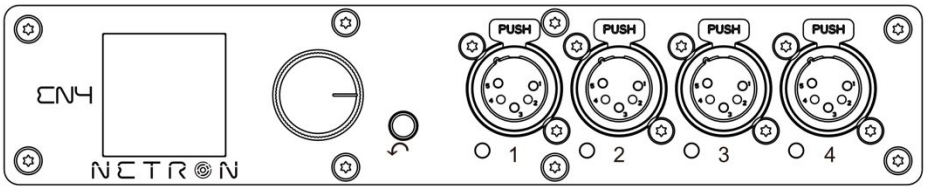
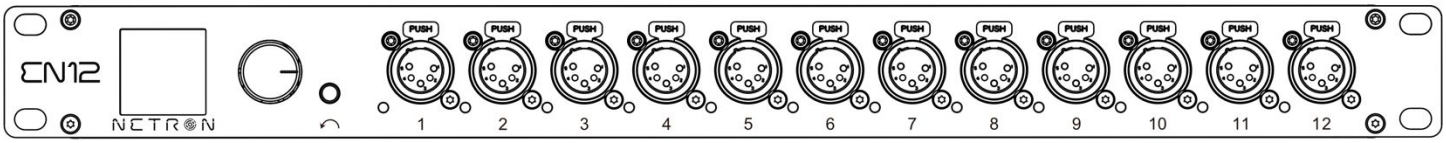
OBSIDIAN™

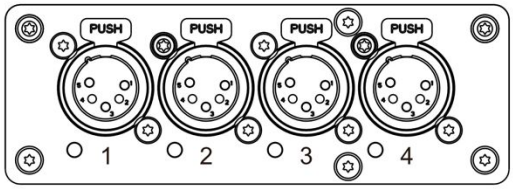
CONTROL SYSTEMS




CN4




CN12




CP4

# NETRON User Guide

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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 |
|---|---|---|
| 12/17/19 | 1.0 | INITIAL RELEASE |

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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 forums.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

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(866) 245 – 6726 | 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, and EN12 EtherDMX Gateways essentially package Artnet and sACN conversion, Merger, DMX patch-bay, and a DMX scene recorder into one device.

## KEY FEATURES

- sACN and Artnet 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

Before the first use, please download the latest software version from the support website at http://obsidiancontrol.com, and periodically check the website for updates.

# CONNECTIONS

## DMX CONNECTIONS

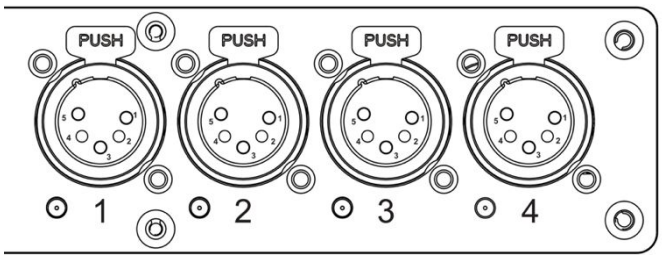
All DMX Output connections are 5pin female XLR; however, the pin – out on all sockets is pin 1 to shield, pin 2 to cold ( – ), and pin 3 to hot (+). Pins 4 and 5 are not used.

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 |




## 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.

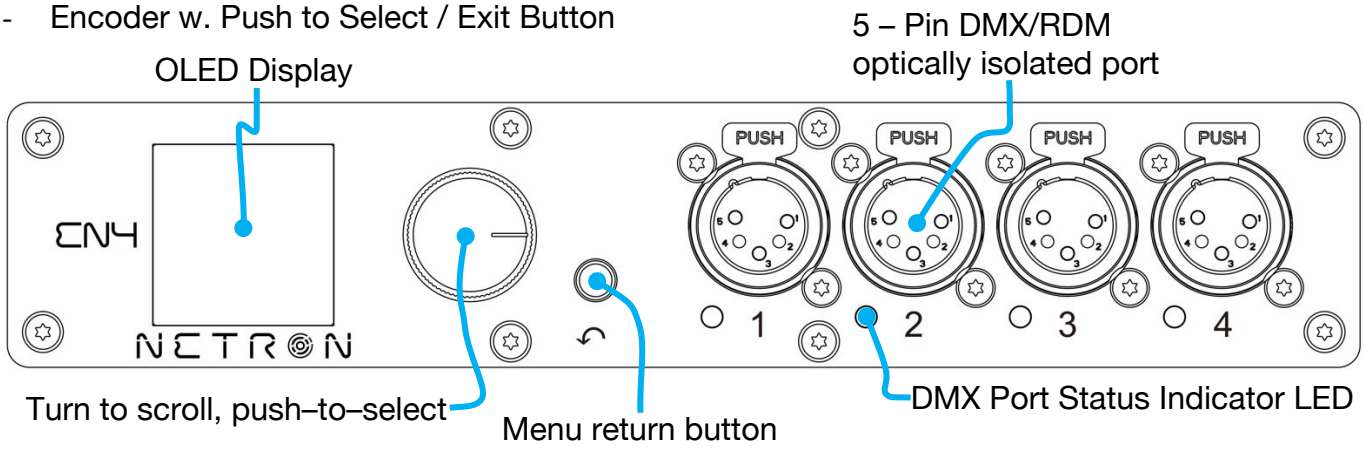
To connect multiple devices to an EtherDMX Source, an Ethernet switch is required to split the data into the desired number of streams.

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

- (6) 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



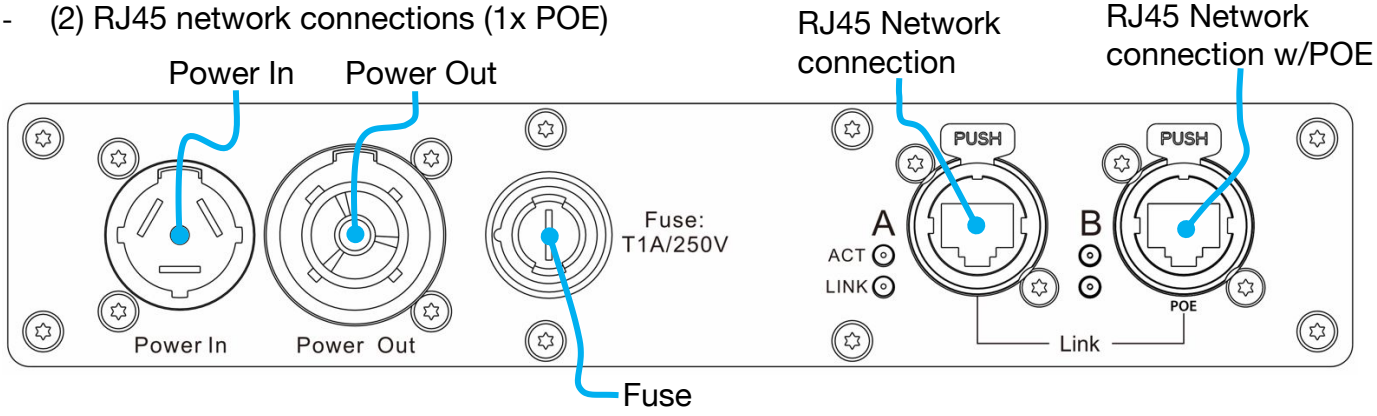

## DMX PORTS STATUS INDICATER LEDs

| Ports | LED Color | Solid | Blink | Flashing/Strobing |
|---|---|---|---|---|
| **DMX** | **RGB** | **Error** | | |
| **DMX** | **RGB** | **DMX In** | **DMX Lost** | |
| **DMX** | **RGB** | **DMX Out Stable** | **DMX Lost** | |
| **DMX** | **WHITE** | | | **Flash on RDM packets** |

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

## REAR CONNECTIONS

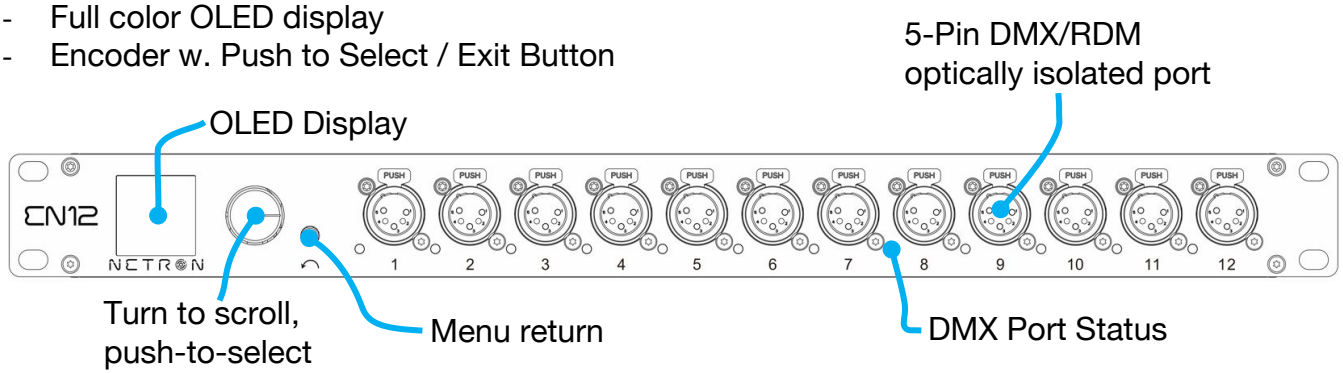
- Seetronic Power In/Thru
- (2) RJ45 network connections (1x POE)



# 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



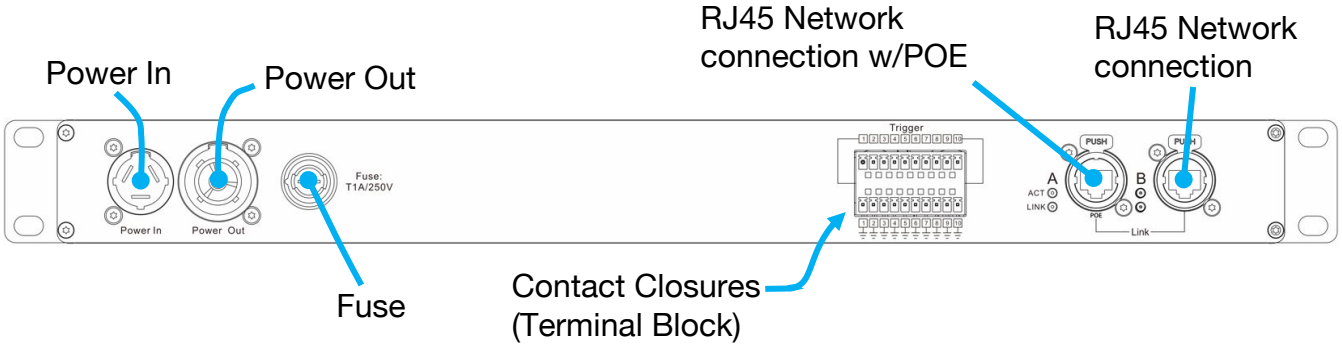

## DMX PORTS STATUS LEDs

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

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

## REAR CONNECTIONS

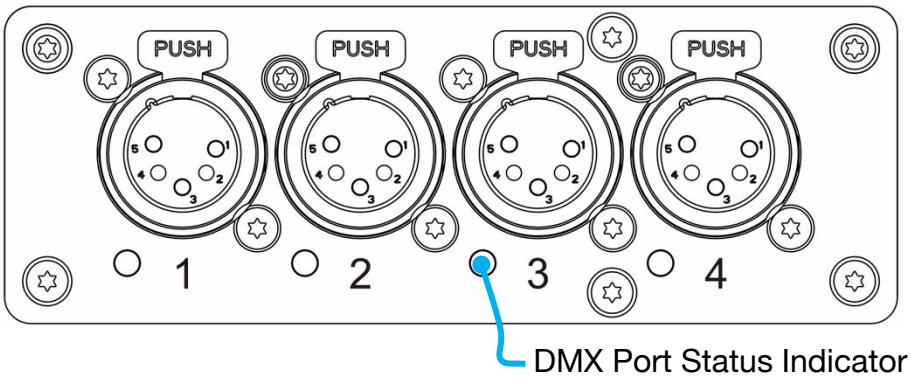
- (2) Locking RJ45 Ethernet network in
- (10) Contact Closures (Terminal Block)
- 2) RJ45 network connections



# CONNECTIONS: EP4 (FRONT & REAR PANELS)

## FRONT CONNECTIONS

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



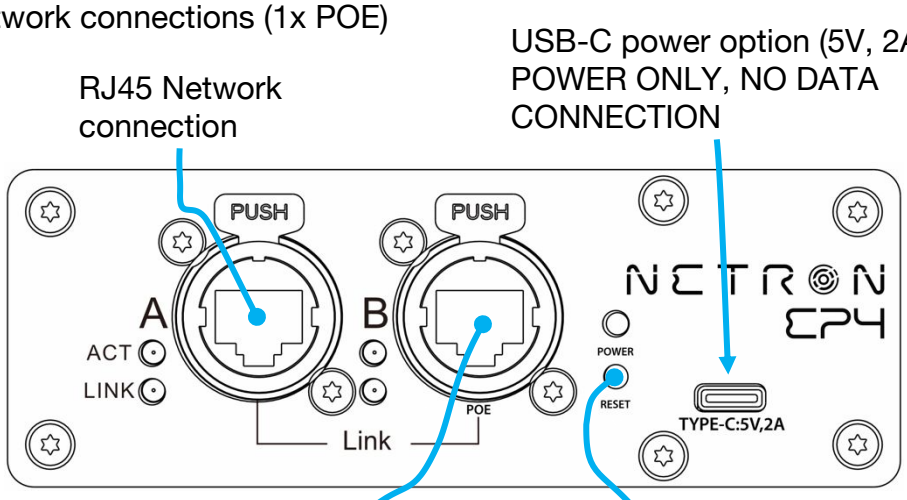

## DMX PORTS STATUS INDICATER LEDs

| Ports | LED Color | Solid | Blink | Flashing/Strobing |
|---|---|---|---|---|
| RJ45 | LINK Green | Link established | | |
| RJ45 | ACT Yellow | | | Network Traffic |
| DMX | RGB | Error | | |
| DMX | RGB | DMX In | DMX Lost | |
| DMX | RGB | DMX Out Stable | DMX Lost | |
| DMX | WHITE | | | Flash on RDM packets |

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

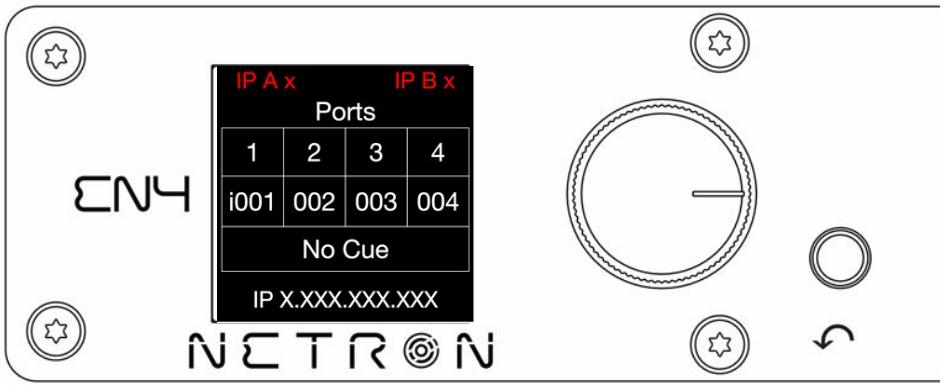
## REAR CONNECTIONS

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

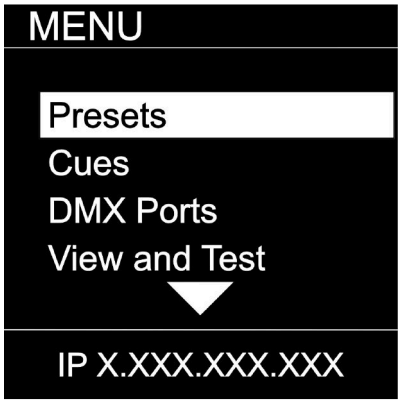


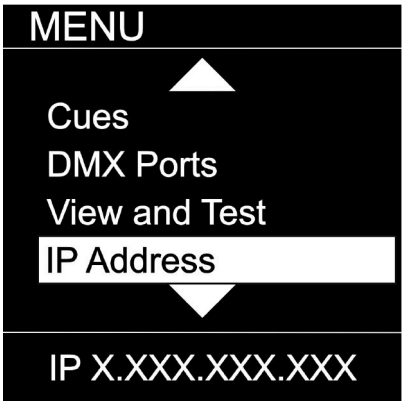
# MENU: NAVIGATION

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 back to a previous menu or cancel an entry with a single push of the back arrow.




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



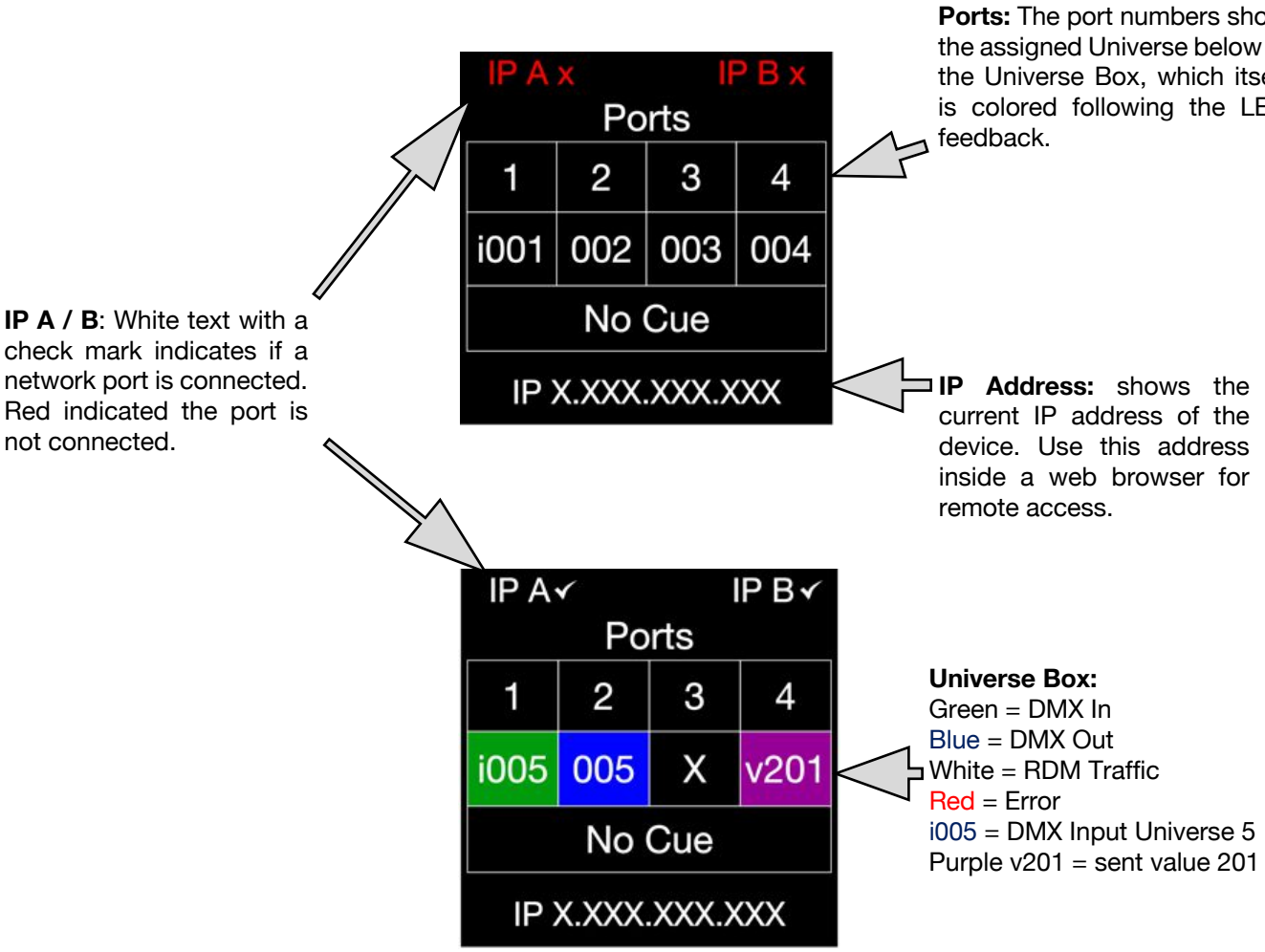





As you scroll up or down the menu, the arrows indicate that more items are available above or below that which is displayed, and only show when needed.

# MENU: HOME SCREEN

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




**Ports:** The port numbers show the assigned Universe below in the Universe Box, which itself is colored following the LED feedback.

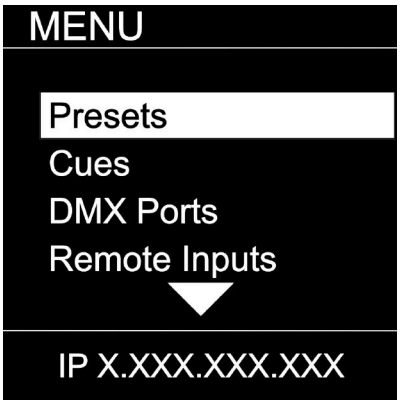
**IP A / B**: White text with a check mark indicates if a network port is connected. Red indicated the port is not connected.

**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

# 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 |
|---|---|---|---|---|
| MENU<br>NETRON Presets<br>USER PRESETS<br>IP X.XXX.XXX.XXX | 1 :ArtNet 2.x | Universe 1 – 256 | | See NETRON Presets |
| | 2 :ArtNet 10.x | Universe 1 – 266 | | |
| | 3 :sACN DHCP | Universe 1 – 256 | | |
| | 4 :ArtNet In | Universe 1 – 266 | | |
| | 5 :sACN DHCP In | Universe 1 – 256 | | |
| | 6 :ArtNet In/Thru | Universe 1 – 256 | | |
| | 7 :Splitter Port1 | | | |
| MENU<br>NETRON Presets<br>USER PRESETS<br>IP X.XXX.XXX.XXX | 1 :MyPreset 1<br>…<br>10 :MyPreset 10 | Save Preset | Preset Saved | |
| | | Load Preset | Preset Loaded | |
| | | Rename Preset | 12 Character Label | |

# MENU: EN4/EP4 NETRON PRESETS

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

| Label | Ethernet | | | | DMX Ports | | | |
|---|---|---|---|---|---|---|---|---|
| | **IP Address** | **Subnet** | **Protocol** | **Option** | **1** | **2** | **3** | **4** |
| **Artnet 2.x** | Automatic 2.x | 255.0.0.0 | Artnet | **Universe #** | Output | Output | Output | Output |
| | | | | **X** | X | X+1 | X | X+1 |
| | | | RDM | | | Yes | Yes | Yes |
| **Artnet 10.x** | Automatic 10.x | 255.0.0.0 | Artnet | **Universe #** | Output | Output | Output | Output |
| | | | | **X** | X | X+1 | X+2 | X+3 |
| | | | RDM | | Yes | Yes | Yes | Yes |
| **sACN** | DHCP | DHCP | sACN | **Universe #** | Output | Output | Output | Output |
| | | | | **X** | X | X+1 | X+2 | X+2 |
| | | | RDM | | Yes | Yes | Yes | Yes |
| **Artnet In** | Automatic 2.x | 255.0.0.0 | | **Universe #** | Input | Input | Input | Input |
| | | | | **X** | X | X+1 | X+2 | X+3 |
| **sACN In** | DHCP | DHCP | Artnet | **Universe #** | Input | Input | Input | Input |
| | | | | **X** | X | X+1 | X+2 | X+3 |
| **Artnet In / Thru** | Automatic 2.x | 255.0.0.0 | Artnet | **Universe #** | Input | Input | Output | Output |
| | | | | **X** | X | X+1 | Clone 1 | Clone 2 |
| | | | RDM | | | | Yes | Yes |
| **Splitter Port 1** | Automatic 2.x | 255.0.0.0 | Artnet | | Input | Output | Output | Output |
| No RDM support | | | | | X | Clone 1 | Clone 1 | Clone 1 |
| | | | RDM | | | Yes | Yes | Yes |

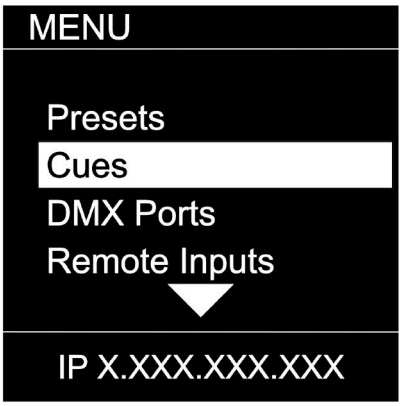
# MENU: EN12 NETRON PRESETS

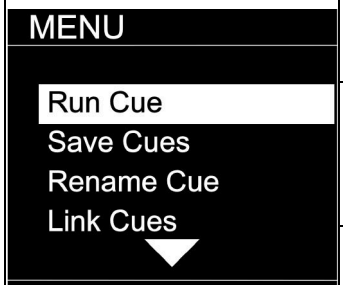
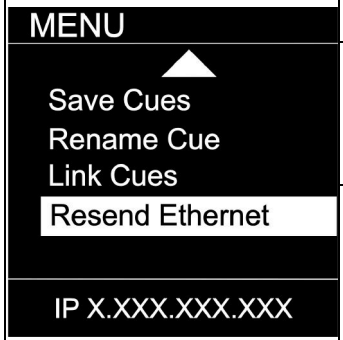
These simple presets are preprogrammed into the device for fast setup. Some presets require additional input like a start Universe.

| Label | Ethernet | | | | DMX Ports | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | IP Address | Subnet | Protocol | Option | 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 | 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 |
| Artnet 10.x | Automatic 10.x | 255.0.0.0 | Artnet | Universe # | Output | 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 |
| 3 Artnet Nodes | Automatic 2.x | 255.0.0.0 | Artnet | Port 1 Universe | Output | Output | Output | Output | Output | Output | Output | Output | Output | Output | Output | Output |
| | | | | X | X | X+1 | X+2 | X+3 | | | | | | | | |
| | | | | Port 5 Universe | | | | | | | | | | | | |
| | | | | Y | | | | | Y | Y+1 | Y+2 | Y+3 | | | | |
| | | | | Port 9 Universe | | | | | | | | | | | | |
| | | | | Z | | | | | | | | | Z | Z+1 | Z+2 | Z+3 |
| | | | RDM | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| sACN | DHCP | DHCP | sACN | Universe # | Output | 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 |
| Artnet In | Automatic 2.x | 255.0.0.0 | Artnet | Universe # | Input | 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 |
| sACN In | DHCP | DHCP | Artnet | Universe # | Input | 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 | 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 |
| | | | RDM | | | | | | | | Yes | Yes | Yes | Yes | Yes | Yes |
| Splitter Port 1 | Automatic 2.x | 255.0.0.0 | Artnet | | Input | Output | Output | Output | Output | Output | Output | Output | Output | Output | Output | Output |
| No RDM support | | | | | X | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 |
| Splitter Port 1 + 7 | Automatic 2.x | 255.0.0.0 | Artnet | | Input | Output | Output | Output | Output | Output | Input | Output | Output | Output | Output | Output |
| No RDM support | | | | | | Clone 1 | Clone 1 | Clone 1 | Clone 1 | Clone 1 | | Clone 7 | Clone 7 | Clone 7 | Clone 7 | Clone 7 |

# MENU: CUES

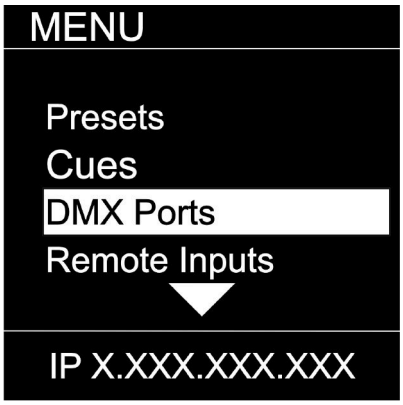
A cue is a full static snapshot of all DMX values of all ports. The device supports 99 cues with fade and hold times, plus a link option to loop multiple cues together. This allows small “mini” cuelists to be created. Cues are used for standalone operation, as a backup for signal loss or can be assigned 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.

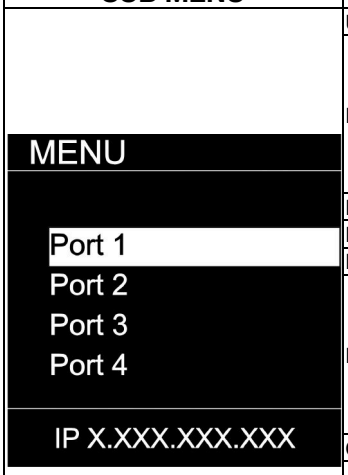



| SUB MENU | | OPTIONS / VALUES | | | DESCRIPTION |
|---|---|---|---|---|---|
|  | Run Cue | 1 – 99 | Go/Off | | Select the desired cue |
| | Save Cue | 1:Cue 1<br>…<br>99:Cue 99 | Save Cue? | Yes/**No** | Save all values on all ports to a cue slot |
| | Rename Cue | 1 – 99 | 12 Character Label | | Edit name of cue |
|  | Link Cues | 1 – 99 | Fade Time | 0s – 60min | Set the fade time of the cue |
| | | | Hold Time | 0s – 60min | 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 | **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

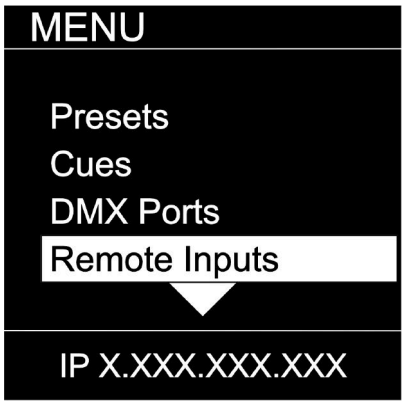
Select a port number to adjust its settings. Depending on the Mode, certain options are not relevant and hidden from the display or web interface.




| SUB MENU | OPTIONS / VALUES | | | DESCRIPTION |
|---|---|---|---|---|
|  | Universe | 1 – 256 | | Select the EtherDMX Universe |
| | Mode | Disable | | The port is disabled. |
| | | Input | | The port receives DMX values and assigns them to the selected Universe. |
| | | **Output** | | The port sends out DMX Values on the selected Universe |
| | | Send Value | 0 – 255 | Send a static DMX value |
| | Protocol | Artnet, sACN, None | | Select the EtherDMX protocol per port |
| | FrameRate | 10, 15, 20, 25, 30, **35**, 40 | | Select the desired frame rate. |
| | RDM | Disabled, **Enabled** | | Disable / Enable RDM traffic for this port |
| | Merge | **OFF** | | 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 |
| | Clone | **None**, Port 2, Port 3, Port 4 | | Replicates the identical DMX data from another port |
| | Range | From: 1 – 512 | | default 1 |
| | | To: 1 – 512 | | default 512 |
| | 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>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 as long as the contact is closed |
| | 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 |
| | 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 |
| MENU<br>Input 1<br>Input 2<br>Input 3<br>Input 4<br>IP X.XXX.XXX.XXX | Source | disabled | Input is disabled |
| | | DMX Port 1 – xx | Use DMX Port. Port must be set as Input |
| | | ArtNet | Artnet Trigger |
| | | sACN | sACN Trigger |
| | | Universe | Set Universe for remote trigger |
| | | Address | Set DMX Address for remote trigger |

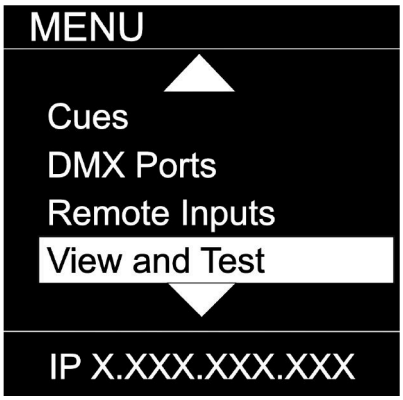
## DMX Map for Remote Trigger

Inputs can be remotely activated over DMX, ArtNET, or sACN. The input is activated as long as 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 Netron 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 |
|---|---|---|---|---|
| MENU<br>DMX View<br>ArtNet View<br>sACN View<br>DMX Port Test<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) |
| | Artnet View | Universe | 1 – 256 | View a specific Artnet 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 – 256 | 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) |
| MENU<br>sACN View<br>DMX Port Test<br>ArtNet Test<br>sACN Test<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 |
| | Artnet Test | Universe | 1 – 256 | Select Artnet 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 – 256 | 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)

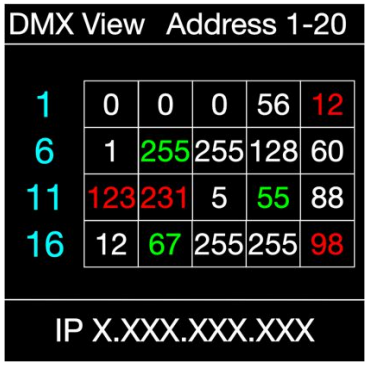
## Monitor (DMX View, ArtNet View, sACN View)

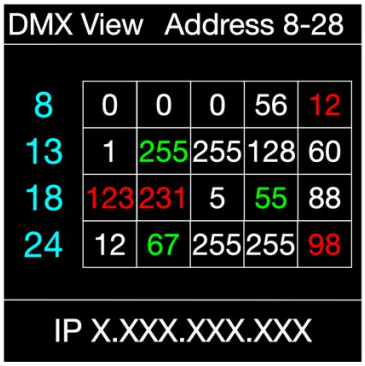
The monitoring options are helpful to find faults, or simply watch incoming traffic. Three styles are available by clicking the encoder wheel. Dial the wheel to change the display to the desired address, and exit the monitor with the back button.

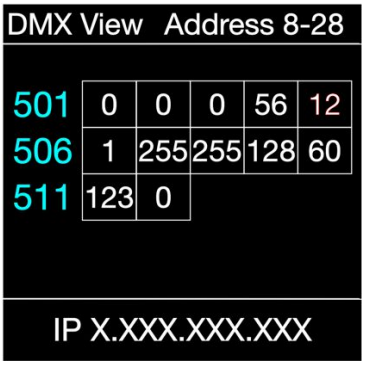
### DMX Test Display – Grid

The color coding helps to quickly identify changing DMX values.

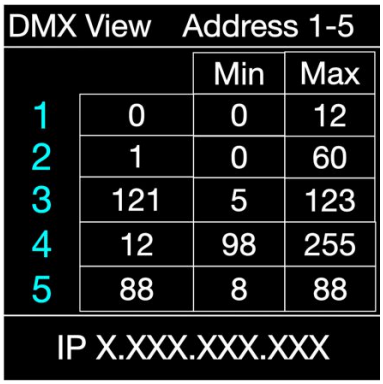
Cyan: DMX Address
Green: Value Decreased
Red: Value Increased
White: Value stable (after 10 seconds)



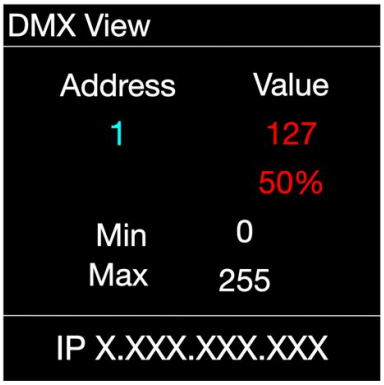




### DMX Test Display – Line

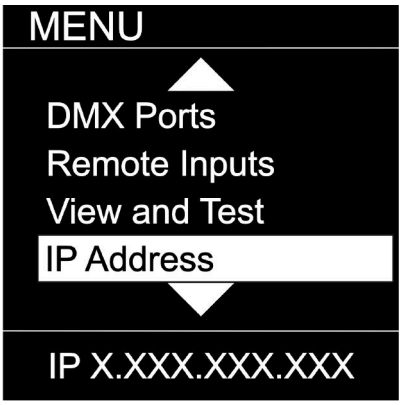



### DMX Test Display – Address



# MENU: IP ADDRESS

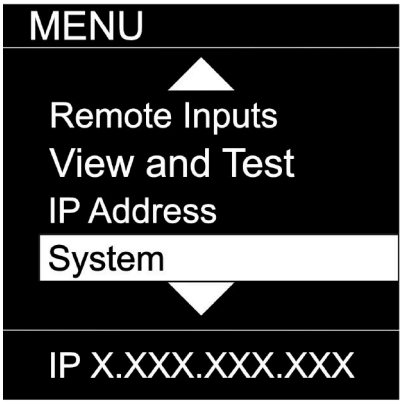
Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For Artnet systems, it should never be necessary to adjust this IP. Any custom address and subnet can be assigned so the node can operate within 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 |
|---|---|---|---|---|
| MENU<br>DHCP IP<br>Automatic 2.X<br>Automatic 10.x<br>Custom IP<br>IP X.XXX.XXX.XXX | 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 | |

# MENU: SYSTEM

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




| SUB MENU | | OPTIONS / VALUES | | | Description |
|---|---|---|---|---|---|
| MENU<br>Device Name<br>Device ID<br>Display<br>Lock Device<br>IP X.XXX.XXX.XXX | Device Name | 12 Character Label | | | Set a device name |
| | Device ID | 0 – 999 | | | Set an optional device ID |
| | Display | Display Timeout | Disable | | Display stays on indefinitely |
| | | | 10s, 30s, 1m, 5m, 10m | | 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 |
| MENU<br>Startup<br>Signal Loss<br>Backup Config<br>RDM Processing<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 |
| MENU<br>Signal Loss<br>Backup Config<br>RDM Processing<br>Factory Reset<br>IP X.XXX.XXX.XXX | 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. 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. |

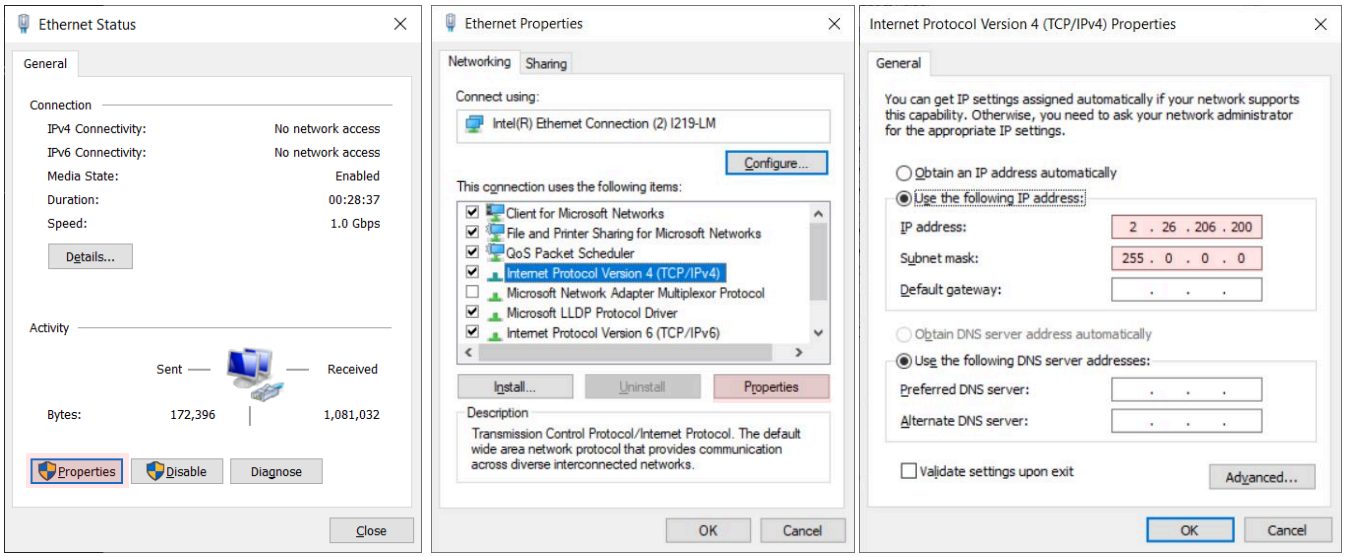
# MENU: INFORMATION

This menu provides information about the device.

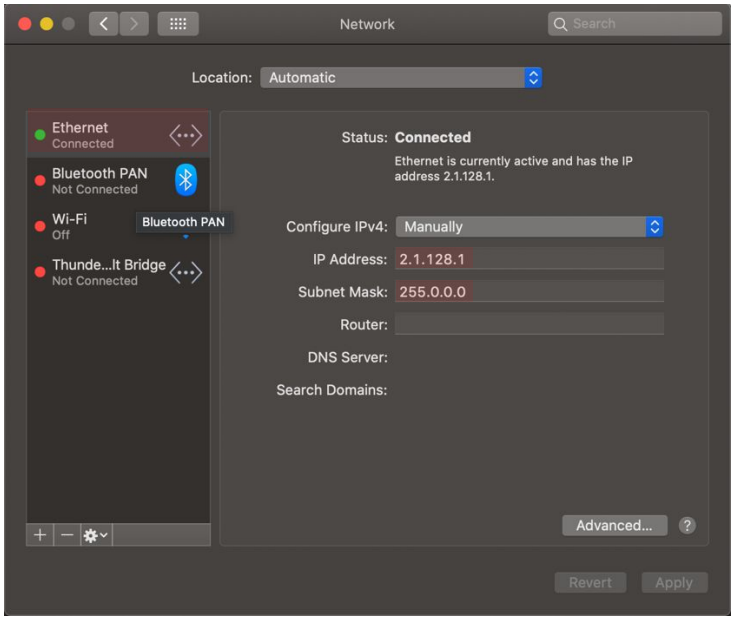

| SUB MENU | | OPTIONS / VALUES | DESCRIPTION |
|---|---|---|---|
|  | Software Version | Boot SW V#<br>Firmware: V# | Display the current software version |
| | Product On Time | Time: XXXXX(H) | Total time the device has been powered on. |
| | MAC Address | x:x:x:x:x:x | Displays MAC address |
| |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

# WEB REMOTE CONFIGURATION

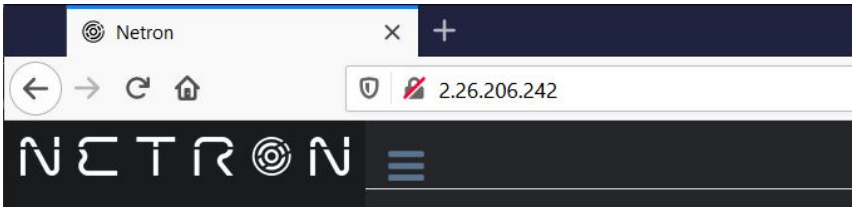
Ensure the device and a computer are in the same IP address range and connected.




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

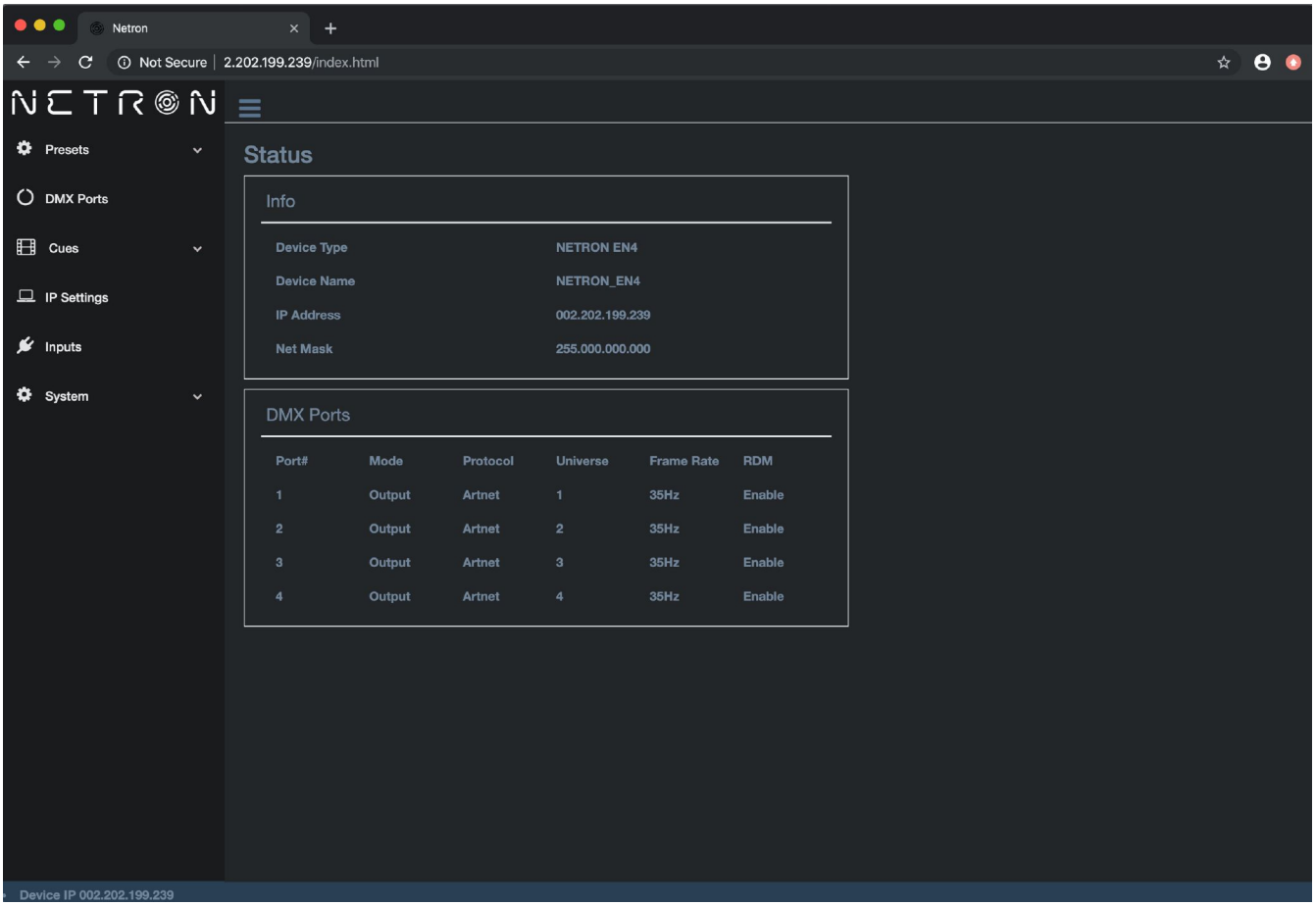



**MAC OS Configuration Sample:** Please note your MAC OS configuration results may vary.

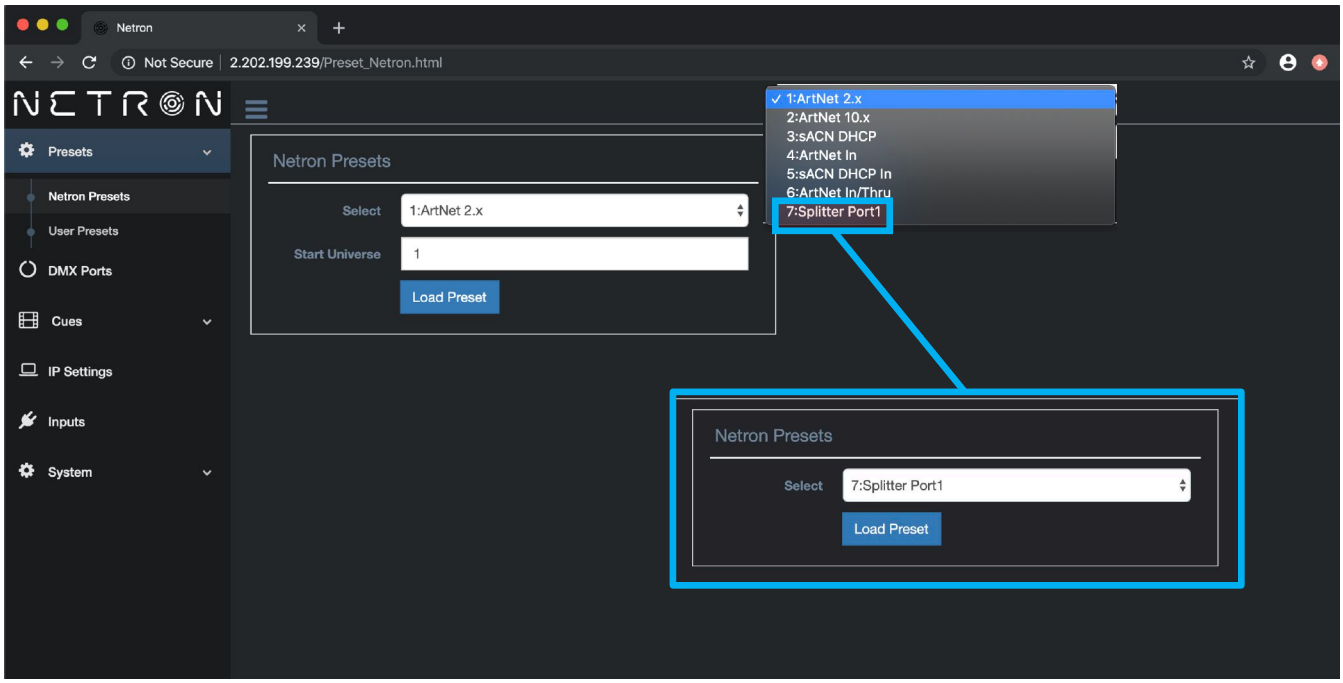



**Browser Sample:** Enter the device IP address into a web browser to access the device page.

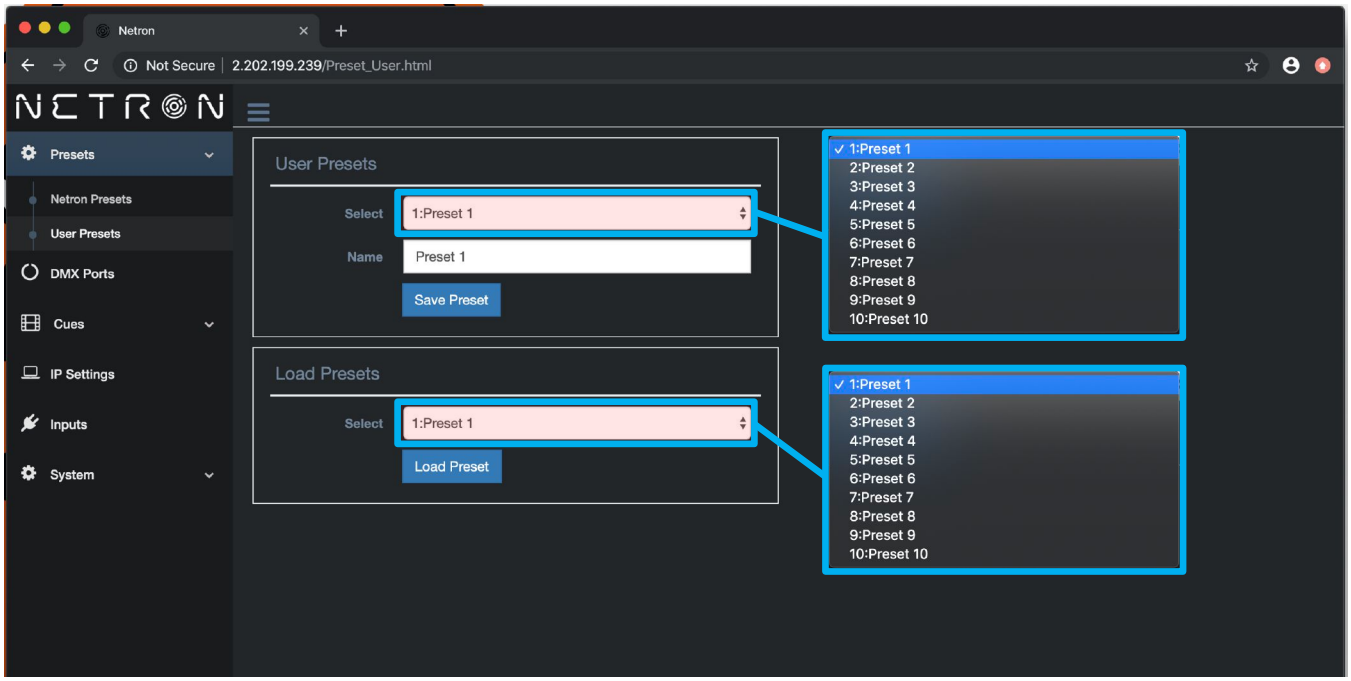
# WEB REMOTE MENU: HOMEPAGE



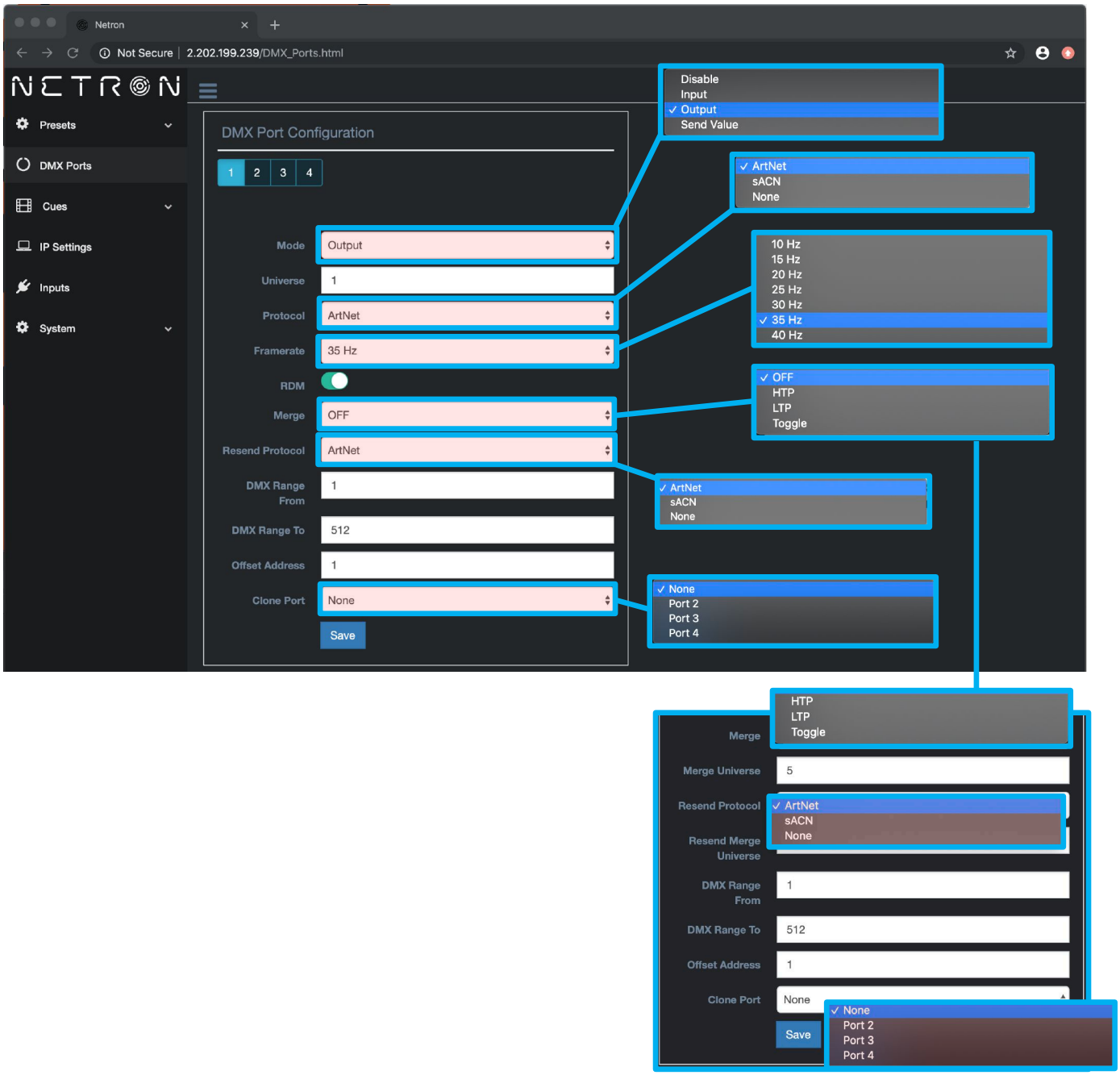
# WEB REMOTE MENU: PRESETS – NETRON PRESETS



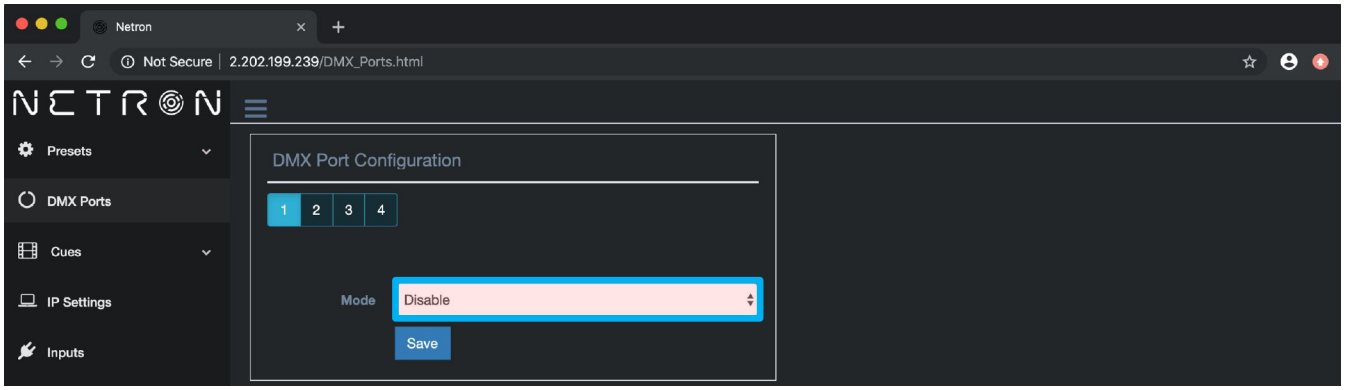

# WEB REMOTE MENU: PRESETS – USER PRESETS



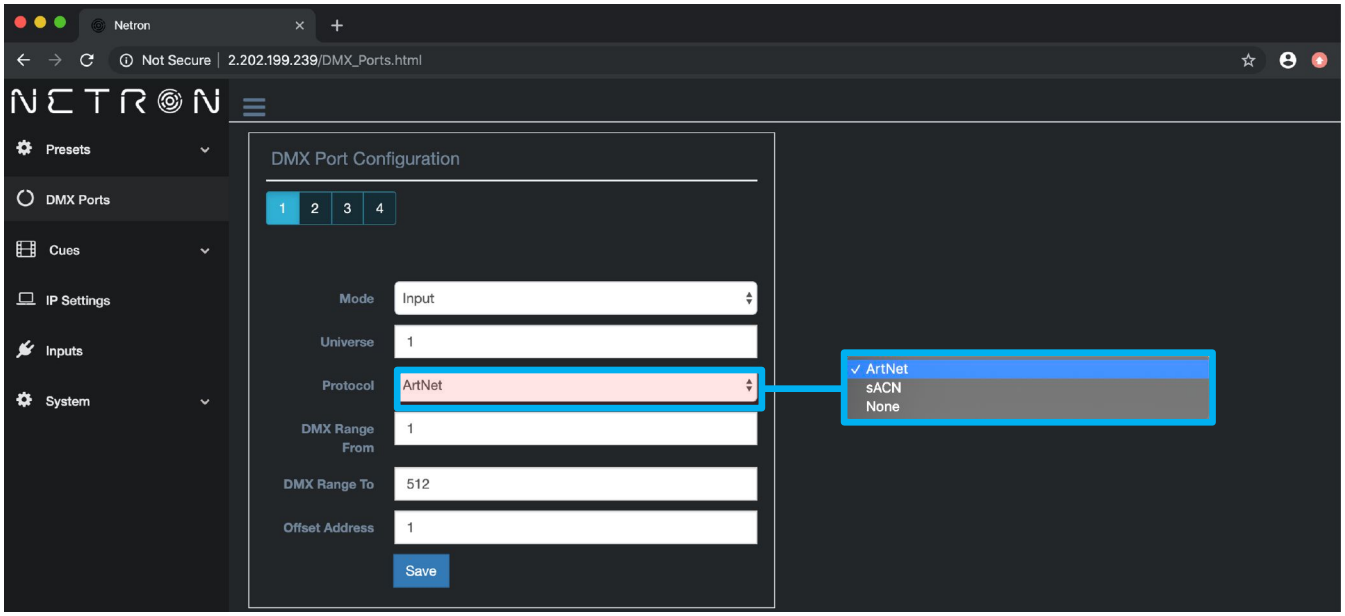
# WEB REMOTE MENU: DMX PORTS – OUTPUT



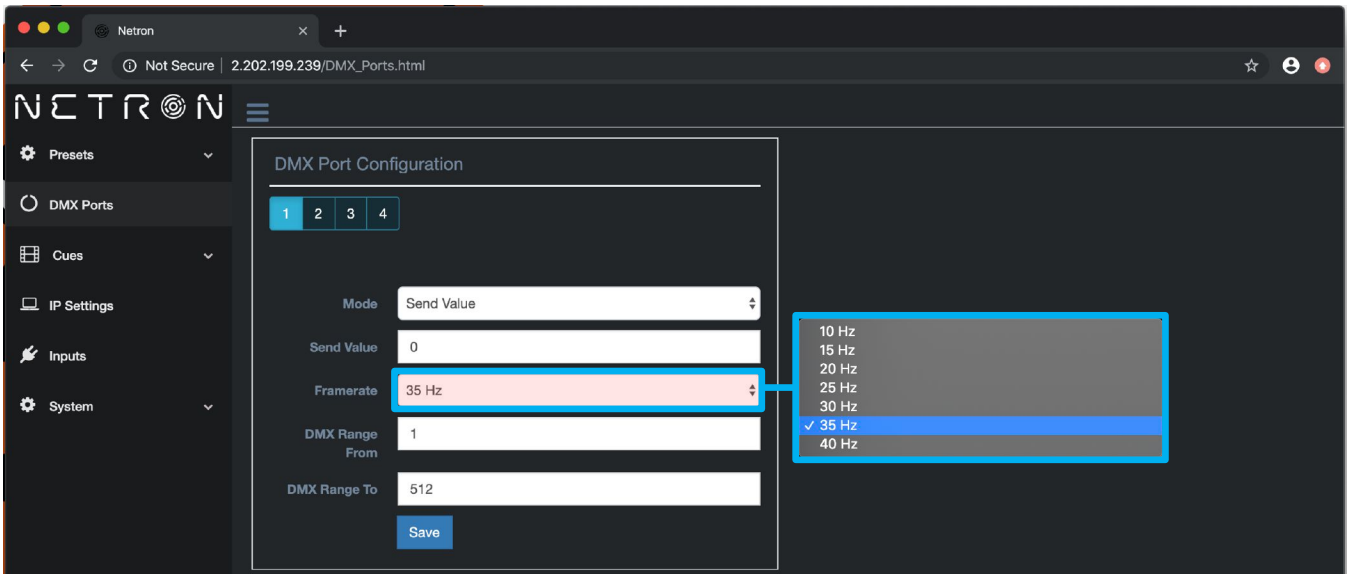
# WEB REMOTE MENU: DMX PORTS – DISABLE



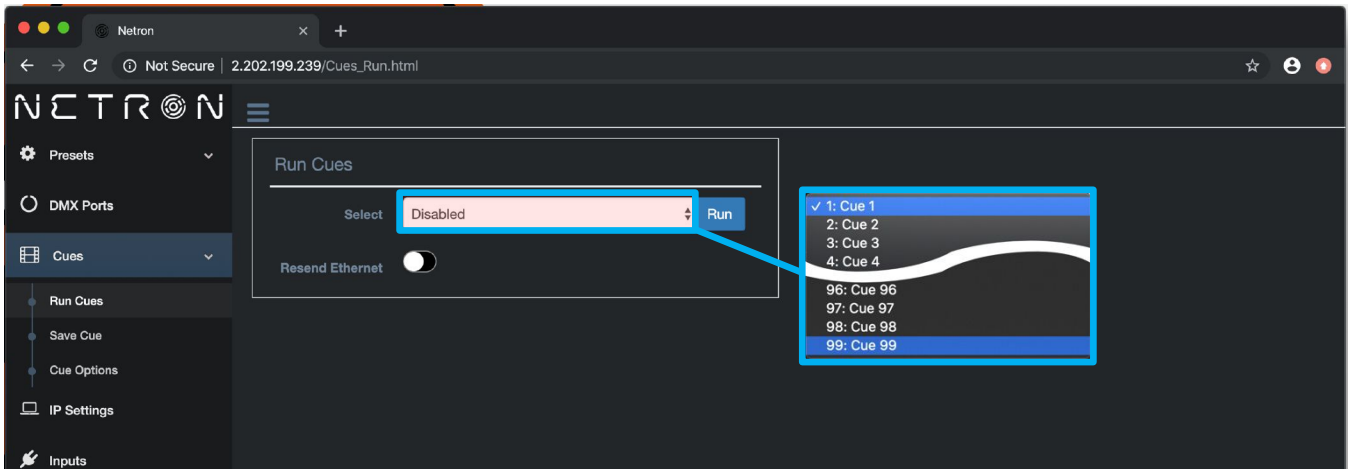

# WEB REMOTE MENU: DMX PORTS – INPUT



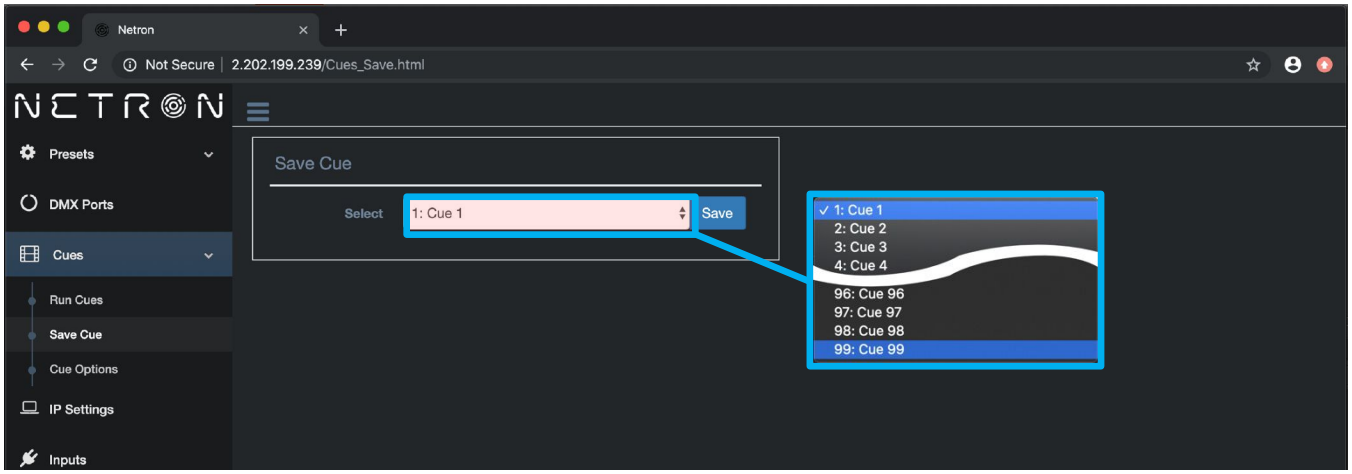

# WEB REMOTE MENU: DMX PORTS – SEND VALUE



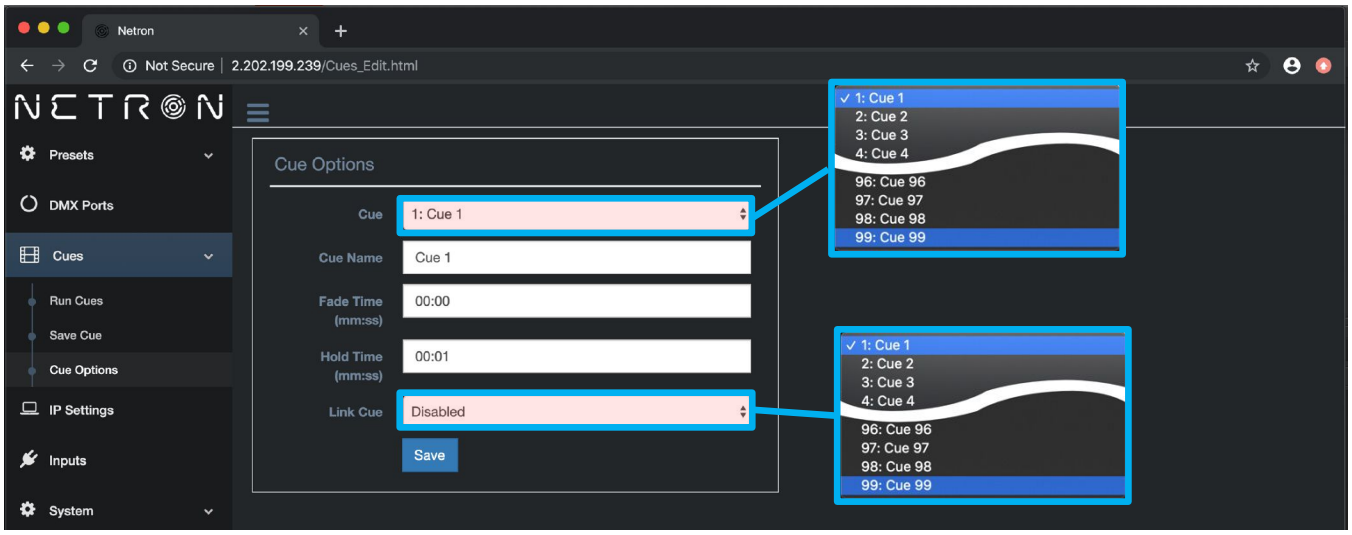
# WEB REMOTE MENU: CUES – RUN CUES



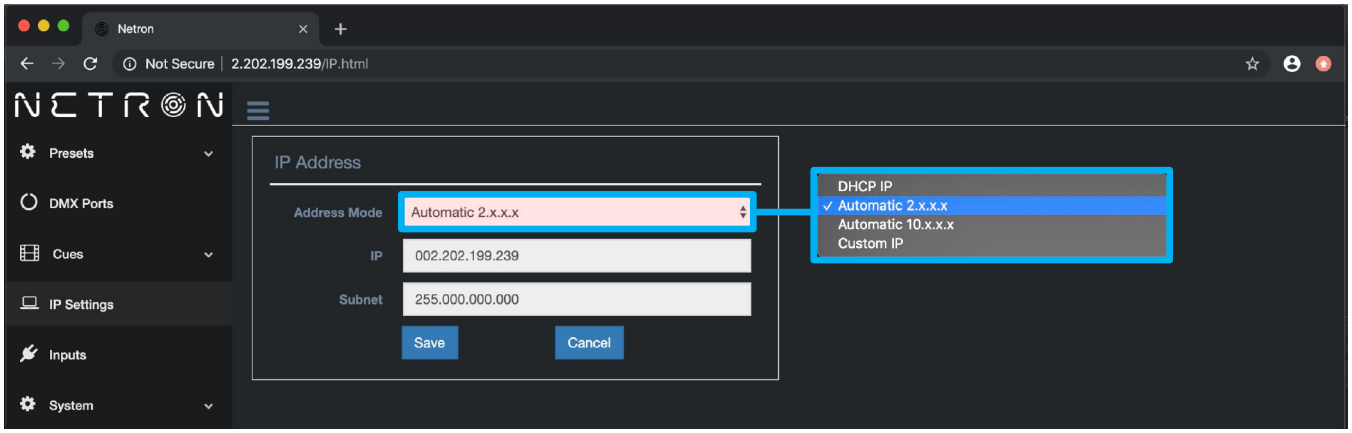

# WEB REMOTE MENU: CUES – SAVE CUES



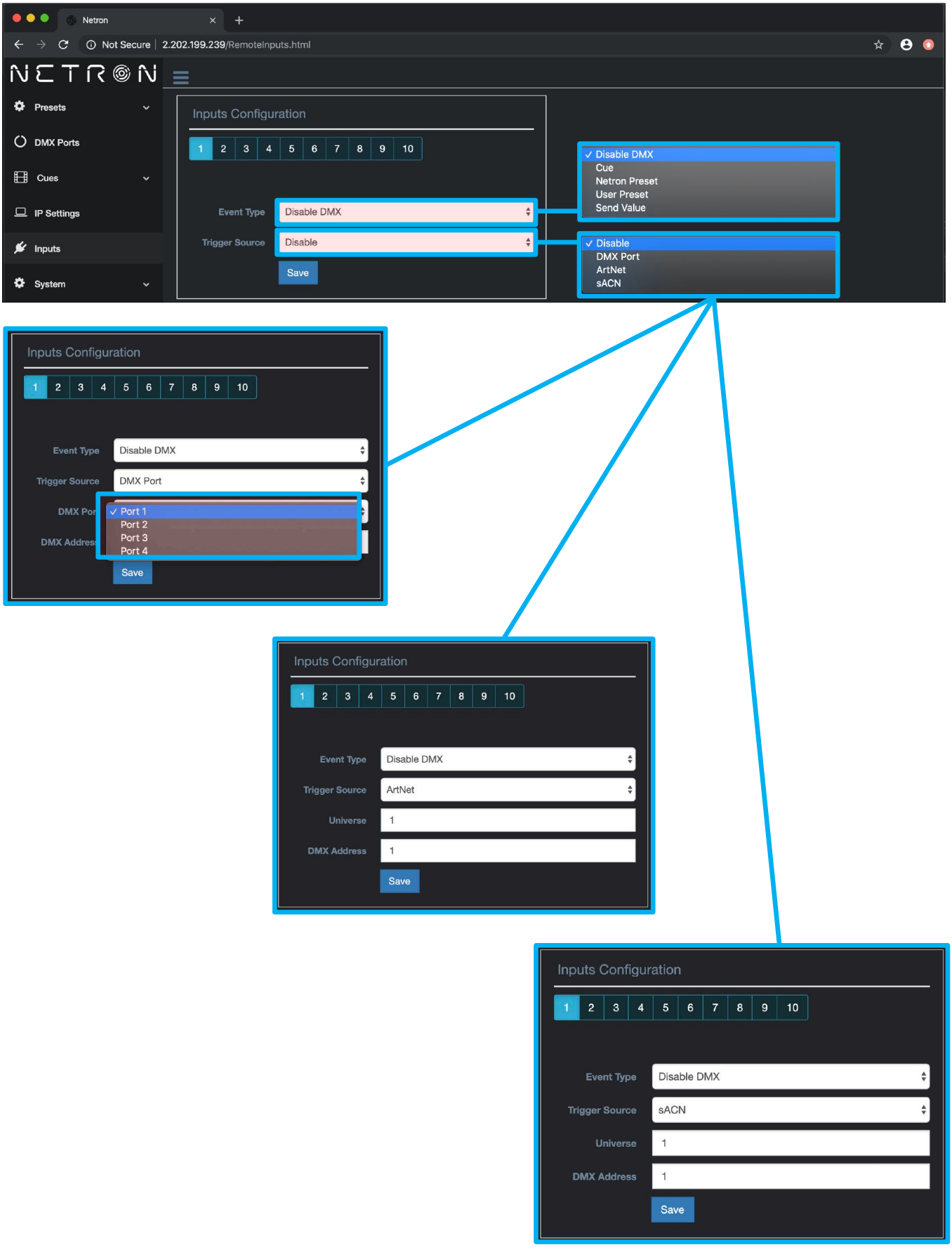

# WEB REMOTE MENU: CUES – CUE OPTIONS



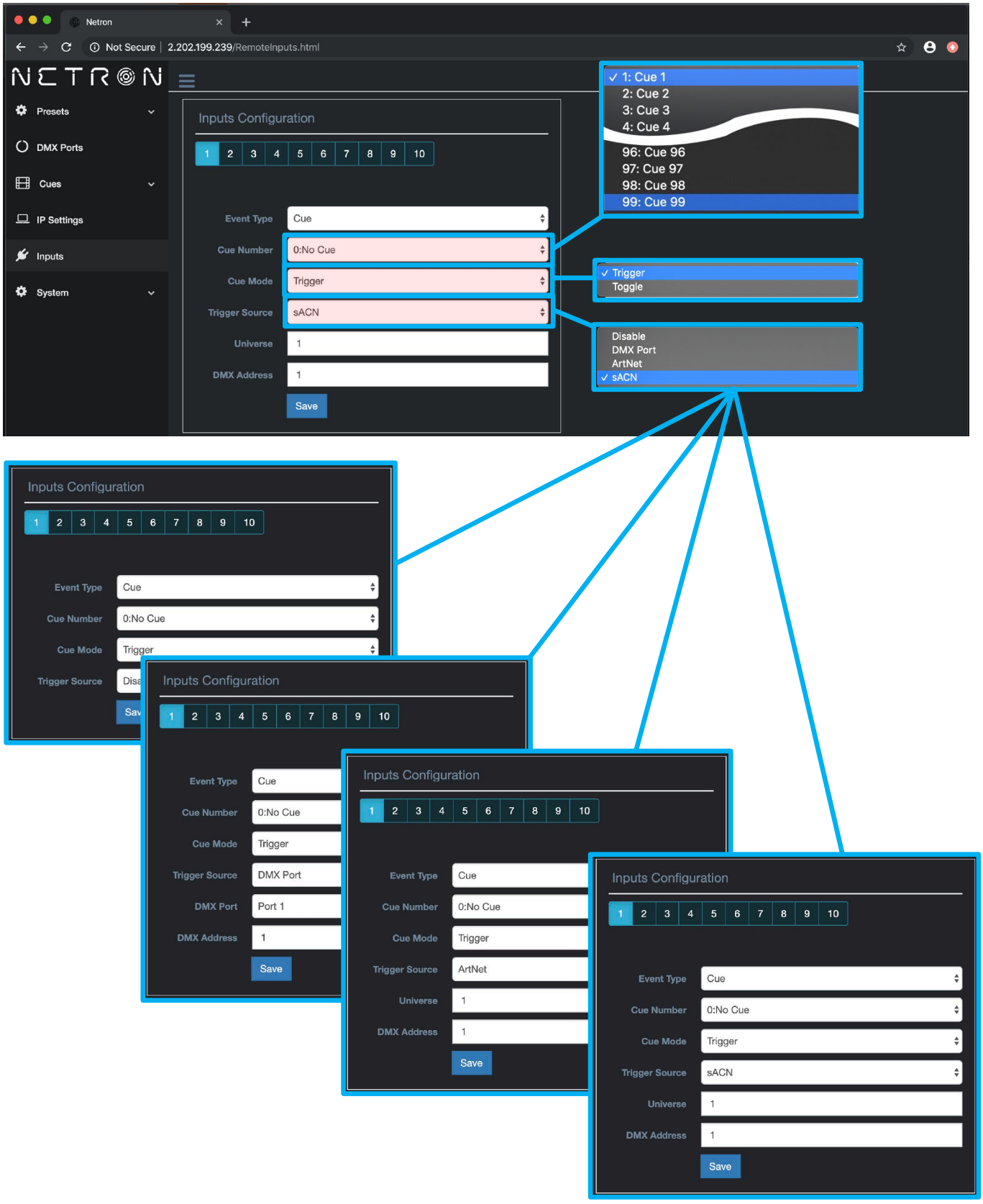
# WEB REMOTE MENU: IP SETTINGS



# WEB REMOTE MENU: INPUTS – DISABLE DMX



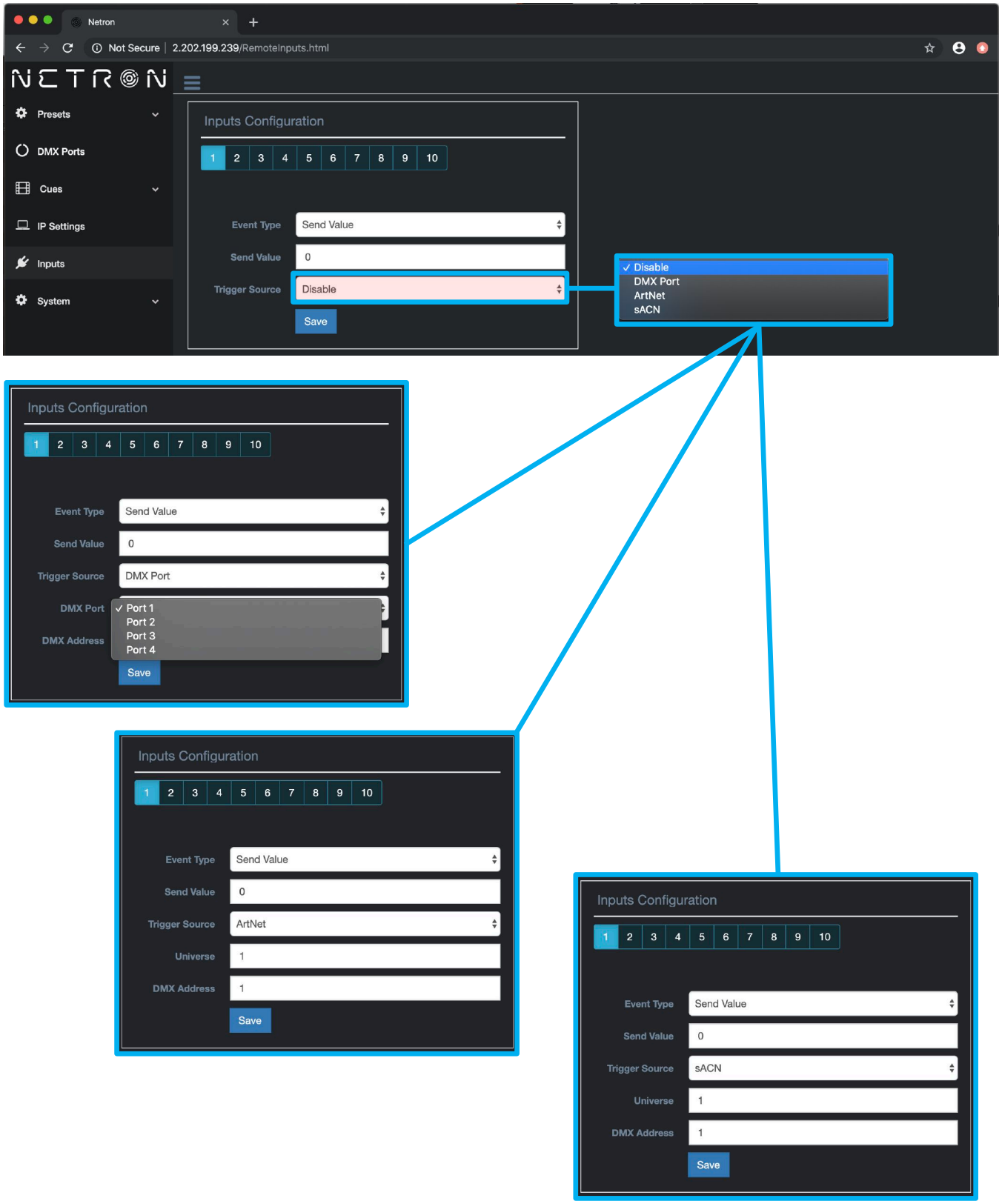
# WEB REMOTE MENU: INPUTS – CUE



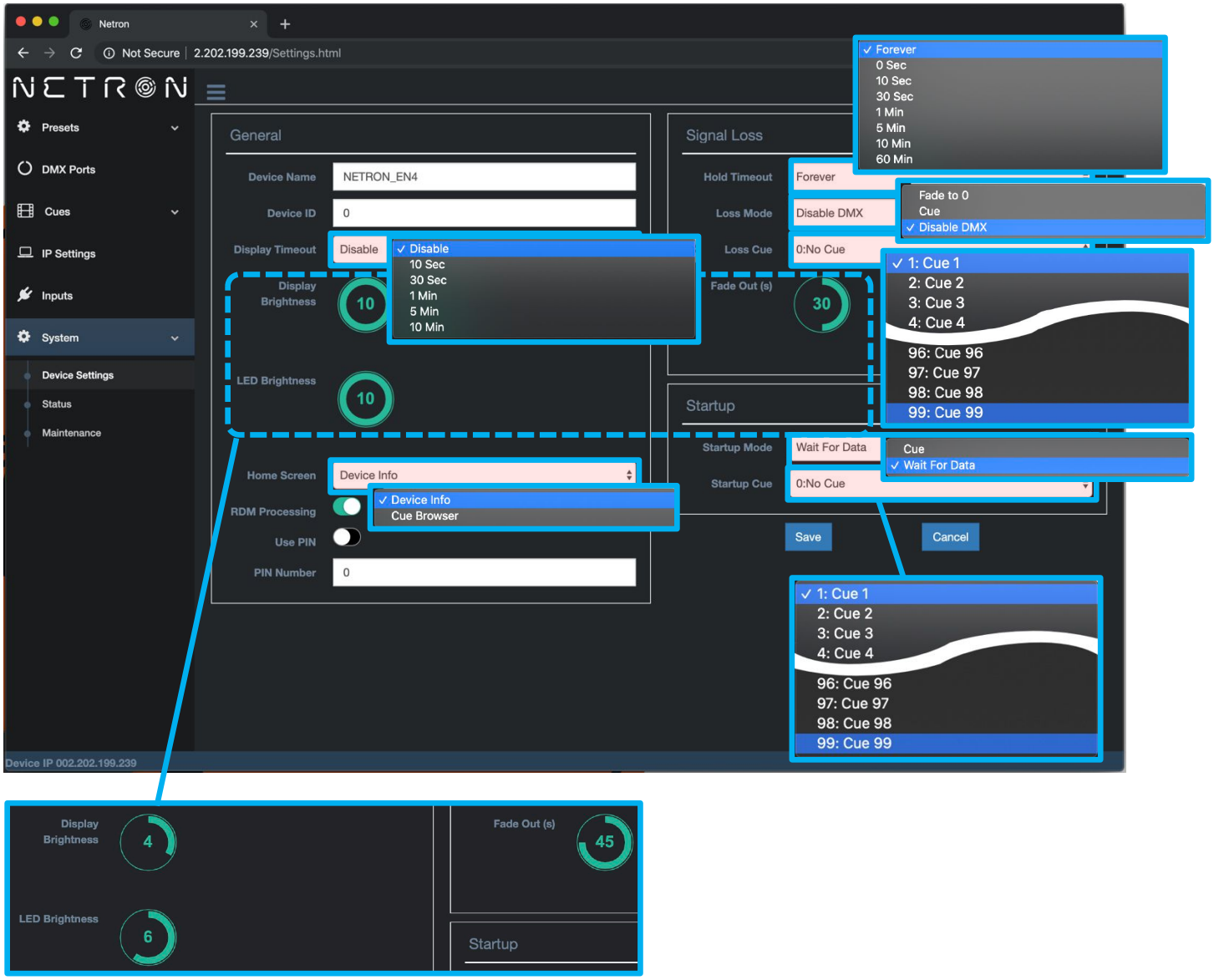
# WEB REMOTE MENU: INPUTS – NETRON PRESETS

# WEB REMOTE MENU: INPUTS – USER PRESETS

# WEB REMOTE MENU: INPUTS – SEND VALUE

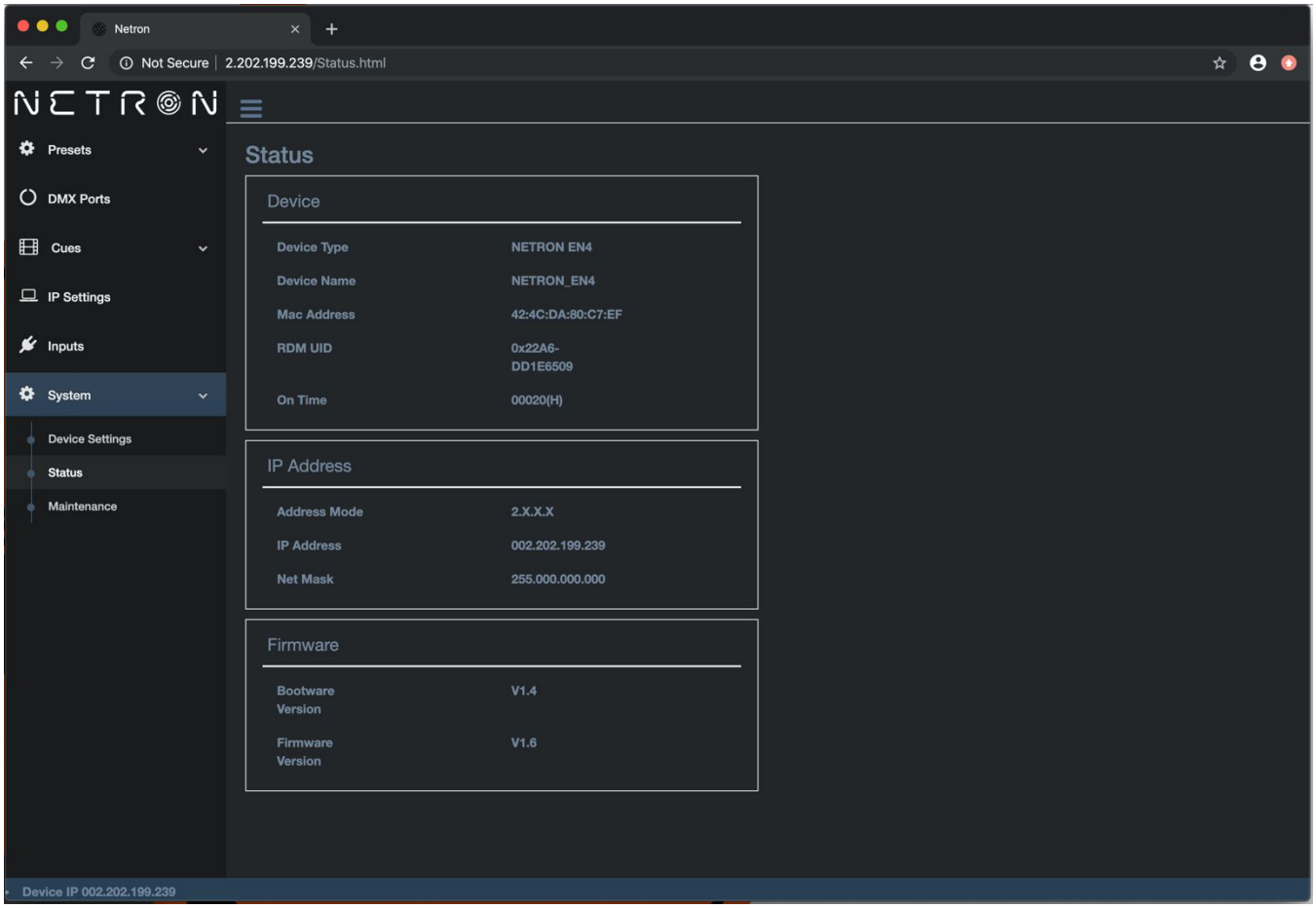


# WEB REMOTE MENU: SYSTEM – DEVICE SETTINGS

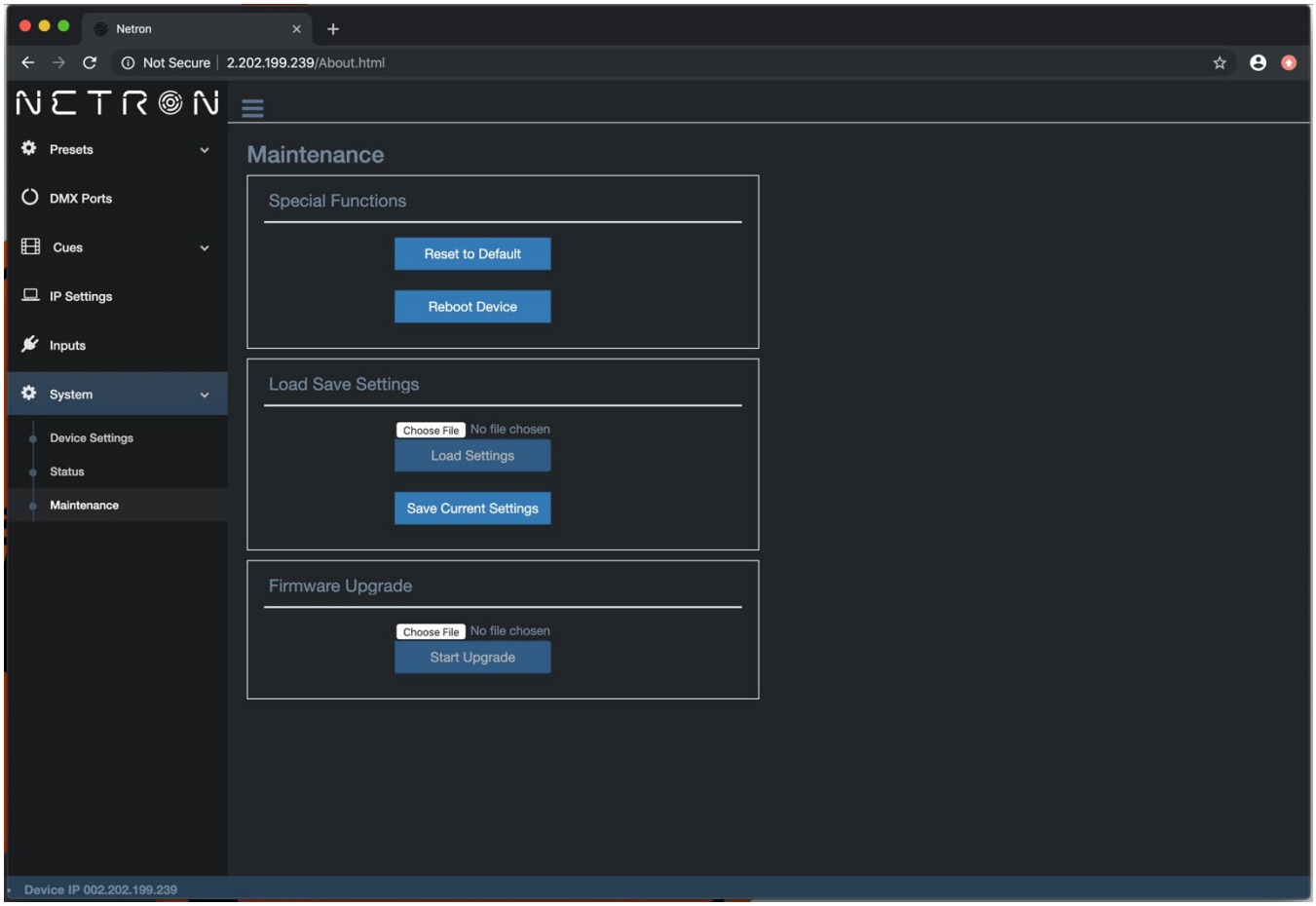



Use cursor to click and drag around to desired time.

# WEB REMOTE MENU: SYSTEM – STATUS



# WEB REMOTE MENU: SYSTEM – MAINTENANCE



# FIRMWARE UPDATES

Updates for improved performance or to add additional features may be available on 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.