SKY MOTION

User Guide

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DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version ≥	DMX Channel Modes	Notes
09/09/2022	1.0	N/A	N/A	Initial Release

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GENERAL INFORMATION

INTRODUCTION

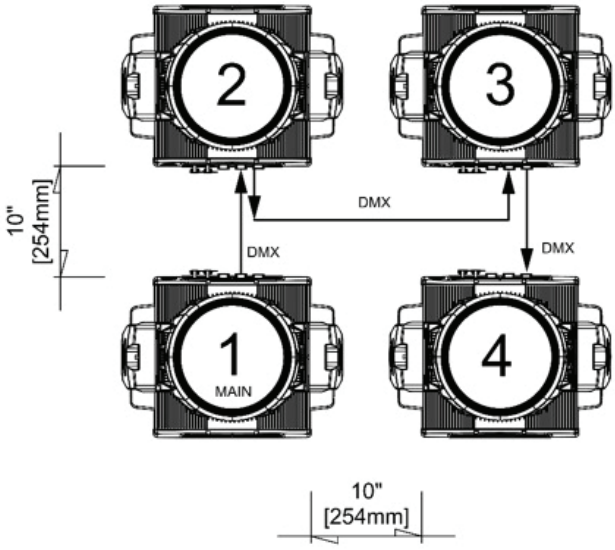
Sky Motion is an innovative feature of the Proteus Excalibur which allows a fixture or group of fixtures to operate as a search light effect without the need for a dedicated lighting controller. Multiple fixtures can be interconnected, and with the simple assignment of IDs the fixture provides immediate access to a variety of search light effects that are easily adjustable in size, speed, and color.

Comparable in output to large 2000W or 4000W Xenon fixtures, the Proteus Excalibur operates at a fraction of the power, supports a wide range of 100V-240V power sources, has a much smaller footprint, lower weight, and is fully IP65 rated.

SKY MOTION SETUP

Sky Motion is designed to accommodate up to four unique fixture IDs. Fixtures with the same ID will always be at an identical position and have the exact shape, speed, and size. One fixture in the system must be set to the ID “MAIN”, which provides all control signals and movement synchronization. Use ID “1” for other fixtures if needed.

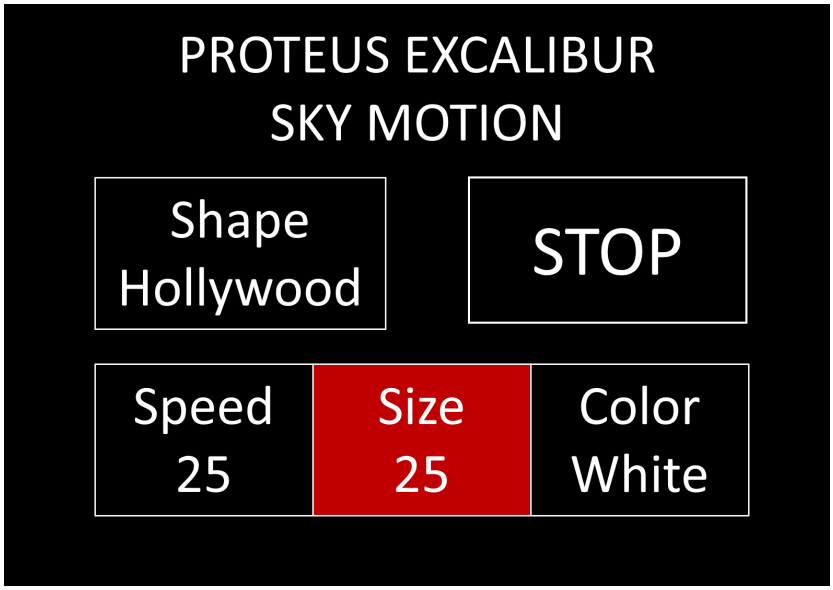
For a traditional searchlight system, place four Proteus Excalibur fixtures closely together in a 2x2 grid. **The fixtures require a minimum space of 10” (255mm) between the fixture bases to ensure that the heads do not come into contact while in motion.** All cable connections should face inwards, and all displays should face outwards



1. Connect the fixtures to an appropriately rated, grounded power source.
2. Connect the fixtures to each other using IP65 rated 5pin DMX cables. Use the “DMX Out” from the MAIN fixture to connect to “DMX In” of the next fixture. The order in which the cables are connected does not affect operation. **Do NOT connect the last fixture back to the MAIN fixture.** Please note that the maximum combined length of all data cables in the Sky Motion system is 330 ft (100m).
3. Power the fixtures on and wait for the calibration cycle to complete.
4. Enter the System Menu by holding the “MODE” button for 10sec. Once in the menu, move to the “Sky Motion” text and press “Enter”.
5. Set the Sky Motion feature to “ON”. Simply select “Mode” on the screen, then press “ENTER” and set the option to “ON”. Confirm your selection by pressing “ENTER” again.
6. Set the desired fixture ID. One fixture must be set to “MAIN”. It is recommended to choose a fixture that is within easy reach, as all adjustments for the system will be performed on the Main fixture.
7. Set the following fixtures IDs to 2, 3, and 4 in a clockwise fashion. It may be helpful to mark the ID number on the fixture chassis with a small sticker. The fixture ID is also always shown in the display of the Proteus Excalibur. **Please note that the system allows the repeat use of any ID multiple times. It is possible to have multiple fixture grids, or set up rows of fixtures all controlled by a single MAIN fixture and repeating IDs 1 through 4 as desired.**
8. Once the fixture ID is set, exit the Menu using the “ESC” button. This will now show the dedicated Sky Motion home screen. All fixtures should now move in synchronization.

SKY MOTION OPERATION

All settings are configured from the MAIN fixture. The display screens on the other fixtures show the ID and settings, but all control via the screens is disabled. The Sky Motion system is controlled by this simple display screen:



If the screen is locked, hold “MODE” for 10 sec until the countdown is completed. Select one of the available shapes in the top left box. Use the arrow keys to navigate, noting that the current selection is indicated by the red highlighting, then press “ENTER” to select. Use the Up/Down arrows to browse the shapes and preview the results.

The most commonly used selection is “Hollywood”, which emulates the traditional Xenon Searchlight movement found at movie premiers and special events.

The following unique shapes are available:

- Sky Tracer
- Sky Tracer Offset
- Hollywood
- Hollywood Offset
- Searchlight
- Searchlight Offset
- Diagonal
- Diagonal Offset
- Bounce
- Bounce Offset
- Tilt
- Tilt Offset
- Pan
- Pan Offset
- Orbit
- Orbit offset
- Sweep
- Sweep Offset

After the desired shape has been selected, the speed and size can be adjusted using the arrows and “ENTER” key. Observe the motion of the fixture to confirm that you are satisfied with the range and speed. Always press “ENTER” to confirm the changed value.

In addition to the Shape, Size, and Speed, it is also possible to select a color for the fixtures. 14 color choices are available, plus random color chases and color scrolls. Simply use the arrows to adjust, then confirm with “ENTER”. Set the fixture back to White or any other color to stop the color changes.

SKY MOTION OPERATION

Pressing “STOP” at any time will cause the fixture to fade to a position in which the lens points towards the ground for protection from sun and the elements. The display will show “STOP” in a red-highlighted box. After 15 minutes of inactivity, the lamp will turn off, although the fans will remain powered on in order to cool the fixture down.

To restart the motion, hit “STOP” again. The fixture will move back into the shape, and the lamp will turn on again. It will take a few minutes for the fixture to ramp up to full intensity.

To turn off the fixture, simply disconnect the power. Orient the fixture with the lens facing towards the ground, and lock the fixture in this position using the pan and tilt locks. Never let the lens point at the sun or other bright light sources, including other lighting fixtures, as doing so will damage components inside the fixture.

To restart, release the pan and tilt locks and power up the fixtures. After a short calibration cycle, the fixtures will start the shape movement and the lamp will turn on.

To disable the Sky Motion feature, access the fixture menu (hold MODE for 10 seconds) and turn Sky Motion Mode to “OFF”.

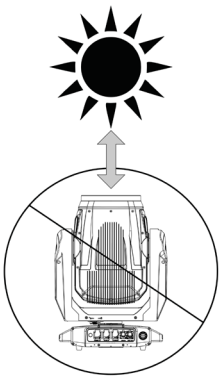
Operating Notes:

It is recommended to power off the fixtures when not in use.

Ensure free motion of the fixture and never cover it while it is powered on. Never cover the air inlet and outlet grids.

Never point the lens at the sun. Always cover the lens (the fixture must be powered off) or point it towards the ground.

SUN DAMAGE IS NOT COVERED BY THE FIXTURE WARRANTY!



All interconnected fixtures must run the same firmware version. Contact a trained Elation Service Technician for assistance with firmware upgrades.

Periodic lamp changes are required. They are described in the full user manual for this fixture, which can be found online at:
https://www.elationlighting.com/proteus-excalibur

SPECIFICATIONS (PROTEUS EXCALIBUR)

SOURCE
Philips MSD Platinum 500 Flex 550W Lamp
Variable Lamp Power
Automated Lamp Hibernation with Instant Recovery
Up to 4,000 Hour Lamp Life*
*Test lab conditions. May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling),Control, and Dimming.

PHOTOMETRIC DATA
0.8° Beam Angle
1.6° Field Angle
3.5° Beam Expander Lens
20,000 Total Lumen Output
7000K. CRI 77+
335000 LUX @15m (31100 fc @ 49ft)
7500 LUX @100m (700 fc @ 330ft)

EFFECTS
Beam Expander
Rotating Prisms and Prism Macros
Dual Frost Filter Hybrid Wash Effect
Motorized Focus
High Speed Mechanical Shutter and Strobe

COLOR
14 Dichroic Colors Including CTO and UV
Full CMY Color Mixing

GOBOS
8 Interchangeable Rotating / Indexing Glass Gobos
17 Static-Stamped Metal Gobos

CONTROL / CONNECTIONS
Single DMX Mode (26ch.)
16-bit Pan, Tilt, and Dimming Control
Motorized Focus
DMX, RDM, Art-NET, and sACN Protocol Support
6 Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
Hibernation Mode (Power Save)
IP65 5pin DMX In/Out
IP65 RJ45 etherCON In/Out
Locking IP65 Power In

SIZE / WEIGHT
Length: 19.4” (493mm)
Width: 15.1” (383mm)
Vertical Height: 27.4” (697mm)
Weight: 108lbs (49kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
800W Max Power Consumption
14°F to 113°F (-10°C to 45°C)

APPROVALS / RATINGS
CE | cETLus | UKCA | IP65

4010832

Specifications and documentation subject to change without notice.