

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 connected 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.

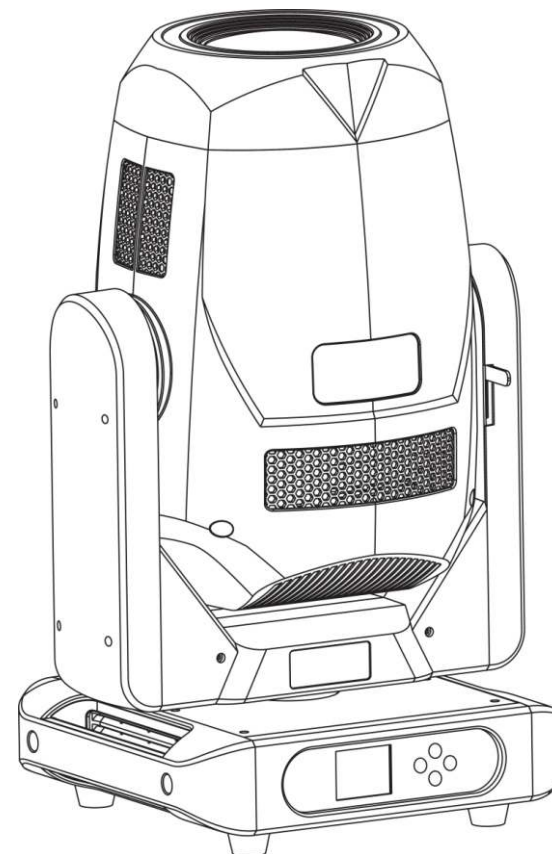
In order to male the lights in good condition and extend the life time, we suggest a regular clearning to the lights.

- 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.

Favolite

Vader BWS 700II



USER MANUAL

1.Unpacking

Thank you for choosing Vader BWS 700 II .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 700 II 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 700 II adopts powerful 580W 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

FEATURE

- Prism:1 pcs rotating prism(3,4,5,8,16 facet option)
- Iris: Linear adjustable with macro
- Soft lighting:1pcs independent scrim
- Focus: DMX 512 linear focus
- Dimmer: 0-100% linear dimmer
- Strobe: Electronic strobe,0.3-20Times/SEC
- Zoom: Smooth and fast speed
- Angle:6.5°-42°linear adjustment
- Prism angel can option
- Control mode: DMX512,Protocols RDM, Wireless (optional) and Art-Net (optional),sACN (optional)
- Standard mode 28/30 channels, Sound control mode, Stand-alone, Self-inspection mode

OTHER FUNCTION

- DMX Software update
- Show software version number
- Intelligent control of wind speed
- Display lamps and lanterns use time
- 100% brightness without stroboscopic problem
- Manual programming function
- Manual fine calibration function
- DMX and RDM data in/out,artnet,wireless

POWER

- Input voltage:100V~240V AC 50/60Hz
- Rate power:800W@220V

HOUSING

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

IP GRADE

- IP:20

DIMENSION AND WEIGHT

- Carton size:750*460*520MM
- Flight case size(2in1):940X470X870 MM
- Net weight:23KG

25	27	Animation Wheel On/Off	0~7	No Animation Effect
			8~255	Animation Effect Linear Insertion
		Animation Wheel On/Off	0~7	No Effect
			8~127	Rotate Left
			128~135	Rotate Stop
			136~255	Rotate Right
		Frame 1A	0~255	
		Frame 1B	0~255	
		Frame 2A	0~255	
		Frame 2B	0~255	
		Frame 3A	0~255	
		Frame 3B	0~255	
		Frame 4A	0~255	
		Frame 4B	0~255	
		Frame Angle	0~7	No Effect
			8~239	Angle
			240~255	Rotate Left And Right
		Frame Angle Fine	0~255	
		Frame Macro	0~3	No Effect
			4~255	Total 63 Effects(One Effect Per 4)
27	29	Scan Speed	0~255	Fast To Slow
			0~19	No Used
			20~29	Reset All
			30~39	Reset Pan,Tilt
			40~49	Reset Colour,Gobo,CMY,CTO
			50~59	Reset Zoom,Focus,Prism,Frost
			60~69	Reset Flame,Iris,Frame
			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 To 0 To Avoid Repeated Activation.

9.Specification

OPTICS

- Light Source :580W White LED Module
- Lumen: 20,500
- Lifetime: 50000 Hours
- Color temperature:7000K
- CRI: at least 70, CT 7000K
- CRI: at least 90, CT 5700K

MOVEMENT

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

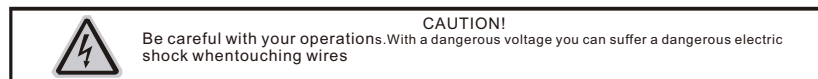
COLORS

- Linear CMY+CTO
- Colors wheel:1+6colors

GOBOS

- Gobos wheel:1pcs rotation Gobo wheel +1pcs fixed Gobo wheel
- Animation wheel

2.Safety instructions



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 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 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 areas where 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.

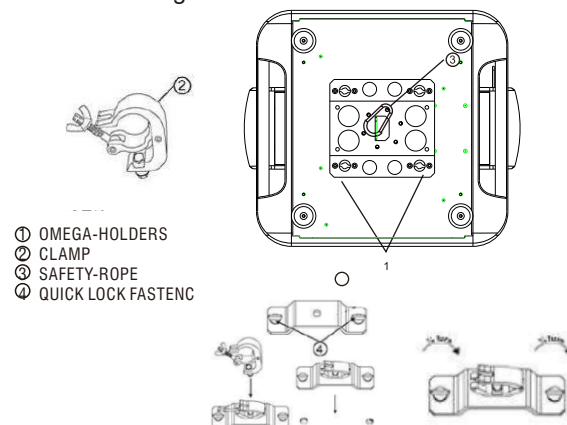
Never stand directly below the device when mounting, removing, or serving the fixture from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5ft) away from any flammable materials (decoration etc.) Always use and install the supplied safety 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 V 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 a truss, be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the OMEGA BRACKET.



11	11	Rotating Gobo	0~7	No Gobo
			8~15	Gobo1
			16~23	Gobo2
			24~31	Gobo3
			32~39	Gobo4
			40~47	Gobo5
			48~55	Gobo6
			56~63	No Gobo
			64~71	Gobo1 Shake From Slow To Fast
			72~79	Gobo2 Shake From Slow To Fast
			80~87	Gobo3 Shake From Slow To Fast
			88~95	Gobo4 Shake From Slow To Fast
			96~103	Gobo5 Shake From Slow To Fast
			104~111	Gobo6 Shake From Slow To Fast
			112~135	No Gobo
12	12	Gobo Rotation	136~195	Rotate Left From Fast To Slow
			196~255	Rotate Right From Slow To Fast
			0~3	No Effect
			4~123	R-Gobo Angle
			124~187	Rotate Left
13	13	Dimmer	188~191	Stop
			192~255	Rotate Right
14	14	Dimmer Fine	0~255	
15	15	Strobe	0~3	Open
			4~67	Open<-->Close
			68~99	Close->Open
			100~131	Open->Close
			132~175	Half Open And Half Close
			176~247	Pulse Strobe
			248~251	Synchronous Random Strobe
			252~255	Asynchronous Random Strobe
16	16	Dimmer Mode	0~63	Refresh Rate 1200
			64~127	
			128~191	Refresh Rate 13672
			192~255	
17	17	Prism1	0~31	No Prism
			32~255	Prism1 On
18	18	Prism1 Rotation	0~3	Prism Is 0
			4~123	Prism Angle
			124~187	Rotate Left
			188~191	Stop
			192~255	Rotate Right
19	19	Zoom	0~255	
20	20	Zoom Fine	0~255	
21	21	Focus	0~255	
22	22	Focus Fine	0~255	
	23	Auto Focus Distance	0~3	Do Not Use Auto Focus
			4~63	5M
			64~127	7.5M
			65~191	10M
			192~255	15M
	24	Auto Focus Distance Fine	0~255	Continuous Adjustment Within The Above Distance Range
23	25	Iris	0~127	Open To Close
			128~135	Close
			136~173	Iris Movement 1
			174~211	Iris Movement 2
			212~249	Iris Movement 3
24	26	Frost	250~255	Close
			0~9	No Effect
			10~255	Liner Frost

Note:

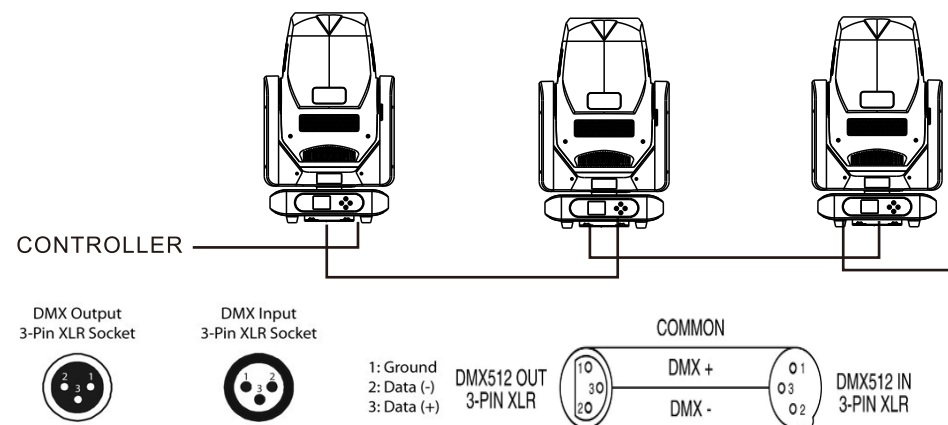
1. Above all projects to the actual lighting shall prevail, no notice if there is further modification;
2. The programming function provides only a very limited operation, in the case of no control units to use. Generally do not recommend the use of manual programming;
3. In the absence of the DMX512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

8. 28/30 Control Channels

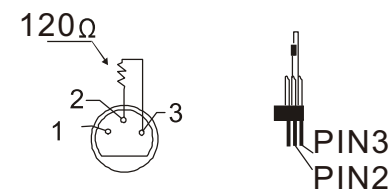
28CH	30CH			
1	1	Pan	0~255	
2	2	Pan Fine	0~255	
3	3	Tilt	0~255	
4	4	Tilt Fine	0~255	
5	5	Colour Wheel	0~7	No Colour
			8~15	Colour1
			16~23	Colour2
			24~31	Colour3
			32~39	Colour4
			40~47	Colour5
			48~55	Colour6
			56~63	No Colour
			64~221	Colour Arbitrary Positioning
			222~239	Rotate Left
			240~255	Rotate Right
6	6	Cyan	0~255	
7	7	Magenta	0~255	
8	8	Yellow	0~255	
9	9	Colour Temperature	0~255	
10	10	Fixed Gobo	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	Gobo8
			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	Gobo8 Shake From Slow To Fast
			136~143	No Gobo
			144~199	Rotate Left From Fast To Slow
			200~255	Rotate Right From Slow To Fast

5. DMX 512 Control connection

Connect the provide 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 Moving 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.

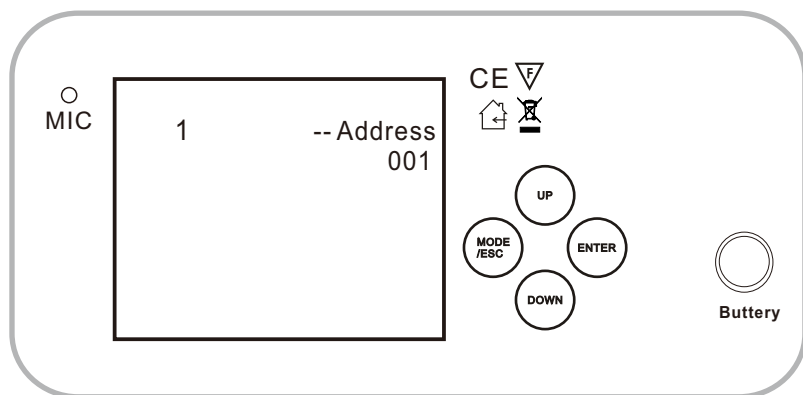


For installations where the DMX cable has to run a long distance or is in an electrically noisy enviromentsuch as in a disco, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control singal by electrical noisy. The DMX terminator is simply an XLR plug with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

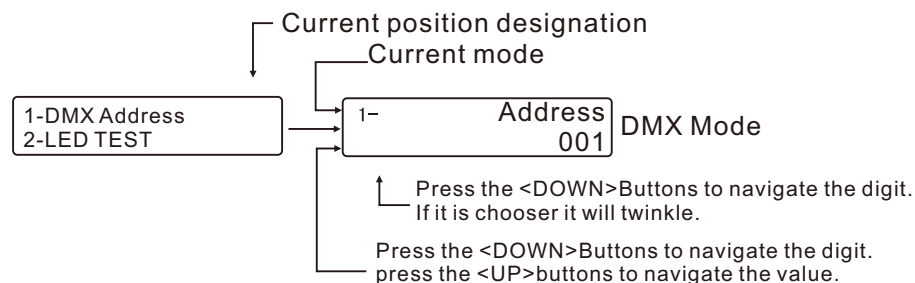


The control Display

6.Top menu,present the current operation



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.



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

7.Menu for Control Display

UNIVERSAL MENU		OPERATION OPTIONS
INFORMATION	ADDRESS	1~512
	RUNTIME	TIME
	VERSION	
	TEMPERATURE	MAIN BOARD(No Function) LIGHT SOURCE xx°C
	FAN SPEED	F1 F2 Case Fans G1 Blower for Color H2 No Definition L3 Light Source Fans
	ERROR MESSAGE	
SETTING	RESET	REBOOT DEFAULT DATA
	CHANNEL SET	28/30
	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	PAN
		TILT
		COLOUR1
		GOBO1
		GOBO2
		PRISM
		ZOOM
		FOCUS
		IRIS
		FOG
		C M Y CTO
		FRAME
		BLADE
		PRISM2
	ARTNET SET	IP Address Subnet Mask Universe
	RDM UID	xxxxxxxxxxxx
LAMP		(No Function)
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