Manuals+ — User Manuals Simplified.

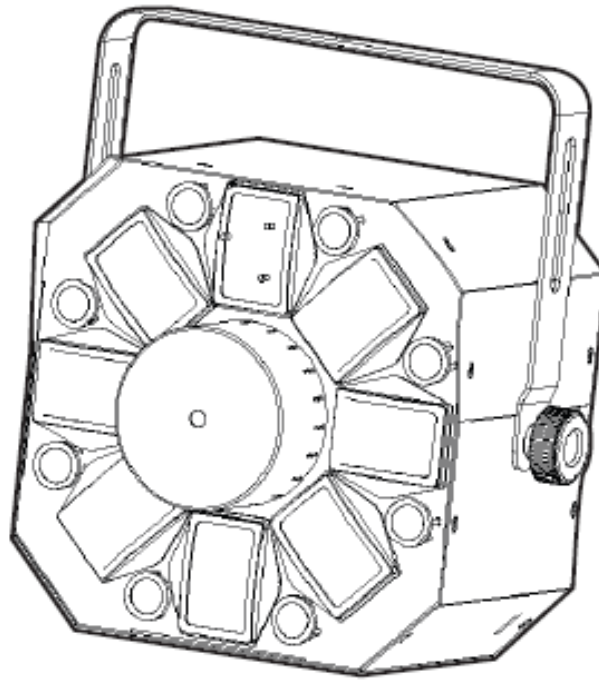# ORION ORFX108 Multi-Effect DJ Light Owner's Manual

Contents

ORION ORFX108 Multi-Effect DJ Light

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER ON THIS LIGHT. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO A QUALIFIED TECHNICIAN.

NEVER look directly at the laser emitter as serious eye injury can occur.

This symbol indicates that there is laser radiation emitted from this unit.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of "dangerous" voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans. Users should exhibit extra safety when this symbol appears in this instruction manual and follow all precautions as they are stated.

1. Read these instructions thoroughly before using this item. Heed all warnings. Follow all instructions.
2. Disconnect from the power source before servicing.
3. REPLACE FUSE WITH SAME TYPE AND RATING.
4. This product is for indoor use only! To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not store or operate this product near any liquids.
5. Do not store or operate this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
6. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a round grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet.
7. Protect all wires connected to this unit from being walked on or pinched, particularly plugs and the point where they exit from the unit. When removing the cord from the power outlet, remove it by holding the plug not by pulling the cord.
8. Unplug the unit during lightning storms or when unused for long periods of time.

9. Allow the unit to cool down after 1 or 2 hours of continuous operation to prevent heat stress damage.

10. When wiring this unit and all other equipment used in connection to this unit make sure that all of your equipment is turned OFF.

11. Make sure the distance between the fixture and the lighted object is not less than 0.5 meters. Keep combustible and/or explosive materials away from this unit. Do not block the ventilation slots.

12. In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please return the unit to the nearest authorized technical assistance center.

13. The unit should never be connected to any kind of external AC dimmer. Operate only at intended voltage.

14. Make sure the power cord is never pinched or damaged.

15. Never disconnect the power cord by pulling or tugging on the cord.

16. Never carry the fixture directly from the cord. Always use the hanging/mounting bracket.

17. Before placing, installing, rigging, or suspending any product, inspect all hardware, suspension, cabinets, transducers, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment.

18. ALWAYS use a safety chain or cable between the unit and overhead suspension truss to ensure safety to persons.

19. Consult a licensed, Professional Engineer regarding physical equipment installation. Ensure that all local, state and national regulations regarding the safety and operation of equipment are understood and adhered to.

20. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.


LED Strobe Laser Light

Introduction

Thank you for buying the Polaris 2, please read these operating instructions carefully. Familiarize yourself with its basic operation, it will help to optimize its performance. Please keep this manual for future reference.
The Orion ORFX108 is a highly effective intelligent LED multi-effect devise with strobe, it's useful for mobile DJs and/or installation applications. Designed for indoor use only, the unit should never be exposed to rain or excessive moisture. Although properly vented and cooled, the Polaris should always be used in a ventilated space, away from external heat sources. The ORFX108 should never be connected to any kind of external AC dimmer, and will operate only at intended voltage. There are no user serviceable parts inside. Should the ORFX108 fail, it should be referred to qualified service technician for repair.

The Orion ORFX108 can be run in manual operation from the controls on the back panel (see operation guide below) or via DMX512 controller through the XLR inputs provided.
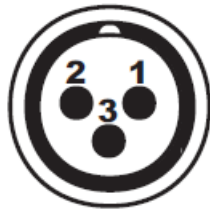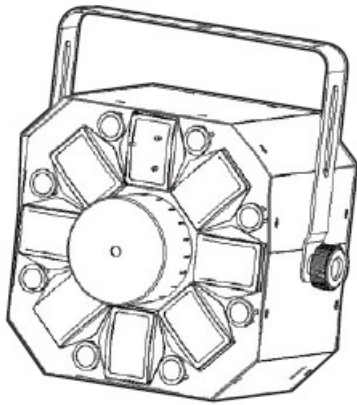
Pin 1 – Ground
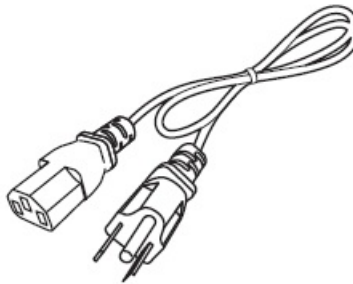Pin 2 – Data Negative
Pin 3 – Data Positive.
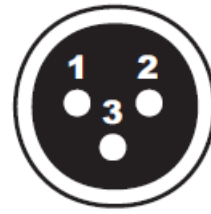
This unit has been tested before being shipped to you, no assembly required.
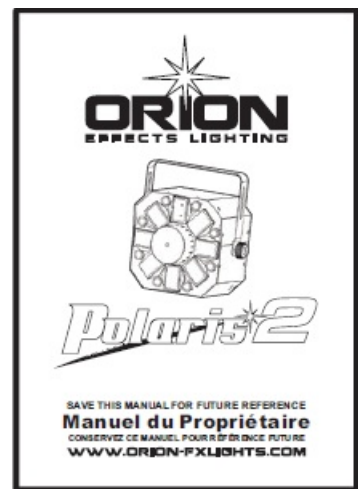
Parts Included

- 1 x LED Laser Light
- 1 x Power cable
- 1 x User manual

LED Laser Light   **Power Cable**   **Owner's Manual**

Specifications

- Power supply: AC100V~240V 50/60Hz
- Fuse:F5.0AL (5x20mm)
- Rated power: 80W
- Laser: Red:150mW/650nm, Green:50mW/532nm
- LED: RGBWAV 5W (6pcs), white 3W(8pcs)
- LED effect: Derby
- Laser effect: 8 gra°ng e˜ect
- Control modes: Auto-play/Sound Ac°ve/ Primary-Secondary/DMX
- Channel: 10
- Scan system: Step motor
- Opera°ng temperature:10C~40C
- Inner Packing(mm): 340 x 270 x 340 Outer Packing(mm): 700 x 560 x 370 (4pcs)
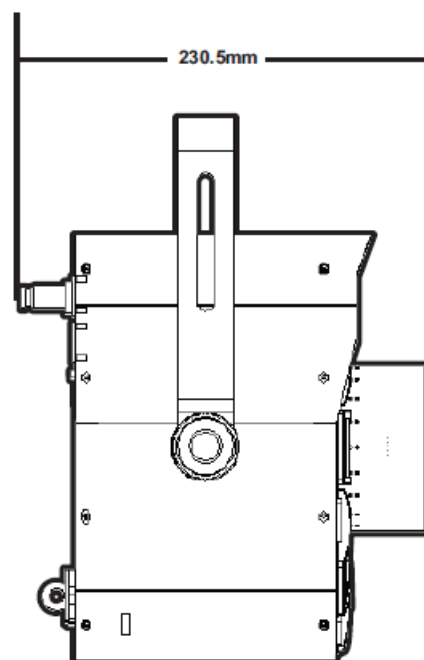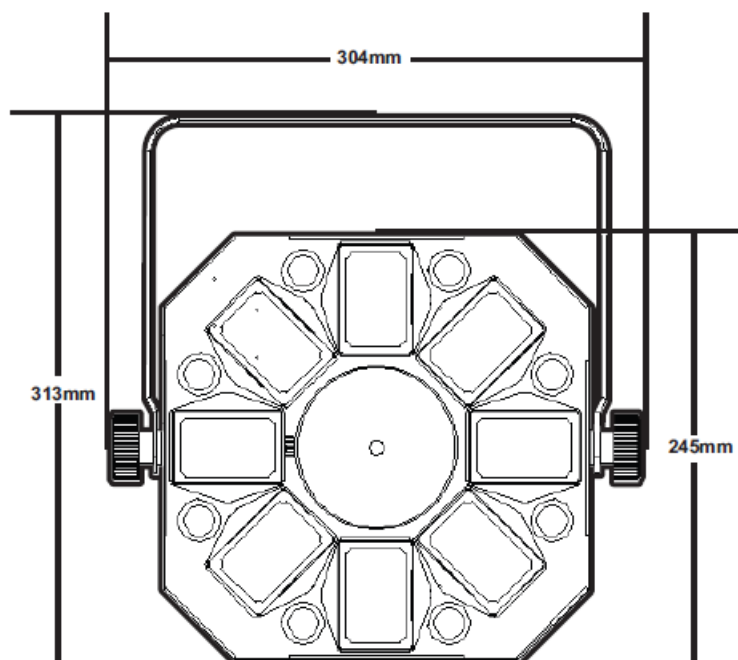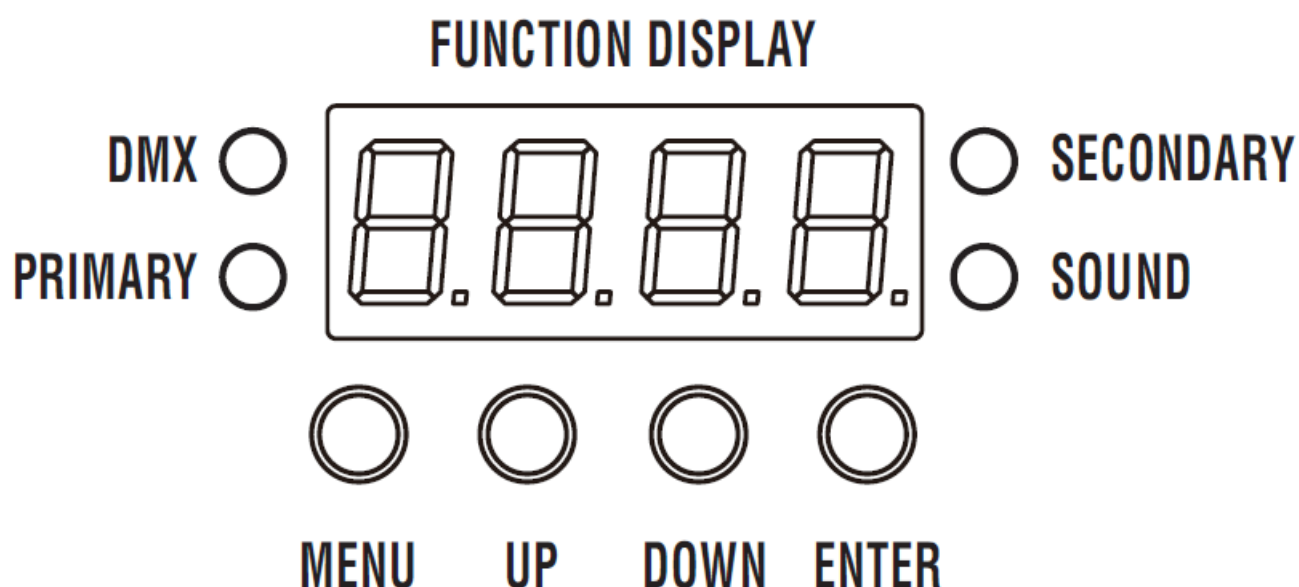
LED Digital Display

Operation

Press the button labeled Menu to select a function, for detailed description please see the "OPERATION MENU" section of this Manual. Press the button labeled Up or button labeled Down to modify values. Press the button labeled Enter to save your settings.

FUNCTION DISPLAY

LED Digital Display Operation Menu

When powered up, the unit will display its previous settings when last used. The LED digital display will stay on for about 20 seconds if there is no button being pressed. After 20 seconds, if there is no DMX present, the first dot of the display will be illuminated; if there is DMX present, the first dot will blink on/off.

Primary-Secondary: The Primary light can choose any mode of Auto/Soun modes. The secondary light is set as A001. Only one light can be used as the primary. No more than 10 lights can be linked together.

Function

Menu	Function		
Addr		DMX address, press DOWN/UP to select channel 1-512	
SLNd	NASt	Primary	
	SLAu	Secondary	
AUTO	Aut1	Auto Play1, six colors LED derby effect auto play	
	Aut2	Auto Play2, white LED auto play	
	Aut3	Auto Play3, laser auto play	
	Aut4	Auto Play4, six colors derby + laser auto play	
	Aut5	Auto Play5, six colors derby + white LED + laser auto play	
	SPEE	Speed adjustment 0-99	
Soun	Sou1	Sound Active 1, six colors LED derby effect	
	Sou2	Sound Active 2, white LED auto play	
	Sou3	Sound Active 3, laser auto play	
	Sou4	Sound Active 4, six colors derby + laser	
	Sou5	Sound Active 5, six colors derby + white LED	
	SESE	Sensitivity adjustment 0-99	
vEr		Version 1.5	

1. Press "MENU" to select Addr/SLNd/Auto/Soun/vEr. Press "ENTER" to continue or save. Press "UP" or "DOWN" to select menu functions. Hold "ENTER" to exit.
2. Addr: DMX512 address setting. Press "UP" or "DOWN" to select channel 1-512
3. SLNd: primary-secondary control mode
4. Auto: auto play mode
5. Soun: sound active mode
6. vEr: version

Channel

	DMX-512Value 0-255	Details
CH1 Control Mode	0-9	Black- out
	10-39	Auto Play1(Six colors LED auto
	40-69	Auto Play2 White LED auto
	70-99	Auto Play3 Laser auto
	100-129	Auto Play4 Mixing auto
	130-159	Sound Control 1(Six colors LED sound
	160-189	Sound Control2 White LED sound

	190-219	Sound Control3 Laser sound
	220-249	Sound Control4 Mixing sound
	250-255	DMX Mode
CH2 RGBWAV Control	0-9	RGBWYP black-out
	10–198	Choose colors 63 groups , each 3 data for 1 color group
	199-225	Color chase1 single color
	226-255	Color chase 2(single or multiple
CH3 Auto Play LED Color Chase Speed	0-255	Auto speed LED color chase speed from slow to fast
CH4 LED Strobe	0-9	LED No strobe
	10-244	LED Strobe Speed from slow to fast
	245-255	LED strobe by sound
CH5 White Strobe LED	0-9	Whit LED black out
	10-134	White LED output position choose
	135-255	White LED chase effect
CH6 White LED Strobe and Chase Speed	0-127	no strobe, but White LED chase speed from slow to fast
	128-255	With strobe, white LED chase speed from slow to fast
CH7 Laser control	0-9	Laser off
	10-49	Red
	50-89	Green
	90-129	Red and Green
	130-169	Red and Green flicker
	170-209	Green and Red flicker
	210-249	Red, green synchronous flicker
	250-255	Red, green alternative flicker
CH8 Laser Strobe Control	0-9	Strobe Off
	10-244	Strobe Speed from slow to fast
	245-255	Laser strobe by sound
	0-8	Step motor Off

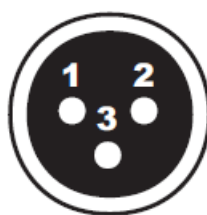| CH9 Motor Control	9-127	Step Motor clockwise from slow to fast
	128-255	Step Motor counterclockwise from slow to fast
CH10 Laser Step Motor Control	0-127	Laser pattern choose
	128-255	Laser pattern chase from slow to fast

DMX-512 connection

3-Pins DMX Out (Female)   3-Pins DMX In (Male)

1 Earth   2 DMX-   3 DMX+

DMX Address Setting
In order to control devices individually, each device must be set with a specific starting address. When receiving signal transmission, the devices will receive channel control signals from the first address.
For different applications, the user can set multiple devices to the same address or set a different address for each device.
If the same address is set on multiple devices, these devices will receive data from the specified DMX channel. All connected devices will be jointly controlled. The controller cannot control each device individually.
If each device is set to a different address, the controller can control each device individually at its starting address.
Use of this method should be based on the number of channels used on devices to determine a starting address. This device has 10 channels. When you use 10CH, you should set the starting address of the first unit to 1, the second unit to 11(10+1), the third unit to 21 (11+10) and so on.

10 CH for example

First (address 001)   Second (address 011)   Third (address 021) etc.
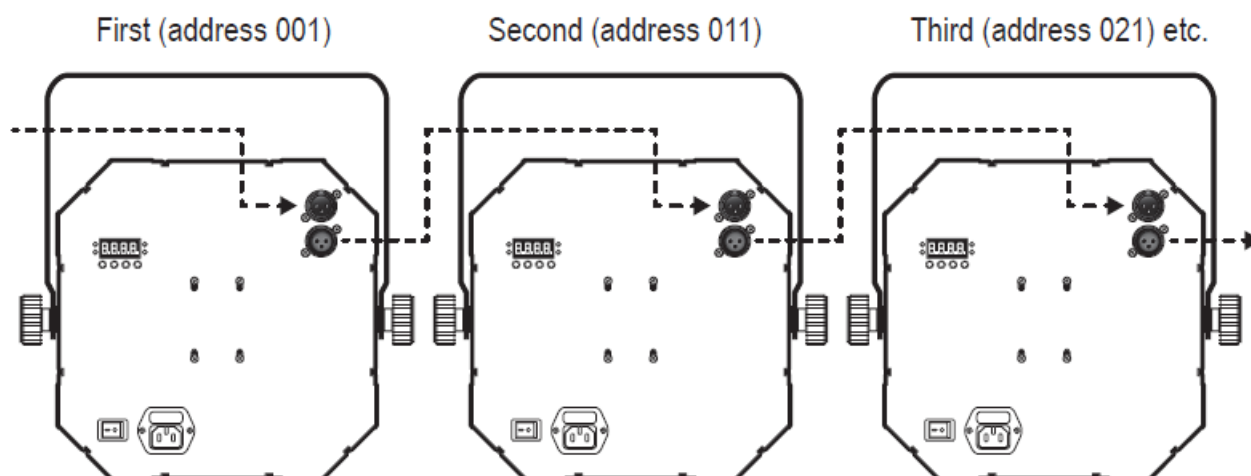
IMPORTANT MOUNTING INSTRUCTIONS

When installing this equipment, make sure the distance between the fixture and the lighted object is not less than 0.5 meters. Keep combustible and/or explosive materials away from this unit.

Ensure proper cooling of the unit by ensuring there are no obstructions of air flow around the unit. Always use the unit in a ventilated space, away from external heat sources.

For safety, connection to earth ground on the power line must be maintained.

Before placing, installing, rigging, or suspending any product, inspect all hardware, suspension, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment. Consult a licensed, Professional Engineer regarding physical equipment installation. Ensure that all local, state and national regulations regarding the safety and operation of equipment are understood and adhered to.

Mounting Clamp Installation Instruction

If you wish to mount the Polaris 2 Multi-Color LED DJ Light to a truss, use a mounting clamp (not included) for maximum security.

1. Install the mounting bracket (included in the unit), and tighten the adjustment knobs on the side of the unit before installing the clamp.

2. Install the clamp. Add a drop of thread-lock adhesive on the threads of the bolt to keep it from coming loose. Tighten the nut to full strength.
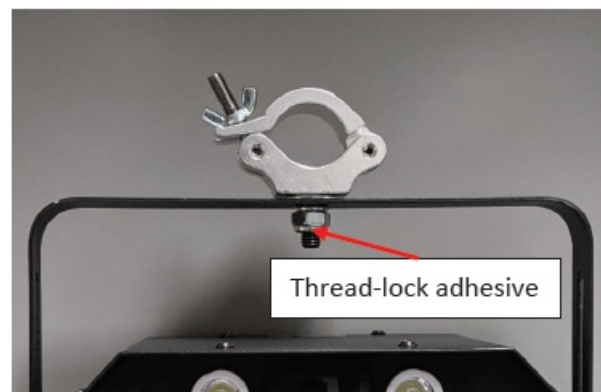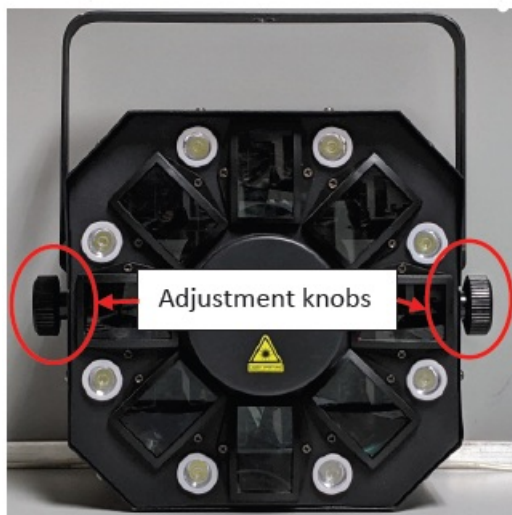

3. Before mounting or suspending your light to any fixture, do a shake test to make sure all mechanical connections are secure and there are no loose parts.

4. Mount your light to the truss. Add a drop of thread-lock adhesive on the threads of the clamp bolt, and tighten the wing nut to full strength.
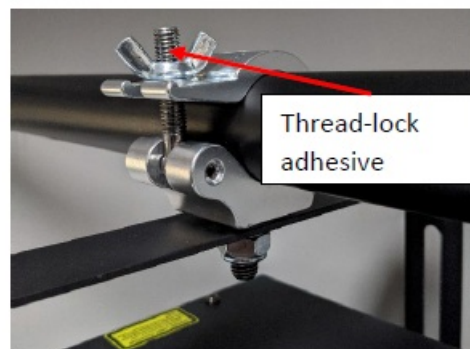
5. Use a galvanized steel wire of sufficient strength to attach the eyebolt on the unit to the truss (see below). Adjust the length of the steel wire to be a little longer than the distance from the truss to the bottom of the unit. This will allow the lights to be slightly adjusted after mounting is completed.

6. Tighten the adjustment knobs (step 1) again, as the installation process may loosen the knobs.

7. Do the shake test again to make sure the unit is securely mounted.
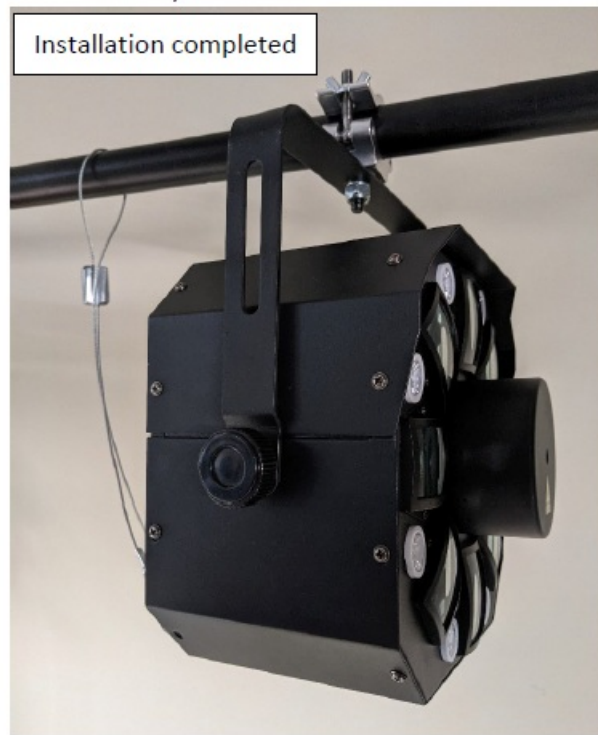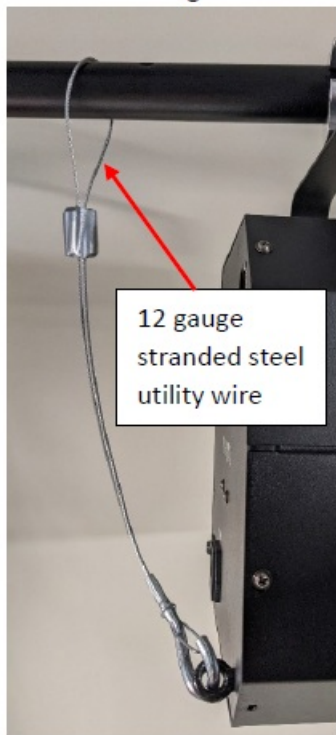
IMPORTANT SAFETY NOTES

- ALWAYS mount the light to a secure approved truss with sufficient load bearing capability to ensure a safe installation.
- ALWAYS use a galvanized steel wire as a secondary safeguard to prevent injury to property or persons in case the primary mounting mechanism fails. 12 gauge stranded steel utility wire will serve as an adequate safety cable for the ORION products lights weighing less than 12 kg / 25 lbf.
- This secondary safety attachment must not interfere with positioning of the light.
- ALWAYS ensure C-clamps are fully tightened with thread-lock adhesive and properly orient the C- clamps for maximum security;
- ALWAYS perform periodic safety inspections to ensure the installation is safe and secure
- Improper installation can result in bodily injury or death. If you are not qualified to attempt the installation get help from a professional structural rigger.

Orion Lighting – One (1) Year Manufacturer's Defect
One Year Limited Warranty: If this product should fail within one year of the original purchase date due to a manufacturing defect, simply return the product to your Orion dealer with the original proof of purchase and it will be repaired free of charge. This warranty excludes damage considered by the vendor to be the result of improper installation, normal wear, abuse or shipping damage. See your Orion dealer for details. Warranty valid in Canada and the United States. Other territories may vary.

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