

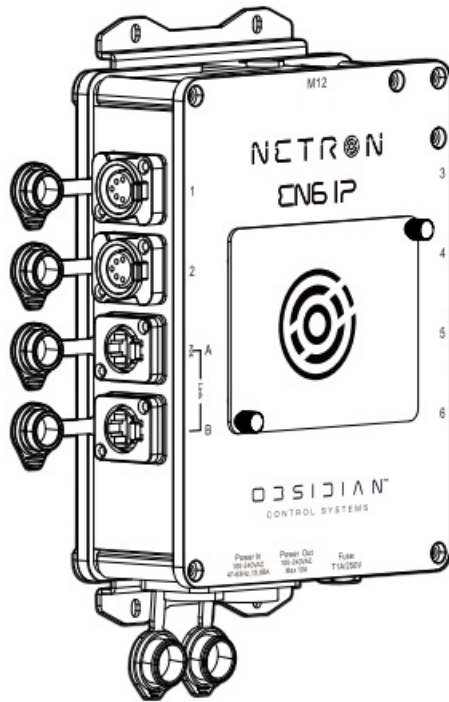
OBSIDIAN NETRON EN6 IP Ethernet to DMX Gateway Installation Guide

O B S I D I A N TM

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CONTROL SYSTEMS



NETRON CN6 IP

Installation Guide

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Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help 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 for the latest revision/update of this document before beginning installation and use.

Date	Document Version	Note
02/14/2024	1	Initial Release

GENERAL INFORMATION

FOR PROFESSIONAL USE ONLY

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 EN6 IP** is a powerful Art-Net and sACN to DMX gateway with six RDM compatible ports 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.

The EN6 IP unlocks the four Universe **ONYX NOVA Edition**.

KEY FEATURES:

- IP66 Ethernet to DMX Gateway
- RDM, Artnet and sACN support
- Factory and user presets for plug and play setups
- Line Voltage or POE powered
- 1.8" OLED Display and waterproof touch buttons
- 99 Internal cues with fade and delay time
- Remote configuration via internal webpage
- Powder-coated aluminum chassis
- Unlocks ONYX NOVA 4-Universe License

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.

CUSTOMER SUPPORT

Contact your local Obsidian Controls Systems dealer or distributor for any product related service and support needs.

OBSIDIAN CONTROL SERVICE EUROPE – Monday – Friday 08:30 to 17:00 CET

+31 45 546 85 63 | 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 a period of 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 for 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 set forth 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-up. During the periods as specified above, Obsidian Control Systems 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 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 bare 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 with respect to 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:
9. 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 clearly 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 a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a 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. IP65), 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 device in a maritime/coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the device. Damages and/or performance issues resulting from installation in a maritime/coastal environment will void the manufactures 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 manufactures 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 HOW TO USE IT. 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 DEVICE.

DISCONNECT the device from AC power before removing fuses or any part, and when not in use.

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.

Do not expose the device to rain or moisture.

Never attempt to bypass fuses. Always replace defective fuses with ones of the specified type and rating. Refer all service to a qualified technician. Do not modify the device or install other than genuine NETRON parts.

CAUTION: Risk of Fire and Electrical Shock. Use only in dry locations.

AVOID brute force handling when transporting or operating.

DO NOT expose any part of the device to open flame or smoke. Keep device away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

DO NOT use device in extreme and/or severe environments.

Replace fuses with ones of the same type and rating only. Never attempt to bypass a fuse. Unit provided with a single fuse in Line side.

DO NOT operate device if 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 device. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

Strictly use a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection. 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 bottom and back of the product. Do not block the ventilation slots.

DO NOT use the product if the ambient temperature exceeds 40°C (104° F)

Transport the product only in suitable packaging or a custom fitted road case. Transportation damage is not covered under warranty.

CONNECTIONS

AC CONNECTION



The Obsidian Control Systems NETRON EN6 IP is rated 100-240V. Do not connect it to power outside this range. Damage resulting from incorrect connection is not covered under warranty.

North America: A cable with a NEMA 15-5P plug is provided for use with the EN12i in the USA and Canada. This approved cable must be used in North America. Rest of the world: The provided 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.



A 3-prong grounded-type (earthed type) plug must be installed following the plug manufacturer's instructions.

DMX CONNECTION:

All DMX Output connections are 5pin 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.

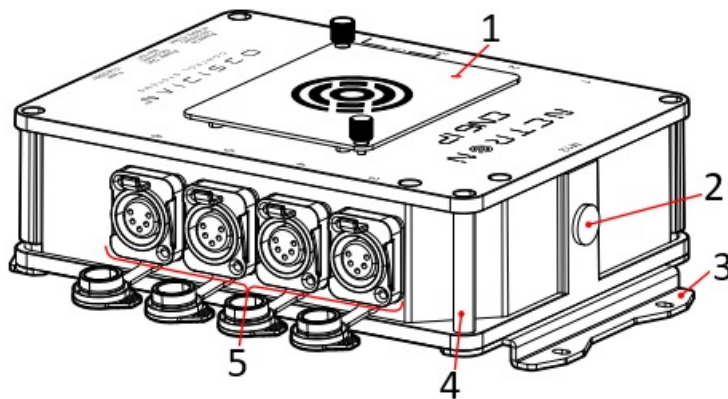
To prevent damaging the DMX ports, provide strain relief and support. Avoid connecting FOH Snakes to the ports directly.

Pin	Connection
1	Com
2	Data –
3	Data +
4	Not connected
5	Not connected

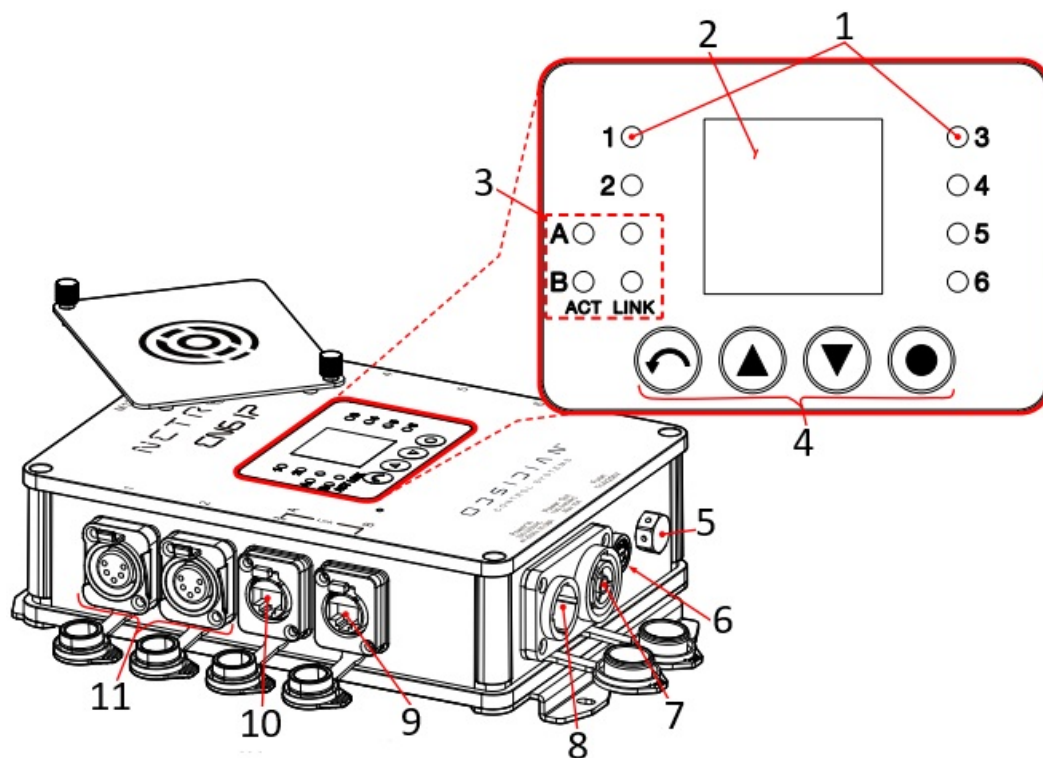
ETHERNET DATA CONNECTIONS

The Ethernet cable is connected on the back of the gateway into the port labeled A or B. Devices can be daisy chained, but it is recommended not to exceed 10 Netron devices in one chain. Because these devices use locking RJ45 connectors, and the use of locking RJ45 ethernet cables is recommended, any RJ45 connector is suitable..

The Ethernet connection is also used to connect a computer to the Netron device for remote configuration via a web browser. To access the web interface, simply enter the IP address shown in the display in any web browser connected to the device. Information about the web access can be found in the manual.



1. System Menu Control Panel Cover
2. M12 Mounting Hole
3. Mounting Bracket
4. Safety Cable Attachment Point
5. 5pin XLR DMX/RDM optically isolated ports (3-6) Bidirectional for DMX In/Out



1. Full Color OLED Display
2. DMX Port Indicator LEDs
3. ACT/LINK Indicator LEDs
4. Waterproof Touch Buttons: Menu return, Up, Down, Enter
5. Valve
6. Fuse: T1A/250V
7. Power Out 100-240VAC Max 10A
8. Power In 100-240VAC 47-63Hz, 10.08A
9. RJ45 Network Connection
10. RJ45 Network Connection w/POE
11. 5pin XLR DMX/RDM optically isolated ports (1 & 2) Bidirectional for DMX In/Out

LED Color	Solid	Blink	Flashing/Strobing
DMX PORTS RGB	Error		
DMX PORTS RGB	DMX In	DMX Lost	
DMX PORTS RGB	DMX Out	DMX Lost	
DMX PORTS WHITE			Flash on RDM packets

All LEDs are dimmable and can be turned off via the Menu/System/Display menu. 9

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 SILK SCREEN FOR MAXIMUM AMPS.

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

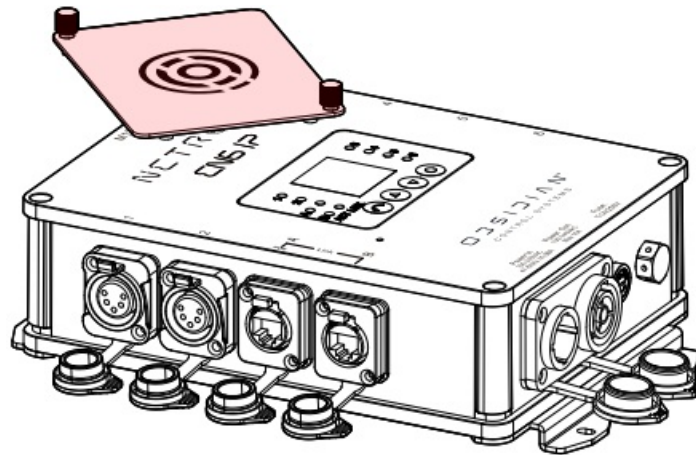


ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS DEVICE IN A SUSPENDED ENVIRONMENT TO ENSURE THE DEVICE WILL NOT DROP IF THE CLAMP FAILS. Overhead device installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that can hold 10 times the weight of the device.



REMOVABLE PROTECTIVE COVER

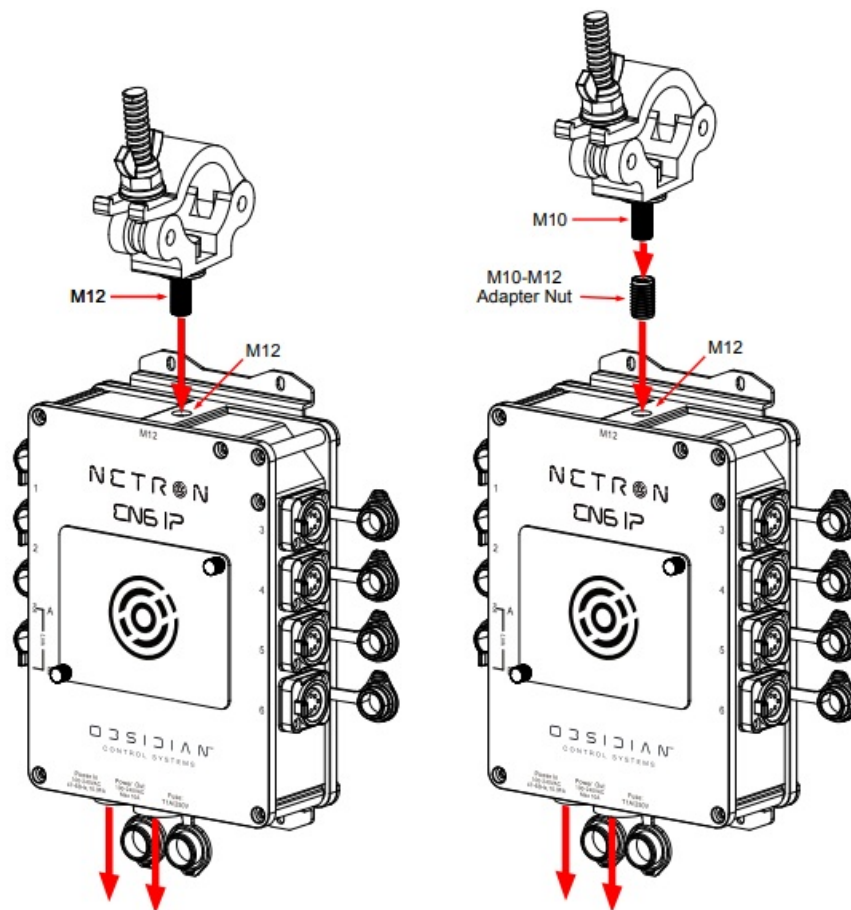
The metal cover is solely for safeguarding the glass display against mechanical damage. While it is not necessary for the IP protection of the EN6 IP, it is advisable to leave it installed after the unit is set up.



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 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 IN ORDER TO MAINTAIN IP66 RATING!

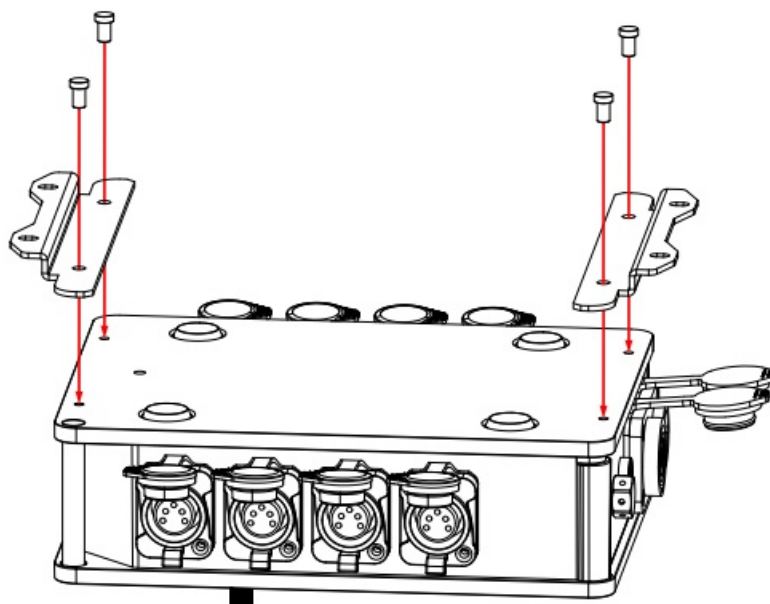


For use in wet locations. Mount the EN6 IP with the power connections facing down.

WALL MOUNTED

For use in wet locations. Mount the EN6 IP with the power connections facing down. Flip the device over to expose the mounting holes on the bottom face. Align the circular holes on the wide flange section of each Wall Mounting Bracket (included) to the Mounting Holes on each side of the device, then insert the screws (included) to secure the wall Mounting 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 IN ORDER TO MAINTAIN IP66 RATING!



MAINTENANCE

The Obsidian Control Systems Netron **EN6 IP** is designed as 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.

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 surface. Instead, 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 cellphone 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:

Front:

- Full color OLED display
- Status feedback LEDs
- 4 menu select buttons

Bottom

- Locking IP65 Power In/Thru
- Fuse Holder
- Vent

Left:

- (2) 5pin IP65 DMX/RDM optically isolated ports
- Ports are bidirectional for DMX In and Output
- (2) Locking IP65 RJ45 Ethernet network connections (1x POE)

Right

- (4) 5pin DMX/RDM optically isolated ports
- Ports are bidirectional for DMX In and Output

Physical

- Length: 8.0" (204mm)
- Width: 7.1" (179mm)
- Height: 2.4" (60.8mm)
- Weight: 2 kg (4.41 lbs)

Electrical

- 100-240 V nominal, 50/60 Hz
- POE 802.3af
- Power Consumption: 6W

Approvals / Ratings

- cETLus / CE / UKCA / IP66

Ordering:

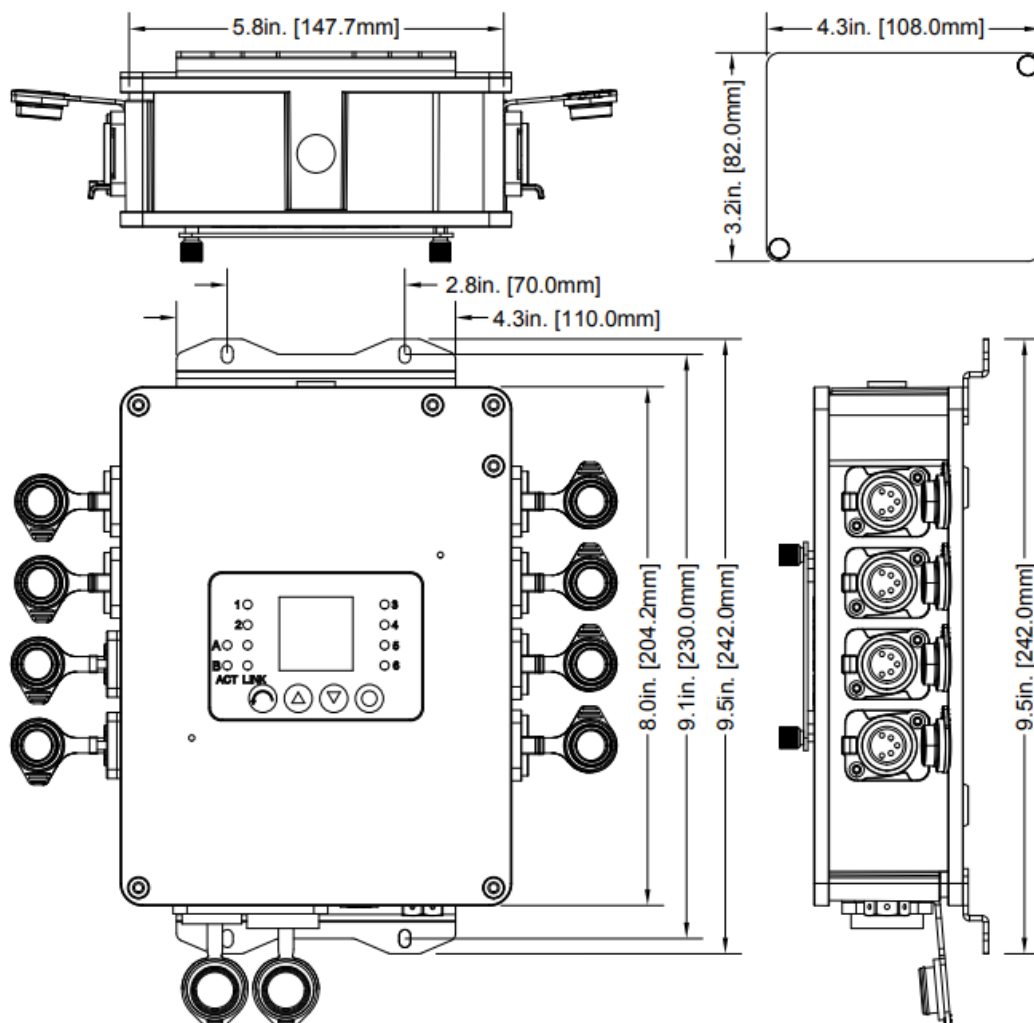
Included Items

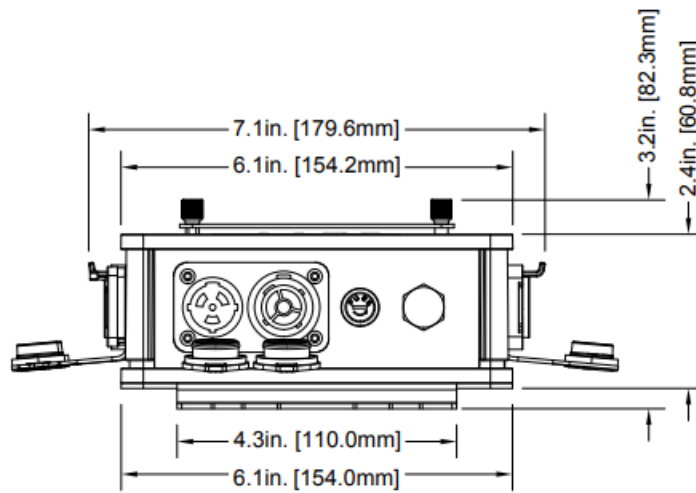
- (2) Wall Mount brackets
- (1) M12 to M10 nut
- 1.5m IP65 locking power cable (EU or US version))
- Metal display protection cover

SKU

- US #: NIP013
- EU #: 1330000084

DIMENSIONS





FCC STATEMENT


FCC Class A Warning:

Please note that changes or modifications of this product that are not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.



Documents / Resources

	<p>OBSIDIAN NETRON EN6 IP Ethernet to DMX Gateway [pdf] Installation Guide EN6 IP, NETRON EN6 IP Ethernet to DMX Gateway, NETRON EN6 IP, Ethernet to DMX Gateway, DMX Gateway, Gateway</p>
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References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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