OBY-600 WASH User manual

GENI

CAUTION!

Risk of electric shock
Read instructions before installing
or connecting to power

contents

Congratulations!

Thank you for purchasing OBY Series that elaborate manufactured by Geni abundant experience of stage-lights. Hereafter you can get high quality and low breakdown products on the market from *Geni Electronics Co., Ltd.*; OBY Series concentrated unexpectedly lighting effects for animating stages.

If any question or suggestion you have, please offer the precious recommendation for improving our products and designs better; and create perspective and expectancy about future lighting.

Features

Great effect variety

Delicate and streamline appearance to allow movement and installation be easier
Smooth 570 rotation angle about the x-axis and 270 rotation angle about the Y-axis, electronic sensor to automatically reset
CMY mixer to allow the color to be various and richer and make color adjustment more accurate by adding offset color micro-adjusting function
One color disk with six dichroic color and open, which contains 3200° K CTC, be able to rotate in both directions smoothly to create heart-touching rainbow effect, in order to make color adjustment more convenient, a color macro function is added and in order to make color adjustment more accurate, an offset color micro-adjusting function is added
10-30 degree ZOOM effect
Frost lens with soft-edge frost
1-12fps fast flash with random and 0-100% mechanical exposure adjustment

Sophisticated appearance and structure design

Stylish, high impact resistant polymer shell, which is lighter than anyone else of the same class in the market.

Solid square base is convenient set on the TRUSS, or directly stand on the ground or stage for uses.

Systematic modular construction design has all inner function wheels and PCBs modularized, which allows version update or customization more convenient.

Sophisticated optical system makes light output more bright and sharp.

Simple and easy operation

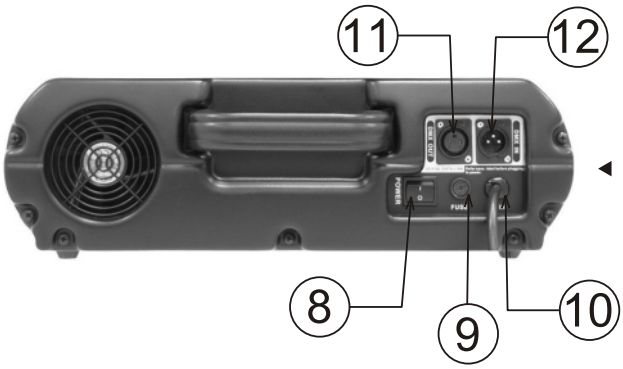
Standard USITT DMX512 protocol, 15 or 13 DMX Channel.

High-torque stepper motors, smooth and precise micro-stepping control.

LED screen controls DMX coding and built-in functions' election, as well as also display lamp's time usage.

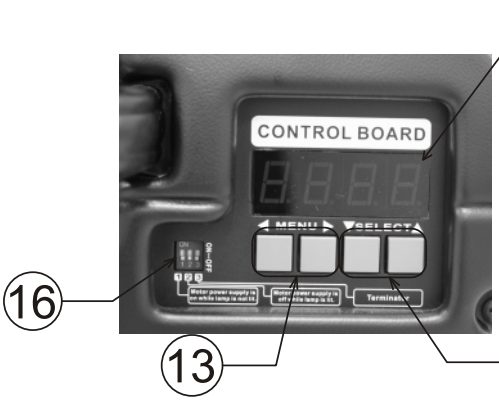
Description of the appearance

1.Projector-head
2.Yoke
3.Left side panel
4.Base
5.Control Board
6.Right side panel
7.Carring handles



Left side panel:
8.Power-switch
9.**Fuse-holder**
10.Powercord
11.DMX-output
12.DMX-input

Right side panel:



Control Board:
13.MENU (Function buttons)
14.Display
15.SELECT (ON/OFF or address number)
16.DIP Switch

Inspection

Carefully unpack the carton, and make sure if any damage or loss caused by transportation.

Contact your Geni dealer to assure your right by telephone or facsimile immediately if damage has occurred or if something is missing.

Packing List:
A. OBY-600 Wash
B.Operating Manual
C.Bracket
D.Lamps (Optional)

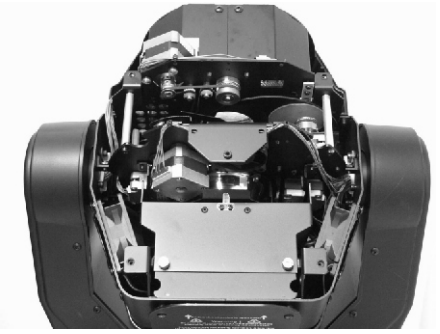
Safety instructions

- This appliance must be earthed (grounded).
- Disconnect power before removing covers or servicing.
- Keep case closed while operating.
- OBY-600 contains no user serviceable parts. Refer servicing to qualified technicians only.
- Lamp and components become hot during operation. Allow time to cool before handling.
- Keep flammable material at least one meter away from unit.
- Do not operate in wet conditions or near liquids.
- Keep air vents clear to avoid overheating.
- Lamp produces hazardous UV light. Do not look directly at lamp when lit.
- Replace any blown or damaged fuses only with those of identical values.

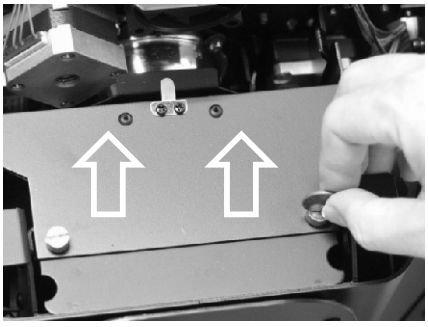
Lamp Installation

! Warning !
Remove the power cord before installing the lamp.

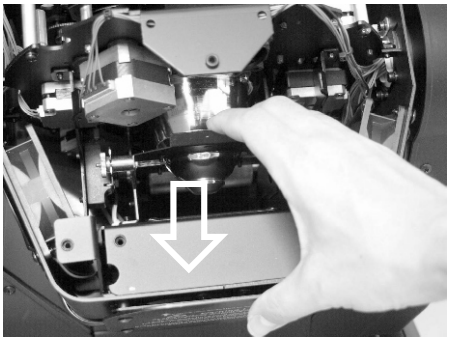
Keep projector-head upward (See Figure below.) and loosen four screws on the cover with appropriate tool then open the top cover and put it aside.

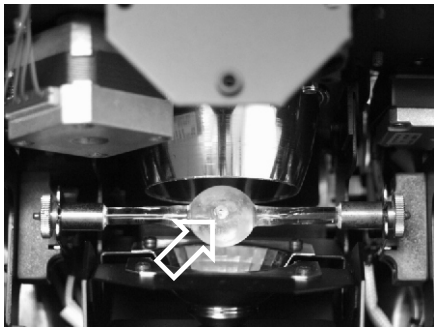


Loosen and grab the screws on the shutter cover with appropriate tool.



Pull the reflector backward

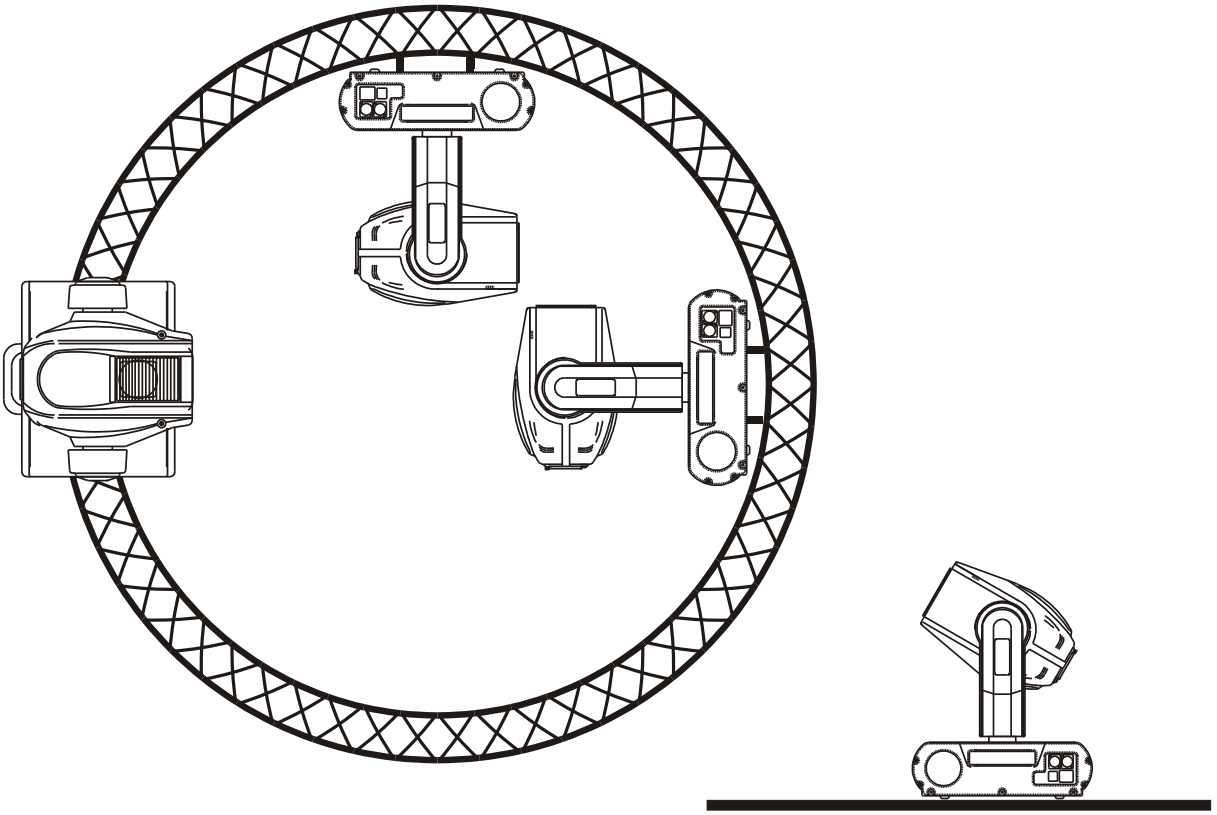




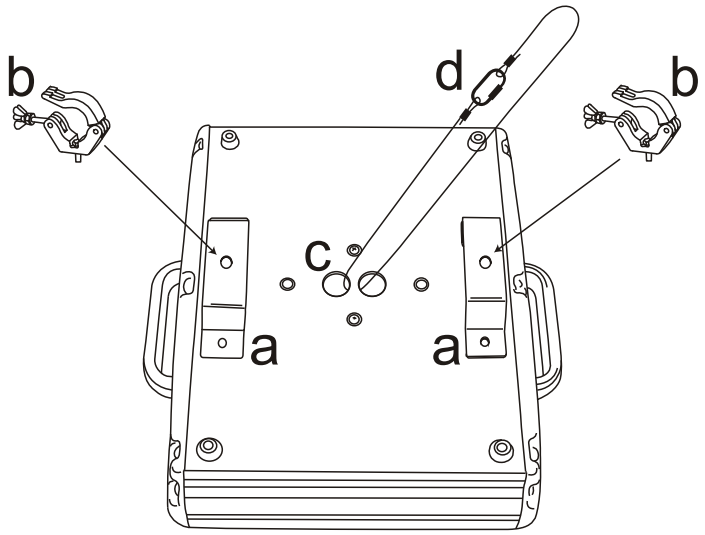
Wear the gloves and extract the lamp from the package, loosen the screws on both sides of the lamp, then slide the lamp paralleled into the lamp socket. Adjust the round point of the lamp upward (See Figure.) and fasten the screws snugly.
Reverse the above-mentioned processes for the complete installation.

Rigging:

Oby-600 can be set on the flat stage floor directly or use clamp to mount on any kinds of trusses for fitting the mobility of various venues.



Mount two attached brackets(a) on the bottom (See Figure), and collocate the appropriate clamps(b) to rig with trusses. Must use the safety ropes that can hold the ten times as heavy as the fixture through the eye bolts(c) on the bottom of the base and trusses; then join the safety ropes with screw-on carabines(d).



Connection with the mains

Connect the device to the mains with the power-plug.
The occupation of the connection-cables is as follows:

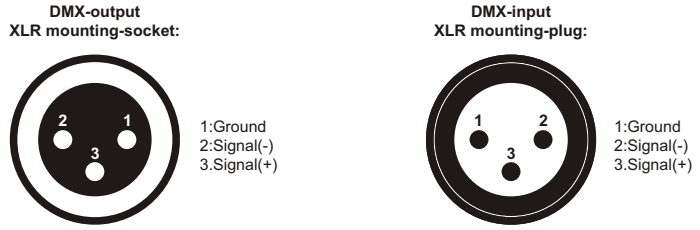
Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

The earth has to be connected! In general, lighting effects should not be connected to dimming-packs.

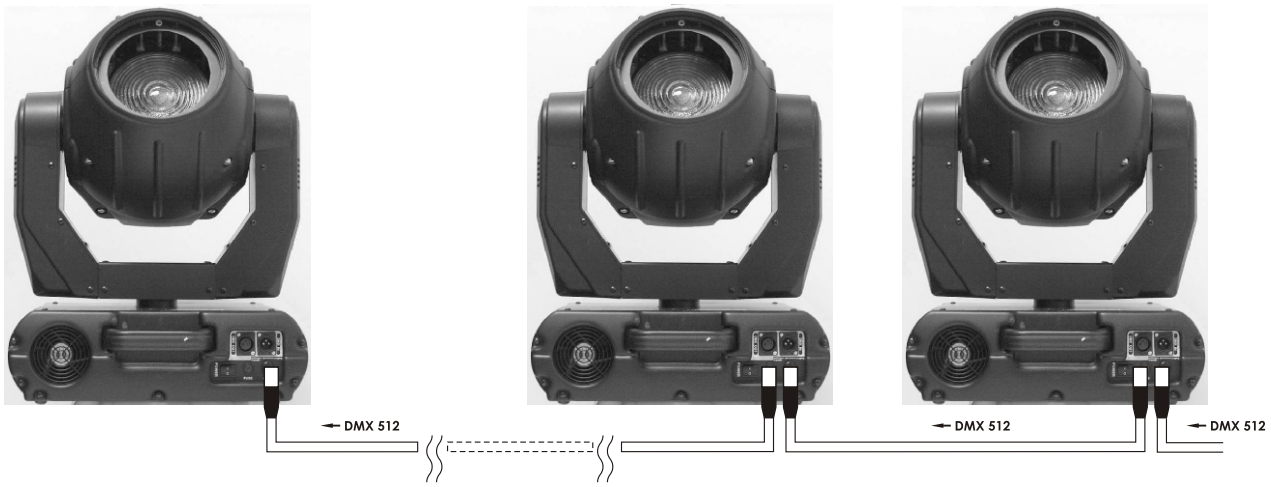
Linking

Use 3-pin XLR data cables to link the controller to DMX lighting equipment.

3-pin XLR connectors are follows:



Building a serial DMX-chain:

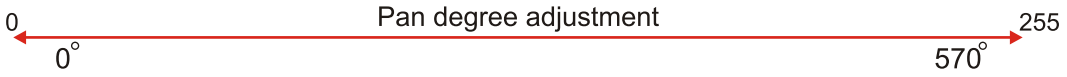
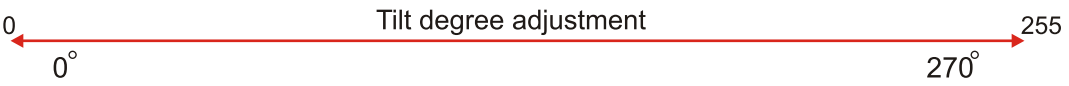


Connect the DMX output of the first fixture with the DMX input of the next fixture. And execute all the setups following the above-mentioned instruction.
Flip the DIP SWITCH #3 of last fixture to ON position for terminal confirmation.

DMX Channel chart

CH 1 Dimmer	0-255	Dimmer from dark to lightest.
CH 2 Shut	0 1-7 8-63 64-71 72-127 128-135 136-191 192-199 200-253 254-255	Close Open Shutter from slow to fast. Open Fade out fast to slow. Open Fade in slow to fast. Open Random shutter slow to fast Open
CH 3 Color wheel	0 18-35 36-51 52-71 72-89 90-107 108-127 128-187 188-195 196-255	White Red Blue Green Purple 5000K 3200K Forward rotate from fast to slow. Stop Reverse rotate from slow to fast.
CH 4 Cyan	0-255	From white to full cyan.
CH 5 Magenta	0-255	From white to full magenta.
CH 6 Yellow	0-255	From white to full yellow.

CH 7 Color macro	0-7 8-15 16-23 24-31 32-39 40-47 48-55 56-63 64-71 72-79 80-87 88-95 96-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	Macro off Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Macro 13 Macro 14 Macro 15 Macro 16 Macro 17 Macro 18 Macro 19 Macro 20 Macro 21 Macro 22 Macro 23 Macro 24 Macro 25 Macro 26 Macro 27 Macro 28 Macro 29 Macro 30 Macro 31
CH 8 Beam	0-63 64-127 128-143 144-255	Full beam. Frost filter. Flat and wide beam effect at 0°. Flat and wide beam effect can 90° adjustment.
CH 9 Zoom	0-255	Zoom from 10° ~ 30°

CH 10 Pan cors.		
CH 11 Tilt cors.		
CH 12 Pan fine.		X-axis fine tuning of 2° scale.
CH 13 Tilt fine.		Y-axis fine tuning of 1° scale.
CH 14 Control	0-7 8-63 64-127 128-191 192-255	Pan/Tilt adjustment in the auto movement mode（adjust nearness is moving slowly） Pan/Tilt adjustment in the manual mode（Adjust nearness is moving rapidly）. Make color wheel, cyan, magenta, yellow into offset calibration status after 3 seconds.（Pan coarse → Offset color wheel、Tilt coarse → Offset cyan、Pan fine → Offset magenta、Tilt fine → Offset yellow） Save offset value after counter 3 seconds. Reset whole motors after counter 3 seconds
CH 15 Lamp switch	0-47 48-95 96-159 160-207 208-255	No function. Switch On the lamp after counter 3 seconds. No function. Switch Off the lamp after counter 3 seconds. No function.

Function of the control channels - 8 bit protocol

DMX Channel	Function
1	DIMMER
2	SHUT
3	COLOR
4	CYAN
5	MAGENTA
6	YELLOW
7	COLOR MACRO
8	BEAM
9	ZOOM
10	PAN COARSE
11	TILT COARSE
12	CONTROL
13	LAMP ON/OFF

Control Board

Addr	Press ▲ to increase DMX Address; ▼ to decrease. Press ▲▼ simultaneously to zero DMX address.
LP.ti	Used lamp time Press▲▼simultaneously to zero lamp time , unit: hour
Shut	Off:Normal. On:Blackout during color wheel was moving .
CoLo	Off:Assign the color wheel linear movement. On:Assign the color wheel fixed step advance.
Focu	Off: Normal On: Focus adjustment
r.PAn	X-axis- Off: left to right On: right to left
r.tilt	Y-axis- Off: down to up On: up to down
16bit	Off: 8bit control model On: 16bit control model
dEMo	Off: Normal On: Self-demonstration
SoFt	Off: Quick paced function demonstration. On: Slow paced function demonstration.
dP.SE	Off: Display off ; On: Display on While 'Off ', press any key to turn on the display
rSEt	Off: Normal On: Self-zero all motors once
dF.SE	Off: Normal On: Reset the unit as ex-works. Default returns to "OFF" position.
LAMP	Off:Lamp off On:Lamp on
turn	Off:Usually watch display. On:Reverse watch display.

- Press ◄► simultaneously returning to " Addr ".
- Press ◄► simultaneously in advance before switching on the unit, release ◄► to erase all recorded data after switching the unit as ex-works.
- Once operation stopped, the unit stores all data. When restarting the unit, it starts with the latest play of last operation before turning off the unit.

Replacing the Fuse

If the fixture does not function, that may be the fuse was burned out. It may be time to replace the fuse of same type and specification for eliminating this fault.

Remove the electric power and flip the switch to " off " position before replacing the fuse.

Replace the fuse as follows:

Step 1: Unscrew the screw of the fuse holder on the housing counterclockwise with appropriate tools.

Step 2: Remove the broken fuse and then replace the new fuse.

Step 3: Reinsert and tighten the screw on the fuse-holder.

Step 4: Turn the power on for test.

Please contact with the dealer if the fixture still cannot work or the fuse burns out again.

Product Specifications

Physical

Dimension (L x W x H):	416 x 400 x 564 mm
Weight:	230V /27.5 kg, 110V /30.5 kg

AC supply

AC input:	Certified power cord with plug or without plug
Voltage:	Magnetic - 210/230/245V / 50Hz, 208/230V / 60Hz Electronic ballast - 100/120 /210/230/250V, 50/60Hz
Fuse:	230V 7A, 110V 15A
Power Consumption:	800W

Control and programming

Signal pinout:	pin 1 shield, pin 2 (-), pin 3 (+)
Setting and addressing:	LED control panel
Protocol:	USITT DMX-512
Pan/tilt resolution:	8 or 16 bit
DMX channels:	13-15
Signal input:	3-pin XLR male
Signal output:	3-pin XLR female

Source

Lamp:	575W discharge
Approved models:	Philips MSI-575/HR (1000 hr; 6000K) Philips MSI-575/2 (1000 hr; 6500K) Osram HMI-575/GS (750 hr; 6000K)
Control:	Automatic and DMX remote on/off
Ballast:	Electronic & magnetic

Electromechanical effects

Cyan:	0-100% + offset adjustment
Magenta:	0-100% + offset adjustment
Yellow:	0-100% + offset adjustment
Color wheel:	6 colors, 3200 ° K CTC included + open + offset adjustment
Zoom:	10 ° -30 °
Frost effect:	Full beam, soft-edge frost
Flat & Wide:	Beam shape adjustment 0 ° -90 °
Dimmer/Shutter:	Infinite dimming and strobe 1~12 fps with random
Pan:	0 ° -570 °
Tilt:	0 ° -270 °