

GL 150BSW/260BSW



USB update

USER MANUAL

CP2018100PD.1

WWW.GLEELITE.COM

GL 150 Beam Spot Wash

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CAUTION!

Keep this device away from rain and moisture! Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START - UP!

1. Safety instructions

Every person involved with installation and maintenance of this device have to:

- be qualified
- follow the instructions of this manual

CAUTION!

Be careful with your operations.
With a high voltage you can suffer
a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

Never let the power-cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!

Make sure that the available voltage is not higher than stated on the rear panel.

WARNING! Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the unit.

Make sure that the power cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth. The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)! For replacement use fuses of same type and rating only.

Warning! Risk Group 2 LED product according to EN 62471. LED light emission. Risk of eye injury!

Do not look straight at the fixture's LED source during operation. The intense light beam may damage your eyes.

Do not view the light output with optical instruments or any device that may concentrate the beam.

2. Operating determination

This device is a moving head for creating decorative effects and was designed for indoor use only. This device is for professional use only. It is not for household use.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Do not shake the device. Avoid brute force when installing or operating the device.

Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.

When choosing the installation spot, please make sure that the device is not exposed to extreme heat, moisture or dust.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety rope. Fix the safety rope at the correct holes only.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

The maximum ambient temperature 45°C must never be exceeded.

CAUTION!

The lens has to be replaced when it is obviously damaged, so that its function is impaired, e. g. due to cracks or deep scratches!

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

Do not block the front objective lens with any object when the fixture is under operation.

The fixture housing never must be covered with cloth or other materials.

Please use the original packaging if the device is to be transported.

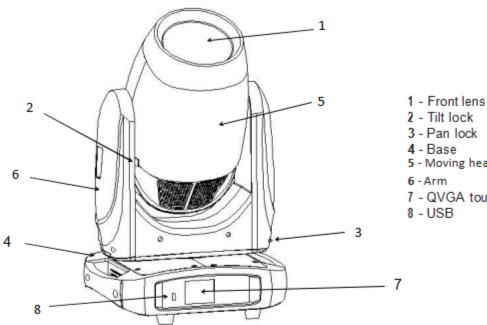
Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-cir-cuit, burns, electric shock, burns etc.

CAUTION!

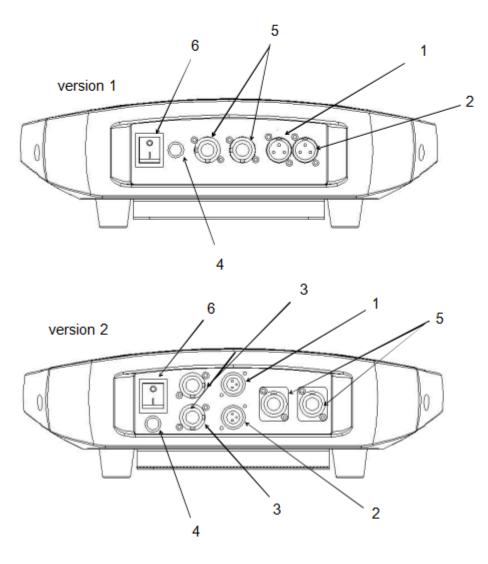
To avoid damage of the internal parts of the fixture head, never let the sunlight or other fixture lights directly to the front lens, even when the fixture is not working!

3. Fixture exterior view



- 5 Moving head
- 7 QVGA touch screen

The head should be locked for transportation - both tilt lock latch (2) and pan lock latch (3) have to be in locked positions. Move these latches to unlock positions before operating the fixture.



Rear panel of the base: 1 -

- 3-pin DMX Out
- 2 3-pin DMX In
- 3 Ethernet
- 4 Fuse holder
- 5 Power
- 6 Switch

4. Installation

Fixtures must be installed by a Qualified electrician in accordance with all national and local electrical and construction codes and regulations.

4.1 Connection to the mains

For protection from electric shock, the fixture must be earthed!

For protection from electric shock, the fixture must be earthed!

The GL G150BSW is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts. Power cord is enclosed to the fixture. Install a suitable plug on the power cord if needed, note that the cores in the power cord are coloured according to the following table. The earth has to be connected! If you have any doubts about proper installation, consult a qualified electrician.

Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

4.2 Replacing rotating gobos

DANGER!

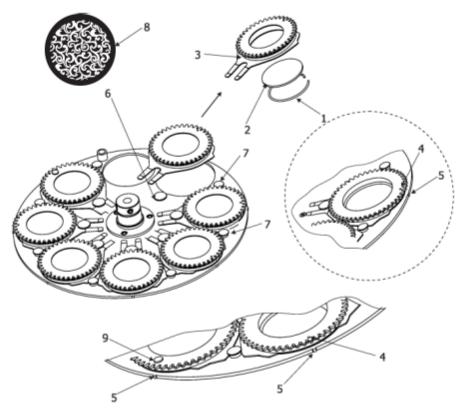
Install the gobos with the device switched off only. Unplug from mains before!

- 1. Disconnect the fixture from mains and allow it to cool.
- Remove the plastic cover of the head by loosening the 4 quarter-turn fasteners on the cover.
- Gently pull up the gobo holder (3) from the rotation gobo wheel.
- 4. Remove the spring lock (1) with an appropriate tool (e.g. small-bladed screwdriver) and remove it. Do not touch the surface of the pattern of the glass gobo with bare fingers.
- 5. Remove the original gobo (2) and insert the new one (glazy side towards the light source). The Gleelite gobo has a small position point (8) at its edge which has to aimed at the position point (4) on the gobo holder (4). Insert the spring lock to secure correct gobo position in the gobo holder.
- 6. Insert he gobo holder back under the distance slots (6, 7) into rotating gobo wheel in this way, that its position point (4) has to aimed at a small toothlike projection (5) on the edge of the rotating gobo wheel.

Important! When inserting the gobo holder back to the rotating gobo wheel, one of the adjacent gobo holder has to be oriented according to the same rule, it means that its position point (4) has to aimed at the toothlike projection (5) on the edge of the rotating gobo wheel. You have keep both marks (4) and (5) side by side when rotating the gobo wheel to the position allows inserting the gobo holder back.

- Replace the plastic cover before applying power.
- Use the menu Service to fine adjust replaced gobo (Service -> Calibration -> Calibrate effects -> R. Gobo Index 1 ...R. Gobo Index 6).

Note. The magnet (9) of the gobo holder has the same function as the position point (4) on the rest of gobo holders.



4.3 Rigging the fixture

The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The projector should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, 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, but instead use a professional structural rigger. Improper installation can result in bodily injury or damage to property.

The fixture has to be installed out of the reach of people.

If the fixture shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The fixture must never be fixed swinging freely in the room.

Caution: Fixtures may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

Danger of fire!

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.5 m.

CAUTION!

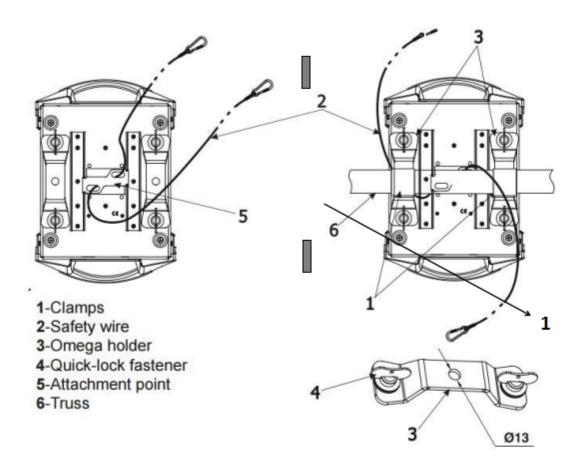
Use 2 appropriate clamps to rig the fixture on the truss. Follow the instructions mentioned at the bottom of the base. Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

The fixture can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

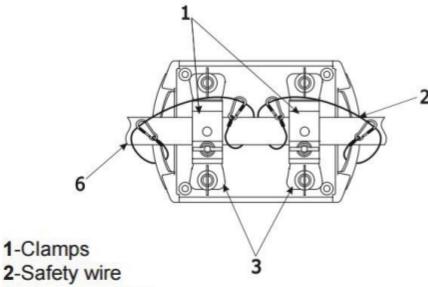
For securing a fixture to the truss, install a safety wire that can hold at least 10 times the weight of the fixture. Use only the safety wire with screw-on carabine. Pull the safety wire through the safety attachment point on the bottom of the base and around the truss as shown on the pictures below.

Truss installation

- 1.Bolt each clamp (1) to the omega holder (3) with M12 bolt and lock nut through the hole in the holder.
- 2. Fasten the omega holders on the bottom of the base by inserting both quick-lock fasteners (4) into the holes of the base and tighten fully clockwise.
- 3. Pull the safety wire (2) through the attachment point and around the truss (5).



Alternativelly, fixtures handels can be used for safety attachment



- 3-Omega holder
- 4-Quick-lock fastener
- 5-Attachment point
- 6-Truss

When installing fixtures side-by-side, avoid illuminating one fixture with another!

DANGER TO LIFE!

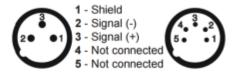
Before taking into operation for the first time, the installation has to be approved by an expert!

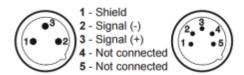
4.4 DMX-512 connection

The fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel.

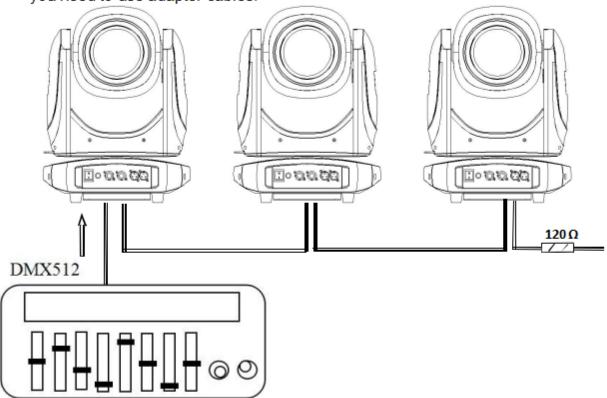
Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX - output XLR mounting-sockets (rear view): DMX - input XLR mounting-plugs (rear view):





If you are using the standard DMX controllers, you can connect the DMX output of the controller directly with the DMX input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.



Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

6. Technical Specifications

Electrical

Power supply:....electronic auto-ranging Input voltage range:..... 100-240V, 50/60Hz Max. power consumption:.....237 W@230V

Fuse:.....T 5 A

Light source

150W white engine

Colour temperature: 8500K

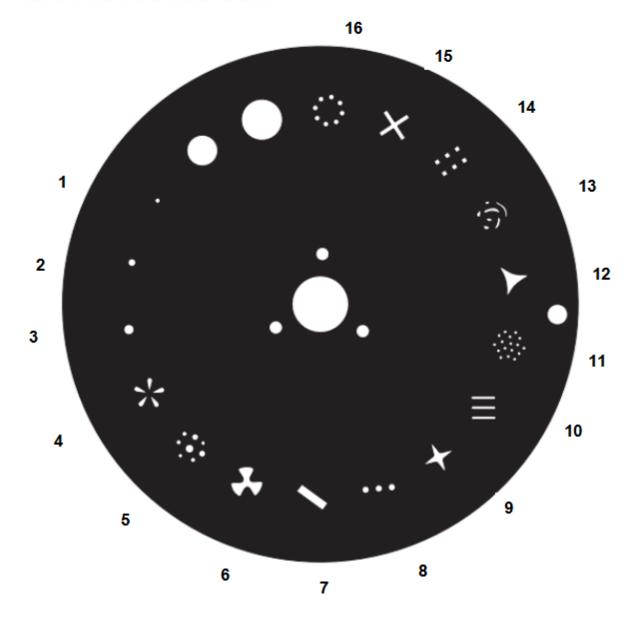
CRI=75

Colour wheel

13 dichroic filters + open

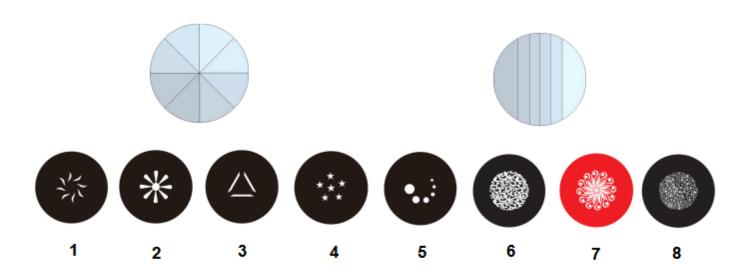
Static gobo wheel

16metal gobos, image diameter =5mm, aluminium, thickness=0.5 mm Gobo wheel continuous rotation



Rotating gobo wheel

8 glass gobos can be indexed and rotated in both directions at different speeds Gobo wheel continuous rotation Glass gobos: outside diameter=12 mm, max. thickness=3 mm, high temperature borofloat or better glass "Slot&lock" system for easy replacement of gobos



Warning!!!

All glass Gobos which needed change, must be supply f rom the original factory. These glass gobos are professi onal heat-

resistant glass Gobos. Or we would not be providing an y warranty for them!

Prism

6 facet linear prism rotating continuous rotation in both directions. Rotating 8facet 12° prism with continuous rotation in both directions, prism superposition

Iris

Motorized iris for different beam diameters

Zoom

Linear motorized zoom (2° - 26°)

Strobe

Strobe effect with variable speed (max.15 flashes/sec.)

Dimmer

Smooth dimmer from 0 - 100 %

Control

Readout fixture and llight source usage, receiving DMX values, temperatures, etc Built-in analyzer for easy fault finding, error messages Built-in demo sequences Black-out while head moving, colour changing Silent fans cooling,

Optional Wireless DMX/RDM module

Compliance with USITT DMX-512 (1986 & 1990) and 512-A Full DMX fidelity and frame integrity
Auto sensing of DMX frame rate and frame size
<5ms DMX latency
Operational frequency range of 2402-2480 MHz

Pan/Tilt

Pan movement range 540° Tilt movement range 270° 16 bit movement resolution

Rigging

Mounting points: 1 of 1/4-turn locks

Mounting horizontally or vertically via 1 Omega brackets

Temperatures

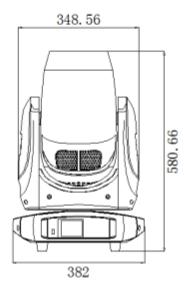
Maximum ambient temperature : 45° C Maximum housing temperature : 80° C

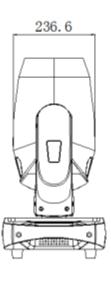
Minimum distances

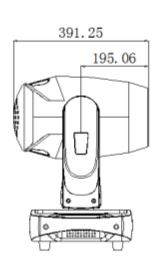
Min. distance from flammable surfaces: 0.5 m Min. distance to lighted object: 2 m

Weight (net) 18.3 kg

Dimensions (mm)







7. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER! Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuumcleaner or an air-jet. Dichroic colour filters, gobo wheels and the internal lenses should be cleaned monthly.

Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean the air filters placed in the fixture bases. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters---> Elapsed Time).

Replacing the fuse.

Before replacing the fuse, unplug mains lead.

- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
- Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- Replace the fuseholder in the housing and fix it.

12.1 Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

8. DMX protocol

150BSW DMX Channel			
Mode/	Mode/Channel		Function
St	Ba		
1	1	0-255	Pan 0-100%
2		0-255	Pan fine 0-100%
3	2	0-255	Tilt 0-100%
4		0-255	Tilt fine 0-100%
5	3	0-255	Pan/Fine Speed Fast -> Slow
6	4	0-255	Dimmer 0 -> 100%
7			Dimmer Fine 0 -> 100%
8	5	252-255 213-251 208-212 108-207 104-107 4-103 0-3	Open Random Strobe Open Pulse: Slow -> Fast Open Strobe: Slow -> Fast Close
9	6	213-255 170-212 168-169 164-167 160-163 156-159 152-155 148-151 144-147 140-143 136-139 132-135 128-131 0-127	Color1 Wheel Rotation(CCW):Slow -> Fast Rotation(CW): Fast -> Slow Open Color10 Color9 Color8 Color7 Color6 Color5 Color4 Color3 Color2 Color1 Color Position

	I		Static Gobo
		217-255	
		179-216	Rotation(CCW): Slow -> Fast
		171-178	Rotation(CW): Slow -> Fast
		163-170	Gobo 16 Shake: Slow -> Fast Gobo 15 Shake: Slow -> Fast
		155-162	Gobo 14 Shake: Slow -> Fast
		147-154	Gobo 14 Shake: Slow -> Fast
		139-146	Gobo 12 Shake: Slow -> Fast
		131-138	Gobo 12 Shake: Slow -> Fast Gobo 11 Shake: Slow -> Fast
		123-130	Gobo 11 Shake: Slow -> Fast Gobo 10 Shake: Slow -> Fast
		115-122	Gobo 9 Shake: Slow -> Fast
		107-114	Gobo9 Shake: Slow -> Fast Gobo8 Shake: Slow -> Fast
		99-106	Gobo Shake: Slow -> Fast Gobo 7 Shake: Slow -> Fast
		91-98	Gobo/ Shake: Slow -> Fast Gobo6 Shake: Slow -> Fast
		83-90	Gobo5 Shake: Slow -> Fast Gobo5 Shake: Slow -> Fast
		75-82	Gobo3 Shake: Slow -> Fast Gobo4 Shake: Slow -> Fast
		67-74	Gobo4 Shake: Slow -> Fast Gobo3 Shake: Slow -> Fast
		59-66	
10	7	51-58	Gobo2 Shake: Slow -> Fast
		48-50	Gobo1 Shake: Slow -> Fast Gobo16
		45-47	Gobo15
		42-44	
		39-41	Gobo14
		36-38	Gobo 13
		33-35	Gobo12
		30-32	Gobo11
		27-29	Gobo10
		24-26	Gobo9
		21-23	Gobo8
		18-20	Gobo7
		15-17	Gobo6
		12-14	Gobo5
		9-11	Gobo4 Gobo3
		6-8	Gobo3 Gobo2
		3-5	G0002 G0b01
		0-2	Open
			·
		105.255	Rotating Gobo
		195-255 134-194	Rotation(CCW): Slow -> Fast
l	1	124-133	Rotation(CW): Slow -> Fast
l	1	114-133	Gobo8 Shake: Slow -> Fast
	1	104-113	Gobo7 Shake: Slow -> Fast
	1	94-103	Gobo6 Shake: Slow -> Fast
		84-93	Gobo5 Shake: Slow -> Fast
l	1	74-83	Gobo4 Shake: Slow -> Fast
l	8	63-73	Gobo3 Shake: Slow -> Fast
11		64-63	Gobo2 Shake: Slow -> Fast
		48-53	Gobo1 Shake: Slow -> Fast
l		42-47	Gobo8
l		36-41	Gobo7
l		30-35	Gobo6
I	1	24-29	Gobo5
		18-23	Gobo4
	1	12-17	Gobo3
I	1	6-11	Gobo2
I	1	0-5	Gobo1
L	<u> </u>	C-0	Open

			Gobo Rotation
		193-255	Gobo Rotation(CCW): Slow -> Fast
12	9	191-192	Gobo Rotation Static
		128-190	Gobo Rotation(CW): Fast -> Slow
		0-127	Gobo Position
			Prism
		192-255	Prism2
13	10	128-191	Prism1
		0-127	Open
			Prism Rotation
		193-255	
14	11	191-192	Prism Rotation(CCW): Slow -> Fast
14	11	128-190	Prism Static
		0-127	Prism Rotation(CW): Fast -> Slow
		0-127	Prism Position
15	12		Frost
13	12	0-255	0 -> 100%
10	12		Focus
16	13	0-255	0 -> 100%
4-			Focus Fine
17		0-255	0 -> 100%
			Zoom
18	14	0-255	0 -> 100%
———			
19		0.255	Zoom Fine
		0-255	0 -> 100%
			System Control
	15	224-255	Curve 4
		192-223	Curve 3
		160-191	Curve 2
20		128-159	Curve 1
		96-127	All reset
		64-95	Pan and tilt reset
		32-63	Head reset
		0-31	Open

If you have any questions, please contact your local dealer CP2019100PD.2