

MAGNOMATIC

PRISMA MINI BAR 20



User Manual

US SKU#: PSB121
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ITF-14#: 10810008261184

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**RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET (UV) RADIATION!
 FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET LIGHT.
 WEAR PROPER EYE AND SKIN PROTECTION.
 DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVER OR PROTECTIVE LENS.
 DO NOT LOOK DIRECTLY INTO THE (UV) LIGHT AND/OR VIEW (UV) LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT.
 AVOID PROLONGED PERIODS OF EXPOSURE.
 AVOID WEARING WHITE COLOR CLOTHING AND/OR USING (UV) PAINTS ON SKIN.
 AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES SHORTER THAN 11 FEET (3.3 METERS).
 INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUN-LIGHT EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTSENSITIVE MEDICATION MAY EXPERIENCE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET (UV) LIGHT EMITTED FROM THIS FIXTURE.**

CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT



**AVOID DIRECT EYE & SKIN EXPOSURE.
 WEAR PROPER EYE & SKIN PROTECTION.
 SEE MANUAL FOR SAFETY INSTRUCTIONS.**



DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online. Please check www.elationlighting.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channel Mode	Notes
10/29/20	1	1.0	Not applicable	Initial Release
10/05/21	2	N/C	Not applicable	Updated Installation Instructions and Maintenance Guidelines
05/18/22	3	N/C	Not applicable	Updated General Information, added RDM

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GENERAL INFORMATION

INTRODUCTION

This device's functions are controlled by the Magmatic Prisma Driver 8. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. ***This product is intended to be used by professionally trained personnel only and is not suitable for private use.***

UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event that damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

Phoenix Connector (x1)
Positive Wire Tip Sheath (x1)
Negative Wire Tip Sheath (x1)

CUSTOMER SUPPORT

Contact **MAGMATIC** customer service for any product related service and support needs. Also visit forums.elationlighting.com with questions, comments, or suggestions.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-3322 | Fax 323-832-9142 | sales@magmaticeffects.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
Voice: +31 45 546 85 63 | Fax: +31 45 546 85 96 | support@elationlighting.eu

REPLACEMENT PARTS: Please visit parts.elationlighting.com



IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

A. Magmatic Effects hereby warrants, to the original purchaser, Magmatic products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Magmatic Effects factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Magmatic Effects will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Magmatic Effects shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Magmatic Effects concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Magmatic Effects factory unless prior written authorization was issued to purchaser by Magmatic Effects; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Magmatic Effects will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Magmatic Effects under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Magmatic Effects. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. Magmatic Effects reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Magmatic Effects in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Magmatic Effects be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Magmatic Effects products and supercedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS (USA ONLY)

To obtain warranty service, a Return Material Authorization (RMA) number must first be obtained from MAGMATIC. It is the Customer's responsibility to provide product proof of purchase and serial number by acceptable evidence such as an invoice copy or an approved MAGMATIC Extended Warranty Certificate ("EWC") and any relevant maintenance records at the time warranty service is sought. Failure to provide acceptable evidence of product proof of purchase or EWC and any relevant maintenance records may be cause for denial of warranty service.

Products returned for warranty service must be sent without any accessories (i.e., power, data, and safety cables, brackets, clamps, rigging hardware, frost filters, gel frames, barn doors, lenses, hoses, nozzles, rack mounting hardware, etc.), must be boxed using the original and/or suitable packaging materials (double-box and foam) that provides ample product protection for ground and/or air freight transit, and must be shipped freight pre-paid and insured to MAGMATIC in Los Angeles, CA or a MAGMATIC Authorized Service Center. The RMA number must be clearly written on the outside of the return box, and a brief description of the problem and the RMA number must be documented and included in the box.

Products returned for warranty service without an RMA number clearly marked on the outside of the package will be refused and returned to the shipper at the Customer's expense. Products returned for warranty service, which are received damaged due to inadequate and/or improper packaging and/or due to damage caused by the shipping carrier, may incur additional repair charges before warranty service begins and/or may void this warranty. If any product accessories (included and/or optional) are shipped with the product, MAGMATIC and/or the MAGMATIC Authorized Service Center shall have no liability what so ever for the loss and/or damage to any such accessories, nor the safe return thereof. If the requested warranty repairs or service (including parts replacement) are within the terms of this warranty, MAGMATIC will pay return ground transportation shipping charges to a single designated point within the United States.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Magmatic Effects is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS DEVICE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



**DO NOT PLUG THIS UNIT INTO A DIMMER PACK
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

IP65

FIXTURE IS DUST TIGHT AND PROTECTED AGAINST LOW PRESSURE WATER JETS FROM ANY DIRECTION

SAFETY GUIDELINES

- **DO NOT TOUCH** the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- **DO NOT** shake fixture, and avoid brute force when installing and/or operating fixture.
- **DO NOT** operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely and with ease. **NEVER** force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.
- **DO NOT** block any air ventilation slots.
- All fan and air inlets must remain clean and free of dust and debris.
- Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, and **NEVER** pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure fixture will function properly for many years.
- **ONLY** use the original packaging and materials to transport the fixture for service.

CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT



**AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
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TIVE MEDICATION MAY EXPERIENCE DISCOMFORT IF EXPOSED TO THE
ULTRAVIOLET (UV) LIGHT EMITTED FROM THIS FIXTURE.**

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface periodically with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized MAGMATIC service technician. Should you need any spare parts, please order genuine parts from your local MAGMATIC dealer.

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition in order to prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust or liquids to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

MAINTENANCE GUIDELINES

REASSEMBLY

In order to maintain the device's IP rating following any maintenance or repair procedure, the device fasteners should be tightened to the following spec using a torque wrench:

Fastener	Torque Specification
M3x6 Lens Plate Screw (x7)	4.0~7.2 lbf-in (4.6~8.3 kgf-cm)
M4x6 Black Glass Diffusion Filter Screw (x4 per filter)	5.0~9.6 lbf-in (5.8~11.1 kgf-cm)
M4x8 Rear Panel Screws (x10)	5.0~9.6 lbf-in (5.8~11.1 kgf-cm)

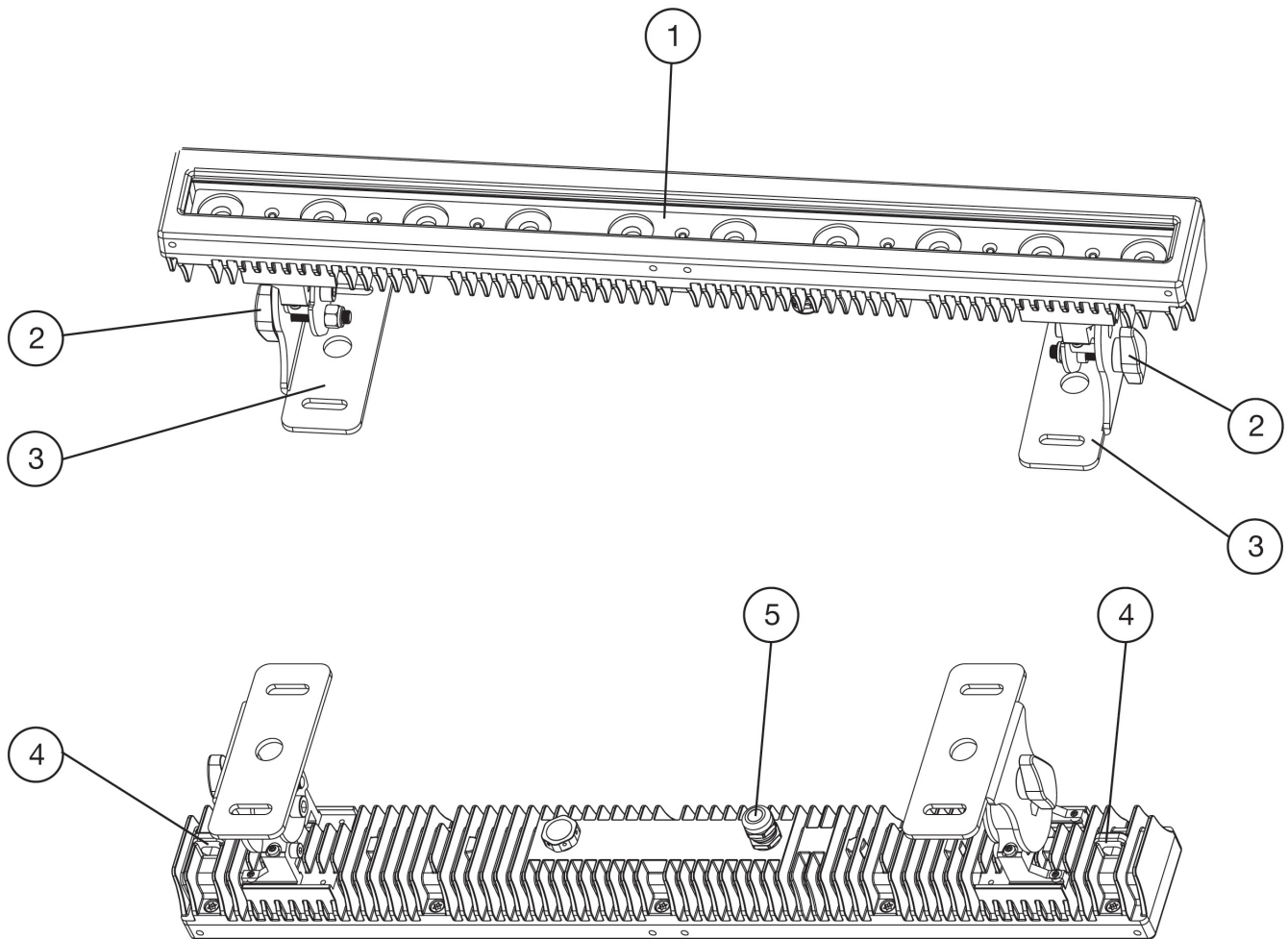


CAUTION! DO NOT OVER-TORQUE THE SCREWS, AS DOING SO CAN RESULT IN LEAKAGE!

TO CONFIRM THE INTEGRITY OF THE DEVICE AFTER REASSEMBLY, TEST THE FIXTURE USING AN ELATION IP TESTER. CONTACT ELATION SERVICE FOR DETAILS.



OVERVIEW



1. Lens
2. Bracket Adjustment Screw (x2)
3. Mounting Bracket (x2)
4. Safety Cable Attachment Point (x2)
5. Power/Data Cable

INSTALLATION INSTRUCTIONS



FLAMMABLE MATERIAL WARNING

Keep fixture a minimum of 5 feet (1.5 meters) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single fixture or multiple interconnected fixtures for custom matrix designs to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Ambient operating temperature range is from 14°F (-10°C) to 104°F (40°C).
Do not operate this fixture when ambient temperature falls outside this range.

Fixture(s) should be installed outside walking paths, seating areas, and areas where unauthorized personnel might reach the fixture by hand.

NEVER stand directly below the fixture(s) when rigging, removing, or servicing.

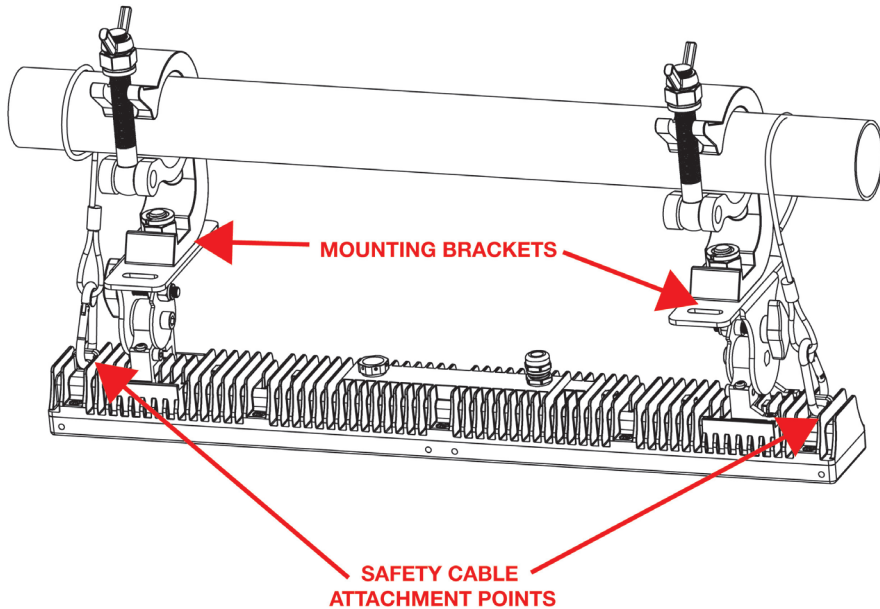
Allow approximately 15 minutes for the fixture to cool down before servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable (not included) that meets all local, national, and country codes and regulations.

INSTALLATION INSTRUCTIONS

CLAMP INSTALLATION

This fixture features a pair of adjustable mounting brackets on the rear face, as well as a safety cable attachment point located at each end of the rear face, just outboard of the mounting brackets. (see the illustration below). When mounting this fixture to truss, be sure to secure appropriately rated clamps (not included) to the mounting brackets, and attach separate **SAFETY CABLES** of the appropriate rating to each of the safety cable attachment points.



SAFETY CABLE

ALWAYS ATTACH A SAFETY CABLE WHEN INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IN THE EVENT THAT THE CLAMP FAILS.

RIGGING

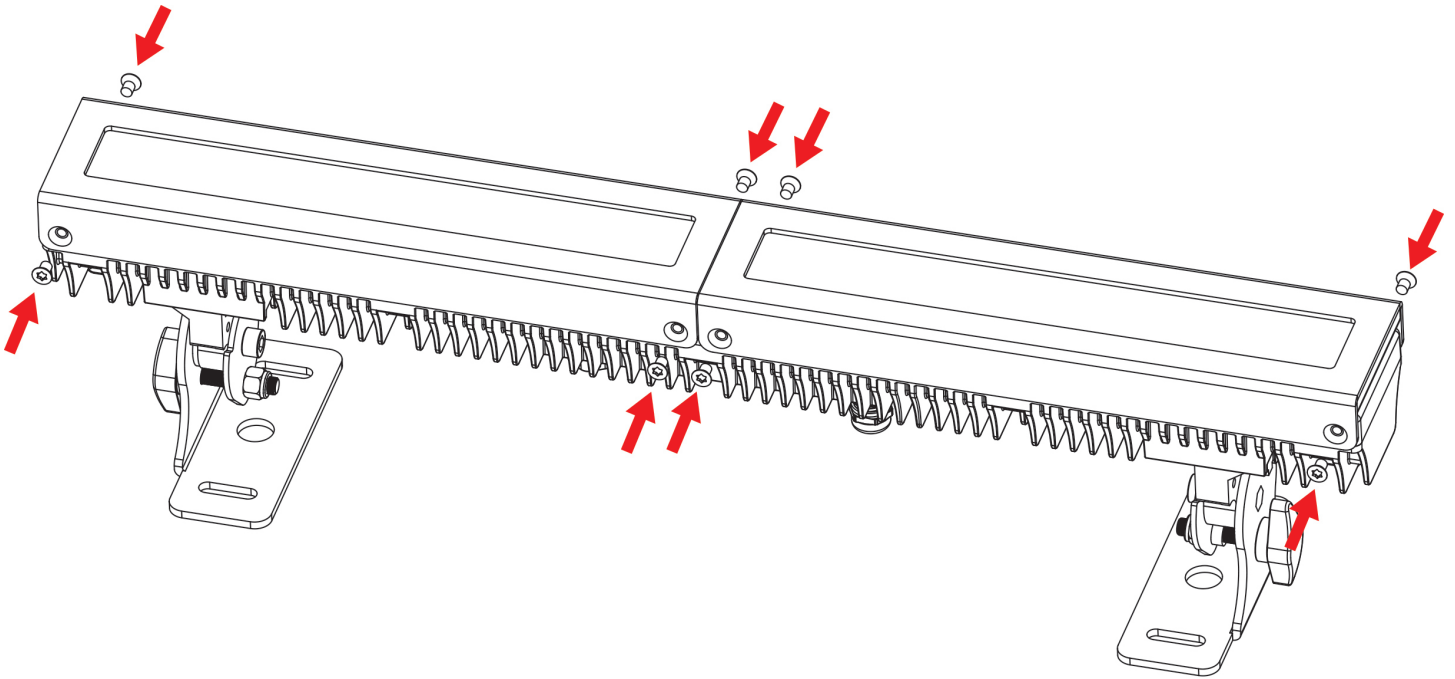
Overhead rigging requires extensive experience, including but not limited to: calculating working load limits, understanding the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

INSTALLATION INSTRUCTIONS

BLACK GLASS DIFFUSION FILTER

This unit requires two (2) black glass diffusion filters (SKU# PSG820) for full coverage of the lens.

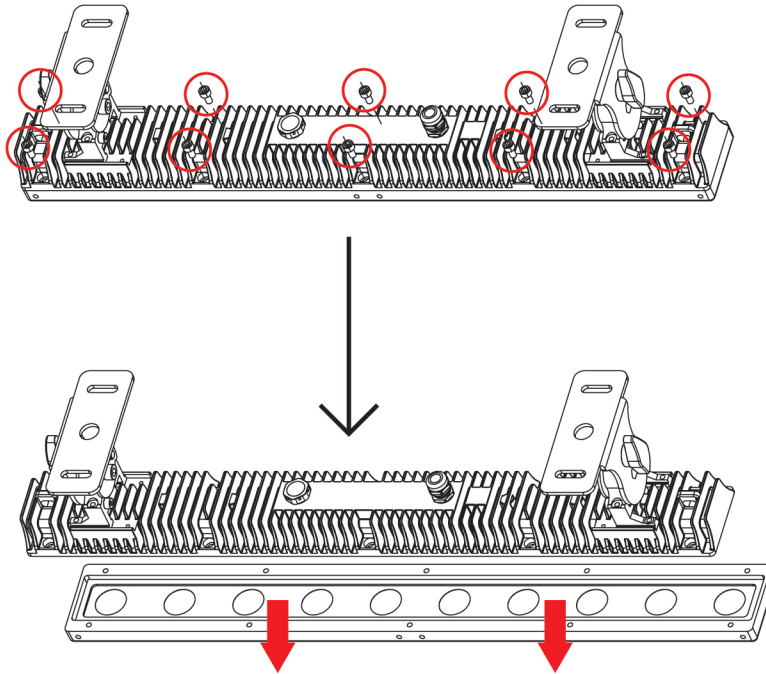
To install the black glass filters, simply align the screw holes on the the black glass filters with the matching screw holes on the frame of the fixture's lens. Insert and tighten four (4) M4x6 fasteners per filter. See the image below for guidance.



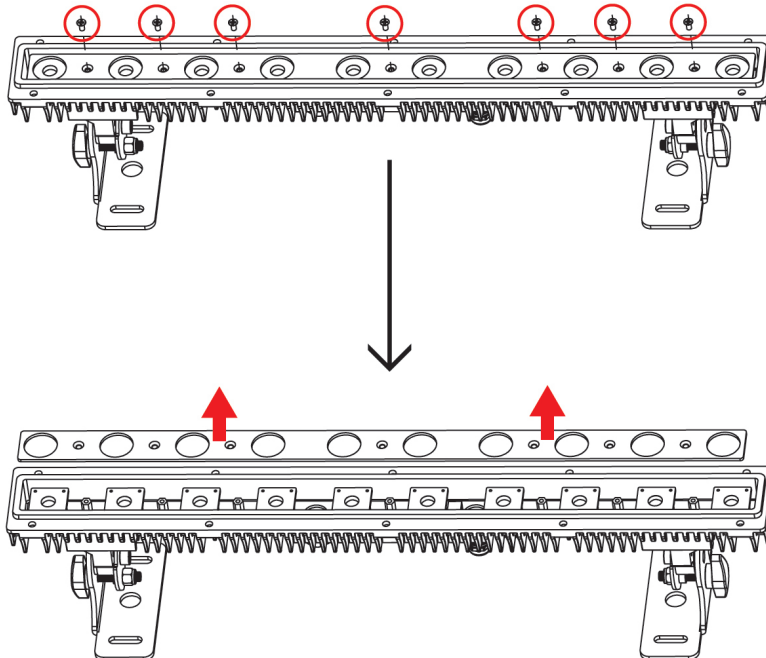
INSTALLATION INSTRUCTIONS

45 DEGREE LENS

1. Turn the device over with the rear panel facing towards you. Use an M4x8 screwdriver to remove the ten (10) screws on the rear panel, then remove the top lens cover and waterproof seal.



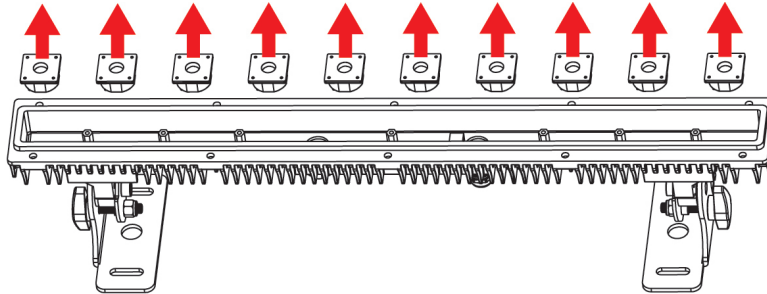
2. Turn the device back over so that the lighting panel is facing towards you. Use an M3x6 screwdriver to remove the seven (7) screws located on the lens plate. Remove the lens plate.



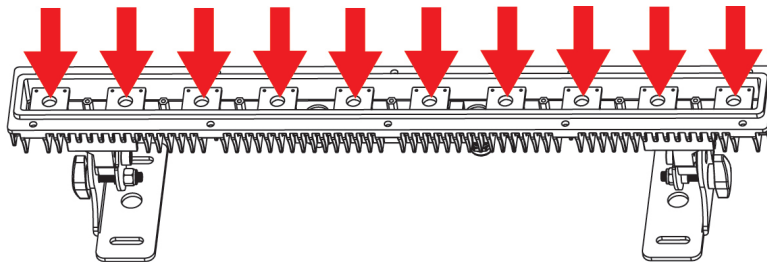
INSTALLATION INSTRUCTIONS

45 DEGREE LENS

3. Remove the standard lens.



4. Install the new 45-degree lens, then re-install the lens plate and secure it in place by re-installing and tightening the seven (7) screws that were removed in step 2.



5. Re-install the waterproof seal and the top lens cover, then secure these in place by re-installing and re-tightening the ten (10) screws on the rear panel that were removed in step 1.
6. After re-assembly is complete, verify that the fixture is fully sealed by using the IP Tester. Refer to the **Maintenance Guidelines** section of this manual.

REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a *GET* command). The controller can then use its *SET* command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors. Please be aware that not all RDM devices support all RDM features, and therefore **it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.**

The following parameters are accessible in RDM on this device:

Sensor Definition
Sensor Value
Device Model Description
Manufacturer Label
Device Label
DMX Personality
DMX Personality Description
Device Hours
Display Invert

SPECIFICATIONS

KEY FEATURES

IP65 Rated Exterior High-Power UV Wash Luminaire
Scoop LED Reflector Design
20 Degree Narrow Beam Angle
365nm Peak True UV Wavelength
Optional Black Glass Diffusion Filter

DYNAMIC EFFECTS

20 Degree Beam Angle
Variable Dimming Modes
High Speed Electronic Strobe
Beam Uniformity
LCD Display
10 x 3W High Power UV Diode LEDs
20,000 Hour Average LED Life

CONTROL

Must use with Magmatic Prisma Driver 8 (SKU# PSD108)

CONNECTIONS

Hard Wired 9 ft (2.74m), 2-Conductor, 14 Gauge IP Rated Power/Data Pigtail Cable

CONSTRUCTION / PHYSICAL / PERFORMANCE

Dimensions (LxWxH): 18.9 x 3.9 x 4.2 in. / 480 x 100 x 106.5 mm
Weight: 4.85 lbs / 2.2 kg

ELECTRICAL

Input Voltage: DC 0-36.7V
Power Consumption: 24.3 W

CERTIFICATIONS / QUALIFICATIONS / THERMAL

IP Rating: IP65 Rating
Approvals: ROHS, CE Approved
Cooling: Air Cooled
Maximum Temperature (Ambient): 113 degrees F (45 degrees C)
Minimum Temperature (Ambient): 14 degrees F (-10 degrees C)

WHAT'S INCLUDED

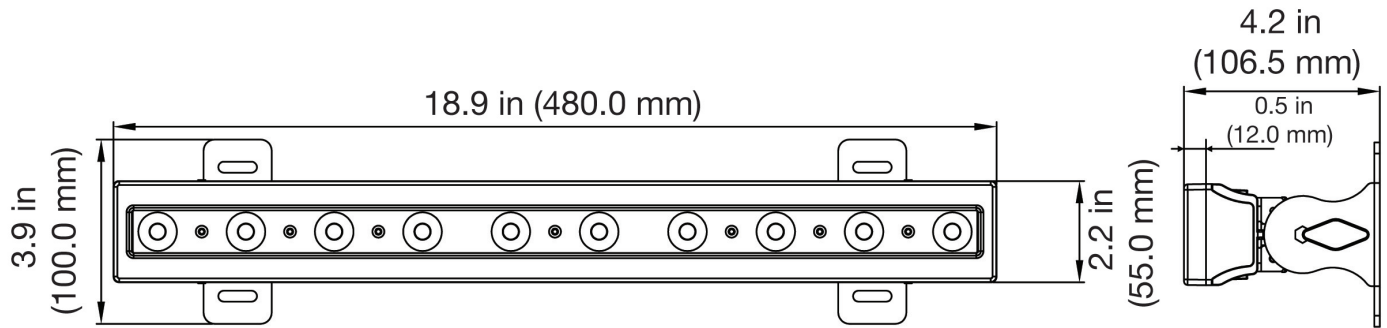
Phoenix Connector (x1)
Positive Wire Tip Sheath (x1)
Negative Wire Tip Sheath (x1)

OPTIONAL ACCESSORIES

Prisma Mini Bar 20 Black Glass (PSG820)
Prisma-MB45L 45-degree Lens (PSL450)

Specifications and documentation subject to change without notice.

DIMENSIONAL DRAWINGS



Drawings not to scale.

