novopro

GoboSphere
INSTRUCTION MANUAL

Manual version 1.0

**This user manual will help you operate this product safely and quickly,
so please spend a few minutes to read through the enclosed information.**

Due to continuous product development, please check for the
latest version of this product manual at:

www.novopro.co.uk

Thank you for purchasing this Novopro product.
To optimise it's performance, please read these instructions carefully to familiarise yourself with the basic operations of the unit. Please retain them for future reference. This unit has been tested at the factory before being shipped to you. To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture. To prevent a fire hazard, do not expose the unit to any naked flame sources. Unplug this apparatus during lightning storms or if it is unlikely to be used for long periods of time. When installing the unit, please ensure you leave enough space around the unit for ventilation. Slots and openings in the unit are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered.

The unit is powered by the mains, always handle the power cable by the plug. Never pull out the plug by pulling on the cable. Never touch the power cable when your hands are wet as this could cause an electric shock. Do not tie a knot in the cable. The power cable should be placed such that it is not likely to be stepped on. A damaged power cable can cause a fire or give you an electrical shock. Check the power cable periodically, if you ever find that it is damaged, replace it before using the unit again. The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit is to be used meets the requirements of the unit.

The lightning flash symbol inside a triangle is to alert the user to the presence of high voltage within the unit's enclosure that may be of sufficient power to constitute a risk of electrical shock to persons. Caution: to prevent the risk of electric shock, do not attempt to open the unit. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The exclamation mark inside a triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Select the installation location of your unit carefully. Avoid placing it in direct sunlight or locations subject to vibration and excessive dust. Do not use the unit where there are extremes in temperature (do not exceed 40ºC).

Manufacturer EC Declaration of Conformity

In compliance with the following requirements:
RoHS Directive (2011/65/EU) and **WEEE Directive (2012/19/EU) and (2002/96/EU).**
At the end of the products working life, please ensure that the unit is taken to a recycling plant for environmentally friendly disposal - IT MUST NOT be disposed of with general household waste.
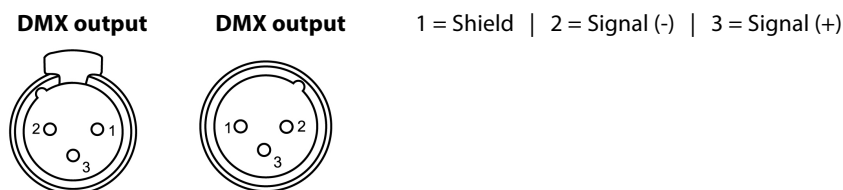
Overhead rigging
Important - the installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and /or damage to property. Overhead rigging requires extensive experience. Working load limits should be respected, certified installation materials should be used and the installed unit should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the unit in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls
- The device should be installed out of reach of people and outside of areas where persons may walk by or be seated.
- A safety cable must be used when rigging the product overhead.
- Before rigging, please ensure that the installation area can hold minimum point load of 10 times the device`s weight.
- The device should be well fixed; a free swinging mounting is dangerous.
- Do not cover any ventilation opening as this may result in overheating

DMX512 connection
If you are using a standard DMX controller, you can connect the DMX output of the controller directly to the DMX input of the first unit in a DMX chain. If you wish to connect a DMX controller with other XLR outputs you will need to use adapter cables.

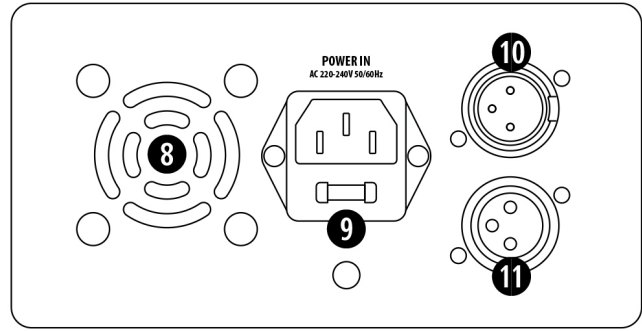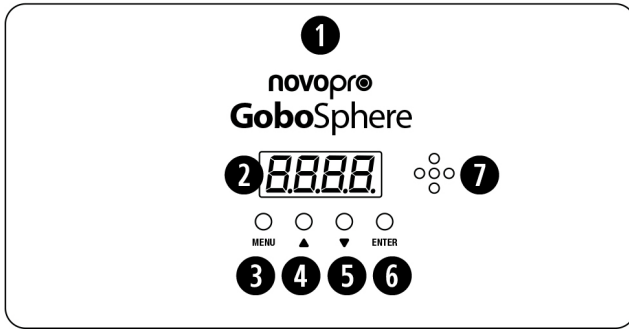**DMX output**   **DMX output**   1 = Shield | 2 = Signal (-) | 3 = Signal (+)

Connect the DMX output of the first unit in a DMX chain with the DMX input of the next unit in the chain. Always connect the output of one unit with the input of the next unit until all units are connected.

Unpacking and safety Please unpack your new product carefully. Your new product should reach you in perfect condition. Please check that no damage has occurred during transit. If any damage is found, do not operate your unit, **please contact the retailer you purchased it from immediately.**
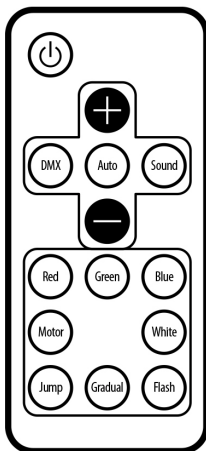
Packing list: lighting unit / mounting bracket / safety eyelet / IEC mains lead / instruction manual / remote control / carry bag.

Front and rear panels

Number	Feature	Function
1	IR sensor	IR remote control sensor – point the remote control towards this point
2	LED display	LED function setting display - shows the various menus and the selected functions
3	MENU button	Press to select the different menu items
4	UP button	Press to run up through the available options
5	DOWN button	Press to run down through the available options
6	ENTER button	Press to make and confirm a selection from the menu or move to the next option
7	Microphone	Built-in mic for sound-to-light operation
8	Fan cooling vent	Do not cover
9	Mains power input	IEC power socket and built-in fuse compartment
10	DMX input	3 pin male XLR interface for DMX connections
11	DMX output	3 pin female XLR interface for DMX connections

Remote control

On/Off power button
+ button – move up one level or increase the effect or colour.
- button – move down one level or increase the effect or colour.
DMX mode button.
Auto mode button.
Sound mode button.
Red button – press to select red. Use the + and – buttons to increase or decrease the brightness level.
Green button – press to select green. Use the + and – buttons to increase or decrease the brightness level.
Blue button – press to select blue. Use the + and – buttons to increase or decrease the brightness level.
White button – press to select white. Use the + and – buttons to increase or decrease the brightness level.
Motor button – press to select motor speed. Use the + and – buttons to change the speed.
Jump button – press to select jump colour changes. Use the + and – buttons to change the speed.
Gradual button – press to select gradual colour changes. Use the + and – buttons to change the speed.
Flash button – press to select flashing effects. Use the + and – buttons to change the speed.

Troubleshooting the remote control
The remote control comes supplied with a CR2025 battery. To ensure that the battery isn't discharged during transport, the factory inserts a small piece of transparent plastic between the battery and the contacts. This small plastic sheet must be removed before the remote control will operate. When changing the battery, note the polarity of the battery being removed, the new battery must be facing the same way up as the old battery. With the remote face down (buttons facing the floor) the plus ("+") side of the battery should be facing upwards (i.e. towards the ceiling). If the remote control doesn't appear to work, first check that the unit is set to respond to the remote by following the instructions at the top of this section. If the remote still doesn't work, replace the battery with a new CR2025 battery. Always ensure that there is an uninterrupted line of site between the remote and the unit's IR remote control sensor (on the side of the unit).

Main Menu

To select any of the menu options, press the MENU button to select the mode required. Once you have made a selection then press ENTER to confirm. Use the UP and DOWN buttons to choose the desired menu option.

LED display	Function description	Motor
A001	DMX address 001-512	-
A1 1-15	**Colour change**	SP1-SP9 motor speed
	A1 1 red	
	A1 2 green	
	A1 3 blue	
	A1 4 white	
	A1 5 red, green, blue, white	
	A1 6 red, green	
	A1 7 blue, white	
	A1 8 green, blue	
	A1 9 red, white	
	A1 10 red, blue	
	A1 11 green, white	
	A1 12 green, blue, white	
	A1 13 red, blue, white	
	A1 14 red, green, white	
	A1 15 red, green, blue	
A2 1-9 (1-9 colour change speed)	Jump change	SP1-SP9 motor speed
A3 1-9 (1-9 colour change speed)	2 colour jump change	SP1-SP9 motor speed
A4 1-9 (1-9 colour change speed)	Static change	SP1-SP9 motor speed
A5 1-9 (1-9 colour change speed)	Strobe change	SP1-SP9 motor speed
A6 1-9 (1-9 colour change speed)	Auto	SP1-SP9 motor speed
S1	Strobe sound	-
S2	Sound	-

8 Channel DMX control

Channel	DMX	Function
1	0-255	Master dimmer
2	0-255	Red dimming
3	0-255	Green dimming
4	0-255	Blue dimming
5	0-255	White dimming
6	0-255	Strobe
7	0-255	Rotation
8	0-255	Auto program

DMX address setting

When controlling the unit (or units) with a DMX controller, each one must be set with a specific DMX address. You can choose to set all units with the same DMX address or you can set every unit with its own DMX address. If all units are set with the same DMX address all units will be synchronised and operate in the same way, you cannot control each unit separately. If you set each unit with a different DMX address, they will receive the DMX signal from their own DMX address. You will now be able to control each unit individually. The DMX address that you set for each unit must be determined by the number of channels. This unit has 8 channels, therefore you should set the starting address of the first unit to 1, the second unit must then be set to 9 (1+8), the third unit must be set to 17 (9+8) and so on.

Technical Specifications

DMX512 control channels: **8 Channels**
DMX512 input & output connection: **3 pin XLR**
Modes: **DMX512 / Auto / Sound-to-Light / Master/Slave / Remote control**
LEDs: **8 x 3w RGBW CREE LEDs plus 4 x 3w RGBW LEDs**
Power supply: **IEC mains / AC 220-240V 50/60Hz /** Fuse: **3A** / Power consumption: **40w**
Dimensions (WxDxH): **220 x 220 x 288mm**
Weight: **2Kg**

Due to continuous product development, specifications and appearance are subject to change.