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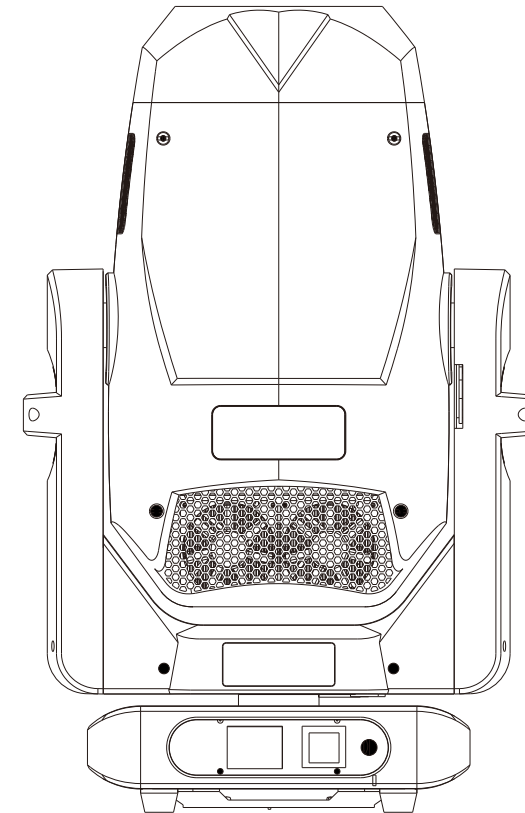1)Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2)Clean the fan each week.
3)A detail electric check by approved electrical engineer each three month, make sure the circuit contacts are good condition, prevent the poor contact of circuit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

PLUSlite
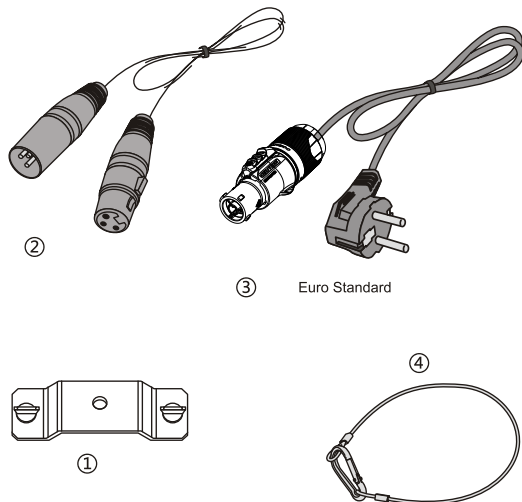
VERO 1000 BSWP - PL1000

USER MANUAL

PLUSlite

1.Unpacking

Thank you for choosing VERO 1000 BSWP.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 need.

The VERO 1000 BSWP 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.

VERO 1000 BSWP adopts powerful 1000W 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
Safty Wire----------------------One
User Manual-------------------One

②

③ Euro Standard

④

①

FEATURE
•Prism:2 pcs interchangeable, indexable prisms
(4 facet prism+linear prism),prism angel can option
•Iris: Linear adjustable with macro
•Frost:Soft edge frost and flood frost
•Focus: DMX 512 linear focus
•Dimmer: 0-100% linear dimmer
•Strobe: Electronic strobe,0.3-20Times/SEC
•Zoom: Smooth and fast speed
•Angle:5°-55°linear adjustment
•Animation Wheel: 1 x interchangeable disc, clockwise
and counter-clockwise rotation at variable speed.

CONTROL AND PROGRAMMING
•Standard mode :41/30 channels
•Control mode: DMX512,Protocols RDM, Wireless and Art-Net
•Display: Graphic LCD Display.
•Display battery: AAA,3.7V rechargeable lithium ion battery
•Firmware update Software: upload through DMX input.

FRAMING SYSTEM
•Motorized framing system with 4 focal planes
•4 Blades that move separately
•Smooth, flexible blade movements at variable speed
•Framing system indexable 180 degrees

OTHER FUNCTION
•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

POWER
•Input voltage:100V~264V AC 50/60Hz
•Rate power:1360W@220V

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

IP GRADE
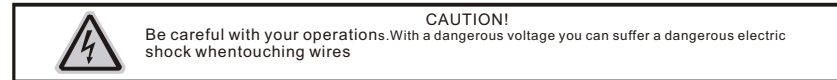•IP:20

DIMENSION AND WEIGHT
•Product size, base: 360 x 338 (mm)
•Product size, pan/tilt 0´: 758 x 488 (mm)
•Product size, pan/tilt 90´: 603 x 565 (mm)
•Carton size: 895 x 605 x 470 (mm)
•Flight case size(1in1): 660 x 630 x 830 (mm)
•Net weight: 34KG

32		Frame 2A	0~255	
33		Frame 2B	0~255	
34		Frame 3A	0~255	
35		Frame 3B	0~255	
36		Frame 4A	0~255	
37		Frame 4B	0~255	
38		Frame angle	0~7	No effect
			8~239	Angle
			240~255	Rotate left and right
39		Frame macro	0~3	No effect
			4~7	Effect 1
			8~11	Effect 2
			...	Effect ...
			252~255	Effect 63
40	29	Scan speed	0~255	Fast to slow
41	30	Reset	0~19	NC
			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 :1000W White LED Module
•Lumen: 40,000
•Lifetime: 50000 Hours
•Color temperature:6500K/7000K
  •-CRI: at least 70, CT 6500K
  •-CRI: at least 90, CT 7000K

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

COLORS
•Linear CMY+CTO
•Colors wheel:1+5colors

GOBOS
•Gobos wheel:1pcs rotation Gobo wheel +1pcs fixed Gobo wheel
•Animation wheel

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.
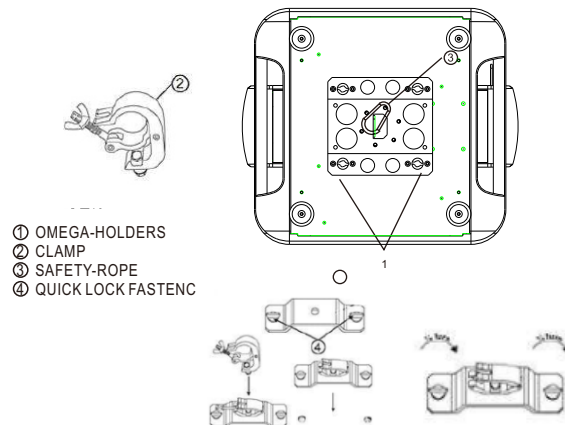
Mounting points:

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 VERO 1000 BSWP 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.

① OMEGA-HOLDERS
② CLAMP
③ SAFETY-ROPE
④ QUICK LOCK FASTENC

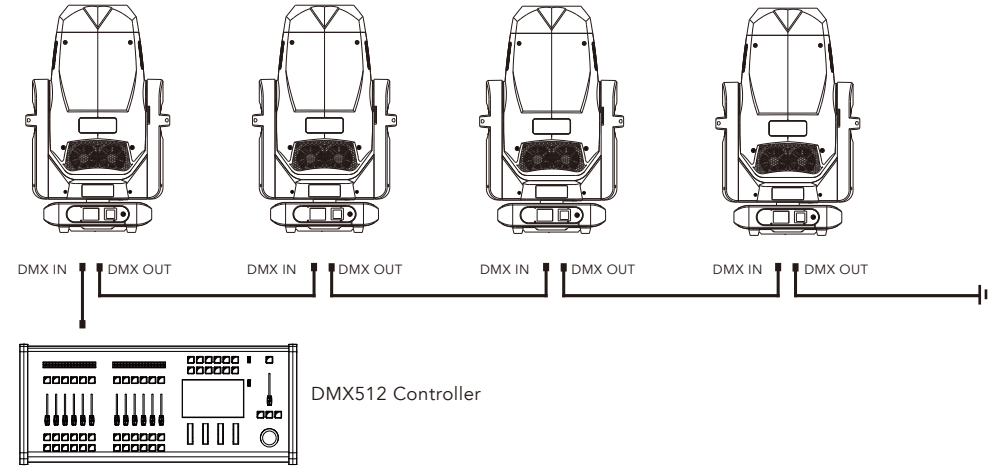|				
12	12	Gobo rotation	0~3	No effect
			4~123	Rotating gobo angle
			124~187	Rotate left
			188~191	Stop
			192~255	Rotate right
13	13	Dimmer	0~255	
14	14	Dimmer fine	0~255	
15	15	Strobe	0~3	Open
			4~67	Strobe 1
			68~99	Strobe 2
			100~131	Strobe 3
			132~175	Strobe 4
			176~247	Strobe 5
			248~251	Random strobe1
			252~255	Random strobe2
16	16	Dimmer mode	0~63	Refresh rate 1200 auto
			64~127	Refresh rate 1200 fast
			128~`191	Refresh rate 13672 auto
			192~255	Refresh rate 13672 fust
17	17	Prism1	0~31	No prism
			32~255	Prism1 on
18	18	Prism1 rotation	0~3	Prism stop
			4~123	Prism angle
			124~187	Rotate left fast to slow
			188~191	Stop
			192~255	Rotate right slow to fast
19	19	Prism2	0~31	No prism
			32~255	Prism2 on
20	20	Prism2 rotation	0~3	Prism stop
			4~123	Prism angle
			124~187	Rotate left
			188~191	Stop
			192~255	Rotate right
21	21	Zoom	0~255	
22	22	Zoom fine	0~255	
23	23	Focus	0~255	
24	24	Focus fine	0~255	
25		Iris open	0~127	Open to close
			128~135	Close
			136~173	Iris movement 1
			174~211	Iris movement 2
			212~249	Iris movement 3
			250~255	Close
26	25	Frost1	0~9	No effect
			10~255	Liner frost
27	26	Frost2	0~9	No effect
			10~255	Liner frost
28	27	Animation wheel	0~31	Flame OFF
			32~255	Flame 0~100%
29	28	Animation rotation	0~151	Flame angle
			152~247	Flame rotate
			248~255	Flame stop
30		Frame 1A	0~255	
31		Frame 1B	0~255	

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. 41/30 Control Channels

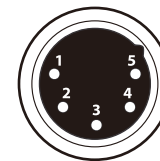| 1	1	Pan	0~255	
2	2	Pan fine	0~255	
3	3	Tilt	0~255	
4	4	Tilt fine	0~255	
5	5	Colour wheel	0~7	No colour
			8~15	Colour1
			16~23	Colour2
			24~31	Colour3
			32~39	Colour4
			40~47	Colour5
			48~63	No colour
			64~221	Colour Arbitrary positioning
			222~239	Rotate left
			240~255	Rotate right
6	6	Cyan	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
			56~71	No gobo
			72~143	Gobo Arbitrary positioning
			144~199	Rotate left
			200~255	Rotate right
11	11	Rotating gobo	0~8	No gobo
			9~17	Gobo1
			18~26	Gobo2
			27~35	Gobo3
			36~44	Gobo4
			45~53	Gobo5
			54~62	Gobo6
			63~71	No gobo
			72~135	Gobo Arbitrary positioning
			136~195	Rotate left
			196~255	Rotate right

5.DMX 512 Control connection

Connect the provice XLR cable to the female 5 pin XLR Output of your control and the other side to the male 5-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.
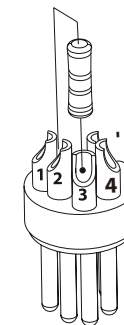

DMX IN   DMX OUT   DMX IN   DMX OUT   DMX IN   DMX OUT   DMX IN   DMX OUT

DMX512 Controller

For installations where the DMX cable has to run a long distance or is in an electri-cally 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
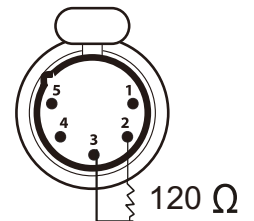
DMX - INPUT
XLR plug

Pin1 : GND - Shield
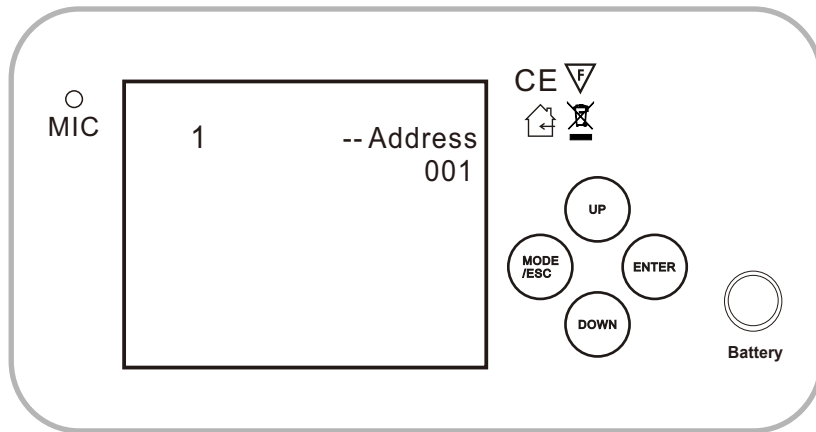Pin2 : - Signal
Pin3 : + Signal
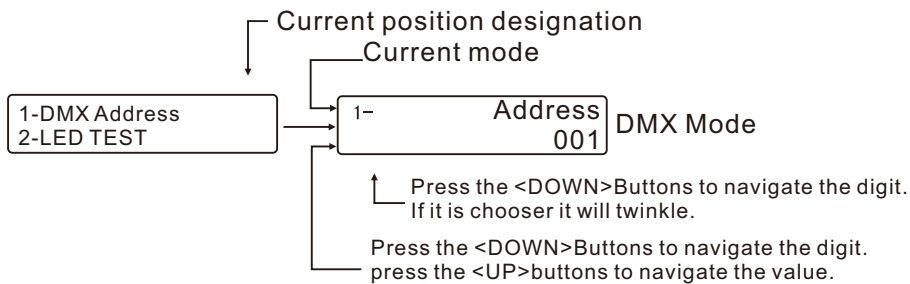Pin4 : N/C
Pin5 : N/C

DMX - OUTPUT
XLR socket

120 Ω

The control Display

6.Top menu,present the current opertion

MIC

1 -- Address
001

CE

UP
MODE/ESC
ENTER
DOWN

Battery

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

Current position designation
Current mode

1-DMX Address
2-LED TEST

1-   Address
001   DMX Mode

Press the <DOWN>Buttons to navigate the digit.
If it is chooser it will twinkle.

Press the <DOWN>Buttons to navigate the digit.
press the <UP>buttons to navigate the value.

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

Press the Battery button to set the DMX address.Please use **AAA,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

MASTER PROJECT		INSTRUCTION FR USE
INFORMATION	ADDRESS	1~512
	RUNTIME	TIME
	VERSION	
	TEMPERATURE	MAIN BOARD
		LIGHT SOURCE
	FAN SPEED	
	ERROR MESSAGE	
SETTING	RESET	REBOOT
		DEFAULT DATA
	CHANNEL SET	41/30
	SIGNAL	DMX512/ARTNET/PROGRAM
	OFFLINE SET	HOME/HOLD
	FAN MODE	NORMAL/PERFORMANCE/QUIET
	WIRELESS SET	ON/OFF
	ADJUST	
	ARTNET SET	IP address
		Subnet mask
		Universe
LAMP	AUTO ON	NC
	LIGHT UP	NC
	LAMP ADJUST	NC
	LAMP FAIL	NC
DISPLAY	LANGUAGE	ENGLISH/CHINESE
	BACKLIGHT	ON/OFF/FLASH
	REVERSE	ON/OFF/AUTO
USER	SETTING LOCK	Input code
	KEY LOCK	ON/OFF
	TEST	ON/OFF
	PROGRAM	SELECT PROGRAM 1~8
		PROGRAM 1~8

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