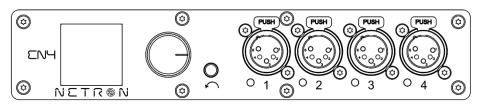
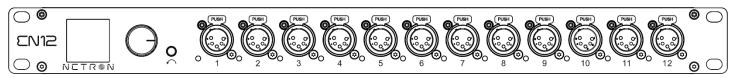
\square 3 5 1 \square 1 \wedge \wedge

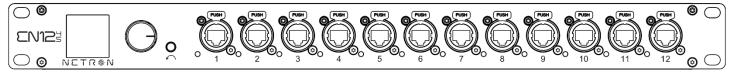
CONTROL SYSTEMS



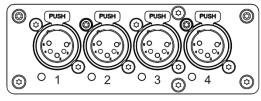
$\mathsf{E} \mathsf{N} \mathsf{A}$



\square



EN13



 $\mathsf{E} \mathsf{P} \mathsf{H}$

NETR®N 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 for the latest revision/update of this document before beginning installation and use.

	Document Version	Note
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
		Updated Firmware to V2.6 for
02/02/21	3.5	EN4, EN12, EP4; & updated
		silkscreens for EN4 & EN12
03/29/21	4.0	Added EN12-45

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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 <u>forum.obsidiancontrol.com</u> 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

OBSIDIAN CONTROL SERVICE USA - Monday - Friday 08:30 to 17:00 PST (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, 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

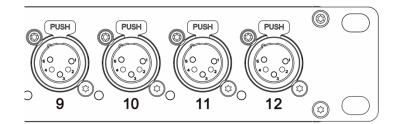
DMX CONNECTIONS (EN12)

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						

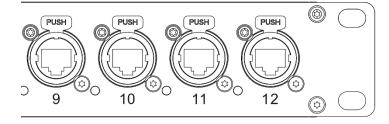


DMX CONNECTIONS (EN12-45)

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 5-Pin DMX/RDM optically isolated port **OLED Display** PUSH (\$\frac{1}{2}\) PUSH PUSH PUSH ENJ2 NETR®N Turn to scroll, push-to-select DMX Port Status Indicator LED

Menu return button

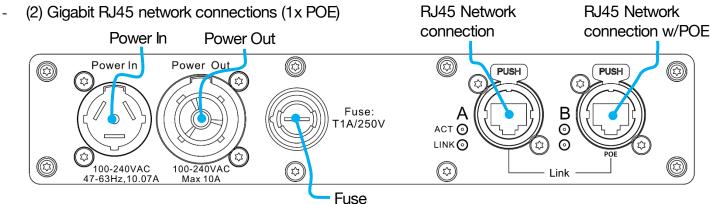
DMX PORTS STATUS INDICATOR LEDs

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

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

REAR CONNECTIONS

Power In/Thru

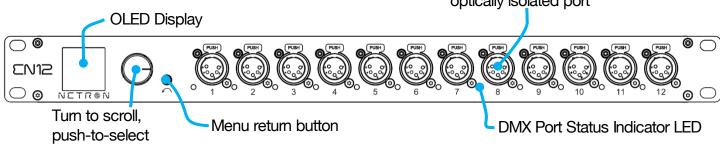


CONNECTIONS: EN12 (FRONT & REAR PANELS)

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

5-Pin DMX/RDM optically isolated port



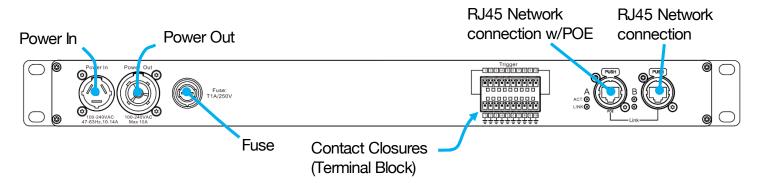
DMX PORTS STATUS INDICATOR LEDs

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

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

REAR CONNECTIONS

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

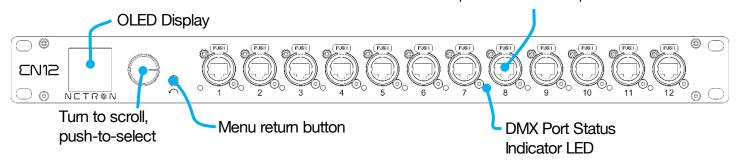


CONNECTIONS: FRONT & REAR PANELS EN12-45

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

Locking RJ45 Ethernet Opto-Isolated DMX Outputs



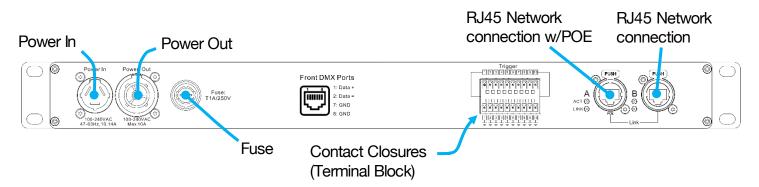
RJ45 PORTS STATUS INDICATOR LEDs

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

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

REAR CONNECTIONS

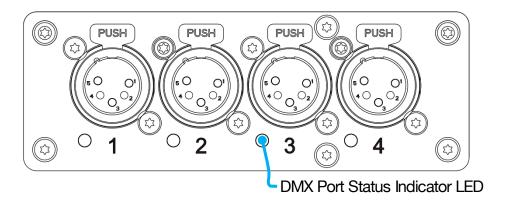
- (2) RJ45 network connections (1x POE)
- (10) Contact Closures (Terminal Block)



CONNECTIONS: EP4 (FRONT & REAR PANELS)

FRONT CONNECTIONS

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



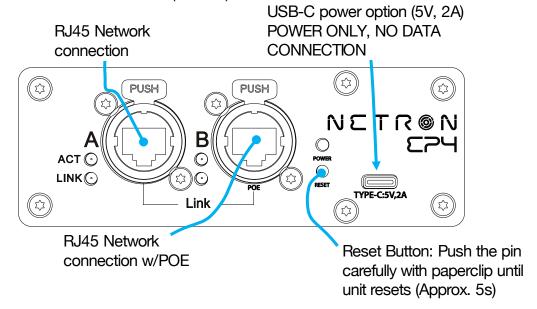
DMX PORTS STATUS INDICATOR LEDs

Ports	LED Color	Solid	Blink	Flashing/Strobing
DMX	RED	Error		
DMX	GREEN	DMX In	DMX Lost	
DMX	BLUE	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

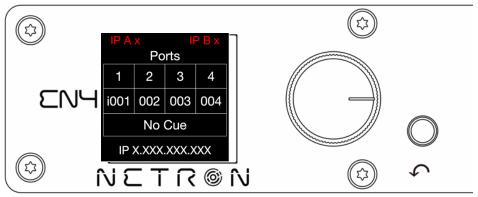
- USB-C power option (5V, 2A). POWER ONLY, NO DATA CONNECTION
- (2) Gigbabit RJ45 network connections (1x POE)



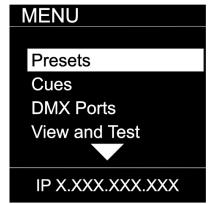
MENU: NAVIGATION

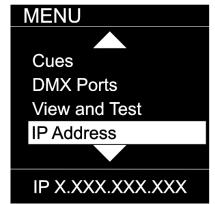
The Netron devices use a small OLED display for feedback and setup. The encoder dials up and down through the menu, a push of the encoder selects an item or saves an entry. Revert to a previous menu or cancel an entry with a single push of the back arrow.





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.					
	Go up one level in menu tree, cancel change of values, hold for 2 seconds to return to home screen					



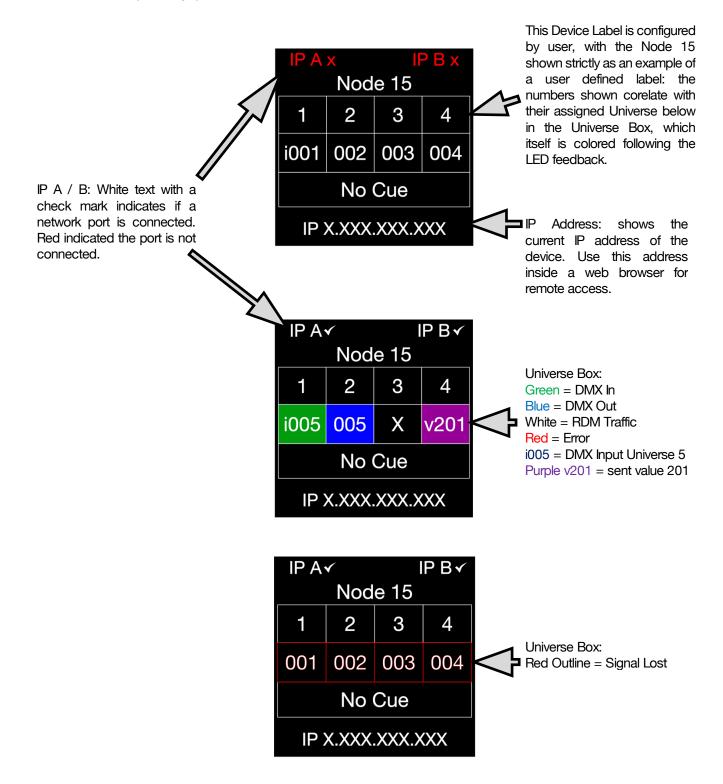




As you scroll up or down the menu, the arrows indicate that more items are available above or below that which is displayed, and only show when needed.

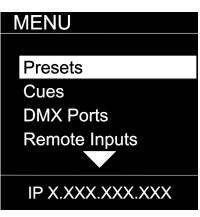
MENU: HOME SCREEN

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



MENU: PRESETS

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



SUB MENU	O	PTION / VALU	ES	DESCRIPTION
	1 :ArtNet 2.x	Universe 1 – 327	67	
MENU	2 :ArtNet 10.x	Universe 1 - 327	67	
	3 :ArtNet 192.x	Universe 1 - 327	67	
	4. ArtNet 172.x	Universe 1 – 327	67	
NETRON Presets	5. ArtNet DHCP	Universe 1 – 327	67	
USER PRESETS	6. ArtNet In	Universe 1 – 327	67	
332.111123213	7. :ArtNet In/Thru	Universe 1 – 327	67	See NETRON Presets
	8. sCAN 2.x	Universe 1 – 327	67	- COC NETHON TICSUS
	9. sCAN 10.x	Universe 1 – 327	67	
	10. sACN 192.x	Universe 1 – 327	67	
	11. :sACN 172.x	Universe 1 – 327		
IP X.XXX.XXX.XXX	12. sACN DHCP	Universe 1 – 327		
11 74.7004.7004.7004	13. sACN DHCP In	Universe 1 – 327	67	
	14. :Splitter Port1		T	
MENU			Preset Saved	
		Load Preset	Preset Loaded	
NETRON B				
NETRON Presets				
USER PRESETS	1 :MyPreset 1			
		Rename Preset	12 Character Label	
		Tionamo Tiodot	TE CHARACTOR EADOR	
IP X.XXX.XXX				

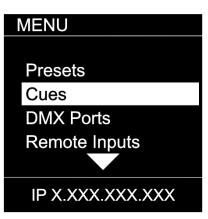
MENU: NETRON PRESETS

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	Ethen	net	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
	1			X	Х	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
Artnet 192.x	Automatic 192.x	255.0.0.0	Artnet	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
				X	Х	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 172.x	Automatic 172.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 DHCP	DHCP	DHCP	Artnet	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
			DDM	Х	X	X+1	X+2	X+3	X+4	X+5	X+6	X+7	X+9	X+10 Yes	X+11	X+12
	I	255 2 2 2	RDM	"	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Artnet In	Automatic 2.x	255.0.0.0	Artnet	Universe # X	Input X	Input X+1	Input X+2	Input X+3	Input X+4	Input X+5	Input X+6	Input X+7	Input X+9	Input X+10	Input X+11	Input X+12
	1			^	1 ^	Λ+ I	X+2	X+3	A+4	X+3	X+0	\	X+3	X+10	A+11	Λ+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	Х	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	Output
				X	Х	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	Output
				X	Χ	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	Output
				X	Х	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					<u> </u>					L	<u> </u>	
sACN 172.x	Automatic 172.x	255.0.0.0	sACN	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
	1			Х	Х	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	Output
				X	Х	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								<u> </u>				
sACN DHCP In	DHCP	DHCP	sACN	Universe #	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input
	•			Х	Х	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								
	1	1	, , , , , , ,		Х	Clone 1	Clone 1	Clone 1								
						3.0.10 1	3.0.10 1	3.5.10 1	J.C. 10 1	. 0.0/10 1	1 2.0/10 1	, 5.0.10 1	, 5.5.10 1	, 0.0110 1	, 5.5/10 1	0.0.10 1

MENU: CUES

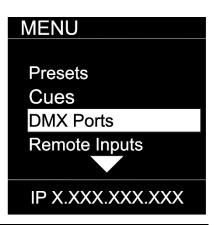
A cue is a full static snapshot of all DMX values of all ports. The device supports 99 cues with fade and hold times, plus a link option to loop multiple cues together. This allows small "mini" cuelists to be created. Cues are used for standalone operation, as a backup for signal loss or can be assigned 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		OF	PTIONS /	VALUES	DESCRIPTION
MENU	Run Cue	1 – 99	Go/Off		Select the desired cue
Run Cue Save Cues Rename Cue Link Cues	e e	1:Cue 1 99:Cue 99	Save Cue? Yes/No		Save all values on all ports to a cue slot
IP X.XXX.XXXX	Rename Cue	1 – 99	12 Character Label		Edit name of cue
Save Cues Rename Cue Link Cues	Link Cues	1 – 99	Hold Time	0s - 99.59min 0s - 99.59min Disable, 1 - 99	Set the fade time of the cue Set the time to hold the cue until the next cue is started Set the next Cue
Resend Ethernet		Disable			Cue data is not sent over Ethernet
IP X.XXX.XXX	Resend Ethernet	Enable			Cue data is sent on the Universe number and protocol assigned to the ports.

MENU: DMX PORTS

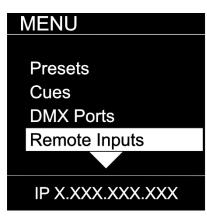
Select a port number to adjust its settings. Depending on the Mode, certain options are not relevant and hidden from the display or web interface.

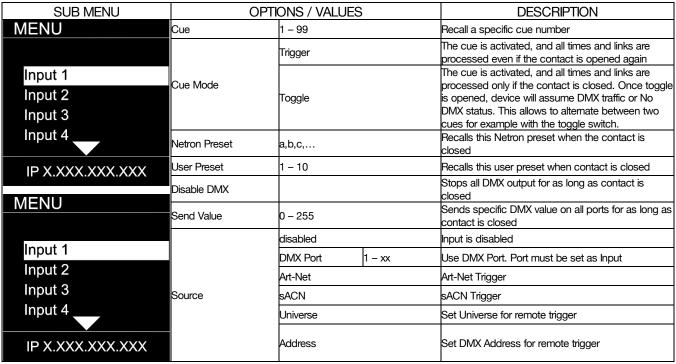


SUB MENU	OPTIONS / VALUES			DESCRIPTION		
		Disable		The port is disabled.		
	Mode	Input		The port receives DMX values and assigns them to the selected Universe.		
		Output		The port sends out DMX Values on the selected Universe		
		Send Value	0 – 255	Send a static DMX value		
	Universe	1 – 32767		Select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





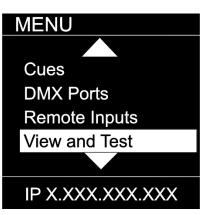
DMX Map for Remote Trigger

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



SUB MENU		OPT	IONS / VALUE	Description	
		View	Port 1 – 4	View the DMX values of a specific port	
	≥	Б	From: 1 – 512	default 1	
	Şie	Range	To: 1 – 512	default 512	
MENU	DMX View	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	_	Universe	1 - 32767	View a specific Art-Net Universe	
	<u>ie</u>	Range	From: 1 – 512	default 1	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	narige	To: 1 – 512	default 512	
DMX View	Art-Net View			Start Monitoring Values. Use Encoder to dial to the desired	
Art-Net View	₹	Start Monitor		DMX address. Push Encoder to change display readout	
				style (Grid, List, Address)	
sACN View	_	Universe	1 – 32767	View a specific sACN Universe	
DMX Port Test	<u>ie</u>	Range	From: 1 – 512	default 1	
	>	90	To: 1 – 512	default 512	
	sACN View	Start Monitor Output		Start Monitoring Values. Use Encoder to dial to the desired	
IP X.XXX.XXX	/s			DMX address. Push Encoder to change display readout	
			D 14 4	style (Grid, List, Address)	
MENU	, t		Port 1 – 4	Send generator values on specific port	
	ĕ	Range	All Ports	Send generator values on all ports	
	Ę.		From: 1 – 512	default 1	
sACN View	Υ		To: 1 – 512	default 512	
DMX Port Test	DMX Port Test	Speed	1 – 10, Manual	Select the speed of generator	
Art-Net Test		Universe	1 – 32767	Select Art-Net Universe	
	est	Range	From: 1 – 512	default 1	
sACN Test	ļ.		To: 1 – 512	default 512	
IP X.XXX.XXX	Art-Net Test	Speed	1 – 10, Manual	Select the speed of generator	
	+	Universe	1 – 32767	Select sACN Universe	
	les!	Range	From: 1 – 512	default 1	
	Ż		To: 1 – 512	default 512	
	sACN Test	Speed	1 – 10, Manual	Select the speed of generator	

MENU: VIEW AND TEST (continued)

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

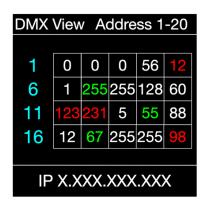
The monitoring options are helpful to find faults, or simply watch incoming traffic. Three styles are available by clicking the encoder wheel. Dial the wheel to change the display to the desired address, and exit the monitor with the back button.

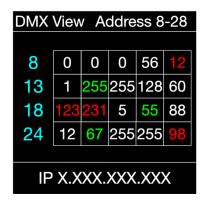
DMX Test Display - Grid

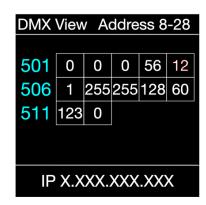
The color coding helps to quickly identify changing DMX values.

Cyan: DMX Address
Green: Value Decreased
Red: Value Increased

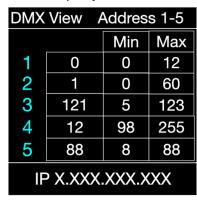
White: Value stable (after 10 seconds)



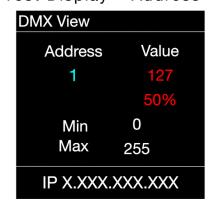




DMX Test Display - Line

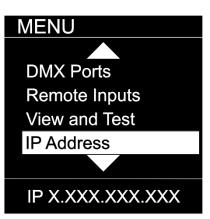


DMX Test Display - Address



MENU: IP ADDRESS

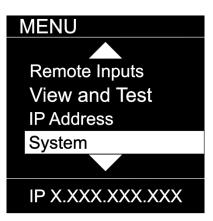
Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For Art-Net systems, it should never be necessary to adjust this IP. Any custom address and subnet can be assigned so the node can operate within 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	
				The device waits for a DHCP server address	
MENU	DHCP IP			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	
Automatic 2.X		IP Address	x.x.x.x		
Automatic 10.x Custom IP	Custom IP	Subnet Mask	x.x.x.x	Assign any desired numbers. The device does not check the validity of address and subnet values.	
IP X.XXX.XXX.XXX	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		12 Character Label			Set a device name	
MENU	Device ID	0 – 999			Set an optional device ID	
Davies Name		Display Timeout	Disable	, 1m, 5m, 10m	Display stays on indefinitely Display goes dark after this time	
Device Name Device ID	>	Screen Brightness	1-10		Adjust the brightness of the internal display	
Display	Display	LED Brightness	0-10		Adjust the brightness of the front LEDs. Set to 0 to disable them.	
ArtNet Start		Home Screen	Device Info Cue Browser		The display shows port and connectivity information The display shows a list of stored cues which can easily be	
IP X.XXX.XXX.XXX	ArtNet Start	Universe 0 Universe 1			browsed and started by the encoder wheel Universe 1 is sent to Art-Net 0-0 Universe 1 is sent to Art-Net 0-1	
MENU			Lock	Disable	The device does not require a pin	
	evice			Timeout	The device asks for a pin after the display times out	
Lock Device Startup	Lock Device	PIN: 000 (011)	Manual Lock: 000 (011)	Lock / Unlock	Lock the device immediately	
Signal Loss		Cue			Run a specific Cue at startup	
Backup Config	Startup	Wait for Data	t 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	
IP X.XXX.XXX.XXX		Send 0				
MENU	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.	
	na	Fade to 0	0-60s (30s)		Crossfade to DMX 0. Set to 0s for instant out.	
Signal Loss	SS	Cue	No Cue		Start Cue X	
Backup Config	0.0	Disable DMX Save Config	Config S	aved	DMX traffic is turned off on all ports Save current configuration including all cue data	
RDM Processing	Backup Config	Load Config	Config Saved Config Loaded		Reload configuration. Backups can be exported and imported from the web interface	
Factory Reset	ng	All Disable			Disables RDM processing on the device	
IP X.XXX.XXX	RDM Processing	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.	
	Factory	Pin: 000 (007)	Confirm	Device will be reset to User Preset 1. Yes/No	Reset the device to User Preset 1.	

MENU: INFORMATION

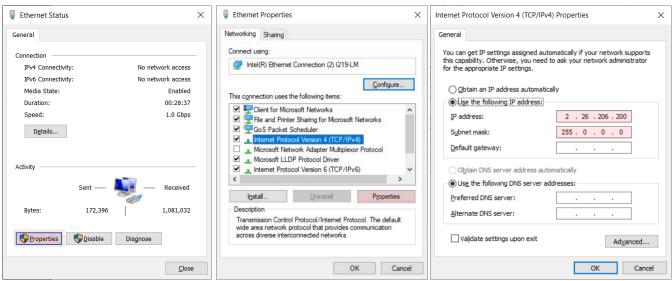
This menu provides information about the device.



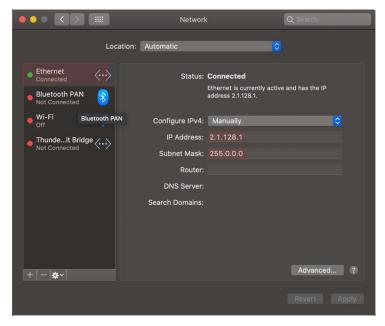
SUB MENU		OPTIONS / VALUES	DESCRIPTION	
MENU	Software Version	Boot SW V# Firmware: V#	Display the current software version	
Software Version Product On Time MAC Address RDM UID	Product On Time	Time: XXXXX(H)	Total time the device has been powered on.	
IP X.XXX.XXXX AI		xxxxxx	Displays MAC address	
	RDM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

WEB REMOTE CONFIGURATION

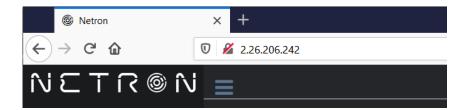
Ensure the device and a computer are do not share IP address, but are in the same IP address range and connected.



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



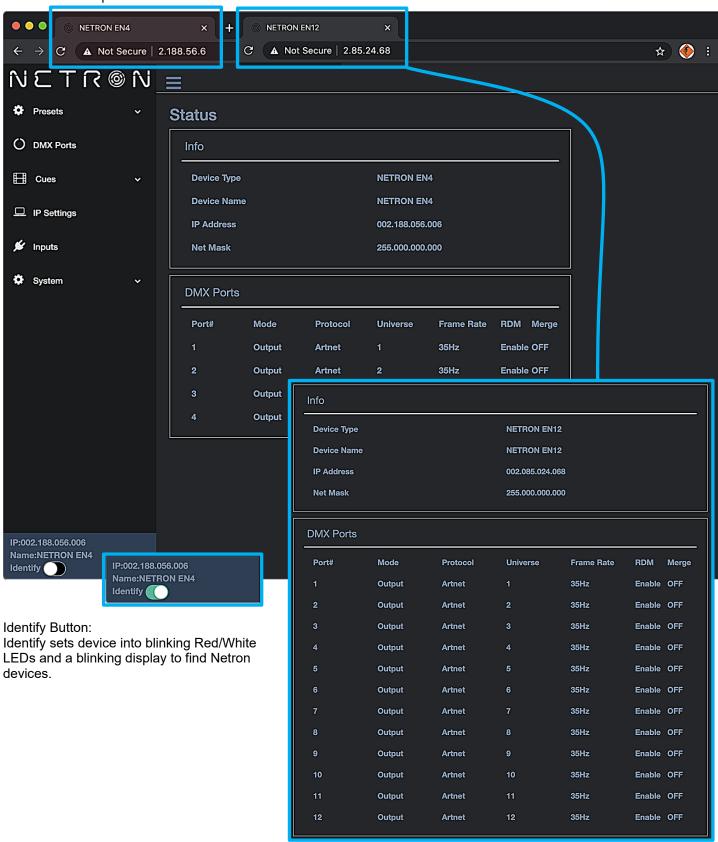
MAC OS Configuration Sample: Please note your MAC OS configuration results may vary.



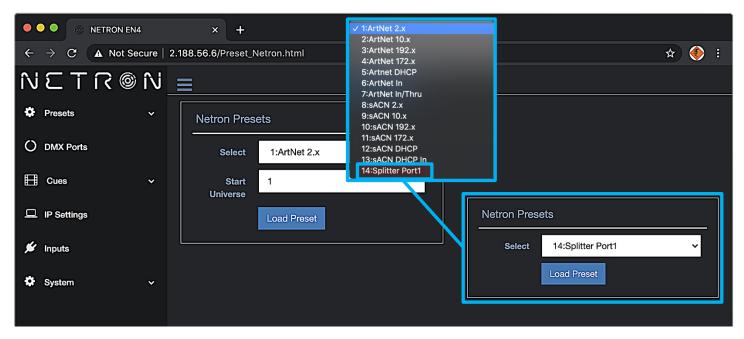
Browser Sample: Enter the device IP address into a web browser to access the device page.

WEB REMOTE MENU: HOMEPAGE

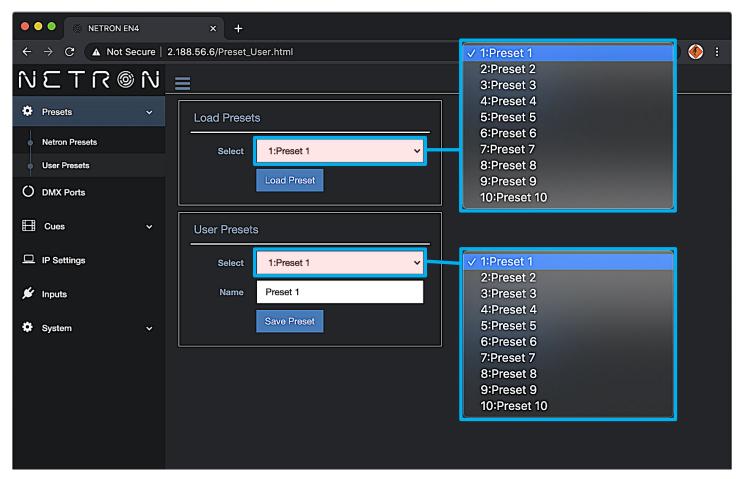
Please note that Netron devices are not compatible with Microsoft Internet Explorer. Also, the antivirus software AVAST is known to block important communication with NETRON, and must be disabled for the web interface and firmware updates to function.



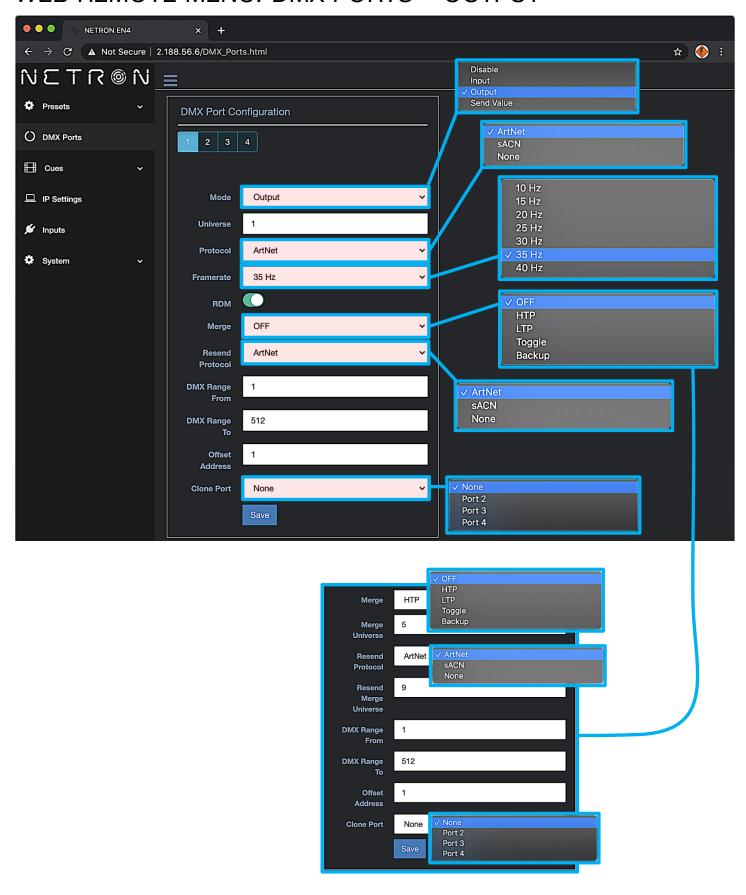
WEB REMOTE MENU: PRESETS - NETRON PRESETS



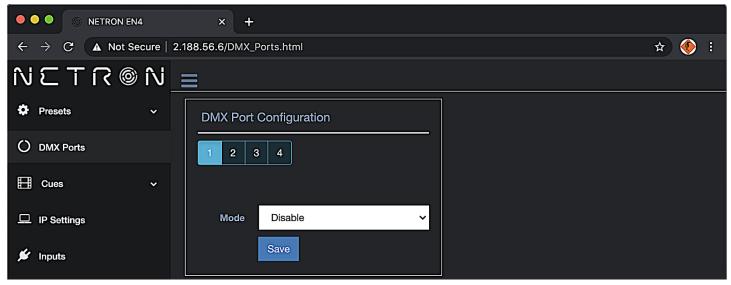
WEB REMOTE MENU: PRESETS - USER PRESETS



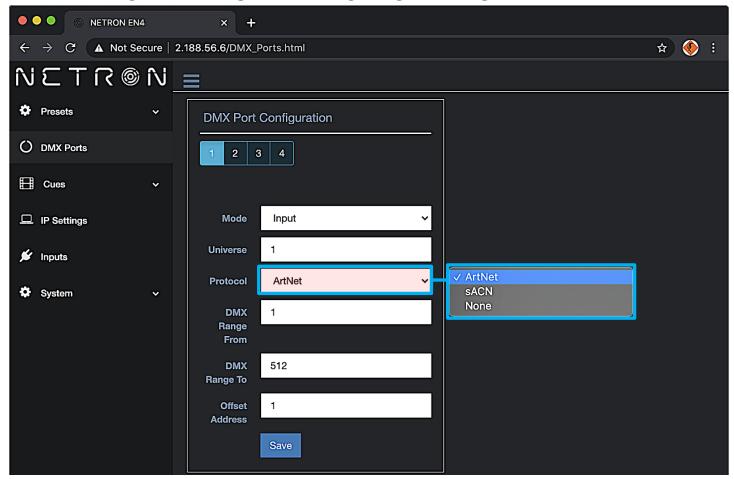
WEB REMOTE MENU: DMX PORTS - OUTPUT



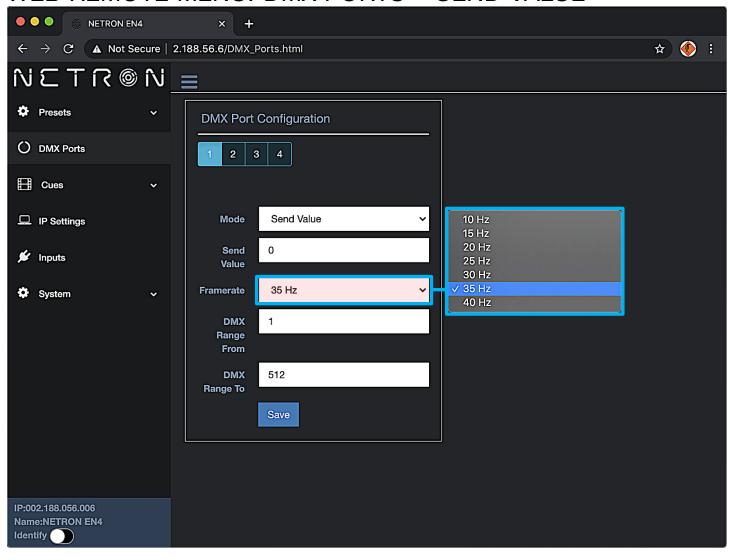
WEB REMOTE MENU: DMX PORTS - DISABLE



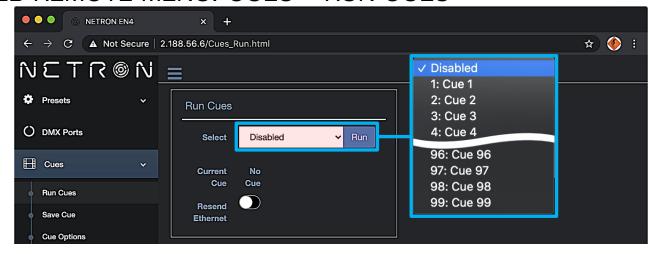
WEB REMOTE MENU: DMX PORTS - INPUT



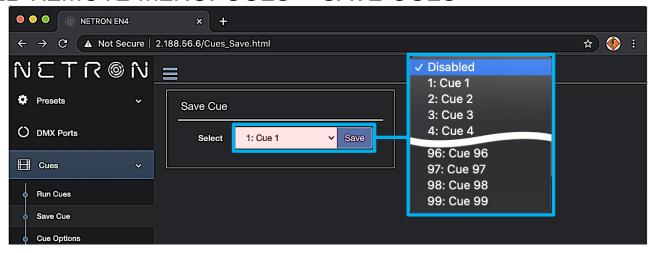
WEB REMOTE MENU: DMX PORTS - SEND VALUE



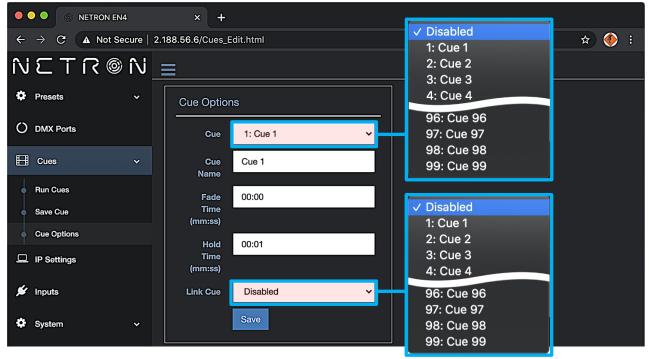
WEB REMOTE MENU: CUES - RUN CUES



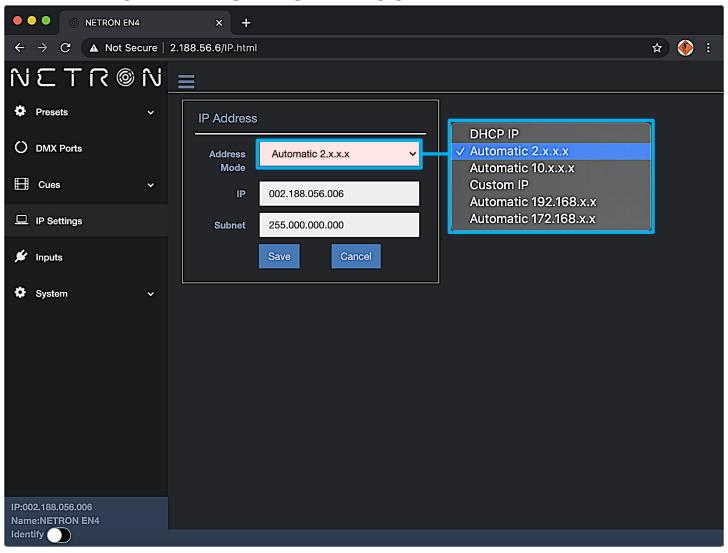
WEB REMOTE MENU: CUES - SAVE CUES



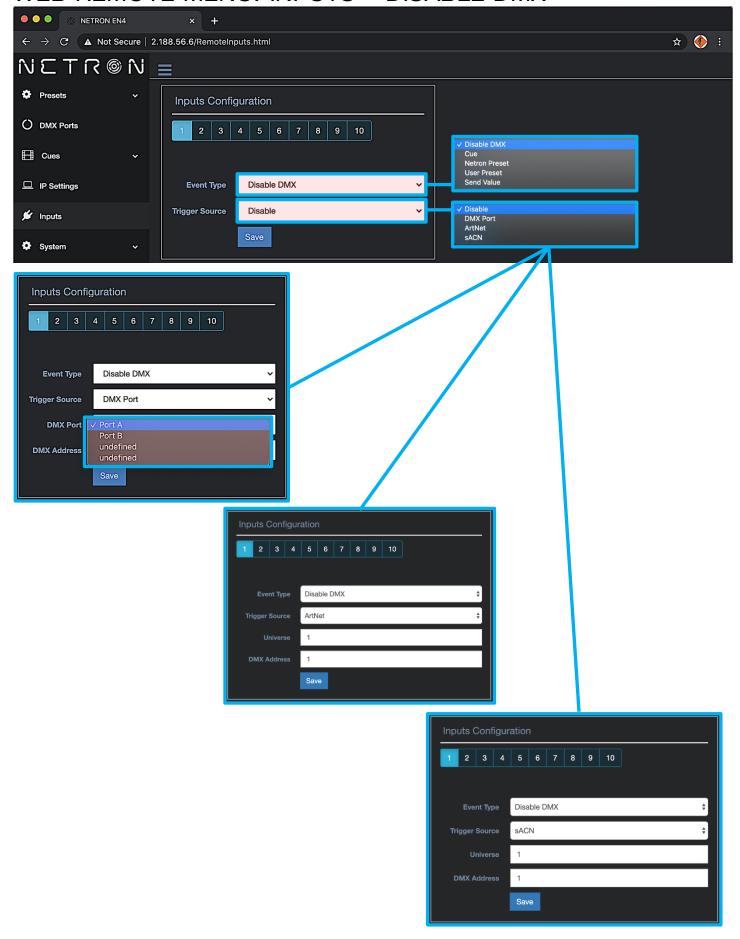
WEB REMOTE MENU: CUES - CUE OPTIONS



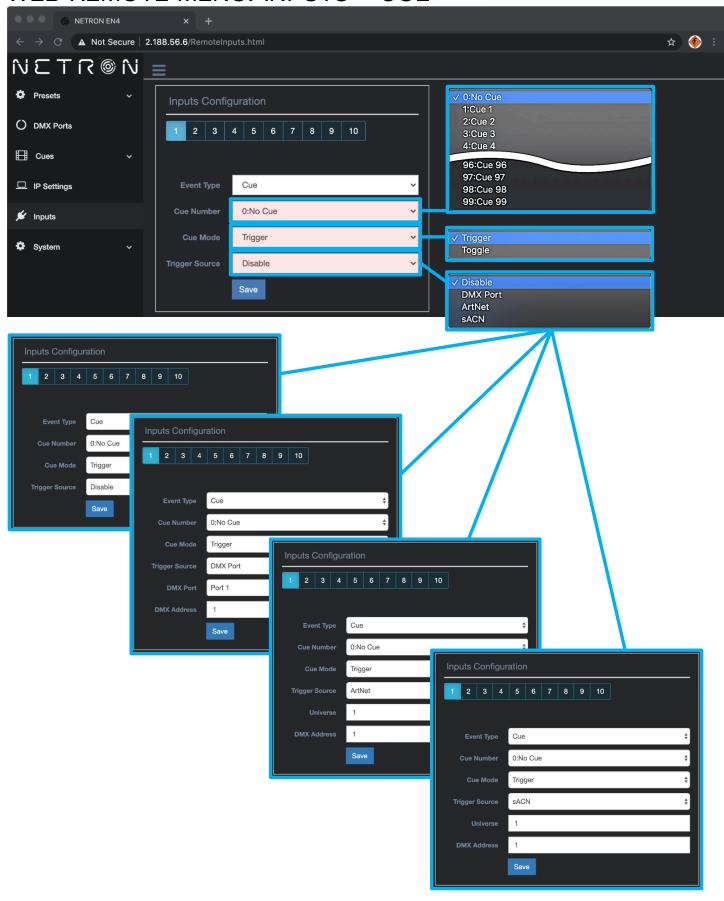
WEB REMOTE MENU: IP SETTINGS



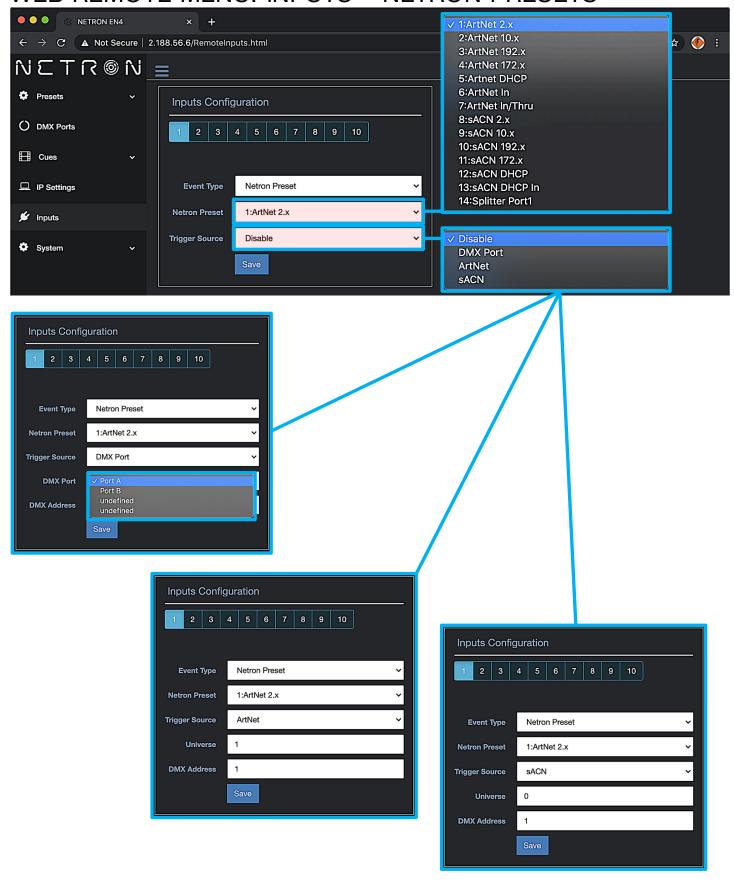
WEB REMOTE MENU: INPUTS - DISABLE DMX



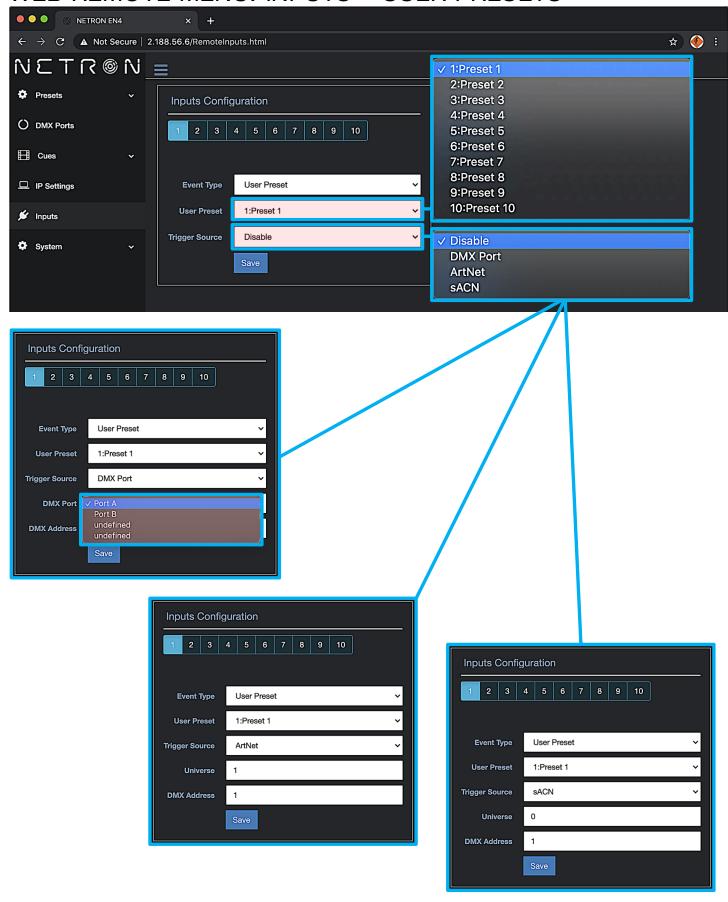
WEB REMOTE MENU: INPUTS - CUE



WEB REMOTE MENU: INPUTS - NETRON PRESETS



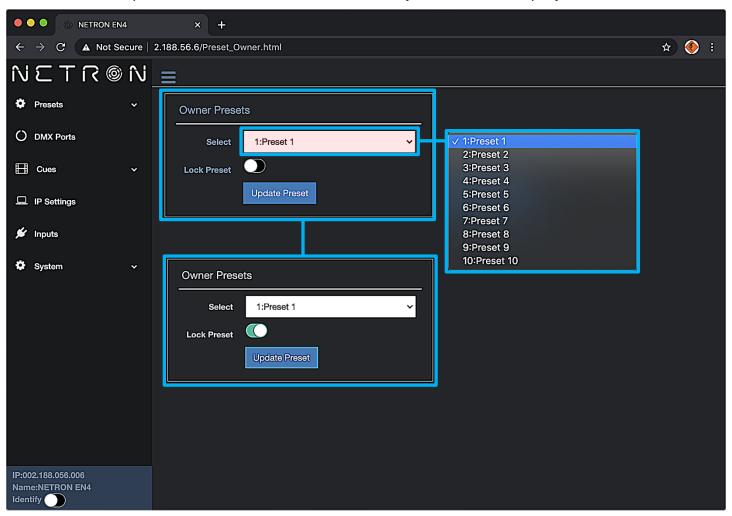
WEB REMOTE MENU: INPUTS - USER PRESETS



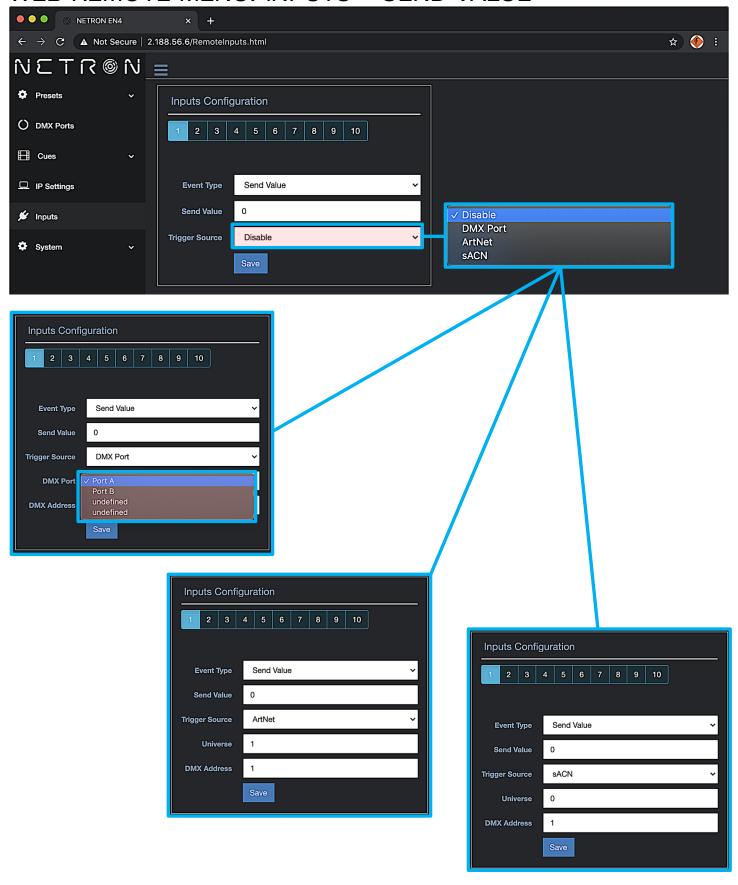
WEB REMOTE MENU: INPUTS - OWNER PRESET

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.

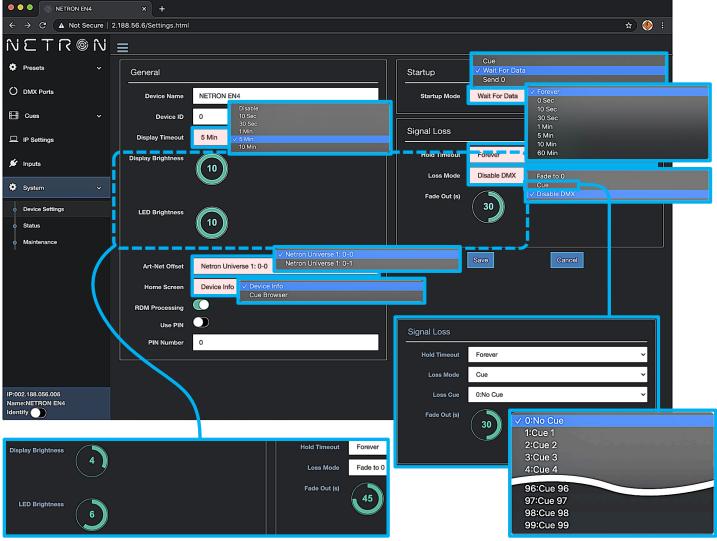
To access this function, use the specific URL IP_Address/Preset_Owner.htm, which is not part of the main interface. Select the desired preset, activate the lock, and Update to confirm. Owner presets are indicated with a lock symbol in the display.



WEB REMOTE MENU: INPUTS - SEND VALUE

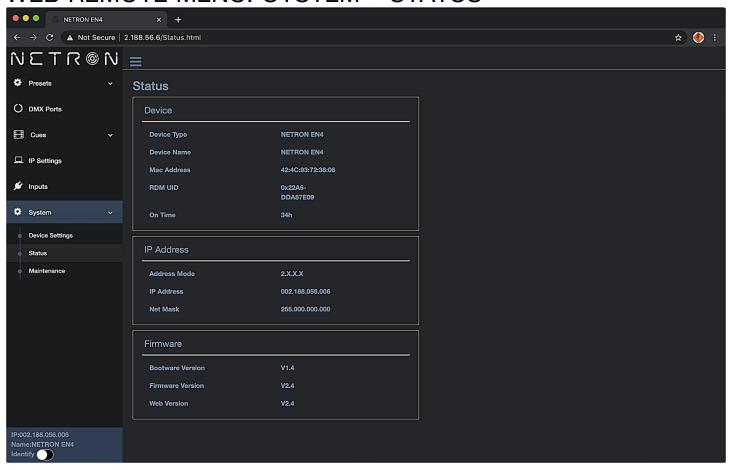


WEB REMOTE MENU: SYSTEM - DEVICE SETTINGS

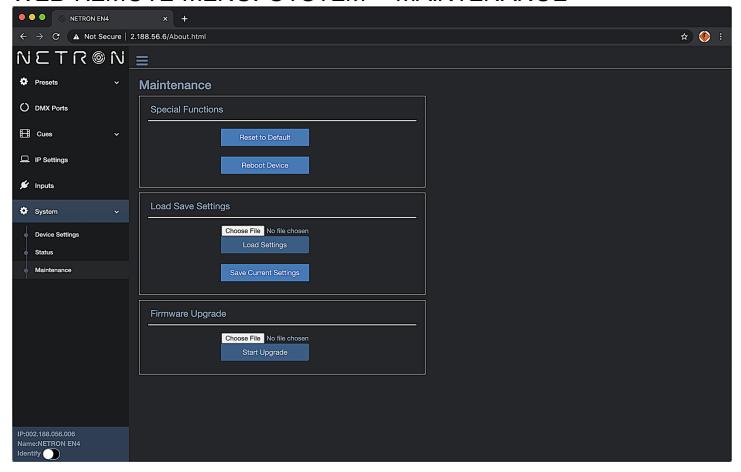


Use cursor to click and drag around to desired time.

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.

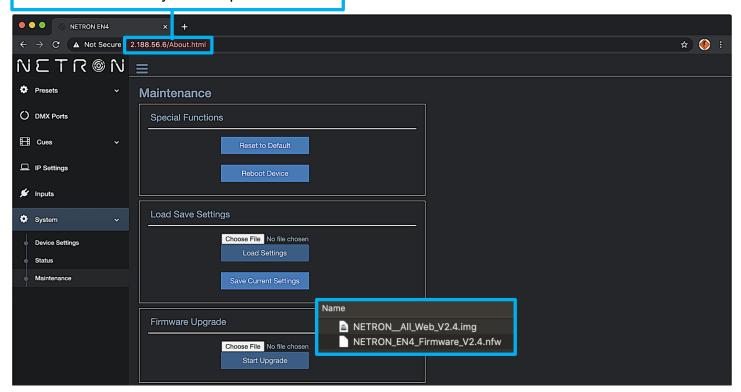
Always back up the configuration first. Export to a file using the web interface.

- 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.



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

