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CONTROL SYSTEMS





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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 check www.obsidiancontrol.com for the latest revision/ update of this manual before beginning installation and/or programming.

Date	Document Version	Notes
03/28/19	1	Initial Release
08/26/19	2	Updated Specifications
07/28/22	3	Updated Formatting

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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 in accordance with 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 and the radio receiver to outlets on separate electrical circuits
- · Consult the dealer or an experienced radio/TV technician for help.

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

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.

CUSTOMER SUPPORT: OBSIDIAN CONTROL SERVICE EUROPE

Monday - Friday 08:30 to 17:00 CET +31 45 546 85 63 | Fax +31 45 546 85 96 support@obsidiancontrolsystemslighting.eu

REPLACEMENT PARTS: Please visit parts.obsidiancontrol.com

LIMITED WARRANTY (USA ONLY)

- 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 what so ever for loss and/or 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 abore, 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.

LIMITED WARRANTY (USA ONLY)

- 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. 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.

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 and/or included 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 DEVICE IF YOU ARE NOT FULLY TRAINED IN ITS USE - Any damages or repairs to this device, or any lighting fixtures controlled by this device, that result from improper use and/or the disregard of safety and operation guidelines in this document void the manufacturer's warranty, are are not subject to warranty claims and/or repairs. Warranties for non-Obsidian devices may also be voided.

KEEP FLAMMABLE MATERIALS AWAY FROM THE DEVICE!

DRY LOCATIONS ONLY - Do not expose to rain, moisture, or severe environments! Do not spill water/liquids into or onto device!

SAFETY GUIDELINES

- · AVOID using brute force 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.
- 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 cord or connector of the same 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 50°C (122° F).

OVERVIEW

NX DMX is a USB powered 2 port DMX Node. As a member of the innovative ONYX platform from Obsidian Control Systems, the NX DMX provides instant access to DMX Inputs and Outputs, as well as RDM communication. The device is plug and play, and requires no drivers or additional configuration to integrate with ONYX. It is designed to work with any PC, but also works with any ONYX console as a fast and affordable way to add two additional DMX ports.

NX DMX supports ONYX on PC systems for up to four Universes without any dedicated license. When connected to an ONYX licensed PC or a console the NX DMX is assignable to any one of 255 Universes. NX DMX allows for the full ONYX system to be used in many situations, from small events or tradeshows to clubs and churches. Many technicians utilize ONYX through the NX DMX as an affordable but powerful tests station due to ONYX's outstanding library support.

KEY FEATURES:

- · Plug and Play 2 Port DMX Node for ONYX
- USB powered
- · DMX In/Out and RDM support
- · Expand any ONYX console or PC system
- · Rugged design
- · K-Lock security slot

SOFTWARE

Operating the NX DMX requires the use of a Windows PC running ONYX, which can be downloaded from the support website http:// support.obsidiancontrol.com. You must update your controller to the latest version of ONYX before using it for the first time, and periodically check the website for updates.

PC SYSTEM REQUIREMENTS: The NX DMX was designed to operate with an external PC. Although it can be used with any PC system, the ONYX controller software was designed around a touch screen interface, and without one, will be more difficult to use.

Minimum Recommended PC System:

- Windows 10
- · Intel Core i3 processor 6th Generation+
- 2GB available disk space (SSD recommended)
- Widescreen monitor, minimum 1280 wide, 768 high (capacitive multi-touchscreen recommended)
- USB 2.0 port for Onyx Key and optional USB to DMX devices
- 10/100 Ethernet port for Art-Net, Remote operation and sACN
- · 100/1000 Ethernet port for X-Net, Remote operation and sACN
- NX DMX is also compatible with Elation LightJockey 2 Software

SETUP

USB:

The NX DMX draws its power from the connected computer via USB. If you use a USB hub, the hub must be powered. The host PC will fail to recognize a NX DMX device that is connected via an unpowered USB hub.

When the NX DMX is connected for the first time to a computer running ONYX software, a driver will be installed on the computer. As soon as the driver is loaded on the computer and initialized, the NX DMX is ready for use.

DMX:

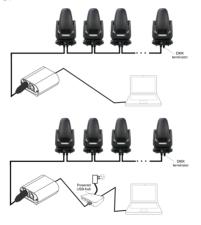
Connect fixtures to one or both of the DMX ports of the NX DMX device using DMX cable and standard DMX 512A pinout. Do not use a microphone cable.

Use a DMX termination plug on the last fixture on the DMX link. Damage to the NX DMX device or to the connected computer due to faulty DMX wiring is not covered by the product warranty.

NX DMX can be configured from the host PC once the system in installed.

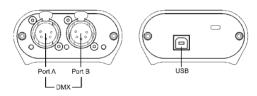
Refer to the diagram on the next page.

SETUP



CONNECTIONS

- USB In: a USB 2.0 B is located on the front panel for connection to a host computer.
- 2x DMX / RDM Universe In/Out 5-pin locking XLR connectors are located on the back. Note that the NX DMX can draw a maximum of 300mA. If using a USB hub between the NX DMX and the host computer, make sure that the USB is powered.



MAINTENANCE

The Obsidian Control Systems NX DMX is designed as a rugged, roadworthy device. The only required service is occasional cleaning. 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 qualified Obsidian Control Systems technician.

As with any electronic device, the NX DMX requires periodic cleaning. The schedule depends on the environment in which the controller is operated. An Obsidian Control Systems technician can provide recommendations if necessary.

Never spray cleaner directly onto the device; always spray into a lint-free cloth, then use the cloth to clean the device. 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 NX DMX, causing overheating and damage to the unit that is not covered by the warranty.

SPECIFICATIONS

CONTROL/USER INTERFACE

- · Capacity: Up to two DMX universes
- · Configuration and management: ONYX or LightJockey 2 software
- · Device status: (3x) multicolor status LEDs

CONSTRUCTION

- · Housing: aluminum
- · OP Rating: IP20

CONNECTIONS

- (2x) DMX / RDM Universe In/Out: 5-pin locking XLR
- USB In: USB 2.0 B
- K-Lock security slot

PHYSICAL

- · Length: 3.7" (92mm)
- Width: 3.3" (82mm)
- Height: 1.7" (41mm)
- · Weight: 0.6lb. (245g)

FI FCTRICAL

- 5VDC over USB
- · 100-240V nominal, 50/60Hz
- · Maximum current: 300mA

THERMAL

· Operating temperature: 0° - 50°C (32° - 122°F)

INCLUDED ITEMS

· (1x) Obsidian USB

DIMENSIONS

