

OBSIDIAN™  
CONTROL SYSTEMS

**RDM6 IP Netron  
Terminal DMX  
RDM Splitter**



# OBSIDIAN CONTROL RDM6 IP Netron Terminal DMX RDM Splitter Installation Guide

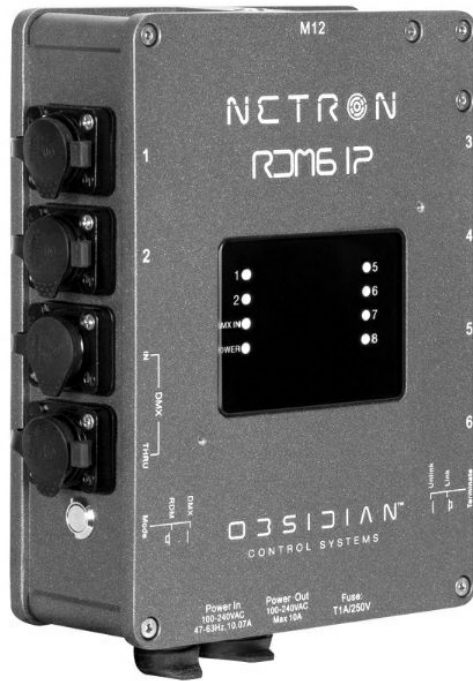
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**OBSIDIAN CONTROL RDM6 IP Netron Terminal DMX RDM Splitter**



## Product Information

### Specifications

- **Model:** Netron RDM6 IP
- **Ports:** 6 XLR 5pin outputs
- **Compliance:** DMX and RDM compliant
- **Protection:** IP66 rated
- **Features:** Optically isolated ports, Power/DMX Through connectors, Powder-coated aluminum housing

## Product Usage Instructions

### General Information

Before operating the Netron RDM6 IP, carefully read and understand the user manual for important safety and usage guidelines.

### Facility

The Netron RDM6 IP is designed for various applications including live productions, movie sets, temporary outdoor installations, or interior use. Follow these steps for installation:

1. Mount the unit using the provided wall mount brackets and adapter nuts.
2. Connect the power cable to a suitable power source.
3. Connect your DMX devices to the XLR outputs.
4. Ensure proper grounding to avoid electrical hazards.

### Maintenance

To ensure optimal performance and longevity of the product, follow these maintenance tips:

- Regularly inspect for any physical damage.
- Clean the unit with a soft, dry cloth to remove dust or debris.

- Avoid exposing the unit to extreme temperatures or humidity.

## **Connections**

The Netron RDM6 IP features optically isolated ports for secure connections. Use the provided XLR outputs for connecting your DMX devices.

## **FAQs**

Q: How do I reset the device?

A: To reset the device, power it off, wait for a few seconds, and then power it back on.

Q: Can I use the Netron RDM6 IP outdoors?

A: Yes, the product is designed for temporary outdoor installations with protection against humidity and dust.

Q: What is the warranty period for the product?

A: The product comes with a two-year limited warranty against manufacturing defects.

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## **ELATION PROFESSIONAL B.V.**

Junostraat 2 | 6468 EW Kerkrade, The Netherlands +31 45 546 85 66

## **FCC STATEMENT**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## **FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS**

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used by the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Energy Saving Matters (EuP 2009/125/EC)

- Saving electric energy is a key to protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!
- **Document Version:** An updated version of this document may be available online.
- Please check [www.obsidiancontrol.com](http://www.obsidiancontrol.com) for the latest revision/update of this document before beginning installation and use.

Date	Document Version	Note
04/04/2024	1.0	Initial Release
04/09/2024	1.1	Added French translation; updated General Information

## GENERAL INFORMATION

### INTRODUCTION

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.

The Netron RDM6 IP is a six-port DMX/RDM splitter in a rugged IP66-rated chassis. It is designed for live productions, movie sets, temporary outdoor installations, or interior use with long-term protection from humidity, dust, and debris.

### 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, 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.

### KEY FEATURES

- IP66 Chassis
- (6) XLR 5pin outputs
- DMX and RDM compliant
- Optically isolated ports
- Power/DMX Through connectors
- Powder-coated aluminum housing

## INCLUDED ITEMS

- Wall Mount Bracket (x2)
- M12 to M10 adapter nut (x1)
- 5ft (1.5m) Power Cable (x1)
- Silver Screws (x4)

## CUSTOMER SUPPORT

- Contact your local Obsidian Controls Systems dealer or distributor for any product-related service and support needs. Also visit [forum.obsidiancontrol.com](http://forum.obsidiancontrol.com) with questions, comments, or suggestions.
- OBSIDIAN CONTROL SERVICE EUROPE – Monday – Friday 08:30 to 17:00 CET + 31 45 546 85 63 | [support@obsidiancontrol.com](mailto:support@obsidiancontrol.com).
- OBSIDIAN CONTROL SERVICE USA – Monday – Friday 08:30 to 17:00 PST + 1(844) 999-9942 | [support@obsidiancontrol.com](mailto:support@obsidiancontrol.com).

## LIMITED WARRANTY

1. Obsidian Control Systems hereby warrants, to the original purchaser, Obsidian Control Systems products to be free of manufacturing defects in material and workmanship for two years (730 days).
2. For warranty service, send the product only to the Obsidian Control Systems service center. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Obsidian Control Systems 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, Obsidian Control Systems shall have no liability whatsoever for loss and/or damage to any such accessories, nor the safe return thereof.
3. 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 Obsidian Control Systems concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Obsidian Control Systems factory unless prior written authorization was issued to purchaser by Obsidian Control Systems; if the product is damaged because not properly maintained as outlined in the product instructions, guidelines and/or user manual.
4. This is not a service contract, and this warranty does not include any maintenance, cleaning, or periodic check-ups. During the periods specified above, Obsidian Control Systems will replace defective parts at its expense and will absorb all expenses for warranty service and repair labor because of defects in material or workmanship. The sole responsibility of Obsidian Control Systems under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Obsidian Control Systems. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.
5. Obsidian Control Systems 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.
6. No warranty, whether expressed or implied, is given or made concerning any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by

Obsidian Control Systems 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 Obsidian Control Systems 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.

7. This warranty is the only written warranty applicable to Obsidian Control Systems products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.
8. Use of software and firmware: To the maximum extent permitted by applicable law, in no event shall Elation or Obsidian Control Systems or its suppliers be liable for any damages whatsoever (including, but not limited to, damages for loss of profits or data, for business interruption, for personal injury or other loss whatsoever) arising out of or in any way related to the use of or inability to use firmware or software, the provision of or failure to provide support or other services, information, firmware, software, and related content through the software or otherwise arising out of the use of any software or firmware, even in the event of the fault, tort (including negligence), misrepresentation, strict liability, breach of warranty of Elation or Obsidian Control Systems or any supplier, and even if Elation or Obsidian Control Systems or any supplier has been advised of the possibility of such damages.

#### **WARRANTY RETURNS:**

All returned service items, whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without an R.A. number marked on the outside of the package will be refused and returned at the customer's expense. You may obtain an R.A. number by contacting customer support.

#### **IP66 RATED**

The International Protection (IP) rating system is commonly expressed as "IP" (Ingress Protection) followed by two numbers (i.e. IP66), where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An IP66-rated lighting fixture is designed and tested to protect against the ingress of dust (6), and high-pressure water jets from any direction (6).

#### **NOTE: THIS FIXTURE IS INTENDED FOR TEMPORARY OUTDOOR USE ONLY!**

Maritime/Coastal Environment Installations: A coastal environment is seaside adjacent, and caustic to electronics through exposure to atomized salt water and humidity, whereas maritime is anywhere within 5 miles of a coastal environment.

NOT suitable for maritime/coastal environment installations. Installing this fixture in a maritime/coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a maritime/coastal environment will void the manufacturer's warranty, and will NOT be subject to any warranty claims and/or repairs.

#### **SAFETY GUIDELINES**

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. OBSIDIAN CONTROL SYSTEMS is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to

the device, included, and/or accessories will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

- PROTECTION CLASS 1 – DEVICE MUST BE PROPERLY GROUNDED
- DO NOT ATTEMPT TO USE THIS DEVICE WITHOUT BEING FULLY TRAINED ON ITS USAGE. ANY DAMAGES OR REPAIRS TO THIS DEVICE OR ANY LIGHTING FIXTURES CONTROLLED BY THIS DEVICE RESULTING FROM IMPROPER USE AND/OR THE DISREGARD OF THE SAFETY AND OPERATION GUIDELINES IN THIS DOCUMENT VOIDS THE OBSIDIAN CONTROL SYSTEMS WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS, AND MAY ALSO VOID THE WARRANTY FOR ANY NON-OBSIDIAN CONTROL SYSTEMS DEVICES. KEEP FLAMMABLE MATERIALS AWAY FROM THE DEVICE.
- DISCONNECT the device from AC power when not in use, or before performing any maintenance or repair, including the removal of fuses or other parts.
- Always electrically ground this device.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- Never attempt to bypass fuses. Always replace defective fuses with ones of the specified type and rating.
- Refer all services to a qualified technician.
- Do not modify the device or install other than genuine Netron parts.
- AVOID brute force handling during transport or operation.
- DO NOT expose any part of the device to open flame or smoke. Keep devices away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- DO NOT use the device in extreme and/or severe environments.
- Replace fuses with units of the same type and rating only. Never attempt to bypass a fuse. The unit is provided with a single fuse on the Line side.
- DO NOT operate the device if the power cord is frayed, crimped, damaged, and/or if any of the power cord connectors are damaged, and does not insert into the device securely with ease.
- NEVER force a power cord connector into the device. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- Use only the provided AC power supply and power cords and the correct connector for the country of operation. Use of the factory-provided power cable is mandatory for operation in the US and Canada.
- Allow free unobstructed airflow to the side of the product. Do not block the ventilation slots.
- Operate the console only on a stable and solid surface.
- DO NOT use the product if the ambient temperature exceeds 45°C (113 °F)
- Transport the product only in suitable packaging or a custom-fitted road case. Transportation damage is not covered under warranty.

## CONNECTIONS

### AC CONNECTIONS

- The Obsidian Control Systems Netron RDM6 IP is rated 100-240V 50/60Hz. Do not connect it to power outside this range. Damage resulting from incorrect connection is not covered under warranty.
- **North America:** A suitable power cable is provided for use with this device in the USA and Canada. This

approved cable must be used in North America.

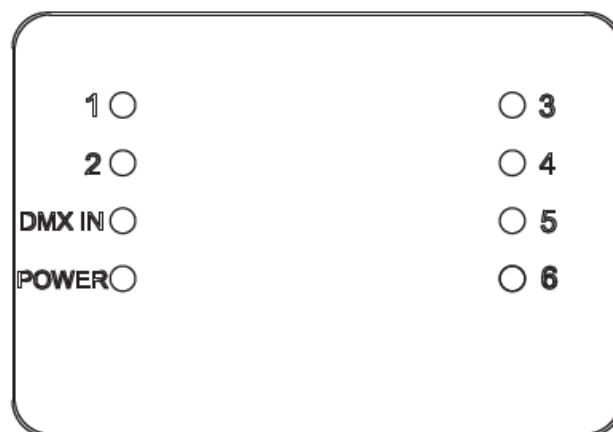
- **Rest of the world:** The provided power cable is not fitted with a country-specific plug. Install only a plug that meets local and or national electrical codes and is suitable for the country's specific requirements.

## DMX CONNECTIONS

All DMX Output connections are 5-pin female XLR; the pin-out on all sockets is pin 1 to shield, pin 2 to cold (-), and pin 3 to hot (+). Pins 4 and 5 are not used. Carefully connect DMX cables to the respective ports. To prevent damaging the DMX ports, provide strain relief and support. Avoid connecting FOH Snakes to the ports directly.

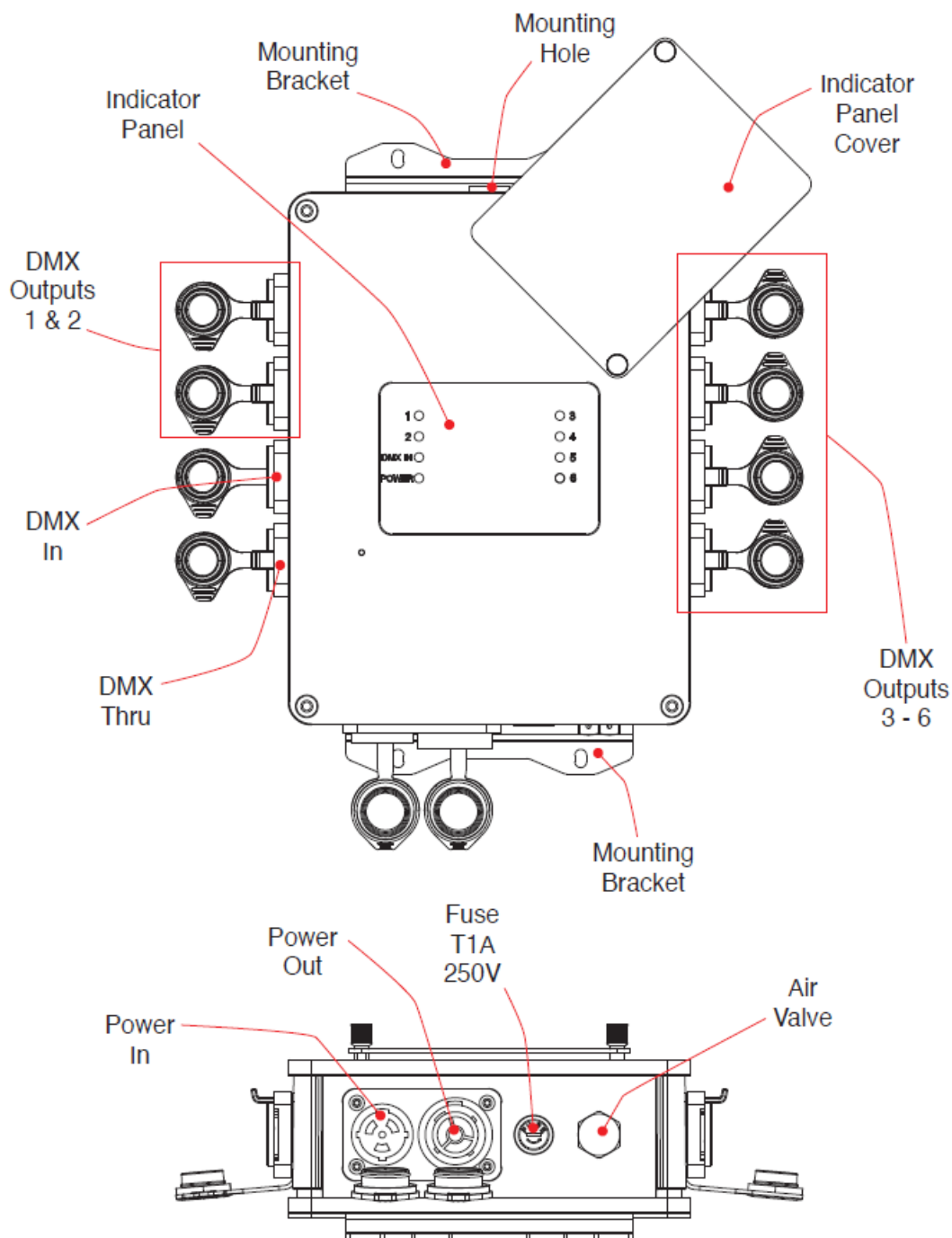
PIN	CONNECTION
1	Com
2	Data-
3	Data+
4	Not connected
5	Not connected

- This device features six (6) DMX outputs, one (1) DMX input, and one (1) DMX thru port. Indicator lights for all data connections (as well as the power connections) are located on an indicator panel on the top of the device, as shown below.
- When viewed from above with the text of the indicator panel oriented upright, DMX Outputs 1 & 2 are located on the upper left side of the device, the DMX input and thru ports are located on the lower left side of the device, and DMX Outputs 3 – 6 are located along the right side of the device. Please refer to the image on the next page.



## CONNECTIONS





## INSTALLATION INSTRUCTIONS

- DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!
- **ELECTRICAL CONNECTIONS**  
A qualified electrician should be used for all electrical connections and/or installations.
- USE CAUTION WHEN POWER LINKING OTHER MODEL DEVICES AS THE POWER CONSUMPTION OF OTHER MODEL DEVICES MAY EXCEED THE MAXIMUM POWER OUTPUT OF THIS DEVICE. CHECK THE SILK SCREEN FOR MAXIMUM AMPS.
- The device **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

## POWER LINKING

- USE CAUTION WHEN POWER LINKING AS THE POWER CONSUMPTION MAY EXCEED THE MAXIMUM

POWER OUTPUT ON THIS DEVICE. CHECK THE SILK SCREEN FOR MAXIMUM AMPS.

- PLEASE NOTE THAT ALL UNUSED CONNECTION PORTS SHOULD BE SEALED USING THE INCLUDED PORT CAPS TO MAINTAIN IP66 RATING!
- **REMOVABLE PROTECTIVE COVER**

The metal cover is solely for safeguarding the glass display against mechanical damage. While it is not necessary for the IP protection of the device, it is advisable to leave it installed after the unit is set up.

#### **MOUNTING OPTIONS:**

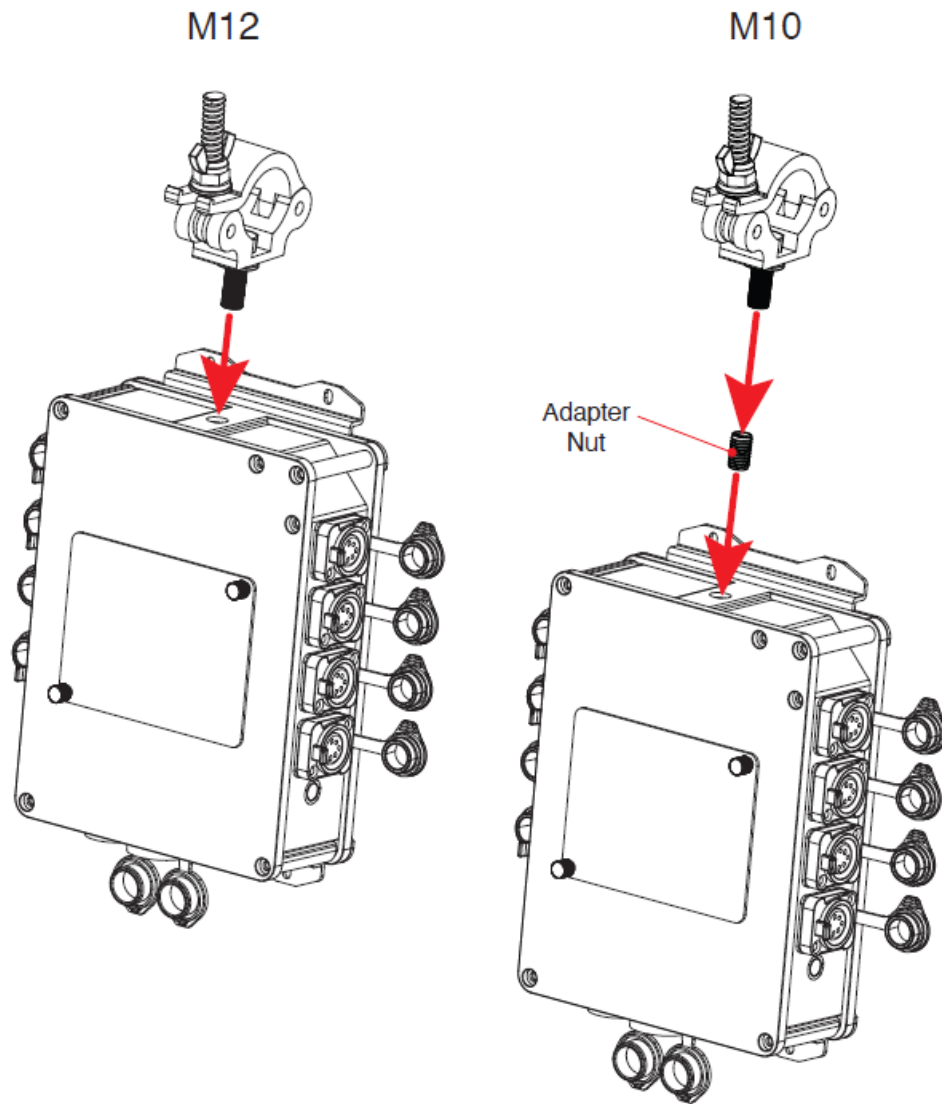
- Truss-mounted using the M12 mounting hole for use with a truss clamp or appropriate mounting hardware.
- Wall-mounted horizontally or vertically (wall mount brackets included)
- Standalone, where the device sits on a stable, flat surface.

Refer to the following pages for detailed information on each installation method.

#### **TRUSS MOUNTED WITH CLAMP**

This unit can be truss mounted using either an M10 or M12 bolt. For the M12 bolt, as shown on the left, simply insert the bolt through a properly rated mounting clamp, then thread the bolt into the matching mounting hole on the side of the device and tighten it securely. For an M10 bolt, as shown on the right, insert the included adapter nut into the mounting hole on the device, then thread in your M10 bolt. The clamp can now be used to secure the device to a truss. Always use a clamp that has been rated to support the weight of the device and any associated accessories.

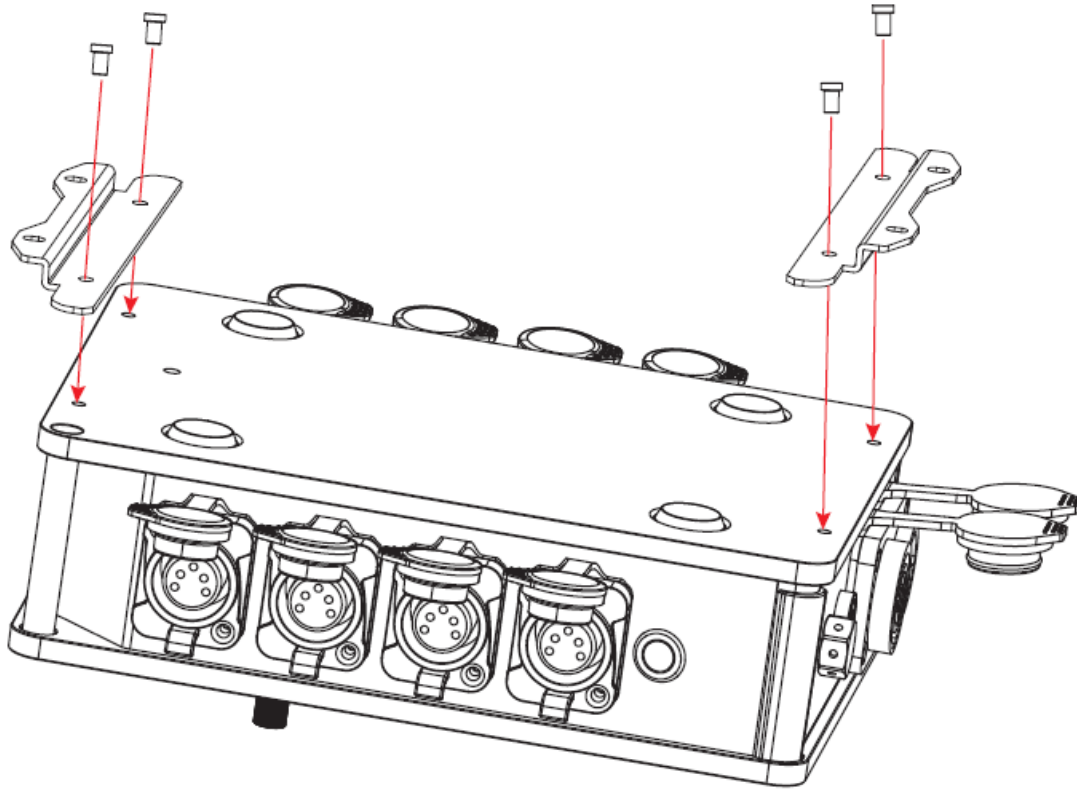
PLEASE NOTE THAT ALL UNUSED CONNECTION PORTS SHOULD BE SEALED USING THE INCLUDED PORT CAPS TO MAINTAIN IP66 RATING!



### **WALL MOUNTED**

Flip the device over to expose the mounting holes on the bottom face. Align the circular holes on the wide flange of each included wall mount bracket to the mounting holes on each side of the device, then insert the included screws to secure the wall mount brackets in place. Refer to the illustration below. The elongated holes on the narrow flange of each bracket can then be used to secure the device to a wall. Always make sure that the mounting surface is certified to support the weight of the device and any associated accessories.

PLEASE NOTE THAT ALL UNUSED CONNECTION PORTS SHOULD BE SEALED USING THE INCLUDED PORT CAPS TO MAINTAIN IP66 RATING!



## MAINTENANCE

- The Obsidian Control Systems Netron RDM6 IP is designed as a rugged, roadworthy device. The only required service is periodic cleaning of external surfaces. For other service-related concerns, please contact your Obsidian Control Systems dealer, or visit [www.obsidiancontrol.com](http://www.obsidiancontrol.com).
- Any service that is not described in this guide must be carried out by a trained and qualified Obsidian Control Systems technician.
- The frequency of cleaning depends on the environment in which the device operates. An Obsidian Control Systems technician can provide recommendations if necessary.
- Never spray cleaner directly onto the device's surface. Instead, the cleaner should always be sprayed into a lint-free cloth, which can then be used to wipe surfaces clean. Consider using cleaning products designed for cell phones and tablet devices.

### Important!

Excessive dust, dirt, smoke, fluid build-up, and other materials can degrade the performance of the device, causing overheating and damage to the unit that is not covered by the warranty.


## SPECIFICATIONS

- **Mounting**
  - Standalone
  - Truss-mount (M10 or M12)
  - Wall-mount
- **Connections – Sides**
  - (1) 5pin IP66 DMX In
  - (1) 5pin IP66 DMX Thru

- (6) 5pin IP66 DMX/RDM optically isolated ports
- DMX Termination Button
- RDM Enable/Disable Button
- **Connections – Bottom**
  - Locking IP66 Power In/Thru
- **Connections – Front**
  - LED Port Feedback
- **Physical**
  - Length: 204mm (8 in.)
  - Width: 179mm (7.1 in.)
  - Height: 61mm (2.4 in.)
  - Weight: 2 kg (4.41 lbs)
- **Electrical**
  - 100-240 V nominal, 50/60 Hz, 5W
- **Ordering**
  - US #: NIP101
  - EU #: 1330000086
- **Approvals/Ratings**
  - cETLus/CE/UKCA/IP66



## Documents / Resources

 <p><b>OBSIDIAN</b> CONTROL SYSTEMS</p> <p><b>NETRON</b> <b>RDM6 IP</b> Installation Guide</p>	<p><a href="#">OBSIDIAN CONTROL RDM6 IP Netron Terminal DMX RDM Splitter</a> [pdf] Installation Guide</p> <p>RDM6 IP Netron Terminal DMX RDM Splitter, RDM6, IP Netron Terminal DMX RDM Splitter, Terminal DMX RDM Splitter, DMX RDM Splitter, RDM Splitter, Splitter</p>
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## References

- [Obsidian Control Systems](#)
- [User Manual](#)

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