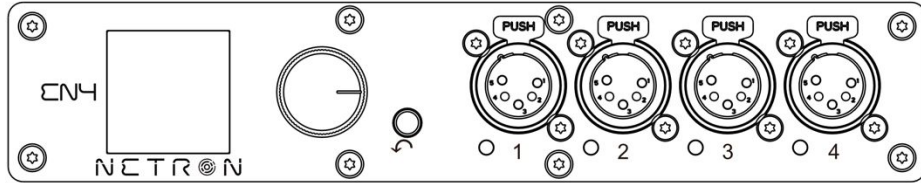
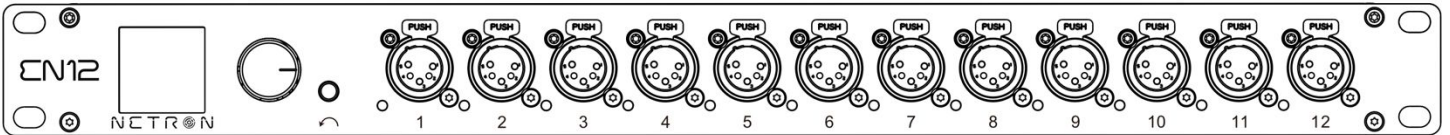


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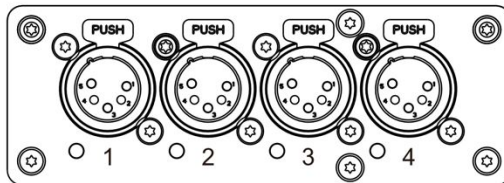
CONTROL SYSTEMS



EN4



EN12



EP4

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.

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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

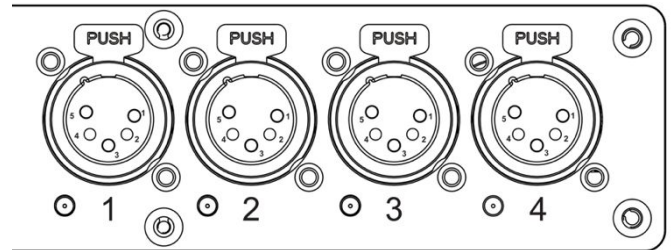
All DMX Output connections are 5pin female XLR; however, the pin – out on all sockets is pin 1 to shield, pin 2 to cold (–), and pin 3 to hot (+). Pins 4 and 5 are not used.

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.

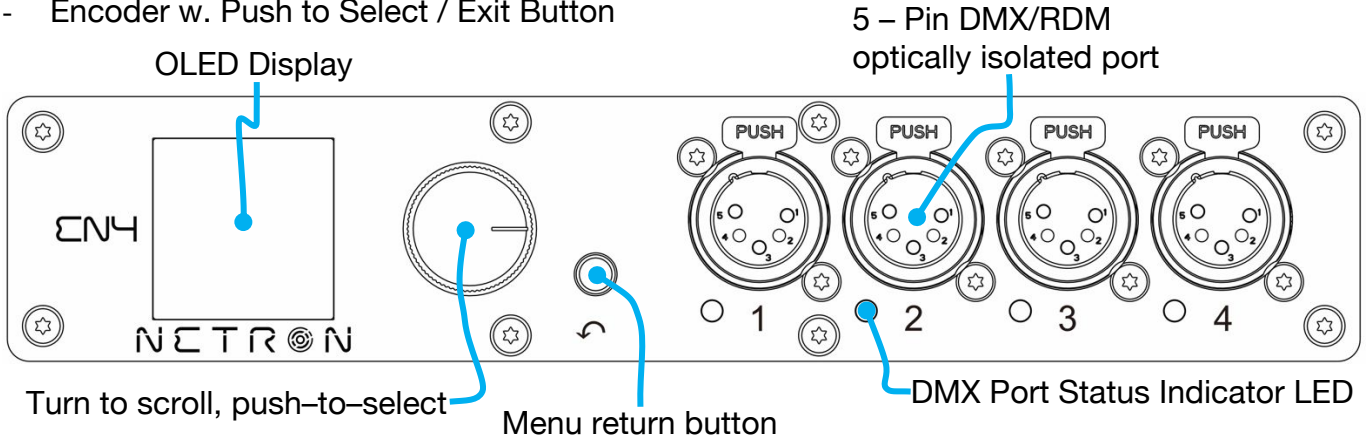
To connect multiple devices to an EtherDMX Source, an Ethernet switch is required to split the data into the desired number of streams.

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



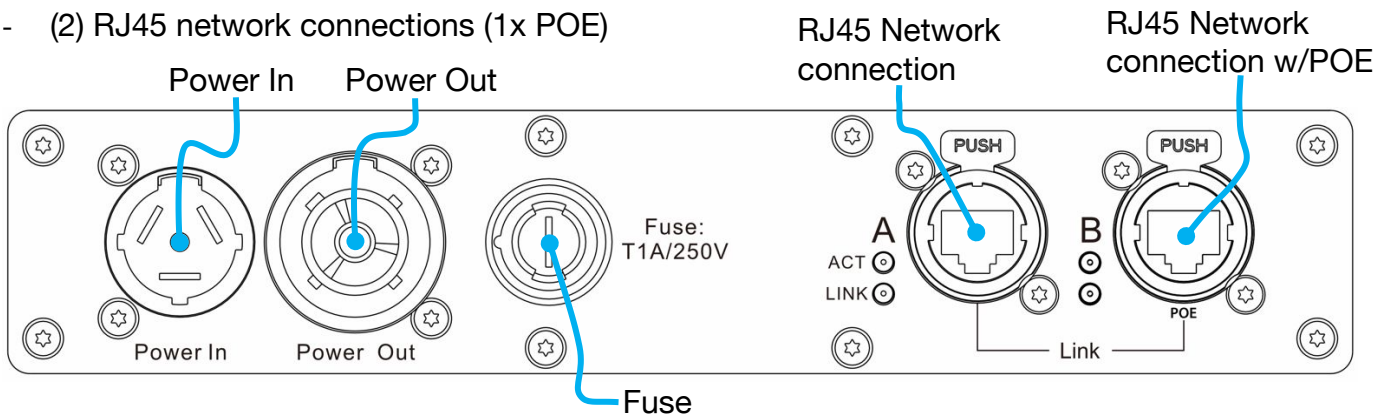
DMX PORTS STATUS INDICATOR LEDs

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

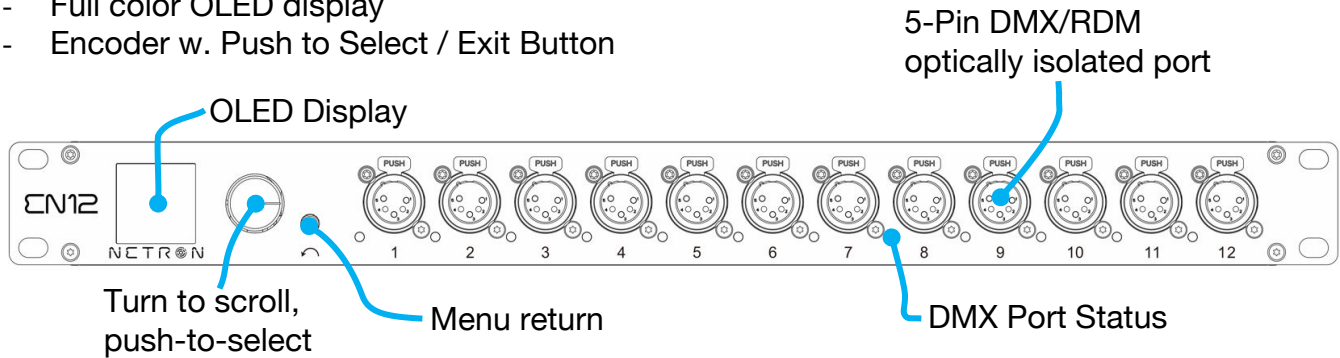
- Seetronic Power In/Thru
- (2) RJ45 network connections (1x POE)



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



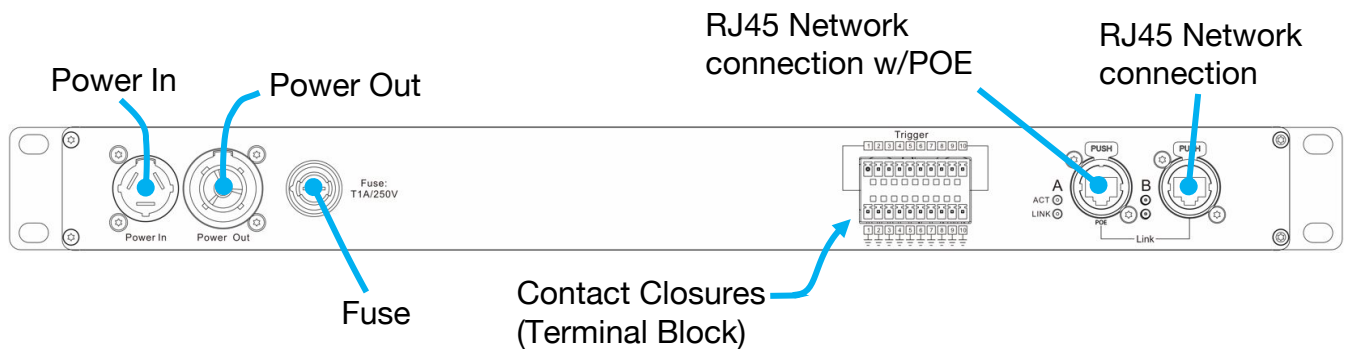
DMX PORTS STATUS LED s

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

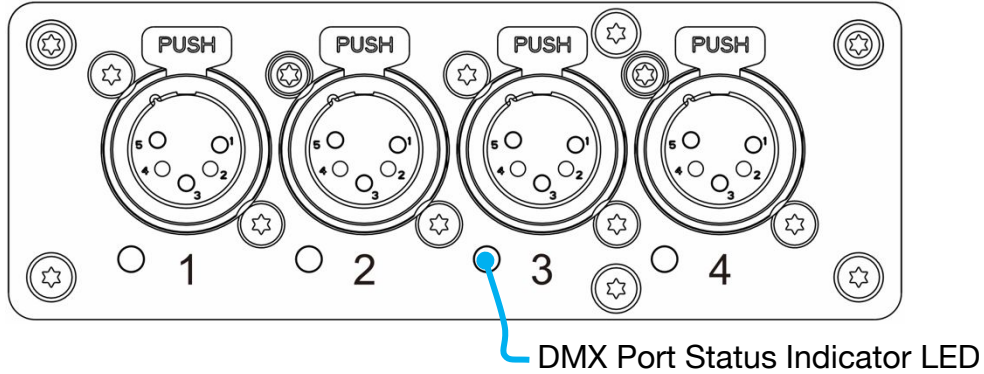
- (2) Locking RJ45 Ethernet network in
- (10) Contact Closures (Terminal Block)
- 2) RJ45 network connections



CONNECTIONS: EP4 (FRONT & REAR PANELS)

FRONT CONNECTIONS

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



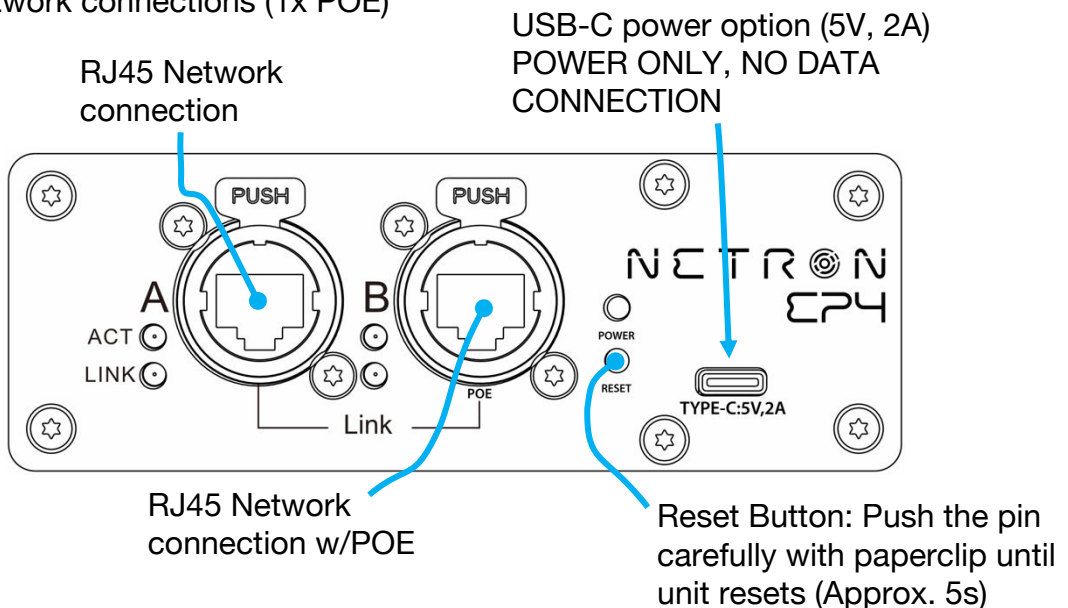
DMX PORTS STATUS INDICATER LEDs

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.

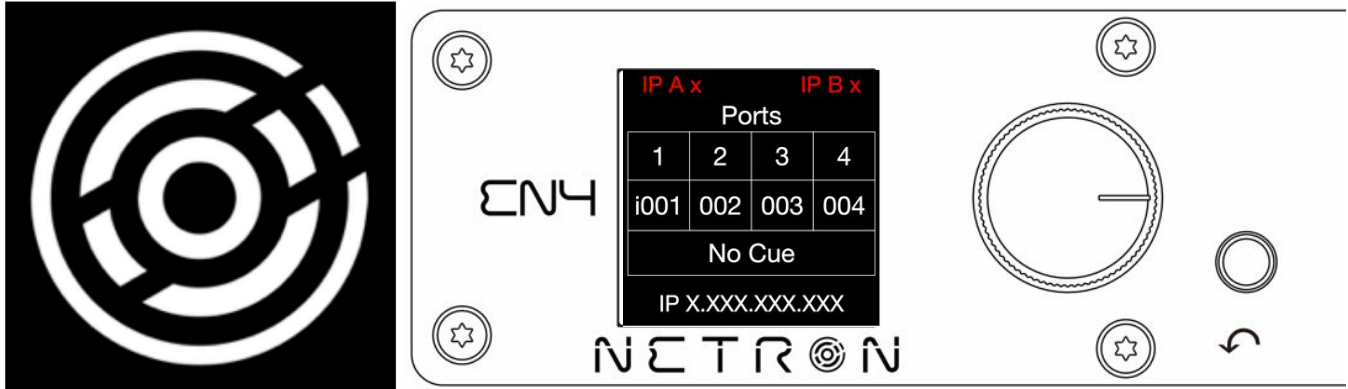
REAR CONNECTIONS

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

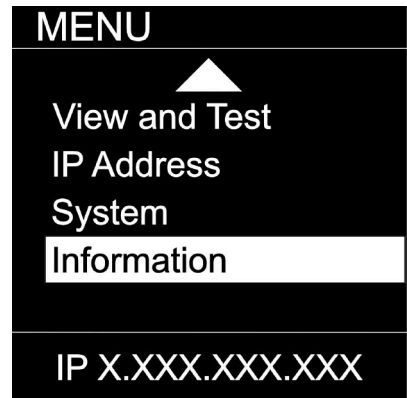
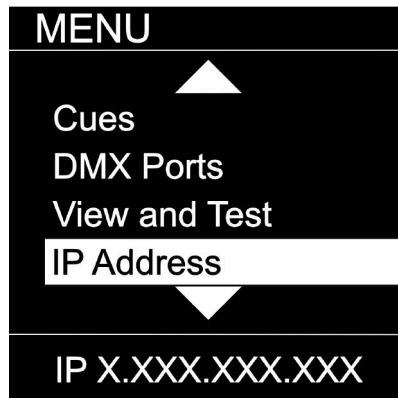
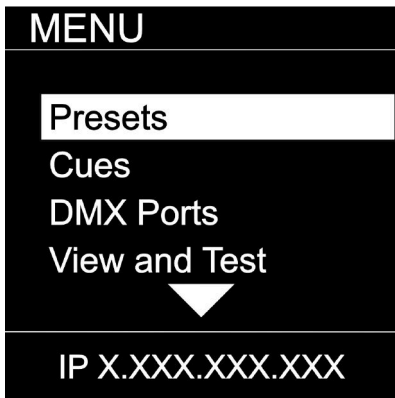


MENU: NAVIGATION

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.

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

IP A x		IP B x	
Ports			
1	2	3	4
i001	002	003	004
No Cue			
IP X.XXX.XXX.XXX			

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

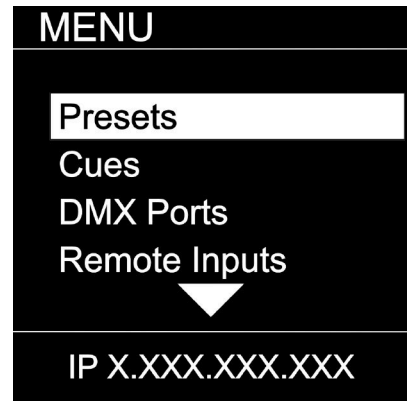
IP Address: shows the current IP address of the device. Use this address inside a web browser for remote access.

IP A ✓		IP B ✓	
Ports			
1	2	3	4
i005	005	X	v201
No Cue			
IP X.XXX.XXX.XXX			

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 NETRON Presets USER PRESETS 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 NETRON Presets USER PRESETS 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: 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		Protocol	Option	DMX Ports			
	IP Address	Subnet			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	Yes	
Splitter Port 1	Automatic 2.x	255.0.0.0	Artnet		Input	Output	Output	Output
					X	Clone 1	Clone 1	Clone 1
			No RDM support	RDM		Yes	Yes	Yes

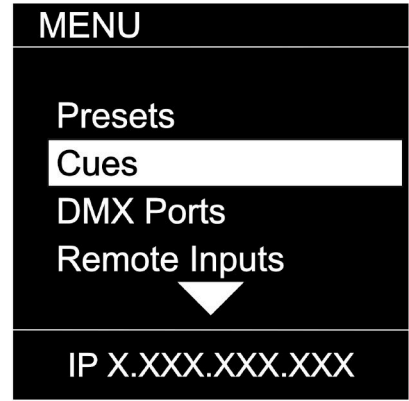
MENU: EN12 NETRON PRESETS

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

Label	Ethernet			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		
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		
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		
				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		
sACN	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	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	
sACN In	DHCP	DHCP	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	
					RDM						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		
				No RDM support			X	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		
				No RDM support				Clone 1	Clone 1	Clone 1	Clone 1	Clone 1		Clone 7	Clone 7	Clone 7	Clone 7

MENU: CUES

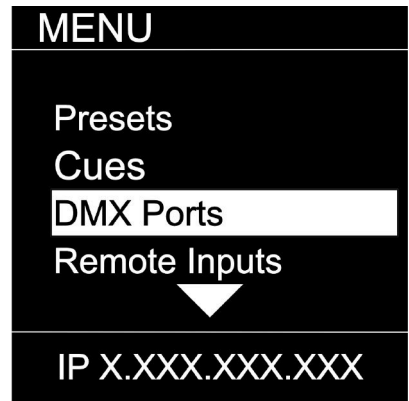
A cue is a full static snapshot of all DMX values of all ports. The device supports 99 cues with fade and hold times, plus a link option to loop multiple cues together. This allows small “mini” cuelists to be created. Cues are used for standalone operation, as a backup for signal loss or can be assigned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



SUB MENU		OPTIONS / VALUES		DESCRIPTION	
MENU Run Cue Save Cues Rename Cue Link Cues ▼ IP X.XXX.XXX.XXX	Run Cue	1 – 99	Go/Off	Select the desired cue	
	Save Cue	1:Cue 1 ... 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	
MENU ▲ Save Cues Rename Cue Link Cues Resend Ethernet IP X.XXX.XXX.XXX	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	
	Resend Ethernet	Disable			Cue data is not sent over Ethernet
					Enable

MENU: DMX PORTS

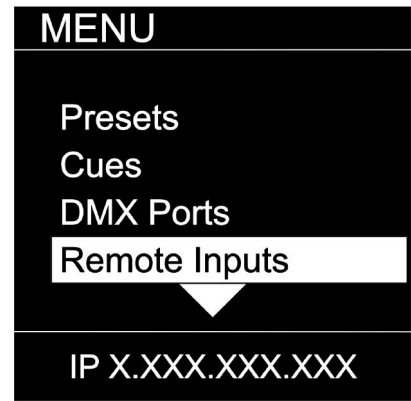
Select a port number to adjust its settings. Depending on the Mode, certain options are not relevant and hidden from the display or web interface.



SUB MENU	OPTIONS / VALUES		DESCRIPTION	
MENU Port 1 Port 2 Port 3 Port 4 IP X.XXX.XXX.XXX	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 Input 1 Input 2 Input 3 Input 4 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	
MENU Input 1 Input 2 Input 3 Input 4 IP X.XXX.XXX.XXX	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
		ArtNet	Artnet Trigger	
		sACN	sACN Trigger	
		Universe	Set Universe for remote trigger	
		Address	Set DMX Address for remote trigger	

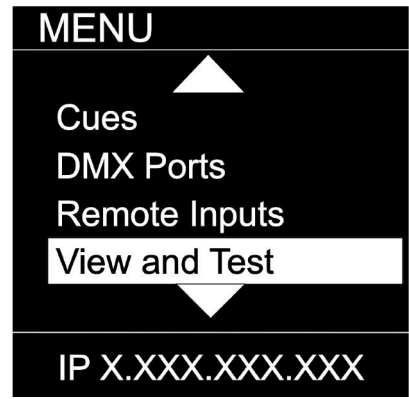
DMX Map for Remote Trigger

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 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
MENU	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)
DMX View ArtNet View sACN View DMX Port Test	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)
IP X.XXX.XXX.XXX	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	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
	Speed	To: 1 – 512	default 512	
		1 – 10, Manual	Select the speed of generator	
sACN View DMX Port Test ArtNet Test sACN Test	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	
IP X.XXX.XXX.XXX	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 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

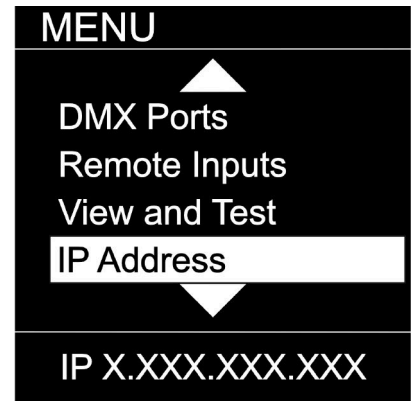
DMX View

Address	Value
1	127
	50%
Min	0
Max	255

IP X.XXX.XXX.XXX

MENU: IP ADDRESS

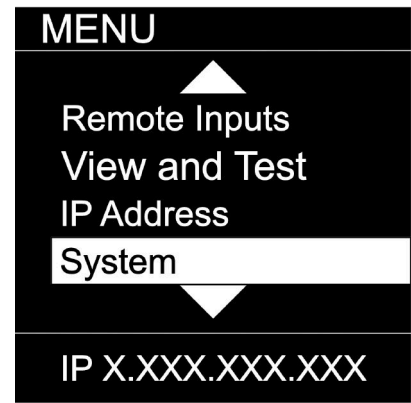
Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For Artnet systems, it should never be necessary to adjust this IP. Any custom address and subnet can be assigned so the node can operate within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

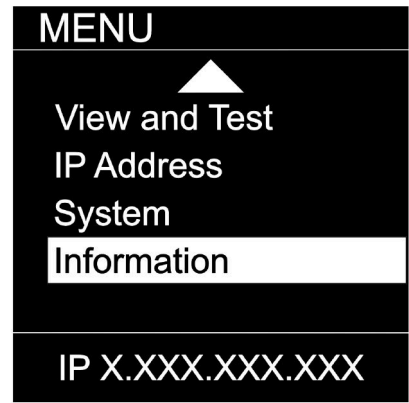
This menu contains all the settings to configure and manage the device.



SUB MENU		OPTIONS / VALUES		Description
MENU Device Name Device ID Display Lock Device IP X.XXX.XXX.XXX	Device Name	12 Character Label		Set a device name
	Device ID	0 - 999		Set an optional device ID
MENU Startup Signal Loss Backup Config RDM Processing IP X.XXX.XXX.XXX	Display	Display Timeout	Disable 10s, 30s, 1m, 5m, 10m	Display stays on indefinitely 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 Lock Device PIN: 000 (011) Manual Lock: 000 (011)	Lock Device	Lock	Disable Timeout	The device does not require a pin The device asks for a pin after the display times out
		Manual Lock: 000 (011)	Lock / Unlock	Lock the device immediately
		Cue		Run a specific Cue at startup
MENU Signal Loss Backup Config RDM Processing IP X.XXX.XXX.XXX	Signal Loss	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
		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
MENU Backup Config RDM Processing Factory Reset IP X.XXX.XXX.XXX	Backup Config	Disable DMX		DMX traffic is turned off on all ports
		Save Config	Config Saved	Save current configuration including all cue data
MENU RDM Processing Factory Reset IP X.XXX.XXX.XXX	RDM Processing	Load Config	Config Loaded	Reload configuration. Backups can be exported and imported from the web interface
		All Disable		Disables RDM processing on the device
MENU Factory Reset Pin: 000 (011)	Factory Reset	All Enable		Enables all RDM processing on the device
		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

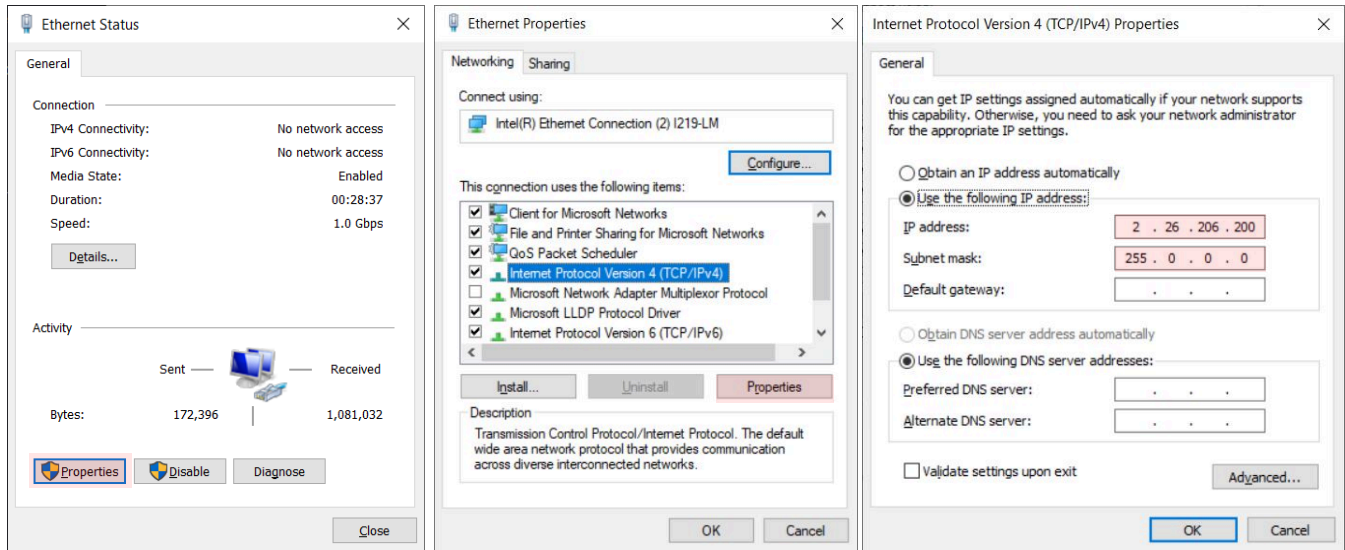
This menu provides information about the device.



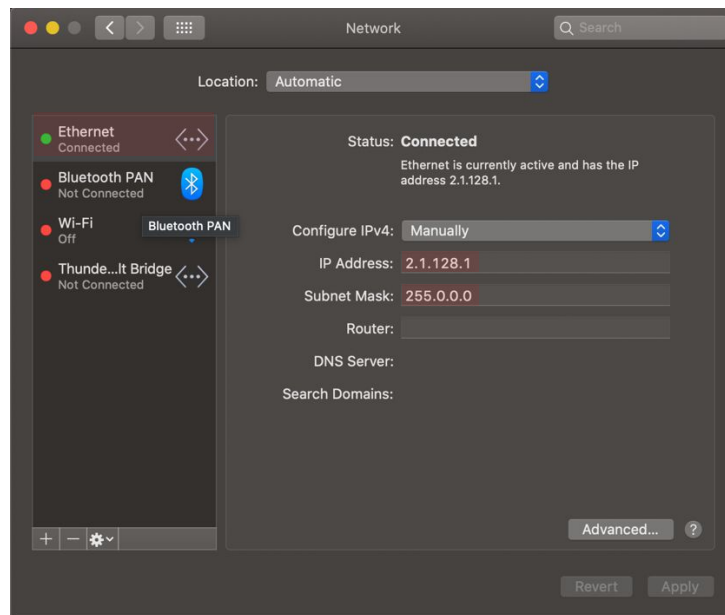
SUB MENU		OPTIONS / VALUES	DESCRIPTION
	Software Version	Boot SW V# Firmware: V#	Display the current software version
MENU			
Software Version	Product On Time	Time: XXXXX(H)	Total time the device has been powered on.
Product On Time			
MAC Address	MAC Address	x:x:x:x:x	Displays MAC address
RDM UID	RDM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

WEB REMOTE CONFIGURATION

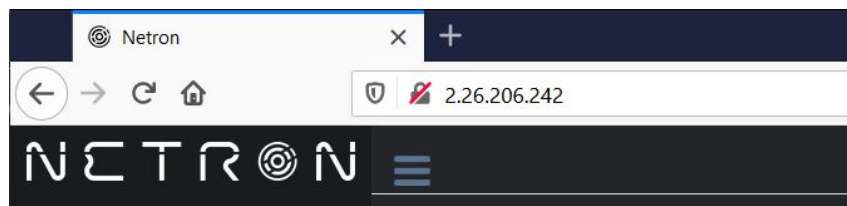
Ensure the device and a computer are in the same IP address range and connected.



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

Netron

Not Secure | 2.202.199.239/index.html

NETRON

- Presets
- DMX Ports
- Cues
- IP Settings
- Inputs
- System

Status

Info

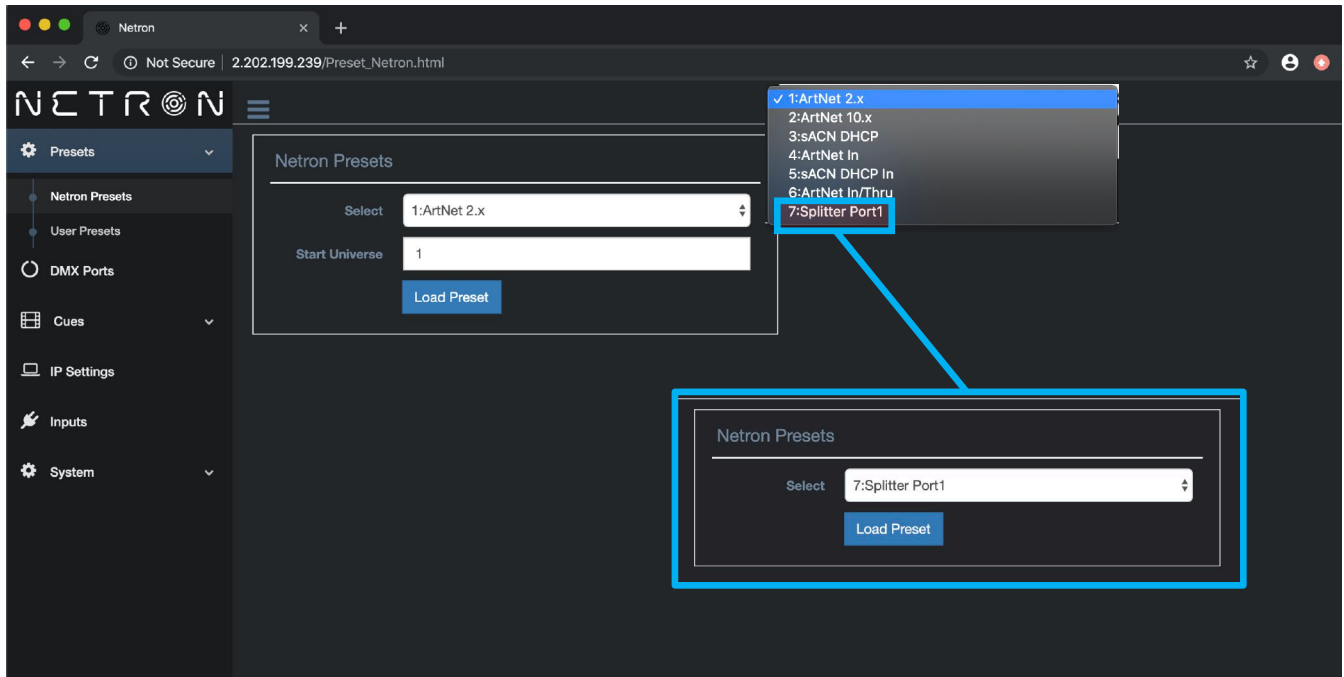
Device Type	NETRON EN4
Device Name	NETRON_EN4
IP Address	002.202.199.239
Net Mask	255.000.000.000

DMX Ports

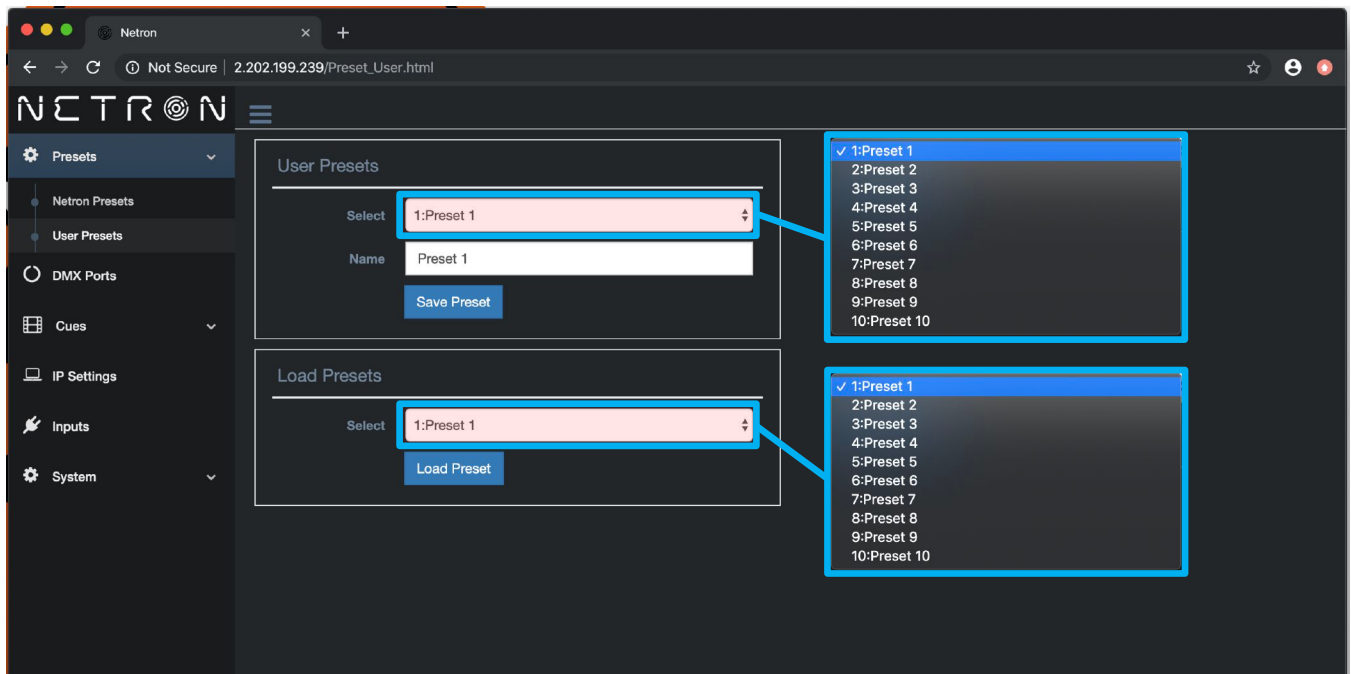
Port#	Mode	Protocol	Universe	Frame Rate	RDM
1	Output	Artnet	1	35Hz	Enable
2	Output	Artnet	2	35Hz	Enable
3	Output	Artnet	3	35Hz	Enable
4	Output	Artnet	4	35Hz	Enable

Device IP 002.202.199.239

WEB REMOTE MENU: PRESETS – NETRON PRESETS



WEB REMOTE MENU: PRESETS – USER PRESETS



WEB REMOTE MENU: DMX PORTS – OUTPUT

Netron

Not Secure | 2.202.199.239/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

Disable
Input
 Output
Send Value

ArtNet
sACN
None

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

OFF
HTP
LTP
Toggle

ArtNet
sACN
None

None
Port 2
Port 3
Port 4

Merge: HTP
LTP
Toggle

Merge Universe: 5

Resend Protocol: ArtNet
sACN
None

Resend Merge Universe:

DMX Range From: 1

DMX Range To: 512

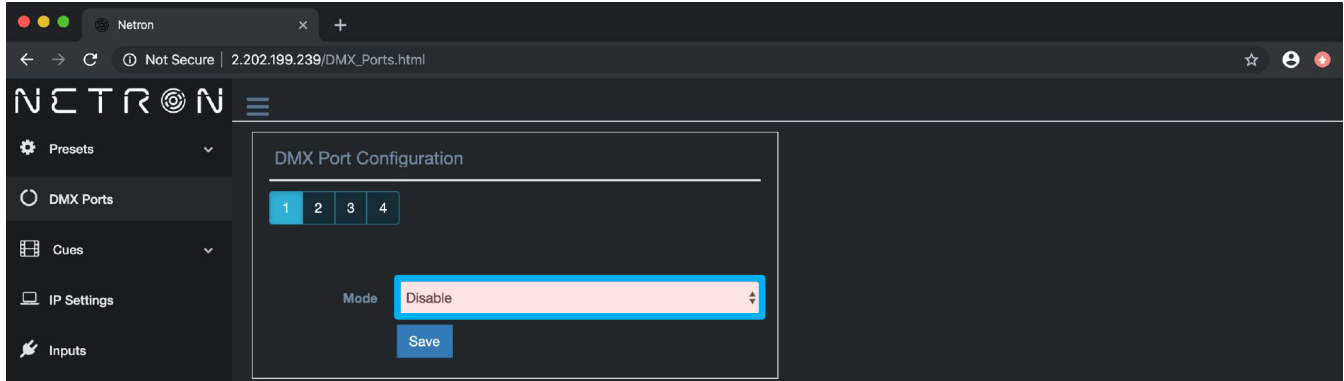
Offset Address: 1

Clone Port: None

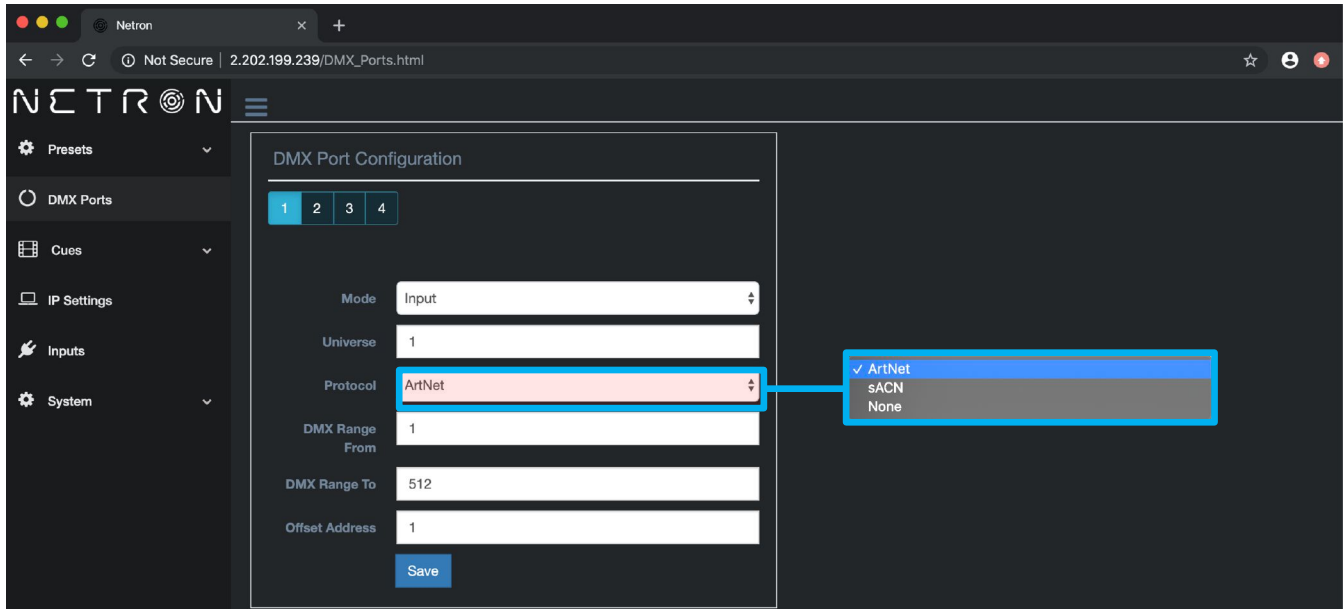
Save

None
Port 2
Port 3
Port 4

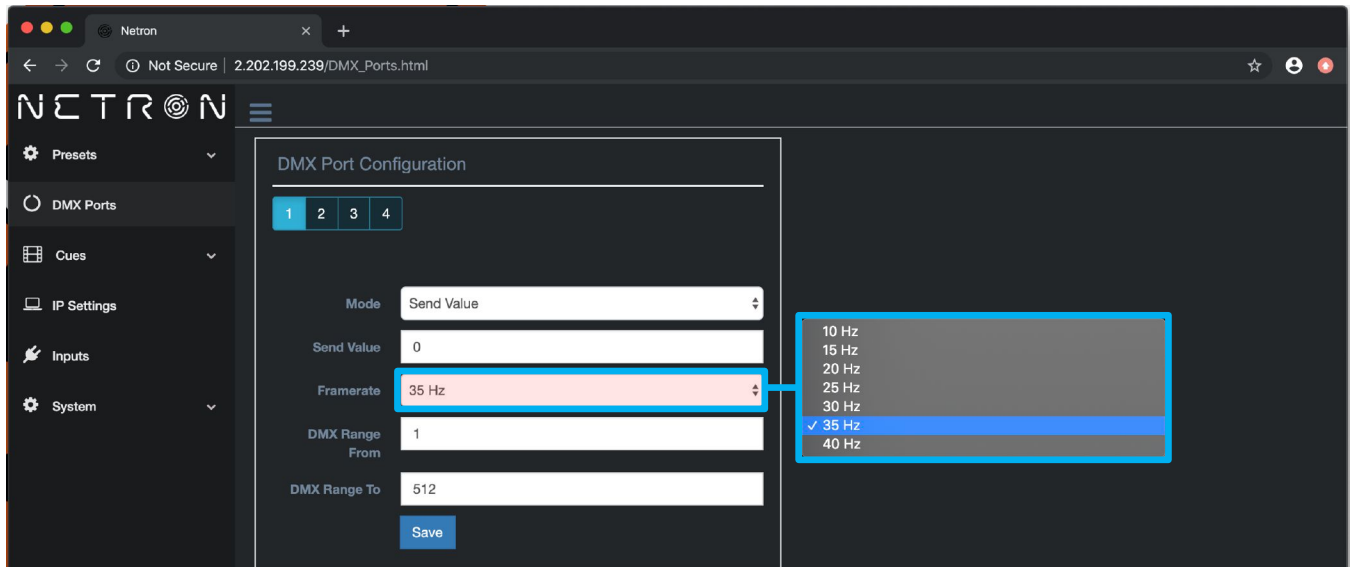
WEB REMOTE MENU: DMX PORTS – DISABLE



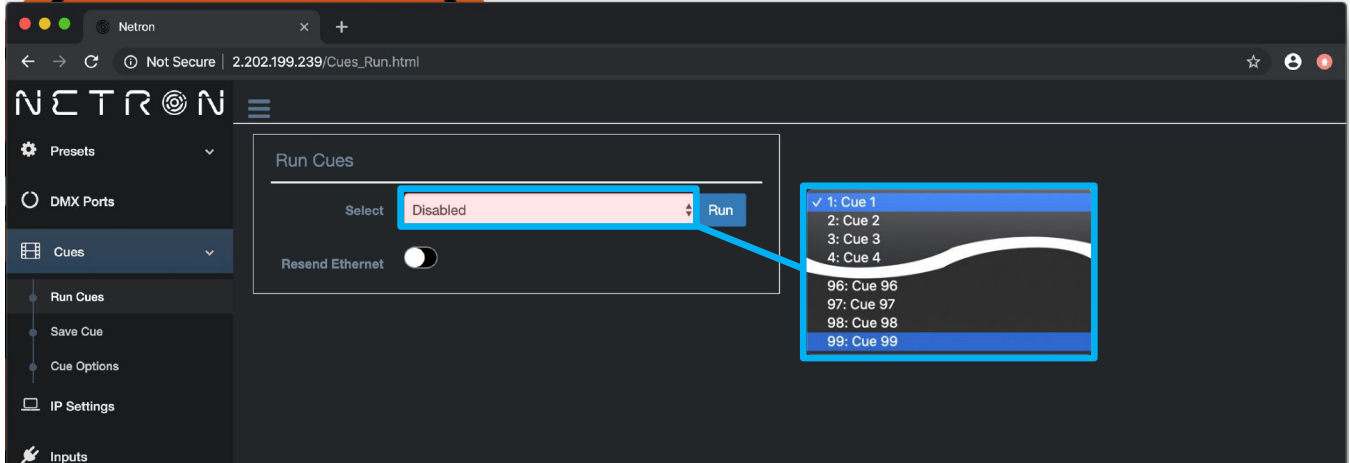
WEB REMOTE MENU: DMX PORTS – INPUT



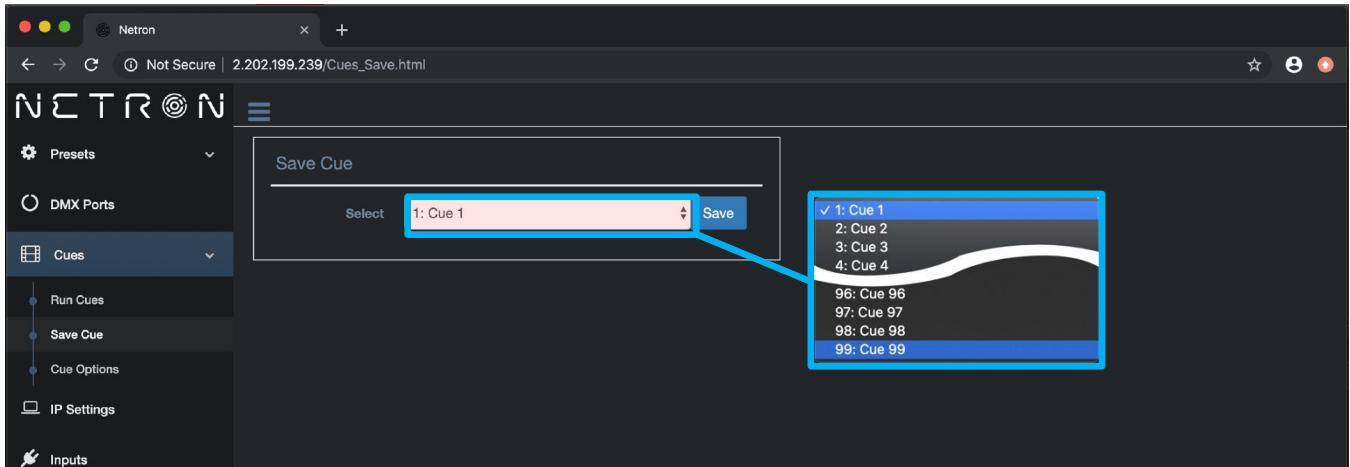
WEB REMOTE MENU: DMX PORTS – SEND VALUE



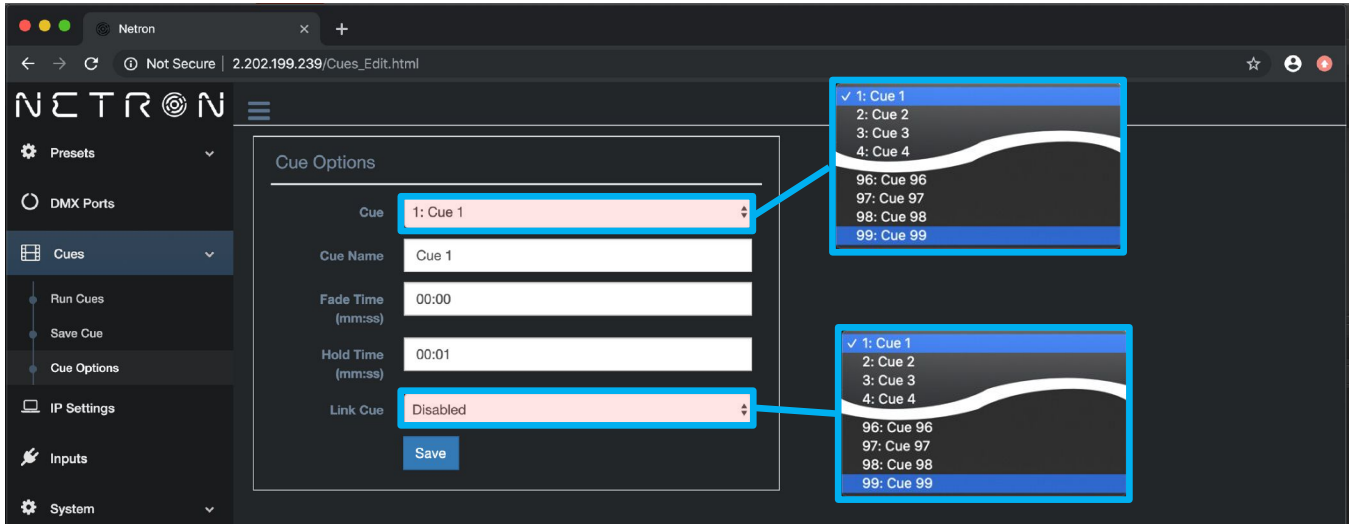
WEB REMOTE MENU: CUES – RUN CUES



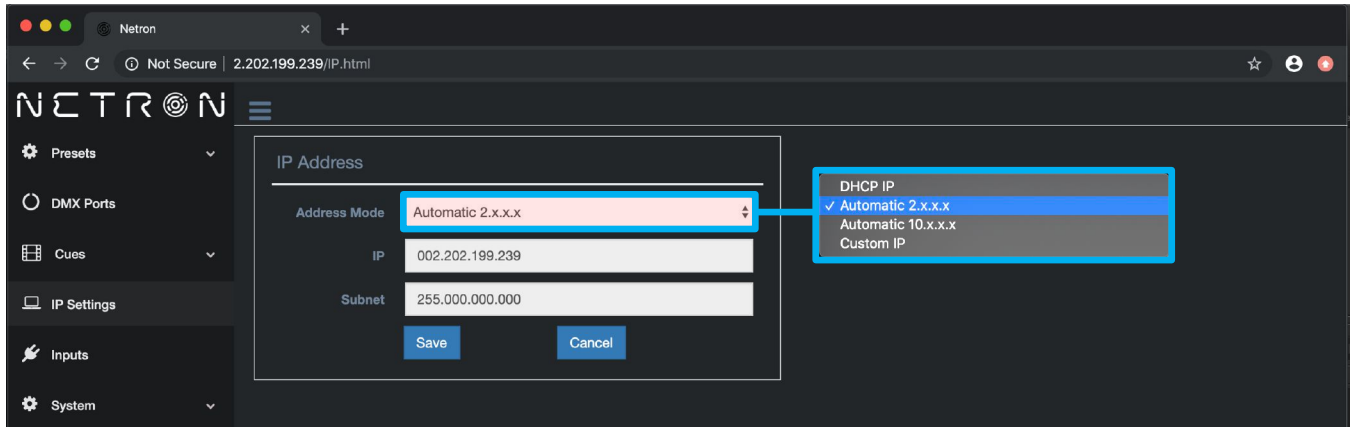
WEB REMOTE MENU: CUES – SAVE CUES



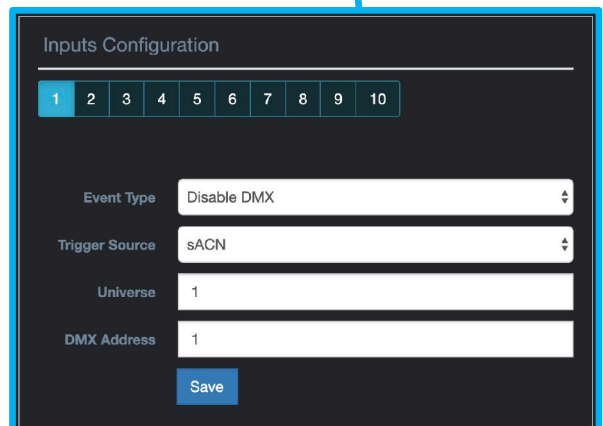
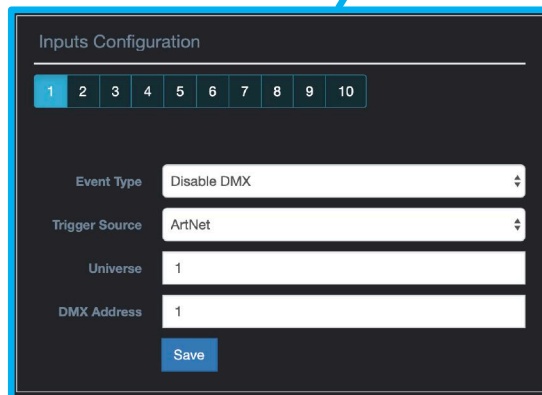
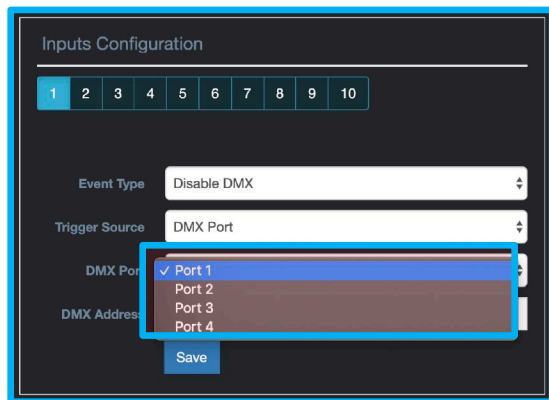
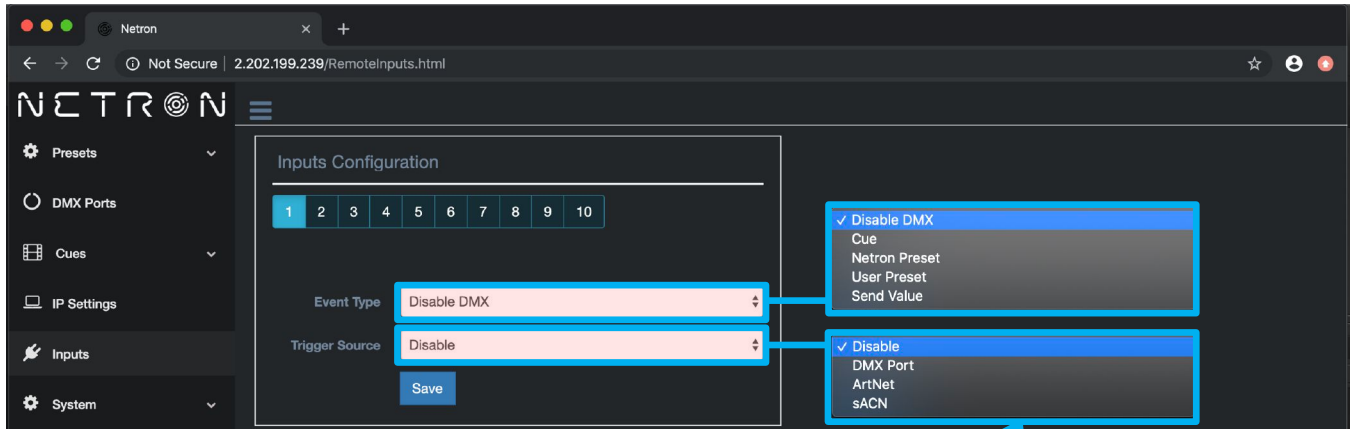
WEB REMOTE MENU: CUES – CUE OPTIONS



WEB REMOTE MENU: IP SETTINGS



WEB REMOTE MENU: INPUTS – DISABLE DMX



WEB REMOTE MENU: INPUTS - CUE

The screenshot shows the Netron web interface with the 'Inputs Configuration' menu open. The menu is titled 'Inputs Configuration' and has a sub-menu with options 1 through 10. The main configuration area includes fields for 'Event Type' (Cue), 'Cue Number' (0:No Cue), 'Cue Mode' (Trigger), 'Trigger Source' (sACN), 'Universe' (1), and 'DMX Address' (1). A 'Save' button is at the bottom. Callouts point to the following options:

- 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

This callout shows the top part of the 'Inputs Configuration' menu, including the sub-menu with options 1 through 10 and the 'Event Type' dropdown set to 'Cue'.

This callout shows the 'Trigger Source' dropdown menu with options: 'Dis', 'DMX Port', 'ArtNet', and 'sACN'. The 'sACN' option is selected.

This callout shows the 'Cue Mode' dropdown menu with options: 'Cue', 'Trigger', and 'DMX Port'. The 'Trigger' option is selected.

This callout shows the 'Cue Number' dropdown menu with options: '0:No Cue', 'Trigger', 'sACN', 'Universe', and 'DMX Address'. The '0:No Cue' option is selected.

WEB REMOTE MENU: INPUTS – NETRON PRESETS

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:sACN DHCP
- 4:ArtNet In
- 5:sACN DHCP In
- 6:ArtNet In/Thru
- 7: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 1

DMX Address:

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: 1

DMX Address: 1

Save

WEB REMOTE MENU: INPUTS – USER PRESETS

Netron

Not Secure | 2.202.199.239/RemotelInputs.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: sACN

Universe: 1

DMX Address: 1

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: Disable

Save

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 1

DMX Address: Port 2

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

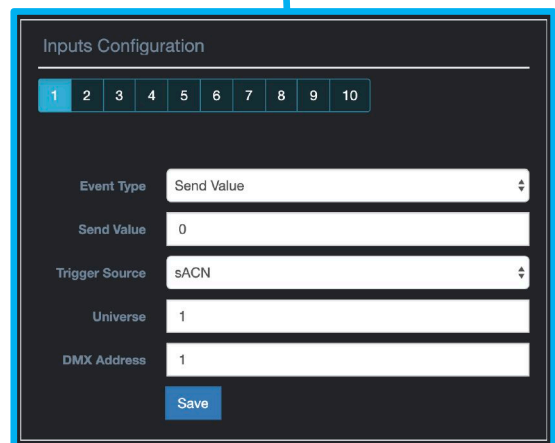
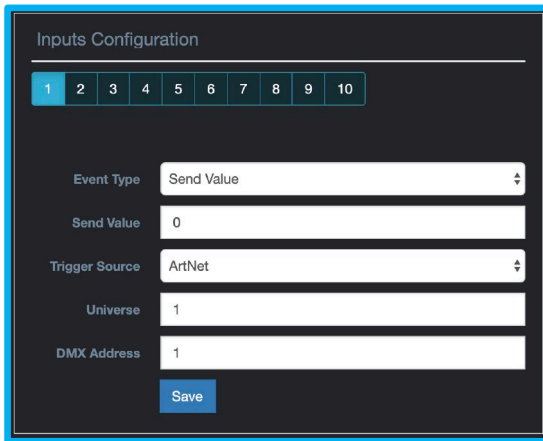
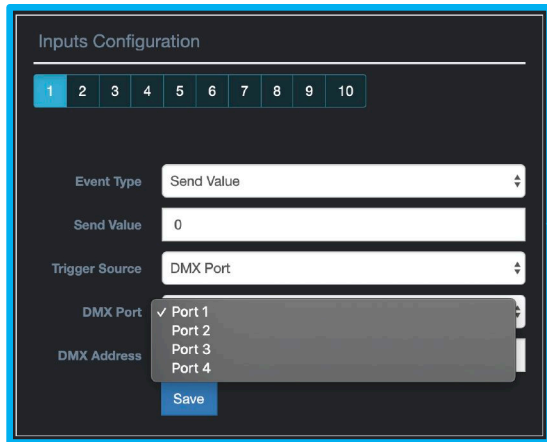
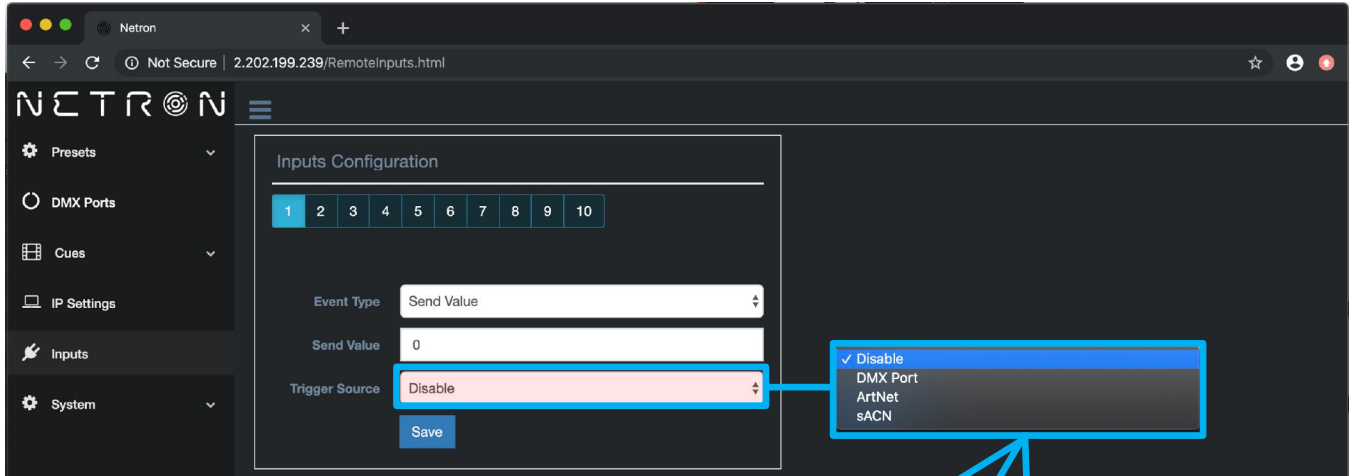
Trigger Source: sACN

Universe: 1

DMX Address: 1

Save

WEB REMOTE MENU: INPUTS – SEND VALUE



WEB REMOTE MENU: SYSTEM – DEVICE SETTINGS

Netron

Not Secure | 2.202.199.239/Settings.html

NETRON

Presets

DMX Ports

Cues

IP Settings

Inputs

System

Device Settings

Status

Maintenance

General

Device Name: NETRON_EN4

Device ID: 0

Display Timeout: Disable

Display Brightness: 10

LED Brightness: 10

Home Screen: Device Info

RDM Processing:

Use PIN:

PIN Number: 0

Signal Loss

Hold Timeout: Forever

Loss Mode: Disable DMX

Loss Cue: 0:No Cue

Fade Out (s): 30

Startup

Startup Mode: Wait For Data

Startup Cue: 0:No Cue

Save

Cancel

Device IP 002.202.199.239

Display Brightness: 4

LED Brightness: 6

Fade Out (s): 45

Startup

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 `2.202.199.239/Status.html`. The page title is "NETRON" and the main content is titled "Status". The left sidebar contains a navigation menu with the following items: Presets, DMX Ports, Cues, IP Settings, Inputs, System (selected), Device Settings, Status, and Maintenance. The main content area is divided into three sections: Device, IP Address, and Firmware.

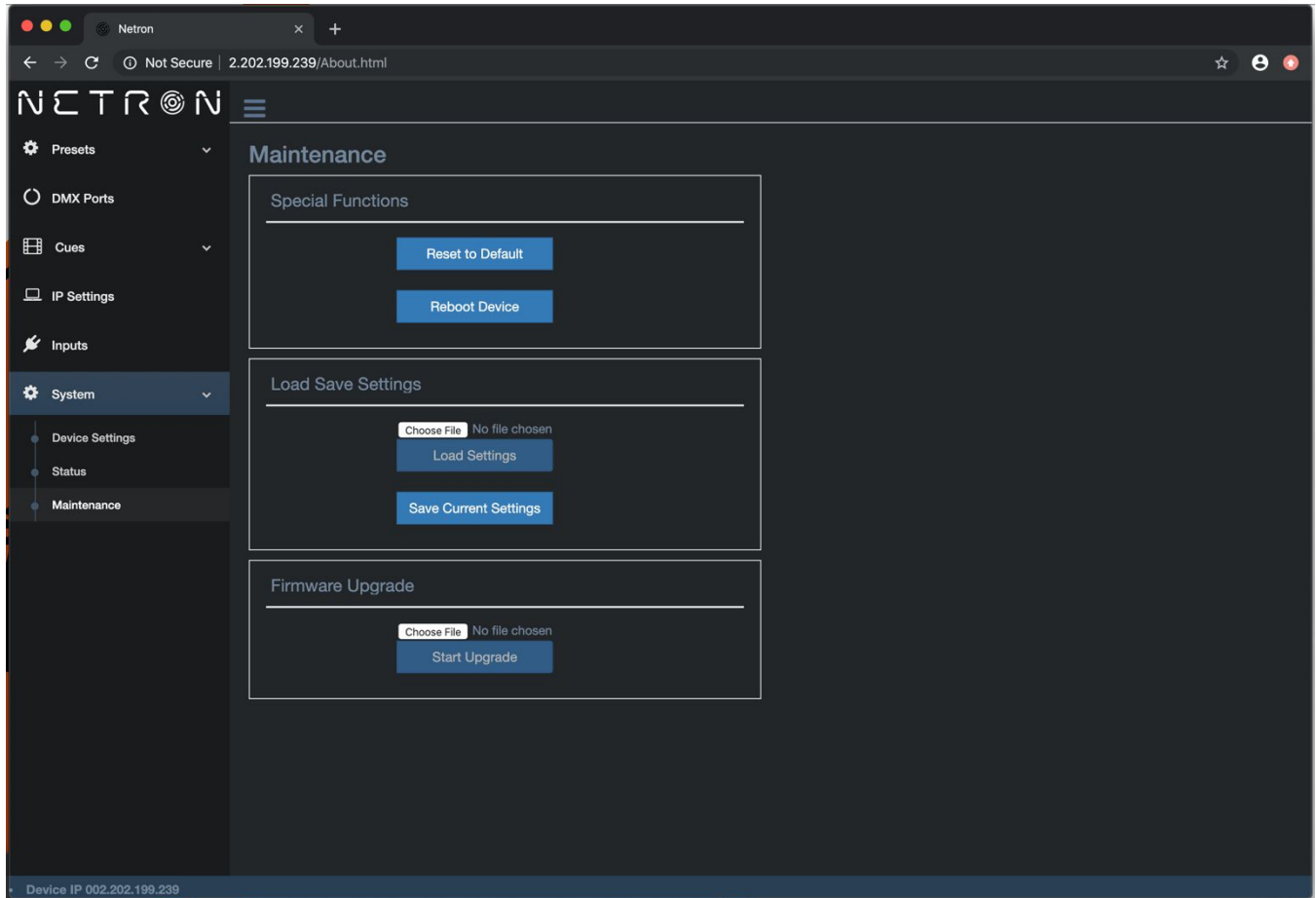
Device	
Device Type	NETRON_EN4
Device Name	NETRON_EN4
Mac Address	42:4C:DA:80:C7:EF
RDM UID	0x22A6-DD1E6509
On Time	00020(H)

IP Address	
Address Mode	2.X.X.X
IP Address	002.202.199.239
Net Mask	255.000.000.000

Firmware	
Bootware Version	V1.4
Firmware Version	V1.6

Device IP 002.202.199.239

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.

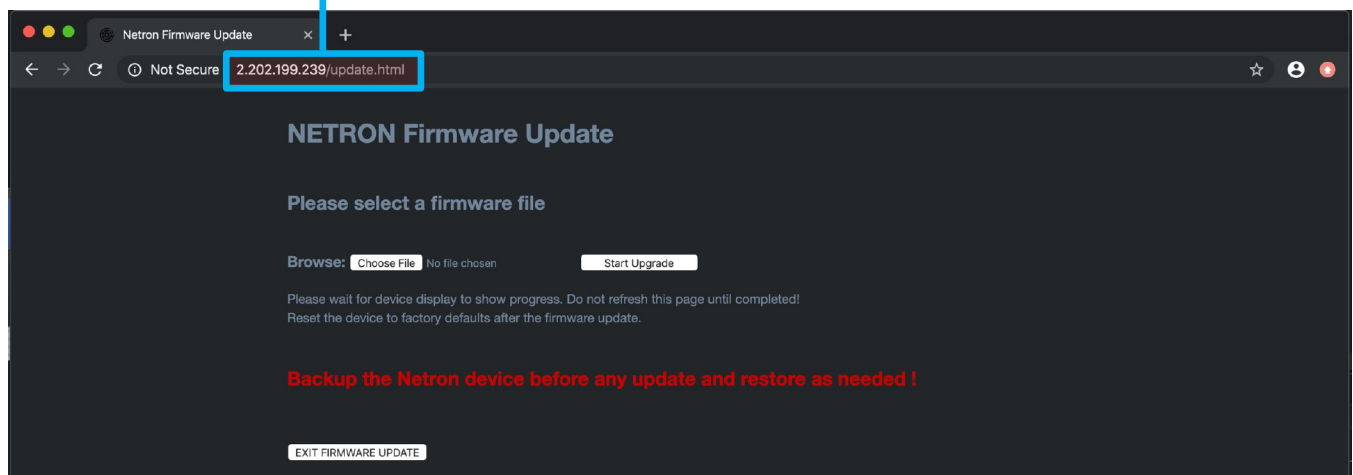
Always back up the configuration first. Export to a file using the web interface.

- 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.



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