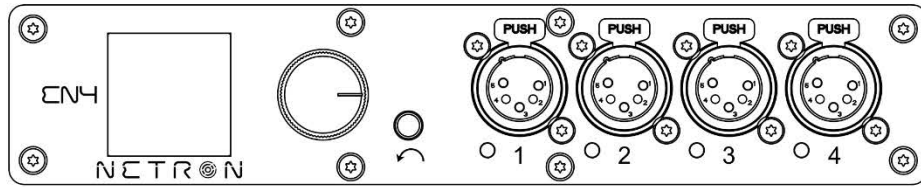
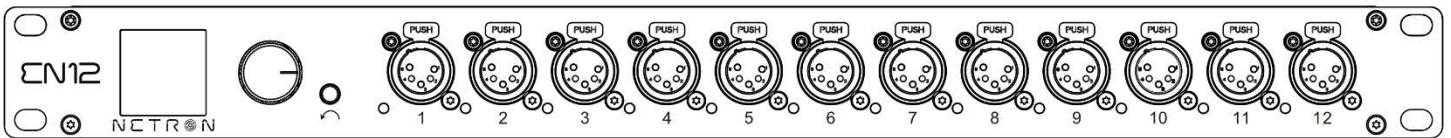


# OBSEIDIAN™

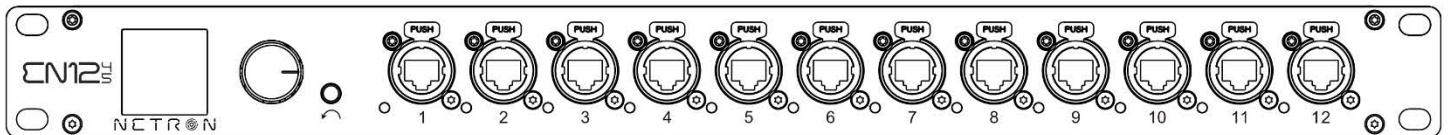
CONTROL SYSTEMS



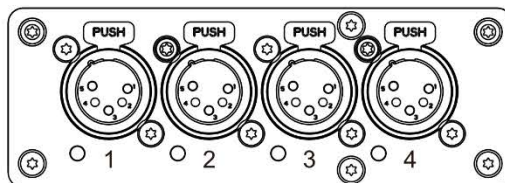
## EN4



## EN12



## EN12S



## EP4

# NETRON

## User Guide

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

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

#### **Art-Net**

This device incorporates Art-Net™, Designed by and Copyright Artistic License Holdings Ltd

#### **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 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 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](http://www.obsidiancontrol.com) for the latest revision/update of this document before beginning installation and use.

| <b>Date</b> | <b>Document Version</b> | <b>Note</b>   |
|-------------|-------------------------|---|
| 12/17/19    | 1.0                     | INITIAL RELEASE   |
| 12/27/19    | 1.5                     | Added Art-Net copyright   |
| 01/06/20    | 2.0                     | DateUpdated software  |
| 01/21/20    | 2.5                     | Updated Menu Options  |
| 09/21/20    | 3.0                     | Updated Firmware to V2.4  |
| 02/02/21    | 3.5                     | Updated Firmware to V2.6 for EN4, EN12, EP4; & updated silkscreens for EN4 & EN12 |
| 03/29/21    | 4.0                     | Added EN12-45   |
| 05/25/22    | 4.5                     | Updated FCC Statement   |

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# 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.

## 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  
(866) 245 – 6726 | [support@obsidiancontrol.com](mailto:support@obsidiancontrol.com)

# OVERVIEW

## INTRODUCTION

The Netron devices offer unique and powerful DMX management features. Most settings can be accessed from the intuitive display and menu system.

All settings are available from the integrated web page, which allows remote access to this device from any web-browser. The multi-purpose EN4, EP4, EN12, and EN12-45 EtherDMX Gateways essentially package Art-Net and sACN conversion, Merger, DMX patch-bay, and a DMX scene recorder into one device.

## KEY FEATURES

- sACN and Art-Net to DMX conversion
- Factory defined NETRON presets
- 10 User Presets
- 99 Cues with Fade Time, Hold Time and Cue linking
- External contact closures to trigger cues and preset recall (EN12 only)
- DMX Monitor
- DMX and Ethernet Test Generator

## SOFTWARE AND OPERATION

This document provides safety information and mechanical installation instructions.

For setup and operation of all software features, please update the devices to the latest release. Download and study the full user guides from <http://obsidiancontrol.com/netron>.

The NETRON Ether-DMX devices offer a comprehensive and easy to use feature set, and are continuously improving. It is advised to periodically check for updates on the Obsidian product pages.

# CONNECTIONS

## DMX CONNECTIONS (EN12)

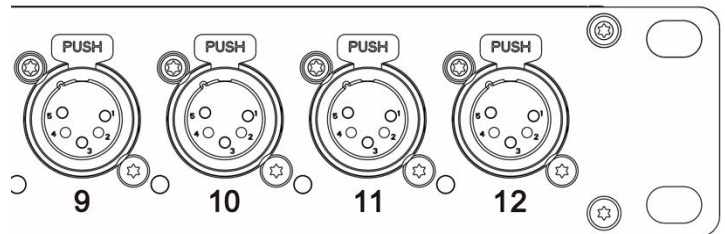
All DMX Output connections are 5pin female XLR; however, the pin – out on all sockets is pin 1 to shield, pin 2 to cold ( – ), and pin 3 to hot (+). Pins 4 and 5 are not used.

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.

Certain functions may require adapters (purchased separately), such as a 5 pole XLR male to 5 pole XLR male.

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



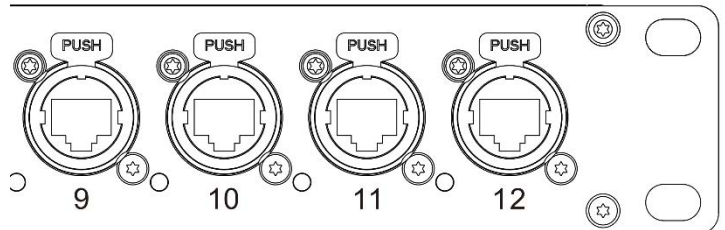
## DMX CONNECTIONS (EN12-45)

All DMX Output connections are RJ45; Pin1: DATA+, Pin2: DATA -, Pin7+8; Ground (ESTA Compliant)

Carefully connect RJ45 cables to the respective ports.

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

| L      | Connection    |
|--------|---------------|
| 1      | Data +        |
| 2      | Data -        |
| 3      | Not connected |
| 4      | Not connected |
| 5      | Not connected |
| 6      | Not connected |
| 7      | Com           |
| 8      | Com           |
| Shield | Earth         |



## ETHERNET DATA CONNECTION

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.

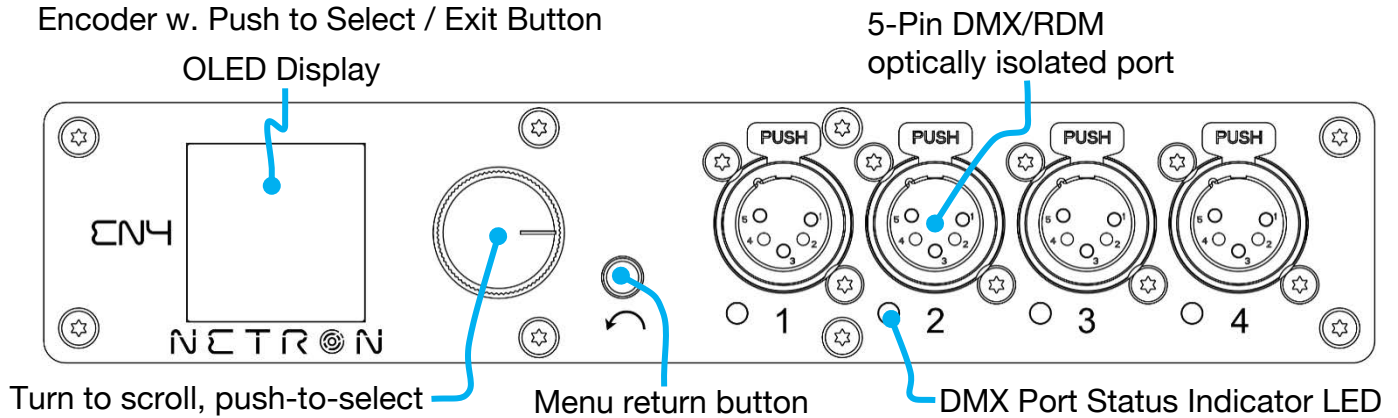
To connect multiple devices to an EtherDMX Source, an Ethernet switch is required to split the data into the desired number of streams.

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.

# CONNECTIONS: EN4 (FRONT & REAR PANELS)

## FRONT CONNECTIONS

- (4) 5pin DMX/RDM optically isolated ports
- Ports are bidirectional for DMX In and Output
- Full color OLED display
- Encoder w. Push to Select / Exit Button



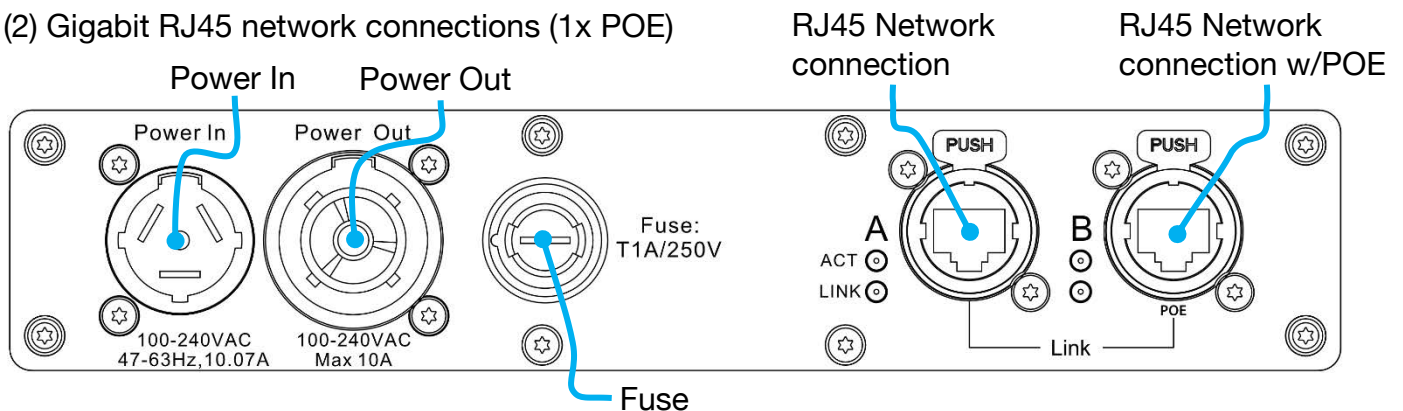
## DMX PORTS STATUS INDICATOR LEDs

| LED Color              | Solid          | Blink    | Flashing/Strobing    |
|------------------------|----------------|----------|----------------------|
| <b>DMX PORTS RED</b>   | Error          |          |                      |
| <b>DMX PORTS GREEN</b> | DMX In         | DMX Lost |                      |
| <b>DMX PORTS BLUE</b>  | DMX Out Stable | DMX Lost |                      |
| <b>DMX PORTS WHITE</b> |                |          | Flash on RDM packets |

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

## REAR CONNECTIONS

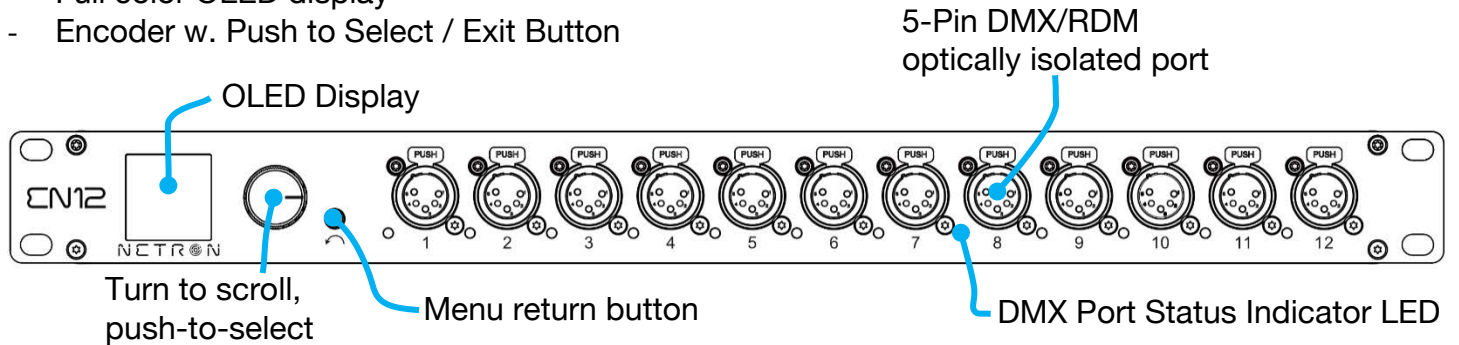
- Power In/Thru
- (2) Gigabit RJ45 network connections (1x POE)



# CONNECTIONS: EN12 (FRONT & REAR PANELS)

## FRONT CONNECTIONS

- (12) 5pin DMX/RDM optically isolated ports
- Ports are bidirectional for DMX In and Output
- Full color OLED display
- Encoder w. Push to Select / Exit Button



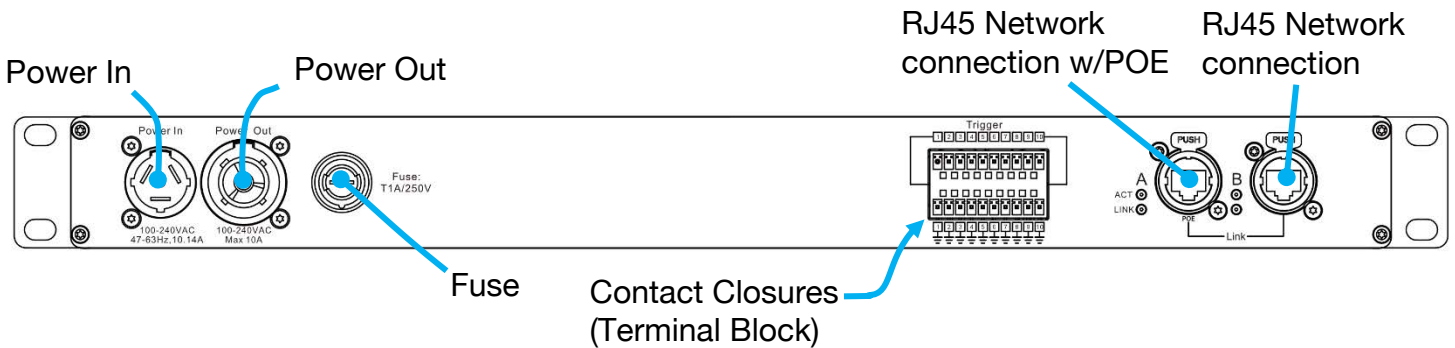
## DMX PORTS STATUS INDICATOR LEDs

| LED Color              | Solid   | Blink    | Flashing/Strobing    |
|------------------------|---------|----------|----------------------|
| <b>DMX PORTS RED</b>   | Error   |          |                      |
| <b>DMX PORTS GREEN</b> | DMX In  | DMX Lost |                      |
| <b>DMX PORTS BLUE</b>  | DMX Out | DMX Lost |                      |
| <b>DMX PORTS WHITE</b> |         |          | Flash on RDM packets |

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

## REAR CONNECTIONS

- (2) Gigabit RJ45 network connections (1x POE)
- (10) Contact Closures (Terminal Block)

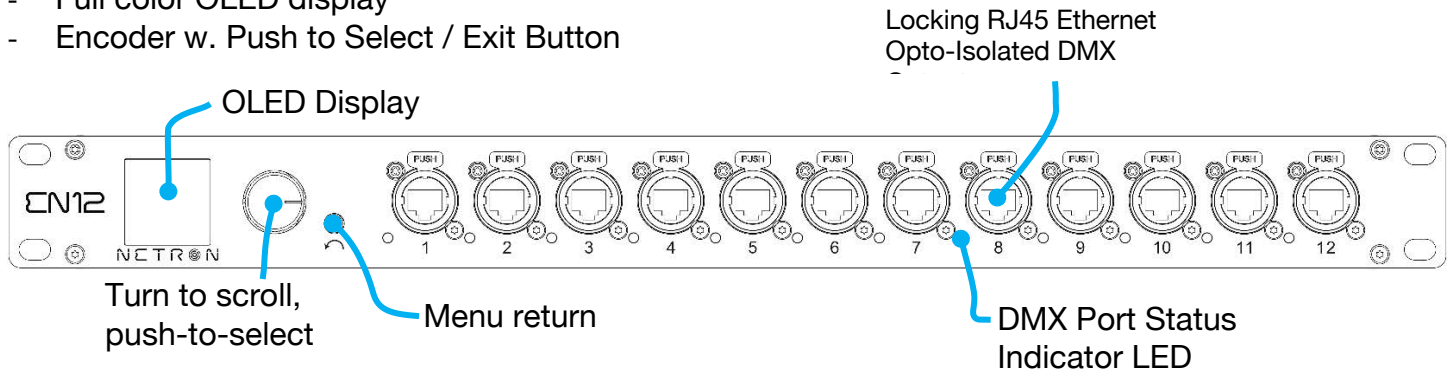




# CONNECTIONS: FRONT & REAR PANELS EN12-45

## FRONT CONNECTIONS

- (12) RJ45 DMX/RDM optically isolated ports
- Ports are bidirectional for DMX In and Output
- Full color OLED display
- Encoder w. Push to Select / Exit Button



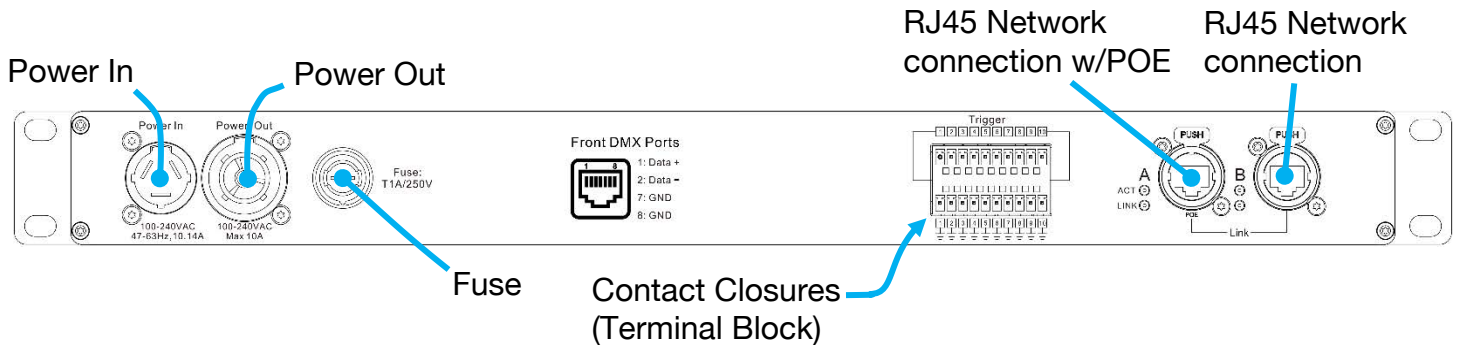
## RJ45 PORTS STATUS INDICATOR LEDs

| LED Color              | Solid          | Blink           | Flashing/Strobing           |
|------------------------|----------------|-----------------|-----------------------------|
| <b>DMX PORTS RGB</b>   | <b>Error</b>   |                 |                             |
| <b>DMX PORTS RGB</b>   | <b>DMX In</b>  | <b>DMX Lost</b> |                             |
| <b>DMX PORTS RGB</b>   | <b>DMX Out</b> | <b>DMX Lost</b> |                             |
| <b>DMX PORTS WHITE</b> |                |                 | <b>Flash on RDM packets</b> |

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

## REAR CONNECTIONS

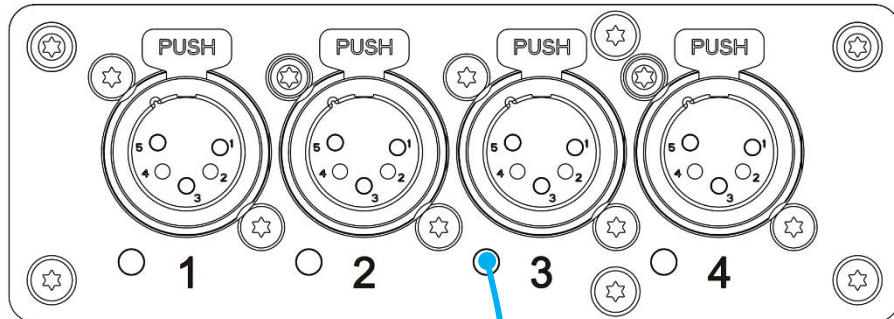
- (2) RJ45 network connections (1x POE)
- (10) Contact Closures (Terminal Block)



# CONNECTIONS: EP4 (FRONT & REAR PANELS)

## FRONT CONNECTIONS

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



DMX Port Status Indicator LED

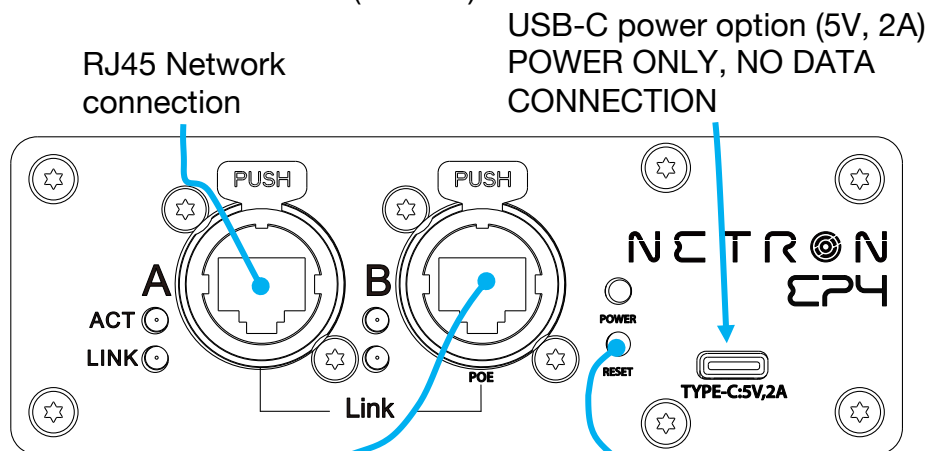
## DMX PORTS STATUS INDICATOR LEDs

| Ports | LED Color    | Solid          | Blink    | Flashing/Strobing    |
|-------|--------------|----------------|----------|----------------------|
| DMX   | <b>RED</b>   | Error          |          |                      |
| DMX   | <b>GREEN</b> | DMX In         | DMX Lost |                      |
| DMX   | <b>BLUE</b>  | DMX Out Stable | DMX Lost |                      |
| DMX   | <b>WHITE</b> |                |          | Flash on RDM packets |

The LEDs are dimmable from the System – Display menu and can be turned off completely if desired.

## REAR CONNECTIONS

- USB-C power option (5V, 2A). **POWER ONLY, NO DATA CONNECTION**
- (2) Gigabit RJ45 network connections (1x POE)

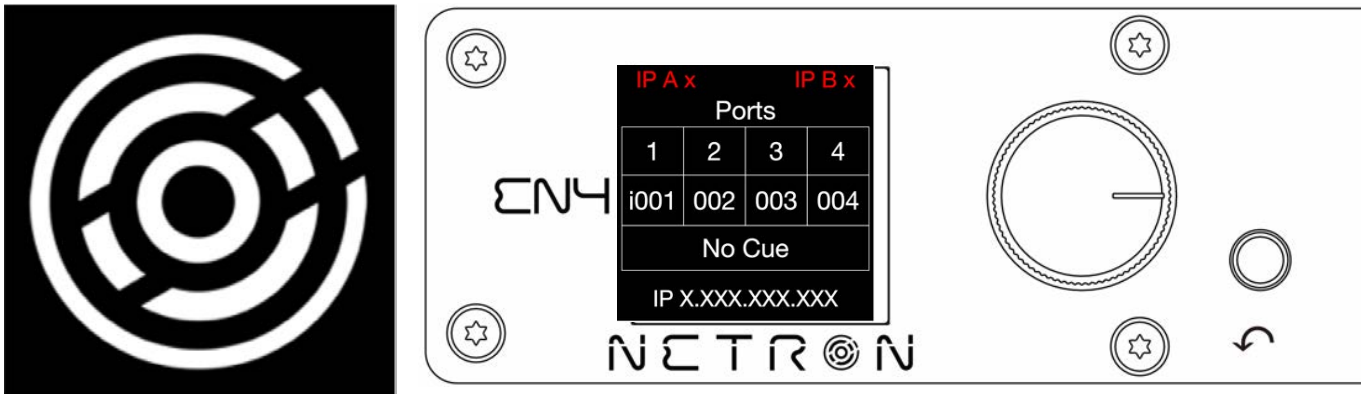


RJ45 Network connection w/POE

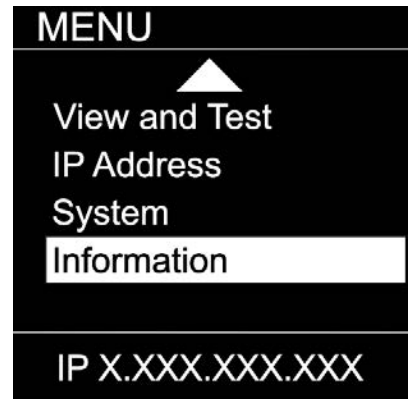
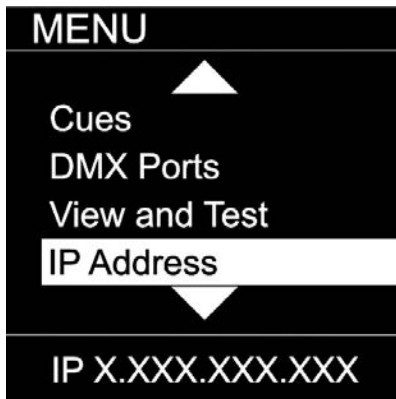
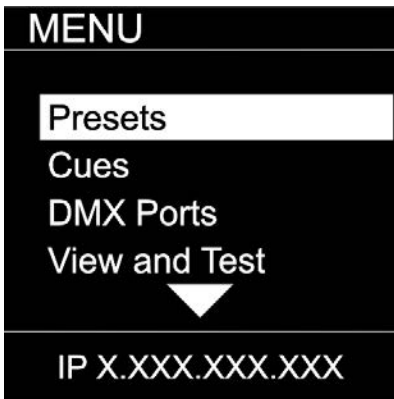
Reset Button: Push the pin carefully with paperclip until unit resets (Approx. 5s)

# MENU: NAVIGATION

The Netron devices use a small OLED display for feedback and setup. The encoder dials up and down through the menu, a push of the encoder selects an item or saves an entry. Revert to a previous menu or cancel an entry with a single push of the back arrow.



|                    |  |
|--------------------|--|
| <b>Wheel Right</b> | Scroll down in menu list / increase values   |
| <b>Wheel Left</b>  | Scroll up in menu list / decrease values   |
| <b>Wheel Push</b>  | Enter Menu, Select menu item, go down one level in menu, confirm values.                           |
| <b>Back Arrow</b>  | Go up one level in menu tree, cancel change of values, hold for 2 seconds to return to home screen |



As you scroll up or down the menu, the arrows indicate that more items are available above or below that which is displayed, and only show when needed.

# MENU: HOME SCREEN

This is the default screen providing quick status feedback and indicates IP and DMX traffic.

**IP A / B:** White text with a check mark indicates if a network port is connected. Red indicated the port is not connected.

This Device Label is configured by user, with the **Node 15** shown strictly as an example of a user defined label: the numbers shown correlate with their assigned Universe below in the Universe Box, which itself is colored following the LED feedback.

**IP Address:** shows the current IP address of the device. Use this address inside a web browser for remote access.

**Universe Box:**  
 Green = DMX In  
 Blue = DMX Out  
 White = RDM Traffic  
 Red = Error  
 i005 = DMX Input Universe 5  
 Purple v201 = sent value 201

**Universe Box:**  
 Red Outline = Signal Lost

IP A x IP B x

Node 15

|      |     |     |     |
|------|-----|-----|-----|
| 1    | 2   | 3   | 4   |
| i001 | 002 | 003 | 004 |

No Cue

IP X.XXX.XXX.XXX

IP A ✓ IP B ✓

Node 15

|      |     |   |      |
|------|-----|---|------|
| 1    | 2   | 3 | 4    |
| i005 | 005 | X | v201 |

No Cue

IP X.XXX.XXX.XXX

IP A ✓ IP B ✓

Node 15

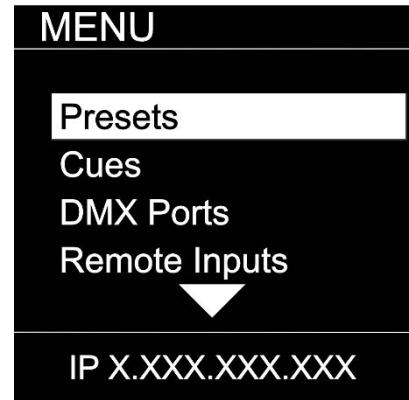
|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   |
| 001 | 002 | 003 | 004 |

No Cue

IP X.XXX.XXX.XXX

# MENU: PRESETS

Several simple presets are preprogrammed into the device for fast setup. Some presets require additional input like a start Universe.



| SUB MENU  | OPTION / VALUES     |                    | DESCRIPTION        |  |
|---|---------------------|--------------------|--------------------|--|
| <b>MENU</b><br><b>NETRON Presets</b><br><b>USER PRESETS</b><br><br>IP X.XXX.XXX.XXX     | 1 :ArtNet 2.x       | Universe 1 – 32767 | See NETRON Presets |  |
|   | 2 :ArtNet 10.x      | Universe 1 – 32767 |                    |  |
|   | 3 :ArtNet 192.x     | Universe 1 – 32767 |                    |  |
|   | 4. ArtNet 172.x     | Universe 1 – 32767 |                    |  |
|   | 5. ArtNet DHCP      | Universe 1 – 32767 |                    |  |
|   | 6. ArtNet In        | Universe 1 – 32767 |                    |  |
|   | 7. :ArtNet In/Thru  | Universe 1 – 32767 |                    |  |
|   | 8. sCAN 2.x         | Universe 1 – 32767 |                    |  |
|   | 9. sCAN 10.x        | Universe 1 – 32767 |                    |  |
|   | 10. sACN 192.x      | Universe 1 – 32767 |                    |  |
|   | 11. :sACN 172.x     | Universe 1 – 32767 |                    |  |
|   | 12. sACN DHCP       | Universe 1 – 32767 |                    |  |
|   | 13. sACN DHCP In    | Universe 1 – 32767 |                    |  |
|   | 14. :Splitter Port1 |                    |                    |  |
| <b>MENU</b><br><br><b>NETRON Presets</b><br><b>USER PRESETS</b><br><br>IP X.XXX.XXX.XXX |                     | Save Preset        | Preset Saved       |  |
|   |                     | Load Preset        | Preset Loaded      |  |
|   | 1 :MyPreset 1       |                    |                    |  |
|   | ...                 |                    |                    |  |
|   | 10 :MyPreset 10     | Rename Preset      | 12 Character Label |  |

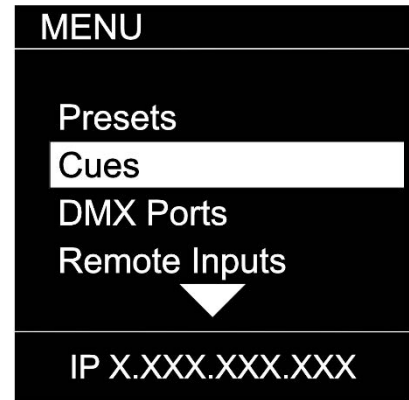
# MENU: NETRON PRESETS

These simple presets are preprogrammed into the device for fast setup. Some presets require additional input like a start Universe. Note that DMX Ports 1-12 apply to model EN12, and that greyed DMX Ports 1-4 apply to EN4/EP4 models.

| Label            | Ethernet        |           |        | Protocol   | Option        | DMX Ports |         |         |         |         |         |         |         |         |         |         |     |
|------------------|-----------------|-----------|--------|------------|---------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                  | IP Address      | Subnet    |        |            |               | 1         | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12  |
| Artnet 2.x       | Automatic 2.x   | 255.0.0.0 | Artnet | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | Yes           | Yes       | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes |
| Artnet 10.x      | Automatic 10.x  | 255.0.0.0 | Artnet | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | Yes           | Yes       | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes |
| Artnet 192.x     | Automatic 192.x | 255.0.0.0 | Artnet | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | Yes           | Yes       | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes |
| Artnet 172.x     | Automatic 172.x | 255.0.0.0 | Artnet | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | Yes           | Yes       | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes |
| Artnet DHCP      | DHCP            | DHCP      | Artnet | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | Yes           | Yes       | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes |
| Artnet In        | Automatic 2.x   | 255.0.0.0 | Artnet | Universe # | Input         | Input     | Input   | Input   | Input   | Input   | Input   | Input   | Input   | Input   | Input   |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        |            |               |           |         |         |         |         |         |         |         |         |         |         |     |
| Artnet In / Thru | Automatic 2.x   | 255.0.0.0 | Artnet | Universe # | Input         | Input     | Input   | Input   | Input   | Input   | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | Clone 1 | Clone 2 | Clone 3 | Clone 4 | Clone 5 | Clone 6 |     |
|                  |                 |           |        |            |               |           |         |         |         |         |         |         |         |         |         |         |     |
| sACN 2.x         | Automatic 2.x   | 255.0.0.0 | sACN   | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | not supported |           |         |         |         |         |         |         |         |         |         |         |     |
| sACN 10.x        | Automatic 10.x  | 255.0.0.0 | sACN   | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | not supported |           |         |         |         |         |         |         |         |         |         |         |     |
| sACN 192.x       | Automatic 192.x | 255.0.0.0 | sACN   | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | not supported |           |         |         |         |         |         |         |         |         |         |         |     |
| sACN 172.x       | Automatic 172.x | 255.0.0.0 | sACN   | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | not supported |           |         |         |         |         |         |         |         |         |         |         |     |
| sACN DHCP        | DHCP            | DHCP      | sACN   | Universe # | Output        | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        | RDM        | not supported |           |         |         |         |         |         |         |         |         |         |         |     |
| sACN DHCP In     | DHCP            | DHCP      | sACN   | Universe # | Input         | Input     | Input   | Input   | Input   | Input   | Input   | Input   | Input   | Input   | Input   |         |     |
|                  |                 |           |        | X          | X             | X+1       | X+2     | X+3     | X+4     | X+5     | X+6     | X+7     | X+9     | X+10    | X+11    | X+12    |     |
|                  |                 |           |        |            |               |           |         |         |         |         |         |         |         |         |         |         |     |
| Splitter Port 1  | Automatic 2.x   | 255.0.0.0 | Artnet |            | Input         | Output    | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  | Output  |         |     |
|                  |                 |           |        | X          | X             | Clone 1   | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 |     |
|                  |                 |           |        |            |               |           |         |         |         |         |         |         |         |         |         |         |     |

# MENU: CUES

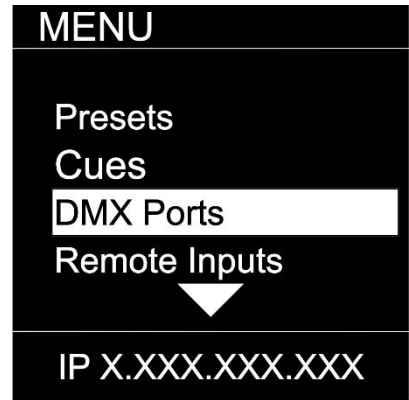
A cue is a full static snapshot of all DMX values of all ports. The device supports 99 cues with fade and hold times, plus a link option to loop multiple cues together. This allows small “mini” cuelists to be created. Cues are used for standalone operation, as a backup for signal loss or can be assigned to one of the switch inputs. This is often used for fire alarm situations where a system has to go to a defined state and stop all console playback. Cues can be sent as Ethernet Universes so one device can drive many other Netron nodes.



| SUB MENU   |  | OPTIONS / VALUES |   | DESCRIPTION   |
|--|--|------------------|---|---|
| MENU   | Run Cue  | 1 – 99           | Go/Off  | Select the desired cue  |
|  | Run Cue<br>Save Cues<br>Rename Cue<br>Link Cues<br>▼ | Save Cue         | 1:Cue 1<br>...<br>99:Cue 99<br>Save Cue? Yes/No | Save all values on all ports to a cue slot                                  |
| IP X.XXX.XXX.XXX   | Rename Cue   | 1 – 99           | 12 Character Label                              | Edit name of cue  |
| MENU<br>▲<br>Save Cues<br>Rename Cue<br>Link Cues<br>Resend Ethernet<br>IP X.XXX.XXX.XXX | Link Cues  | 1 – 99           | Fade Time 0s – 99.59min                         | Set the fade time of the cue  |
|  |  |                  | Hold Time 0s – 99.59min                         | Set the time to hold the cue until the next cue is started                  |
|  |  | Link to Cue      | Disable, 1 – 99                                 | Set the next Cue  |
| Resend Ethernet  | Resend Ethernet                                      | Enable           | Disable   | Cue data is not sent over Ethernet  |
|  |  |                  | Enable  | Cue data is sent on the Universe number and protocol assigned to the ports. |

# MENU: DMX PORTS

Select a port number to adjust its settings. Depending on the Mode, certain options are not relevant and hidden from the display or web interface.

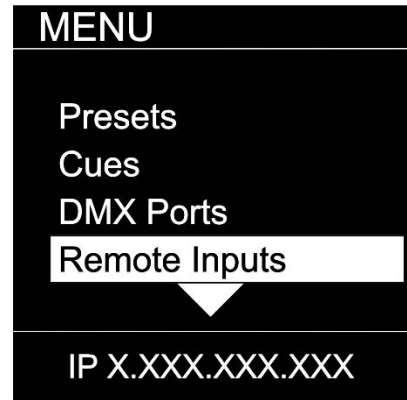


| SUB MENU                             | OPTIONS / VALUES |                                      | DESCRIPTION   |  |   |
|--------------------------------------|------------------|--------------------------------------|---|--|---|
|                                      | Mode             | Disable                              | The port is disabled.   |  |   |
|                                      |                  | Input                                | The port receives DMX values and assigns them to the selected Universe. |  |   |
|                                      |                  | <b>Output</b>                        | The port sends out DMX Values on the selected Universe                  |  |   |
|                                      |                  | Send Value                           | 0 – 255   | Send a static DMX value  |   |
|                                      | Universe         | 1 – 32767                            |   | Select the EtherDMX Universe   |   |
| <b>MENU</b>                          | Protocol         | Art-Net, sACN, None                  |   | Select the EtherDMX protocol per port  |   |
| Port 1<br>Port 2<br>Port 3<br>Port 4 | FrameRate        | 10, 15, 20, 25, 30, <b>35</b> , 40   |   | Select the desired frame rate.   |   |
|                                      | RDM              | Disable, <b>Enable</b>               |   | Disable / Enable RDM traffic for this port   |   |
|                                      | Merge            |                                      | <b>OFF</b>  |  | The merger is disabled  |
|                                      |                  |                                      | HTP   |  | The sources are merged by Highest Takes Precedence            |
|                                      |                  | LTP                                  |   | The sources are merged by Last Takes Precedence  |   |
|                                      |                  | Toggle                               |   | The complete source Universe is switched as soon as a single value changes   |   |
| IP X.XXX.XXX.XXX                     |                  | Backup                               |   | The merge universe is activated if the main universe has no valid traffic  |   |
|                                      | Clone            | <b>None</b> , Port 2, Port 3, Port 4 |   | Replicates the identical DMX data from another port  |   |
|                                      | Range            | From:                                | 1 – 512   |  | To limit the DMX range, set the first address of the DMX port |
| To:                                  |                  | 1 – 512                              |   | To limit the DMX range, set the last address of the DMX port   |   |
|                                      | Offset Addr      | Off, 2 - 511                         |   | Offset start address, incoming channel X value is sent on this port as channel X+Offset, Channels are cut off if they exceed 512 |   |



# MENU: REMOTE INPUT

The device supports ten remote assignments that can trigger specific actions like recalling a cue or preset. These events are recalled using local contact closures, DMX In, or a specific EtherDMX Universe / Address.



| SUB MENU  | OPTIONS / VALUES |                                    | DESCRIPTION  |   |
|---|------------------|------------------------------------|--|---|
| MENU<br>Input 1<br>Input 2<br>Input 3<br>Input 4<br>▼<br>IP X.XXX.XXX.XXX | Cue              | 1 – 99                             | Recall a specific cue number   |   |
|   | Cue Mode         | Trigger                            | The cue is activated, and all times and links are processed even if the contact is opened again  |   |
|   |                  | Toggle                             | The cue is activated, and all times and links are processed only if the contact is closed. Once toggle is opened, device will assume DMX traffic or No DMX status. This allows to alternate between two cues for example with the toggle switch. |   |
| MENU<br>Input 1<br>Input 2<br>Input 3<br>Input 4<br>▼<br>IP X.XXX.XXX.XXX | Netron Preset    | a,b,c,...                          | Recalls this Netron preset when the contact is closed  |   |
|   | User Preset      | 1 – 10                             | Recalls this user preset when contact is closed  |   |
| MENU<br>Input 1<br>Input 2<br>Input 3<br>Input 4<br>▼<br>IP X.XXX.XXX.XXX | Disable DMX      |                                    | Stops all DMX output for as long as contact is closed  |   |
|   | Send Value       | 0 – 255                            | Sends specific DMX value on all ports for as long as contact is closed   |   |
|   | Source           | disabled                           |  | Input is disabled                       |
|   |                  | DMX Port                           | 1 – xx   | Use DMX Port. Port must be set as Input |
|   |                  | Art-Net                            |  | Art-Net Trigger                         |
|   |                  | sACN                               |  | sACN Trigger                            |
|   |                  | Universe                           |  | Set Universe for remote trigger         |
| Address   |                  | Set DMX Address for remote trigger |  |   |

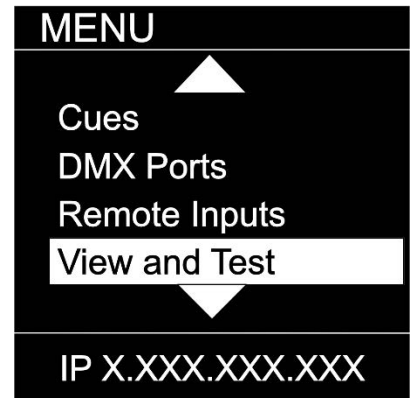
## DMX Map for Remote Trigger

Inputs can be remotely activated over DMX, Art-Net, or sACN. The input is activated if the DMX value is at the value shown below.

| Value     | Action   |
|-----------|----------|
| 0 – 10    | Idle     |
| 11 – 20   | Input 1  |
| 21 – 30   | Input 2  |
| 31 – 40   | Input 3  |
| 41 – 50   | Input 4  |
| 51 – 60   | Input 5  |
| 61 – 70   | Input 6  |
| 71 – 80   | Input 7  |
| 81 – 90   | Input 8  |
| 91 – 100  | Input 9  |
| 101 – 110 | Input 10 |
| 111 – 255 | Idle     |

# MENU: VIEW AND TEST

This Neutron device provides a variety of tools right from the front display to monitor and test the system. Colors indicate changing values.



| SUB MENU   |                | OPTIONS / VALUE   |   | Description                            |
|--|----------------|---|---|--|
| <b>MENU</b><br><br>DMX View<br>Art-Net View<br>sACN View<br>DMX Port Test<br><br>IP X.XXX.XXX.XXX  | DMX View       | View  | Port 1 – 4  | View the DMX values of a specific port |
|  |                | Range   | From: 1 – 512   | default 1                              |
|  |                |   | To: 1 – 512   | default 512                            |
|  | Start Monitor  |   | Start Monitoring Values. Use Encoder to dial to the desired DMX address. Push Encoder to change display readout style (Grid, List, Address) |  |
|  | Art-Net View   | Universe  | 1 – 32767   | View a specific Art-Net Universe       |
|  |                | Range   | From: 1 – 512   | default 1                              |
|  |                |   | To: 1 – 512   | default 512                            |
|  | Start Monitor  |   | Start Monitoring Values. Use Encoder to dial to the desired DMX address. Push Encoder to change display readout style (Grid, List, Address) |  |
|  | sACN View      | Universe  | 1 – 32767   | View a specific sACN Universe          |
| Range  |                | From: 1 – 512   | default 1   |  |
|  |                | To: 1 – 512   | default 512   |  |
| Start Monitor  |                | Start Monitoring Values. Use Encoder to dial to the desired DMX address. Push Encoder to change display readout style (Grid, List, Address) |   |  |
| <b>MENU</b><br><br>sACN View<br>DMX Port Test<br>Art-Net Test<br>sACN Test<br><br>IP X.XXX.XXX.XXX | DMX Port Test  | Output  | Port 1 – 4  | Send generator values on specific port |
|  |                |   | All Ports   | Send generator values on all ports     |
|  |                | Range   | From: 1 – 512   | default 1                              |
|  |                | To: 1 – 512   | default 512   |  |
|  | Speed          | 1 – 10, Manual  | Select the speed of generator   |  |
|  | Art-Net Test   | Universe  | 1 – 32767   | Select Art-Net Universe                |
|  |                | Range   | From: 1 – 512   | default 1                              |
|  |                |   | To: 1 – 512   | default 512                            |
|  | Speed          | 1 – 10, Manual  | Select the speed of generator   |  |
| sACN Test  | Universe       | 1 – 32767   | Select sACN Universe  |  |
|  | Range          | From: 1 – 512   | default 1   |  |
|  |                | To: 1 – 512   | default 512   |  |
| Speed  | 1 – 10, Manual | Select the speed of generator   |   |  |

# MENU: VIEW AND TEST (continued)

## Monitor (DMX View, Art-Net View, sACN View)

The monitoring options are helpful to find faults, or simply watch incoming traffic. Three styles are available by clicking the encoder wheel. Dial the wheel to change the display to the desired address, and exit the monitor with the back button.

### DMX Test Display – Grid

The color coding helps to quickly identify changing DMX values.

- Cyan: DMX Address
- Green: Value Decreased
- Red: Value Increased
- White: Value stable (after 10 seconds)

| DMX View Address 1-20 |     |     |     |     |    |
|-----------------------|-----|-----|-----|-----|----|
| 1                     | 0   | 0   | 0   | 56  | 12 |
| 6                     | 1   | 255 | 255 | 128 | 60 |
| 11                    | 123 | 231 | 5   | 55  | 88 |
| 16                    | 12  | 67  | 255 | 255 | 98 |
| IP X.XXX.XXX.XXX      |     |     |     |     |    |

| DMX View Address 8-28 |     |     |     |     |    |
|-----------------------|-----|-----|-----|-----|----|
| 8                     | 0   | 0   | 0   | 56  | 12 |
| 13                    | 1   | 255 | 255 | 128 | 60 |
| 18                    | 123 | 231 | 5   | 55  | 88 |
| 24                    | 12  | 67  | 255 | 255 | 98 |
| IP X.XXX.XXX.XXX      |     |     |     |     |    |

| DMX View Address 8-28 |     |     |     |     |    |
|-----------------------|-----|-----|-----|-----|----|
| 501                   | 0   | 0   | 0   | 56  | 12 |
| 506                   | 1   | 255 | 255 | 128 | 60 |
| 511                   | 123 | 0   |     |     |    |
| IP X.XXX.XXX.XXX      |     |     |     |     |    |

### DMX Test Display – Line

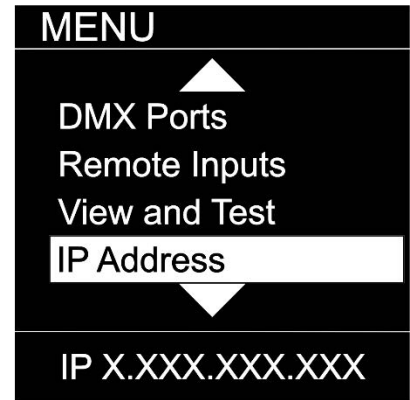
| DMX View Address 1-5 |     |     |     |
|----------------------|-----|-----|-----|
|                      |     | Min | Max |
| 1                    | 0   | 0   | 12  |
| 2                    | 1   | 0   | 60  |
| 3                    | 121 | 5   | 123 |
| 4                    | 12  | 98  | 255 |
| 5                    | 88  | 8   | 88  |
| IP X.XXX.XXX.XXX     |     |     |     |

### DMX Test Display – Address

| DMX View         |       |
|------------------|-------|
| Address          | Value |
| 1                | 127   |
|                  | 50%   |
| Min              | 0     |
| Max              | 255   |
| IP X.XXX.XXX.XXX |       |

# MENU: IP ADDRESS

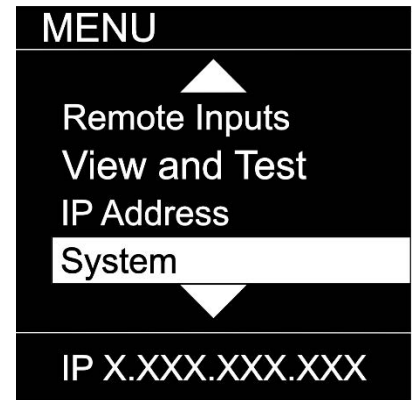
Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For Art-Net systems, it should never be necessary to adjust this IP. Any custom address and subnet can be assigned so the node can operate within any network environment. EP4 devices default to 2.0.0.1 as they contain no display. Configure each EP4 to a unique IP using the web remote access.



| SUB MENU  |                  | OPTIONS / VALUES |         | Description   |
|---|------------------|------------------|---------|---|
| <b>MENU</b><br><br><b>DHCP IP</b><br><b>Automatic 2.X</b><br><b>Automatic 10.x</b><br><b>Custom IP</b><br><br><b>IP X.XXX.XXX.XXX</b> | DHCP IP          |                  |         | The device waits for a DHCP server address<br>After 30s it assigns itself a unique 169.254.x.x address but continues to monitor DHCP server requests. |
|   | Automatic 2.x    |                  |         | The device is set to a unique 2.x.x.x Address, Subnet 255.0.0.0   |
|   | Automatic 10.x.x |                  |         | The device is set to a unique 10.x.x.x Address, Subnet 255.0.0.0  |
|   | Custom IP        | IP Address       | x.x.x.x | Assign any desired numbers. The device does not check the validity of address and subnet values.  |
|   |                  | Subnet Mask      | x.x.x.x |   |
|   | Automatic 192.x  |                  |         | The device is set to a unique 192.x.x.x Address, Subnet 255.0.0.0   |
|   | Automatic 172.x  |                  |         | The device is set to a unique 172.x.x.x Address, Subnet 255.0.0.0   |

# MENU: SYSTEM

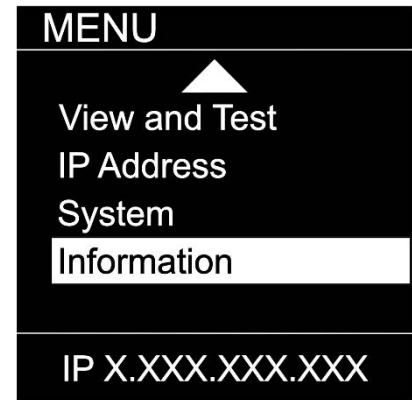
This menu contains all the settings to configure and manage the device.



| SUB MENU  |                          | OPTIONS / VALUES                        |   |  | Description   |  |
|---|--------------------------|---|---|--|---|--|
|   | Device Name              | 12 Character Label                      |   |  | Set a device name   |  |
|   | Device ID                | 0 – 999                                 |   |  | Set an optional device ID   |  |
| <b>MENU</b><br>Device Name<br>Device ID<br>Display<br>ArtNet Start<br>IP X.XXX.XXX.XXX    | Display                  | Display Timeout                         | Disable<br>10s, 30s, 1m, 5m, 10m                    |  | Display stays on indefinitely<br>Display goes dark after this time  |  |
|   |                          | Screen Brightness                       | 1-10  |  | Adjust the brightness of the internal display   |  |
|   |                          | LED Brightness                          | 0-10  |  | Adjust the brightness of the front LEDs. Set to 0 to disable them.  |  |
|   |                          | Home Screen                             | Device Info   |  |   | The display shows port and connectivity information  |
|   |                          |   | Cue Browser   |  |   | The display shows a list of stored cues which can easily be browsed and started by the encoder wheel |
| ArtNet Start  | Universe 0<br>Universe 1 |   |   | Universe 1 is sent to Art-Net 0-0<br>Universe 1 is sent to Art-Net 0-1 |   |  |
| <b>MENU</b><br>Lock Device<br>Startup<br>Signal Loss<br>Backup Config<br>IP X.XXX.XXX.XXX | Lock Device              | PIN: 000 (011)                          | Lock  | Disable  | The device does not require a pin   |  |
|   |                          |   | Timeout   |  | The device asks for a pin after the display times out   |  |
|   |                          | Manual Lock: 000 (011)                  | Lock / Unlock                                       | Lock the device immediately  |   |  |
| Startup   | Cue                      |   |   |  | Run a specific Cue at startup   |  |
|   | Wait for Data            |   |   |  | No DMX is sent until valid data is received for the ports. The last incoming values continue to be sent on the ports until the time is expired. Once timeout has completed the device will perform one of the below actions |  |
|   | Send 0                   |   |   |  |   |  |
| Signal Loss   | Hold Last Look           | Forever, 0s, 10s, 30s, 1m, 5m, 10m, 60m |   |  | The last incoming values continue to be sent on the ports until the time is expired. Once timeout has completed the device will perform one of the below actions.   |  |
|   | Fade to 0                | 0-60s (30s)                             |   |  | Crossfade to DMX 0. Set to 0s for instant out.  |  |
|   | Cue                      | No Cue                                  |   |  | Start Cue X   |  |
|   | Disable DMX              |   |   |  | DMX traffic is turned off on all ports  |  |
| Backup Config   | Save Config              | Config Saved                            |   |  | Save current configuration including all cue data   |  |
|   | Load Config              | Config Loaded                           |   |  | Reload configuration. Backups can be exported and imported from the web interface   |  |
| RDM Processing  | All Disable              |   |   |  | Disables RDM processing on the device   |  |
|   | All Enable               |   |   |  | Enables all RDM processing on the device  |  |
| Factory Reset   | Pin: 000 (011)           | Confirm                                 | Device will be reset to factory defaults.<br>Yes/No |  | Reset the device to factory default. It will reload NETRON Preset 1. All cues are deleted, and all settings are set to default.   |  |
|   | Pin: 000 (007)           | Confirm                                 | Device will be reset to User Preset 1.<br>Yes/No    |  | Reset the device to User Preset 1.  |  |

# MENU: INFORMATION

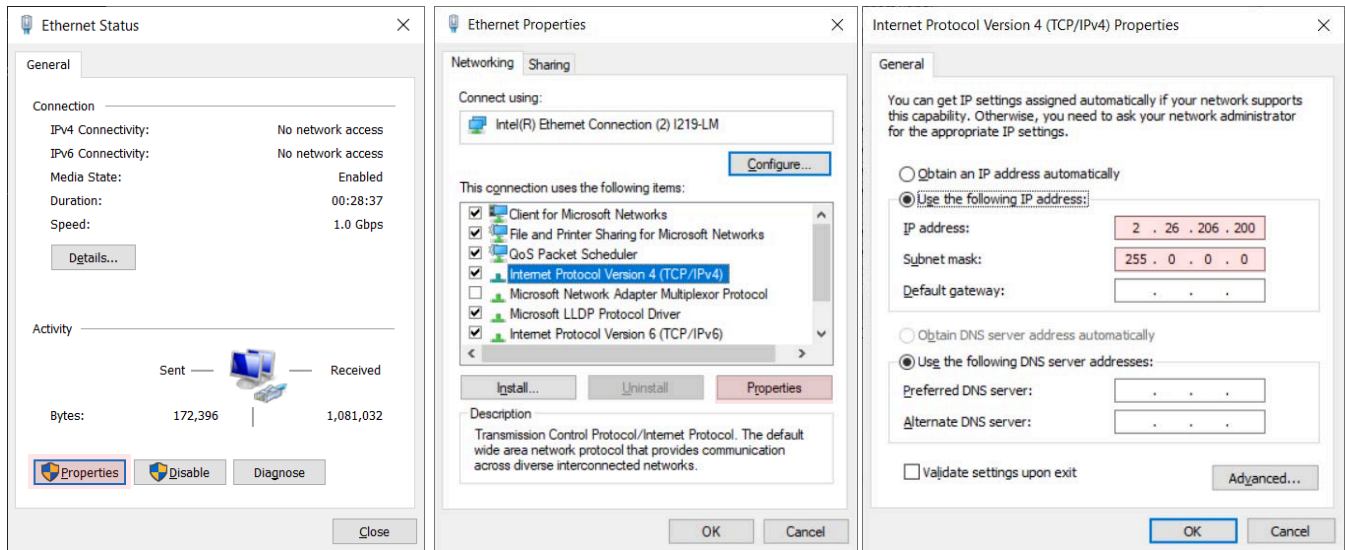
This menu provides information about the device.



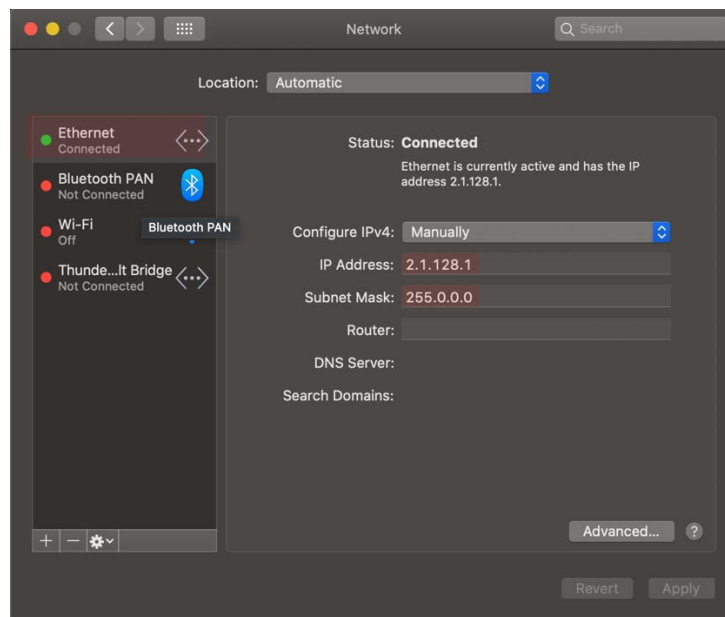
| SUB MENU  |                  | OPTIONS / VALUES           | DESCRIPTION                                |
|---|------------------|----------------------------|--|
|   | Software Version | Boot SW V#<br>Firmware: V# | Display the current software version       |
| <b>MENU</b>   |                  |                            |  |
| Software Version<br>Product On Time<br>MAC Address<br>RDM UID | Product On Time  | Time: XXXXX(H)             | Total time the device has been powered on. |
| IP X.XXX.XXX.XXX  | MAC Address      | x:x:x:x:x:x                | Displays MAC address                       |
|   | RDM UID          | UID1: xxxx                 | Displays product RDM UID.                  |

# WEB REMOTE CONFIGURATION

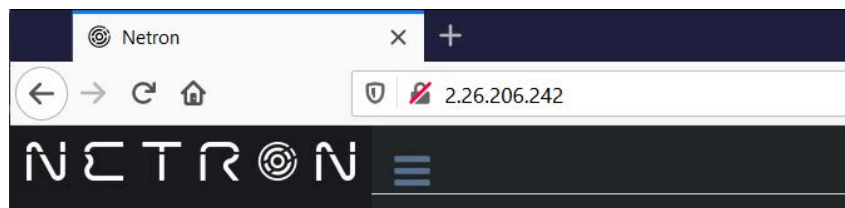
Ensure the device and a computer are do not share IP address, but are in the same IP address range and connected.



**PC Configuration Sample:** Please note your PC configuration results may vary.



**MAC OS Configuration Sample:** Please note your MAC OS configuration results may vary.



**Browser Sample:** Enter the device IP address into a web browser to access the device page.

# WEB REMOTE MENU: HOMEPAGE

Please note that Netron devices are not compatible with Microsoft Internet Explorer. Also, the antivirus software AVAST is known to block important communication with NETRON, and must be disabled for the web interface and firmware updates to function.

The screenshot shows a web browser with two tabs: 'NETRON EN4' (IP: 2.188.56.6) and 'NETRON EN12' (IP: 2.85.24.68). The main interface displays the 'Status' page for a device. The left sidebar contains navigation options: Presets, DMX Ports, Cues, IP Settings, Inputs, and System. The main content area shows the 'Info' and 'DMX Ports' sections for the selected device.

**Device Info (NETRON EN4):**

|             |                 |
|-------------|-----------------|
| Device Type | NETRON EN4      |
| Device Name | NETRON EN4      |
| IP Address  | 002.188.056.006 |
| Net Mask    | 255.000.000.000 |

**DMX Ports (NETRON EN4):**

| Port# | Mode   | Protocol | Universe | Frame Rate | RDM    | Merge |
|-------|--------|----------|----------|------------|--------|-------|
| 1     | Output | Artnet   | 1        | 35Hz       | Enable | OFF   |
| 2     | Output | Artnet   | 2        | 35Hz       | Enable | OFF   |
| 3     | Output |          |          |            |        |       |
| 4     | Output |          |          |            |        |       |

**Device Info (NETRON EN12):**

|             |                 |
|-------------|-----------------|
| Device Type | NETRON EN12     |
| Device Name | NETRON EN12     |
| IP Address  | 002.085.024.068 |
| Net Mask    | 255.000.000.000 |

**DMX Ports (NETRON EN12):**

| Port# | Mode   | Protocol | Universe | Frame Rate | RDM    | Merge |
|-------|--------|----------|----------|------------|--------|-------|
| 1     | Output | Artnet   | 1        | 35Hz       | Enable | OFF   |
| 2     | Output | Artnet   | 2        | 35Hz       | Enable | OFF   |
| 3     | Output | Artnet   | 3        | 35Hz       | Enable | OFF   |
| 4     | Output | Artnet   | 4        | 35Hz       | Enable | OFF   |
| 5     | Output | Artnet   | 5        | 35Hz       | Enable | OFF   |
| 6     | Output | Artnet   | 6        | 35Hz       | Enable | OFF   |
| 7     | Output | Artnet   | 7        | 35Hz       | Enable | OFF   |
| 8     | Output | Artnet   | 8        | 35Hz       | Enable | OFF   |
| 9     | Output | Artnet   | 9        | 35Hz       | Enable | OFF   |
| 10    | Output | Artnet   | 10       | 35Hz       | Enable | OFF   |
| 11    | Output | Artnet   | 11       | 35Hz       | Enable | OFF   |
| 12    | Output | Artnet   | 12       | 35Hz       | Enable | OFF   |

**Identify Button:**

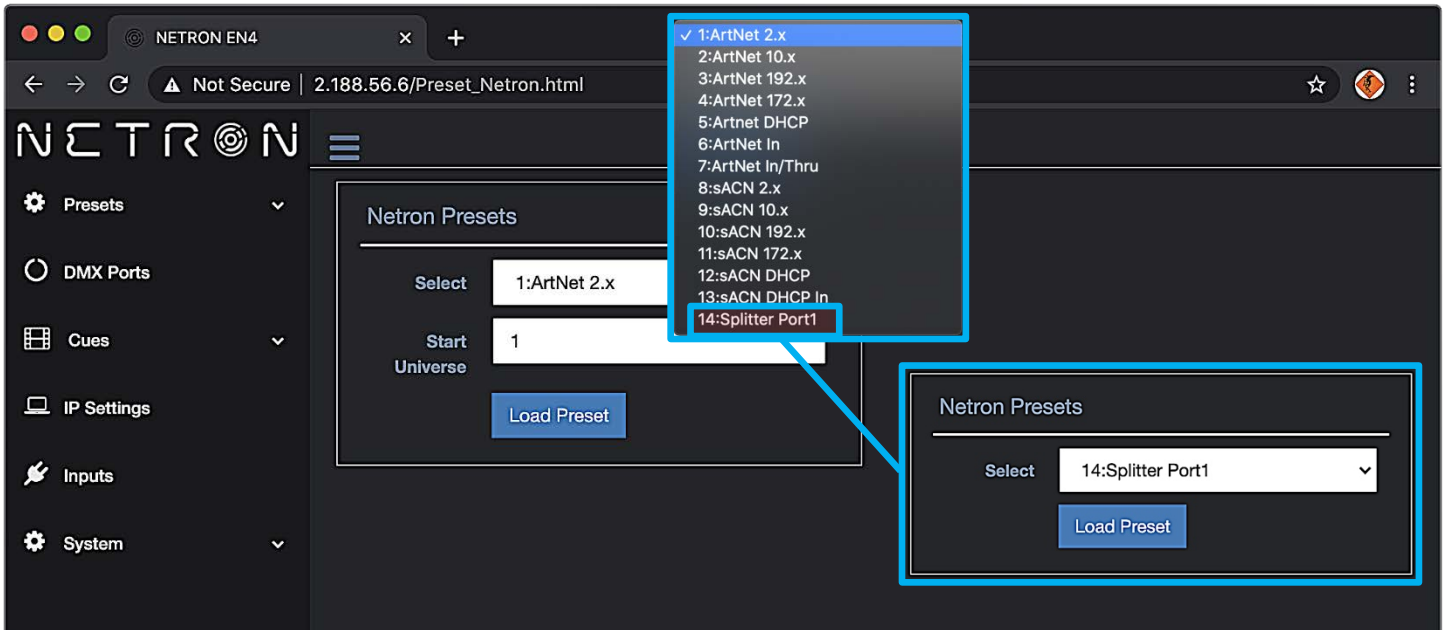
IP:002.188.056.006  
Name:NETRON EN4  
Identify

IP:002.188.056.006  
Name:NETRON EN4  
Identify

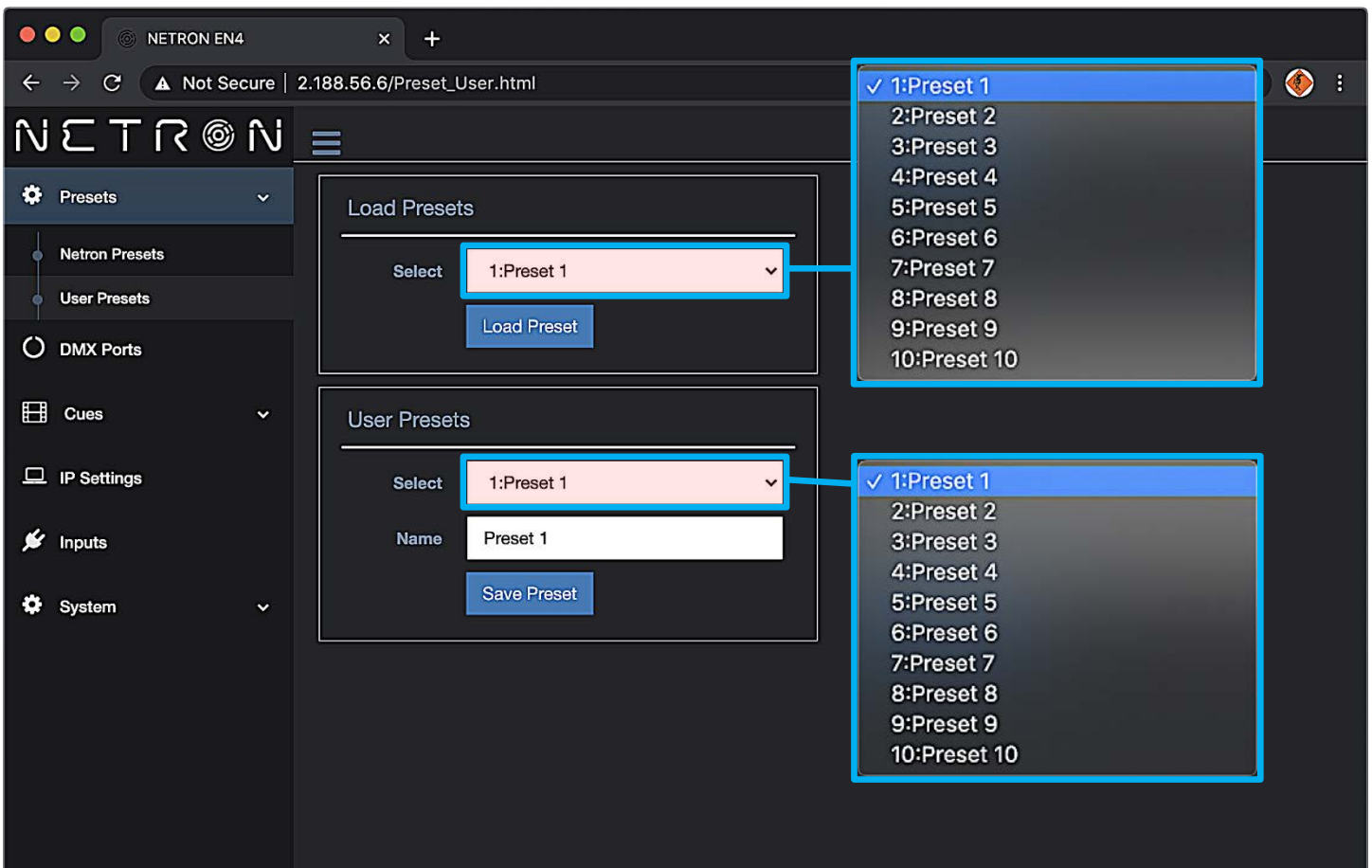
Identify Button:  
Identify sets device into blinking Red/White LEDs and a blinking display to find Netron devices.



# WEB REMOTE MENU: PRESETS – NETRON PRESETS



# WEB REMOTE MENU: PRESETS – USER PRESETS



# WEB REMOTE MENU: DMX PORTS – OUTPUT

**NETRON EN4**  
Not Secure | 2.188.56.6/DMX\_Ports.html

**DMX Port Configuration**

1 2 3 4

Mode: Output

Universe: 1

Protocol: ArtNet

Framerate: 35 Hz

RDM:

Merge: OFF

Resend Protocol: ArtNet

DMX Range From: 1

DMX Range To: 512

Offset Address: 1

Clone Port: None

Save

Callout 1: Disable, Input, **Output**, Send Value

Callout 2: **ArtNet**, sACN, None

Callout 3: 10 Hz, 15 Hz, 20 Hz, 25 Hz, 30 Hz, **35 Hz**, 40 Hz

Callout 4: **OFF**, HTP, LTP, Toggle, Backup

Callout 5: **ArtNet**, sACN, None

Callout 6: **None**, Port 2, Port 3, Port 4

Merge: HTP

Merge Universe: 5

Resend Protocol: ArtNet

Resend Merge Universe: 9

DMX Range From: 1

DMX Range To: 512

Offset Address: 1

Clone Port: None

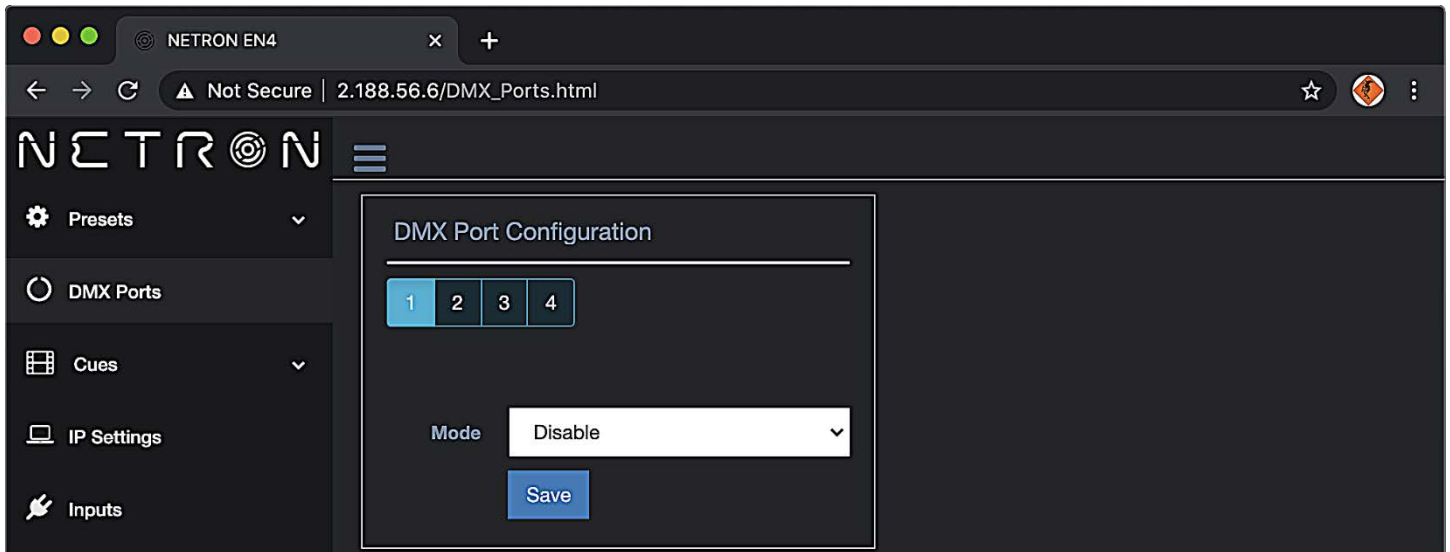
Save

Callout 1: **OFF**, HTP, LTP, Toggle, Backup

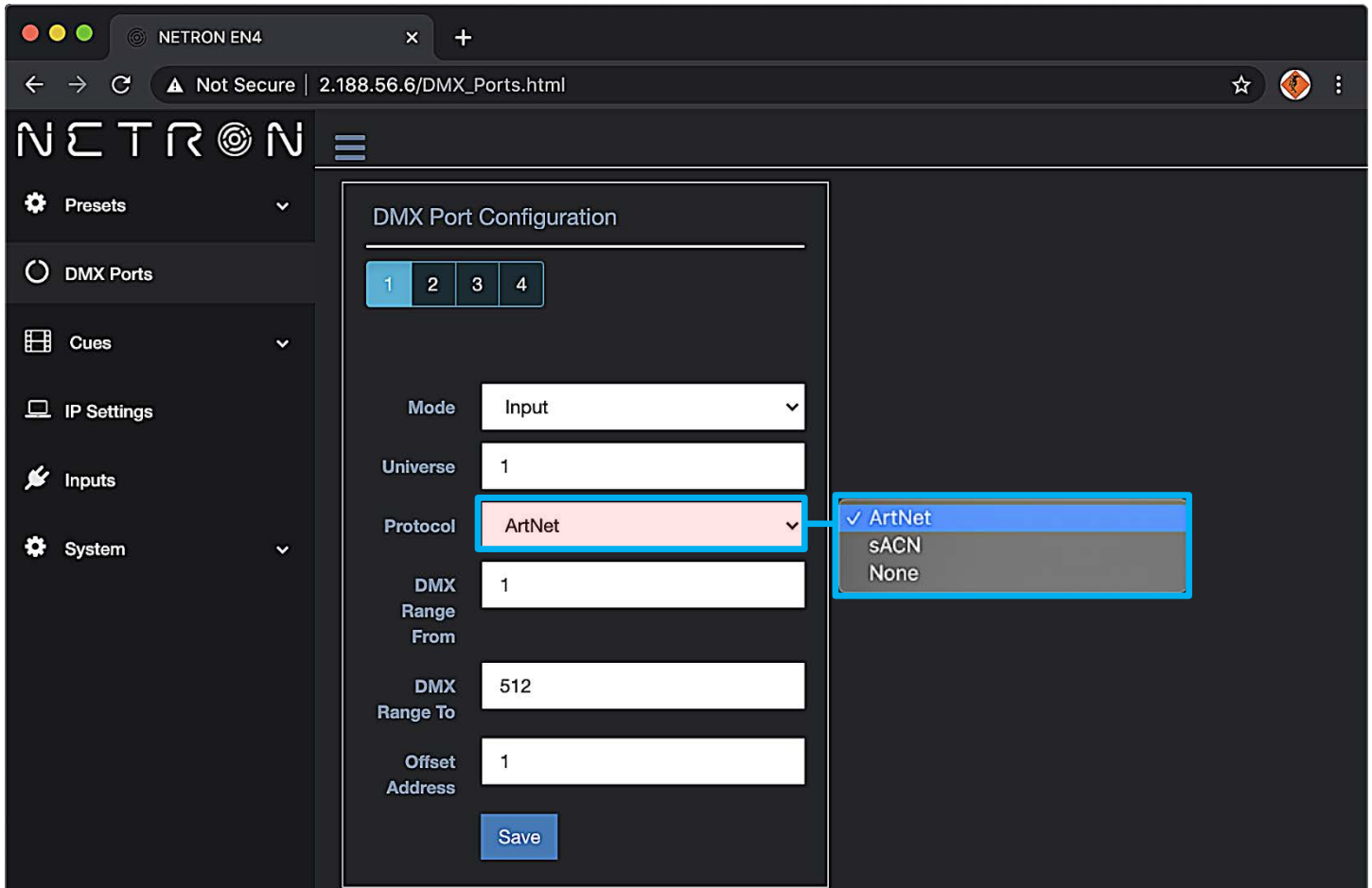
Callout 2: **ArtNet**, sACN, None

Callout 3: **None**, Port 2, Port 3, Port 4

# WEB REMOTE MENU: DMX PORTS – DISABLE



# WEB REMOTE MENU: DMX PORTS – INPUT



# WEB REMOTE MENU: DMX PORTS – SEND VALUE

The screenshot displays the NETRON EN4 web interface for configuring DMX ports. The browser address bar shows the URL `2.188.56.6/DMX_Ports.html`. The left sidebar contains navigation options: Presets, DMX Ports, Cues, IP Settings, Inputs, and System. The main content area is titled "DMX Port Configuration" and features a tabbed interface with tabs for ports 1, 2, 3, and 4. Port 1 is currently selected.

Configuration details for Port 1:

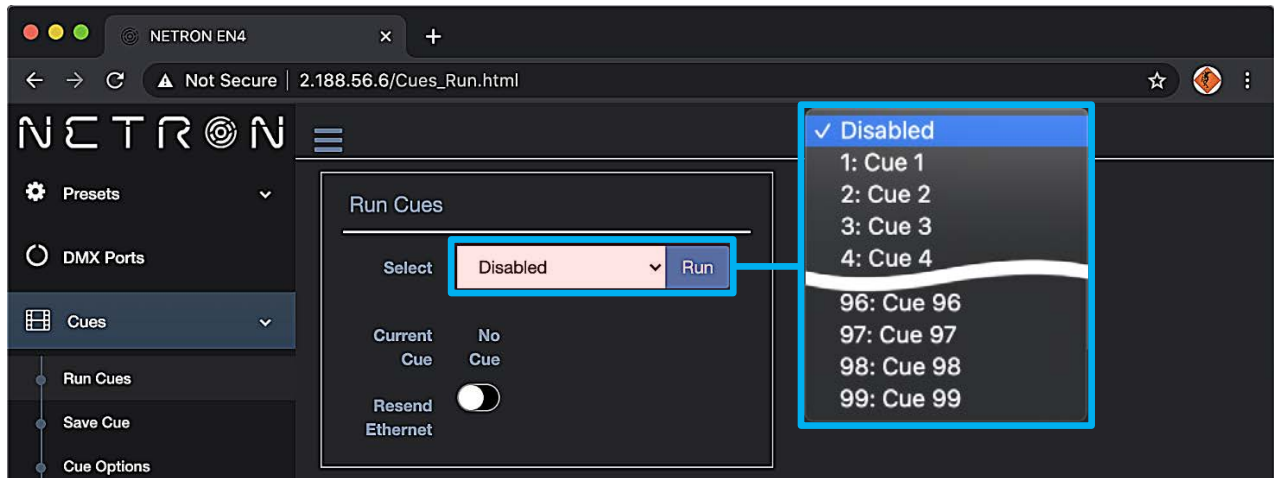
- Mode: Send Value
- Send Value: 0
- Framerate: 35 Hz
- DMX Range From: 1
- DMX Range To: 512

A dropdown menu for the Framerate is open, showing the following options:

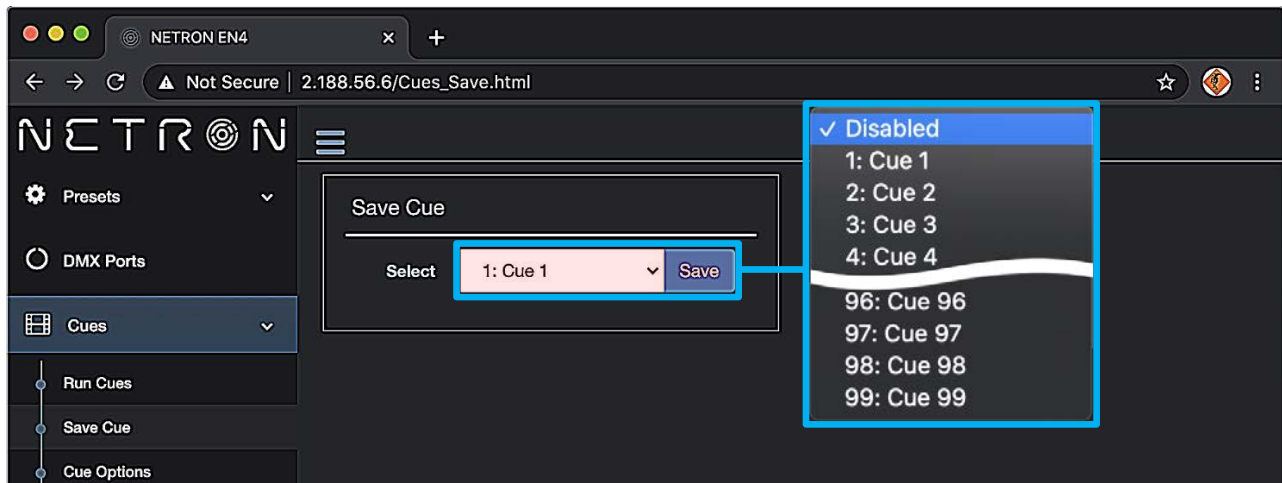
- 10 Hz
- 15 Hz
- 20 Hz
- 25 Hz
- 30 Hz
- ✓ 35 Hz
- 40 Hz

The "Save" button is located at the bottom of the configuration panel. The bottom status bar displays the IP address `IP:002.188.056.006`, the device name `Name:NETRON EN4`, and an "Identify" button with a moon icon.

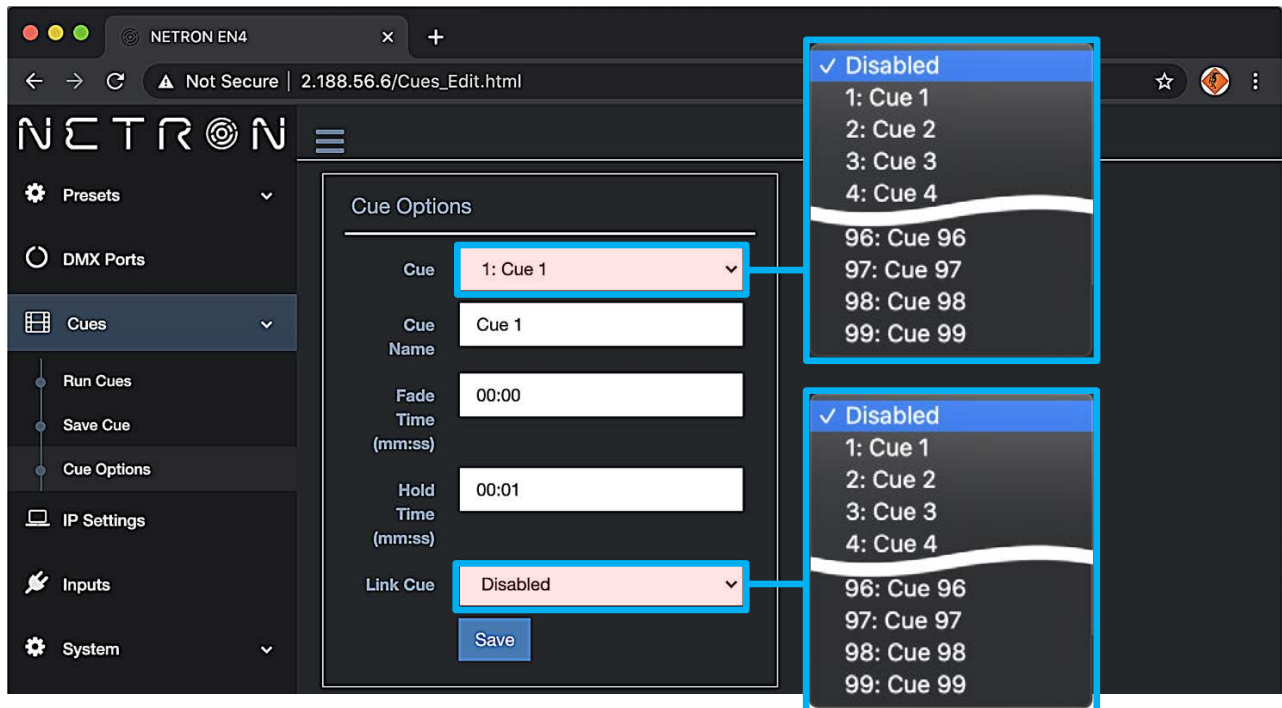
## WEB REMOTE MENU: CUES – RUN CUES



## WEB REMOTE MENU: CUES – SAVE CUES



## WEB REMOTE MENU: CUES – CUE OPTIONS



# WEB REMOTE MENU: IP SETTINGS

The screenshot shows the NETRON EN4 web interface. The browser address bar displays "Not Secure | 2.188.56.6/IP.html". The left sidebar contains a menu with the following items: Presets, DMX Ports, Cues, IP Settings (highlighted), Inputs, and System. The main content area is titled "IP Address" and contains the following fields:

- Address Mode: Automatic 2.x.x.x (highlighted with a red box)
- IP: 002.188.056.006
- Subnet: 255.000.000.000

Below these fields are "Save" and "Cancel" buttons. A dropdown menu is open, showing the following options:

- DHCP IP
- ✓ Automatic 2.x.x.x (highlighted with a blue box)
- Automatic 10.x.x.x
- Custom IP
- Automatic 192.168.x.x
- Automatic 172.168.x.x

At the bottom left of the interface, the following information is displayed:

IP:002.188.056.006  
Name:NETRON EN4  
Identify

# WEB REMOTE MENU: INPUTS – DISABLE DMX

NETRON EN4

Not Secure | 2.188.56.6/Remotelnputs.html

### Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Disable DMX

Trigger Source: Disable

Save

- ✓ Disable DMX
  - Cue
  - Netron Preset
  - User Preset
  - Send Value
- ✓ Disable
  - DMX Port
  - ArtNet
  - sACN

### Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Disable DMX

Trigger Source: DMX Port

DMX Port: Port A

DMX Address: undefined

Save

### Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Disable DMX

Trigger Source: ArtNet

Universe: 1

DMX Address: 1

Save

### Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Disable DMX

Trigger Source: sACN

Universe: 1

DMX Address: 1

Save

# WEB REMOTE MENU: INPUTS – CUE

NETRON EN4

Not Secure | 2.188.56.6/Remotelnputs.html

NETRON

Presets

DMX Ports

Cues

IP Settings

Inputs

System

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Cue

Cue Number: 0:No Cue

Cue Mode: Trigger

Trigger Source: Disable

Save

0:No Cue  
1:Cue 1  
2:Cue 2  
3:Cue 3  
4:Cue 4  
96:Cue 96  
97:Cue 97  
98:Cue 98  
99:Cue 99

Trigger  
Toggle

Disable  
DMX Port  
ArtNet  
sACN

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Cue

Cue Number: 0:No Cue

Cue Mode: Trigger

Trigger Source: Disable

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Cue

Cue Number: 0:No Cue

Cue Mode: Trigger

Trigger Source: DMX Port

DMX Port: Port 1

DMX Address: 1

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Cue

Cue Number: 0:No Cue

Cue Mode: Trigger

Trigger Source: ArtNet

Universe: 1

DMX Address: 1

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Cue

Cue Number: 0:No Cue

Cue Mode: Trigger

Trigger Source: sACN

Universe: 1

DMX Address: 1

Save



# WEB REMOTE MENU: INPUTS – NETRON PRESETS

NETRON EN4

Not Secure | 2.188.56.6/RemoteInputs.html

NETRON

Presets

DMX Ports

Cues

IP Settings

Inputs

System

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Netron Preset

Netron Preset: 1:ArtNet 2.x

Trigger Source: Disable

Save

- 1:ArtNet 2.x
- 2:ArtNet 10.x
- 3:ArtNet 192.x
- 4:ArtNet 172.x
- 5:ArtNet DHCP
- 6:ArtNet In
- 7:ArtNet In/Thru
- 8:sACN 2.x
- 9:sACN 10.x
- 10:sACN 192.x
- 11:sACN 172.x
- 12:sACN DHCP
- 13:sACN DHCP In
- 14:Splitter Port1

- Disable
- DMX Port
- ArtNet
- sACN

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Netron Preset

Netron Preset: 1:ArtNet 2.x

Trigger Source: DMX Port

DMX Port: Port A

DMX Address: undefined

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Netron Preset

Netron Preset: 1:ArtNet 2.x

Trigger Source: ArtNet

Universe: 1

DMX Address: 1

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: Netron Preset

Netron Preset: 1:ArtNet 2.x

Trigger Source: sACN

Universe: 0

DMX Address: 1

Save

# WEB REMOTE MENU: INPUTS – USER PRESETS

NETRON EN4  
Not Secure | 2.188.56.6/Remotelnputs.html

NETRON

Presets  
DMX Ports  
Cues  
IP Settings  
Inputs  
System

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: User Preset

User Preset: 1:Preset 1

Trigger Source: Disable

Save

1:Preset 1  
2:Preset 2  
3:Preset 3  
4:Preset 4  
5:Preset 5  
6:Preset 6  
7:Preset 7  
8:Preset 8  
9:Preset 9  
10:Preset 10

Disable  
DMX Port  
ArtNet  
sACN

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: User Preset

User Preset: 1:Preset 1

Trigger Source: DMX Port

DMX Port: Port A

DMX Address: undefined

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: User Preset

User Preset: 1:Preset 1

Trigger Source: ArtNet

Universe: 1

DMX Address: 1

Save

Inputs Configuration

1 2 3 4 5 6 7 8 9 10

Event Type: User Preset

User Preset: 1:Preset 1

Trigger Source: sACN

Universe: 0

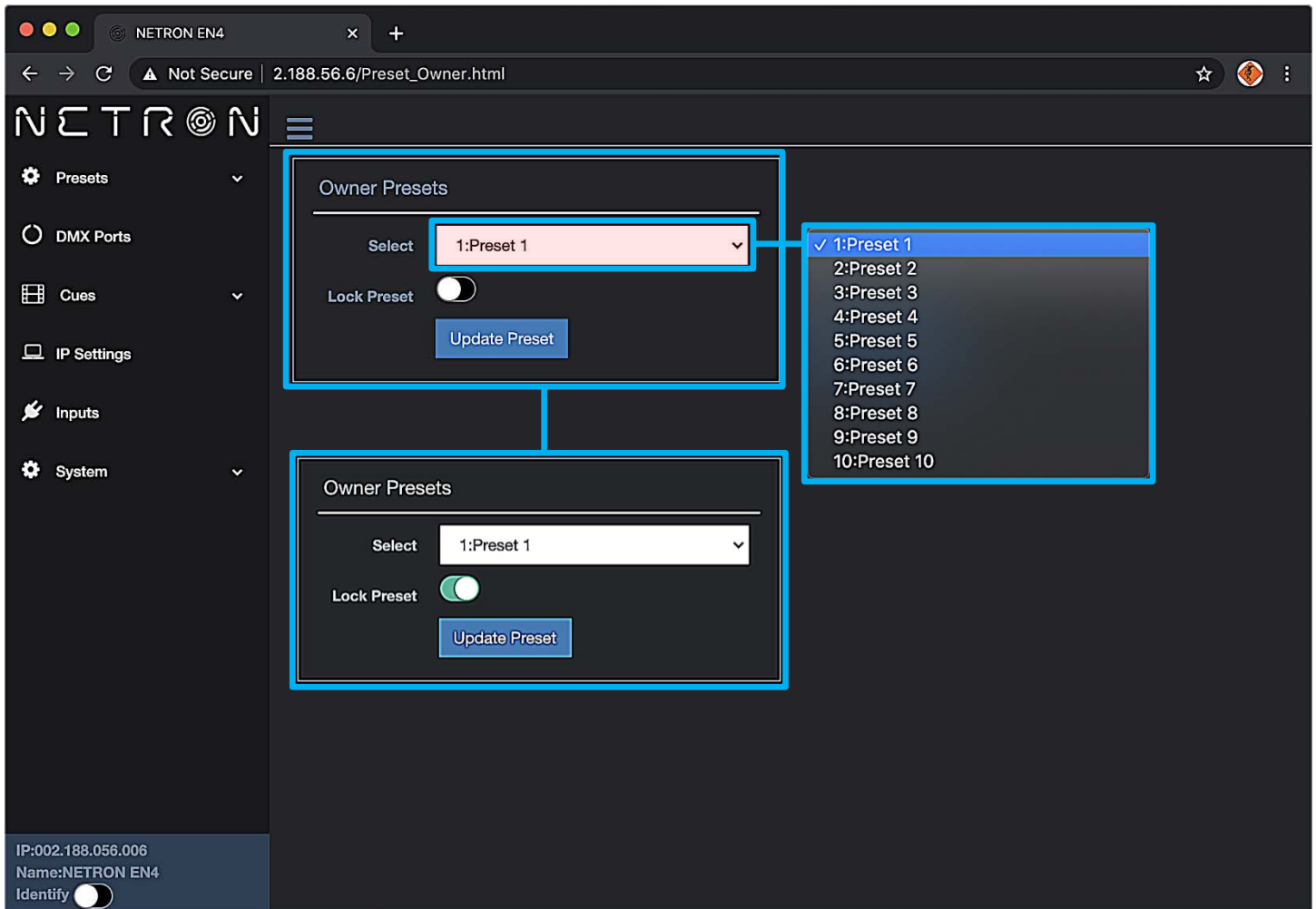
DMX Address: 1

Save

# WEB REMOTE MENU: INPUTS – OWNER PRESET

Device owners can lock any of the user presets so they cannot be overwritten. This is especially useful for rental equipment to ensure a company specific preset can be reloaded and is not edited by any user.

To access this function, use the specific URL IP\_Address/Preset\_Owner.htm, which is not part of the main interface. Select the desired preset, activate the lock, and Update to confirm. Owner presets are indicated with a lock symbol in the display.



# WEB REMOTE MENU: INPUTS – SEND VALUE

The screenshot shows the NETRON EN4 web interface. The browser address bar displays "2.188.56.6/RemotInputs.html". The left sidebar contains navigation options: Presets, DMX Ports, Cues, IP Settings, Inputs, and System. The main content area is titled "Inputs Configuration" and features a row of buttons numbered 1 to 10. Below this, there are three input fields: "Event Type" set to "Send Value", "Send Value" set to "0", and "Trigger Source" set to "Disable". A dropdown menu is open for the "Trigger Source" field, showing options: "Disable" (checked), "DMX Port", "ArtNet", and "sACN". A "Save" button is located below the "Trigger Source" field.

This close-up screenshot shows the "Inputs Configuration" page with the "DMX Port" dropdown menu open. The "Event Type" is "Send Value", "Send Value" is "0", and "Trigger Source" is "DMX Port". The dropdown menu lists "Port A" (checked), "Port B", "undefined", and "undefined". A "Save" button is visible at the bottom.

This close-up screenshot shows the "Inputs Configuration" page with the "ArtNet" dropdown menu open. The "Event Type" is "Send Value", "Send Value" is "0", and "Trigger Source" is "ArtNet". The dropdown menu lists "Universe" (checked) and "DMX Address". The "Universe" field is set to "1" and the "DMX Address" field is set to "1". A "Save" button is visible at the bottom.

This close-up screenshot shows the "Inputs Configuration" page with the "sACN" dropdown menu open. The "Event Type" is "Send Value", "Send Value" is "0", and "Trigger Source" is "sACN". The dropdown menu lists "Universe" (checked) and "DMX Address". The "Universe" field is set to "0" and the "DMX Address" field is set to "1". A "Save" button is visible at the bottom.

# WEB REMOTE MENU: SYSTEM – DEVICE SETTINGS

The screenshot displays the 'NETRON EN4' web remote interface. The main panel is titled 'General' and includes fields for 'Device Name' (NETRON EN4), 'Device ID' (0), and 'Display Timeout' (5 Min). Below these are sliders for 'Display Brightness' (10) and 'LED Brightness' (10). The 'Art-Net Offset' is set to 'Netron Universe 1: 0-0'. The 'Home Screen' is set to 'Device Info'. There are also checkboxes for 'RDM Processing' and 'Use PIN', and a 'PIN Number' field (0). The 'Startup' section has 'Startup Mode' set to 'Wait For Data'. The 'Signal Loss' section has 'Hold Timeout' set to 'Forever', 'Loss Mode' set to 'Disable DMX', and 'Fade Out (s)' set to '30'. Several dropdown menus are open, showing options like 'Cue', 'Forever', '0 Sec', '10 Sec', '30 Sec', '1 Min', '5 Min', '10 Min', '60 Min', 'Netron Universe 1: 0-0', 'Netron Universe 1: 0-1', 'Device Info', 'Cue Browser', 'Forever', '0 Sec', '10 Sec', '30 Sec', '1 Min', '5 Min', '10 Min', '60 Min', '0:No Cue', '1:Cue 1', '2:Cue 2', '3:Cue 3', '4:Cue 4', '96:Cue 96', '97:Cue 97', '98:Cue 98', and '99:Cue 99'. A 'Save' button and a 'Cancel' button are also visible.

Use cursor to click and drag around to desired time.

# WEB REMOTE MENU: SYSTEM – STATUS

The screenshot shows a web browser window with the URL `2.188.56.6/Status.html`. The page title is "NETRON EN4". The main content area is titled "Status" and is divided into three sections: "Device", "IP Address", and "Firmware".

| Device      |                     |
|-------------|---------------------|
| Device Type | NETRON EN4          |
| Device Name | NETRON EN4          |
| Mac Address | 42:4C:93:72:38:06   |
| RDM UID     | 0x22A6-<br>DDA87E09 |
| On Time     | 34h                 |

| IP Address   |                 |
|--------------|-----------------|
| Address Mode | 2.X.X.X         |
| IP Address   | 002.188.056.006 |
| Net Mask     | 255.000.000.000 |

| Firmware         |      |
|------------------|------|
| Bootware Version | V1.4 |
| Firmware Version | V2.4 |
| Web Version      | V2.4 |

At the bottom left of the page, there is a status bar showing the IP address `IP:002.188.056.006`, the name `Name:NETRON EN4`, and an "Identify" button with a circular indicator.

# WEB REMOTE MENU: SYSTEM – MAINTENANCE

The screenshot displays the NETRON EN4 web interface in a browser window. The browser's address bar shows the URL "2.188.56.6/About.html" and indicates it is "Not Secure". The page title is "NETRON EN4".

The main navigation menu on the left includes the following items:

- Presets
- DMX Ports
- Cues
- IP Settings
- Inputs
- System (selected)
- Device Settings
- Status
- Maintenance

The "Maintenance" section is active and contains three sub-sections:

- Special Functions:** Includes buttons for "Reset to Default" and "Reboot Device".
- Load Save Settings:** Includes a "Choose File" button (displaying "No file chosen"), a "Load Settings" button, and a "Save Current Settings" button.
- Firmware Upgrade:** Includes a "Choose File" button (displaying "No file chosen") and a "Start Upgrade" button.

At the bottom left of the interface, the following information is displayed:

- IP: 002.188.056.006
- Name: NETRON EN4
- Identify button with a circular indicator.

# FIRMWARE UPDATES

Updates for improved performance or to add additional features may be available on [www.obsidiancontrol.com](http://www.obsidiancontrol.com).

To install a firmware upgrade, connect to the device through a web browser and open the System – Maintenance menu.

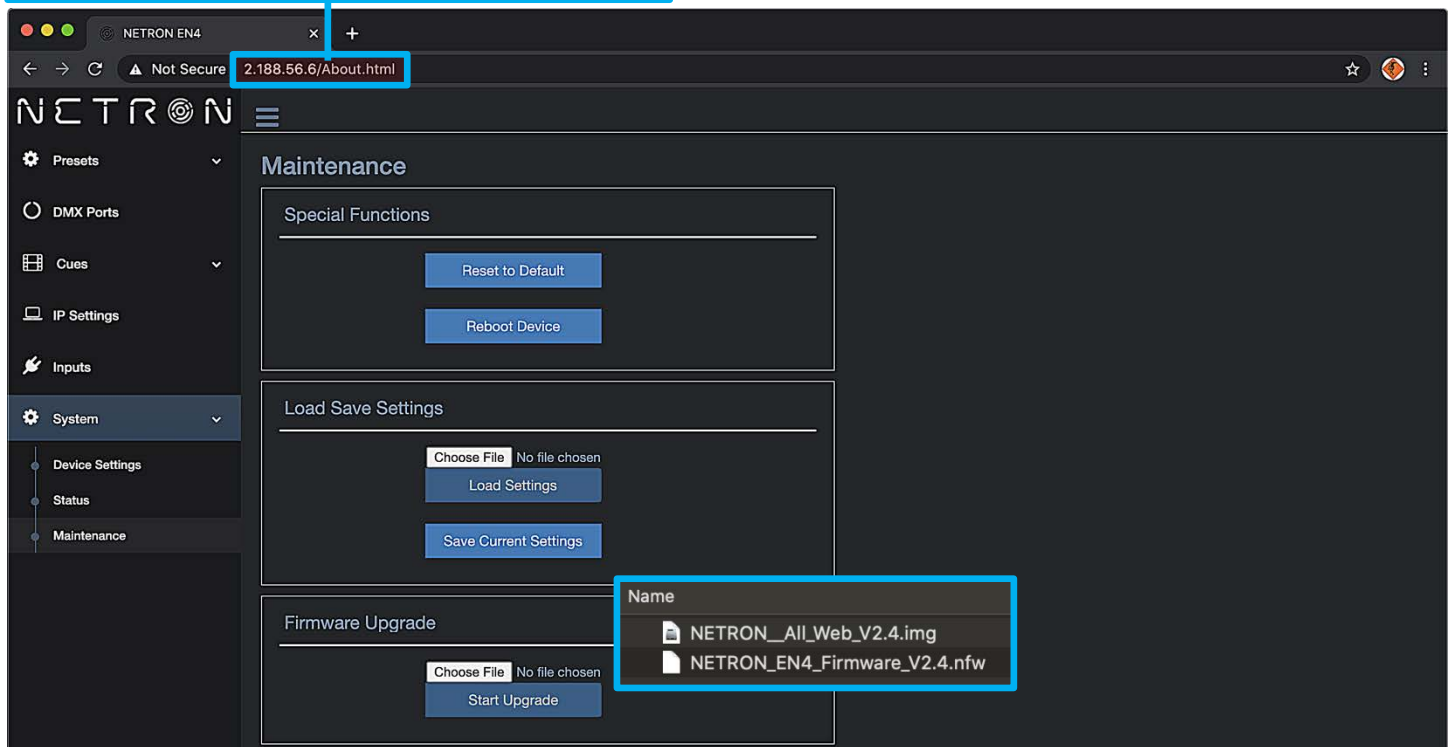
Always back up the configuration first. Export to a file using the web interface.

- Upload the firmware file, then update the device. Do not power cycle during the update process. **The update is provided in two files, Display NFW and Web IMG. Both need to be installed for a full upgrade.**
- Reset to factory defaults.
- Reload the configuration file from the web interface.

Confirm the upgrade is installed from the Information/Software Version Display.

If the system menu is corrupt and or cannot be opened, then the Netron device can be updated from an IP address e.g. 2.26.206.242/update.html.

Each device has a unique Device IP Address; the one shown is only an example.



Each device has a unique Device IP Address; the one shown is only an example.

