size(2in1):
 Net weight:18KG

13	Dimmer	0~255	
		0~3	Open
		4~67	Strobe 1
		68~99	Strobe 2
14	Chucho	100~131	Strobe 3
	Strobe	132~175	Strobe 4
		176~247	Strobe 5
		248~251	Random Strobe1
		252~255	Random Strobe2
	Dimmer Mode	0~63	Refresh Rate 1200 Auto
		64~127	Refresh Rate 1200 Fast
15		128~`191	Refresh Rate 13672 Auto
		192~255	Refresh Rate 13672 Fust
	-	0~31	No Prism
16	Prism	32~255	Prism1 On
		0~3	Prism Stop
		4~123	Prism Angle
17	Prism Rotation	124~187	Rotate Left Fast To Slow
		188~191	Stop
		192~255	Rotate Right Slow To Fast
18	Zoom	0~255	
19	Focus	0~255	
		0~3	Do Not Use Auto Focus
		4~63	5M
20	Auto Focus Distance	64~127	7.5M
20	(Reserved)	65~191	10M
		192~255	15M
	Auto Focus Distance Fine	152 255	Continuous Adjustment Within The Above
21	(Reserved)	0~255	Distance Range
		0~127	Open To Close
		128~135	Close
	Iris Open	136~173	Iris Movement 1
22		174~211	Iris Movement 2
		212~249	Iris Movement 3
		250~255	Close
		0~9	No Effect
23	Frost	0~9 10~255	Liner Frost
24	Scan Speed	0~255	Fast To Slow
	Jean Speed	0~235	no used
		0~19 20~29	reset all
		20~29	reset pan,tilt
	Control	30~39 40~49	reset colour,gobo,CMY,CTO
		40~49 50~59	reset zoom,focus,prism,frost
		50~59 60~69	No effect
25			
		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	To 0 To Avoid Repeated Activation.

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.

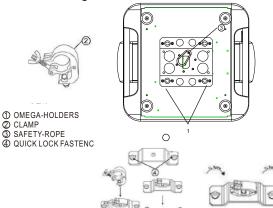
Mounting points:

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.



		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	Gobo10
		44~47	Gobo11
		48~51	Gobo12
		52~55	Gobo13
		56~59	No Gobo
10	Fixed Gobo	60~67	Gobo1 Shake From Slow To Fast
10	Tixed Gobb	68~75	Gobo2 Shake From Slow To Fast
		76~83	Gobo3 Shake From Slow To Fast
		84~91	Gobo4 Shake From Slow To Fast
		92~99	Gobo5 Shake From Slow To Fast
		92~99 100~107	Gobo6 Shake From Slow To Fast
		108~107	Gobo7 Shake From Slow To Fast
		116~123	Gobo8 Shake From Slow To Fast
		124~131 132~139	Gobo9 Shake From Slow To Fast Gobo10 Shake From Slow To Fast
		140~147	Gobo11 Shake From Slow To Fast
		148~155	Gobo12 Shake From Slow To Fast
		156~163	Gobo13 Shake From Slow To Fast
		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
		56~63	Gobo7
		64~71	No Gobo
11	Rotating Gobo	72~79	Gobo1 Shake From Slow To Fast
		80~87	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
		196~255 0~3	Rotate Right No Effect
			· ·
12	Gobo Rotation	0~3	No Effect
12	Gobo Rotation	0~3 4~123	No Effect R-Gobo Angle

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;

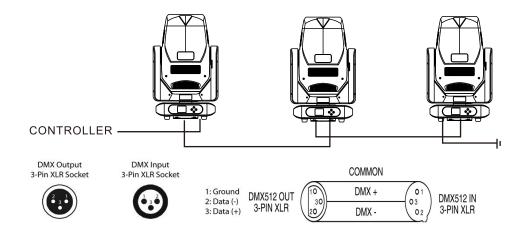
3. In the absence of the DMX512 signal, only need to set up first items, namely the address code can be used lamps.

8. 25 Control Channels

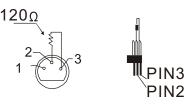
25CH	Function	Value	Feature
1	Pan	0~255	
2	Pan Fine	0~255	
3	Tilt	0~255	
4	Tilt Fine	0~255	
	1	0~7	No Colour
		8~15	Colour1
		16~23	Colour2
		24~31	Colour3
	Colour Wheel	32~39	Colour4
		40~47	Colour5
		48~55	Colour6
5		56~63	Colour7
Э		64~71	Colour8
		72~79	Colour9
		80~87	Colour10
		88~95	Colour11
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

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.

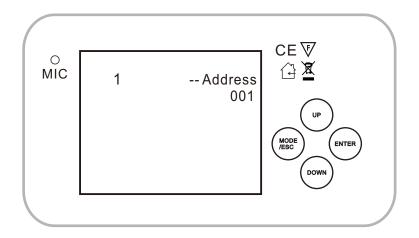


For installations where the DMX cable has to run a long distance or is in an electrically noisy enviromentsuch as in a disco, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control singal by electrical noisy. The DMX terminator is simply an XLR plug with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

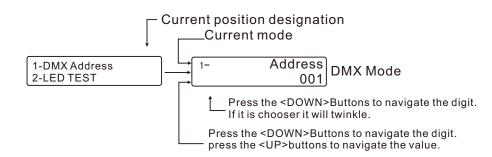


The control Display

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