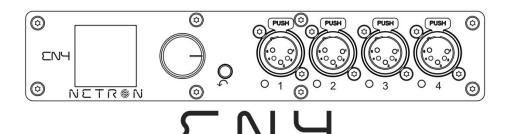
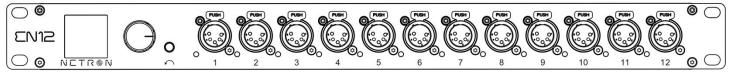
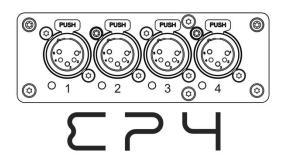
\square 3 5 1 \square 1 \wedge \wedge

CONTROL SYSTEMS





EN12



NETR®N User Guide

©2020 OBSIDIAN CONTROL SYSTEMS all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. Obsidian Control Systems logo and identifying product names and numbers herein are trademarks of ADJ PRODUCTS LLC. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non – ADJ brands and product names are trademarks or registered trademarks of their respective companies.

OBSIDIAN CONTROL SYSTEMS and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

OBSIDIAN CONTROL SYSTEMS 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

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
12/27/19	1.5	Added Art-Net copyright
01/06/20	2.0	Updated software
01/21/20	2.5	Updated Menu Options
09/21/20	3.0	Updated Firmware to V2.4

CONTENTS

GENERAL INFORMATION	4
OVERVIEW	5
CONNECTIONS	6
MENU:	
NAVIGATION	10
HOME SCREEN	11
PRESETS	12
NETRON PRESETS	13
CUES	14
DMX PORTS	15
REMOTE INPUT	16
VIEW AND TEST	17
IP ADDRESS	19
SYSTEM	20
INFORMATION	21
WEB REMOTE CONFIGURATION	22
WEB REMOTE MENU	23
FIRMWARE UPDATES	39

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, and EN12 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

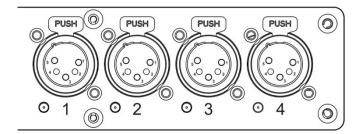
All DMX Output connections are 5pin female XLR; however, the pin – out on all sockets is pin 1 to shield, pin 2 to cold (–), and pin 3 to hot (+). Pins 4 and 5 are not used.

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.

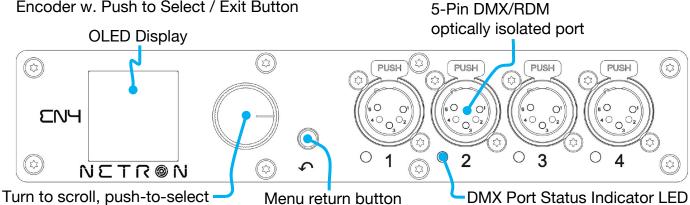
To connect multiple devices to an EtherDMX Source, an Ethernet switch is required to split the data into the desired number of streams.

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

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



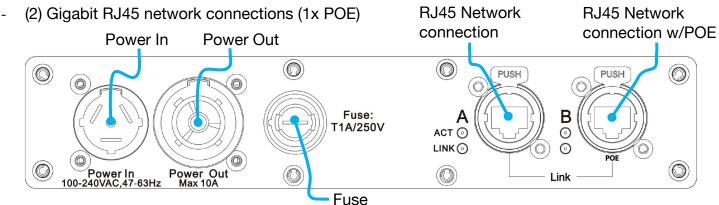
DMX PORTS STATUS INDICATOR LEDs

LED Color	Solid	Blink	Flashing/Strobing
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

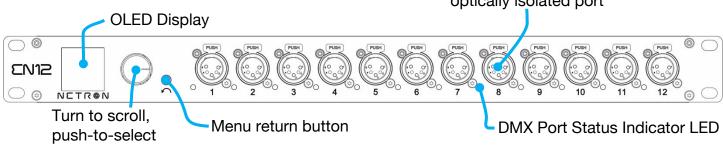


CONNECTIONS: EN12 (FRONT & REAR PANELS)

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



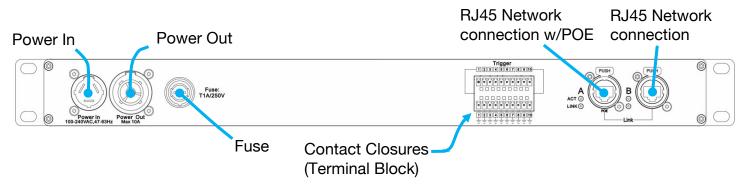
DMX PORTS STATUS INDICATOR LEDS

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

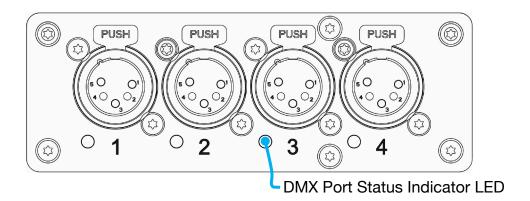
- (2) Gigabit RJ45 network connections (1x POE)
- (10) Contact Closures (Terminal Block)



CONNECTIONS: EP4 (FRONT & REAR PANELS)

FRONT CONNECTIONS

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



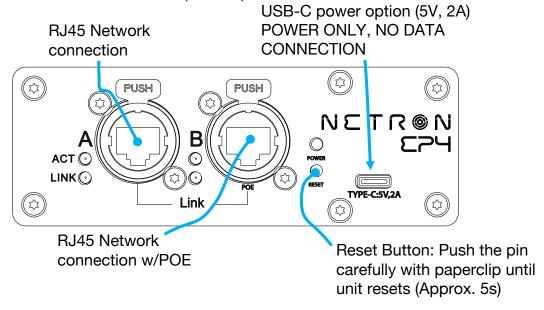
DMX PORTS STATUS INDICATOR LEDS

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

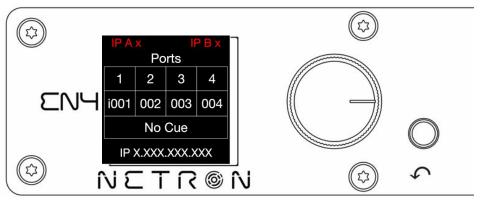
- USB-C power option (5V, 2A). POWER ONLY, NO DATA CONNECTION
- (2) Gigbabit RJ45 network connections (1x POE)



MENU: NAVIGATION

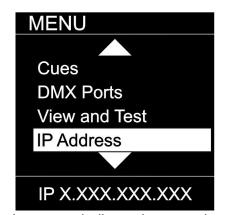
The Netron devices use a small OLED display for feedback and setup. The encoder dials up and down through the menu, a push of the encoder selects an item or saves an entry. Revert to a previous menu or cancel an entry with a single push of the back arrow.

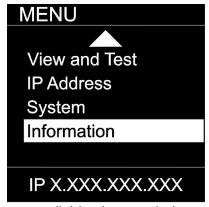




Wheel Right	Scroll down in menu list / increase values
Wheel Left	Scroll up in menu list / decrease values
Wheel Push	Enter Menu, Select menu item, go down one level in menu, confirm values.
Back Arrow	Go up one level in menu tree, cancel change of values, hold for 2 seconds to return to home screen



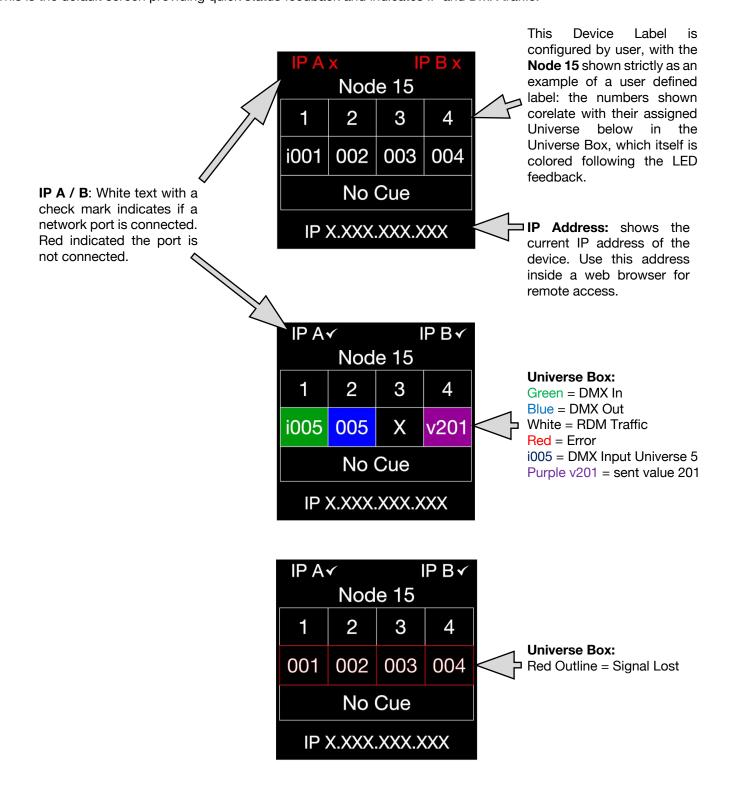




As you scroll up or down the menu, the arrows indicate that more items are available above or below that which is displayed, and only show when needed.

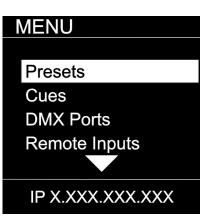
MENU: HOME SCREEN

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



MENU: PRESETS

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



SUB MENU	OP	TION / VALU	JES	DESCRIPTION
	1 :ArtNet 2.x	Universe 1 – 327	767	
MENU	2 :ArtNet 10.x	Universe 1 - 327	767	
	3 :ArtNet 192.x	Universe 1 - 327	767	
	4. ArtNet 172.x	Universe 1 - 327	767	
NETRON Presets	ArtNet DHCP	Universe 1 – 327	767	
USER PRESETS	6. ArtNet In	Universe 1 – 327	767	
332111123213	7. :ArtNet In/Thru	Universe 1 – 327	767	See NETRON Presets
	8. sCAN 2.x	Universe 1 – 327	767	See NETHON Flesers
	9. sCAN 10.x	Universe 1 – 327	767	
	10. sACN 192.x	Universe 1 – 327	767	
	11. :sACN 172.x	Universe 1 – 327	767	
IP X.XXX.XXX.XXX		Universe 1 – 327		
IF A.AAA.AAA.AAA	13. sACN DHCP In	Universe 1 – 327	767	
	14. :Splitter Port1			
MENU			Preset Saved	
		Load Preset	Preset Loaded	
NETRON Presets				
USER PRESETS	1 MyDroot 1			
COLITICOLIC	1 :MyPreset 1			
	 10 :MyPreset 10	Danama Dragat	12 Character Label	
	10 .iviyi reset 10	nename Freset	12 Character Laber	
IP X.XXX.XXX.XXX				

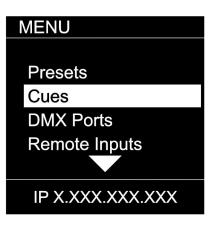
MENU: NETRON PRESETS

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	Ether	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		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		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
1	-	l		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		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
				Х	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 172.x	Automatic 172.x	255.0.0.0	Artnet	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
				Х	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
				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		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	Х	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
				Х	X	X+1	X+2	X+3	X+4	X+5	Clone 1	Clone 2	Clone 3	Clone 4	Clone 5	Clone 6
sACN 2.x	Automatic 2.x	255.0.0.0	sACN	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
				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 10.x	Automatic 10.x	255.0.0.0	sACN	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
,				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 192.x	Automatic 192.x	255.0.0.0	sACN	Universe #	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
l		•		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 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								T	1		T	
sACN DHCP	DHCP	DHCP	sACN	Universe #		Output										
SACIT BITOF	Diloi	DITO	3/10/11	X	X	X+1	X+2	X+3	X+4	X+5	X+6	X+7	X+9	X+10	X+11	X+12
			RDM	not supported									1	1		
-ACN BUOD!	DHCP	DHCP	1			Incut	lne::t	Incut	Inc.:+	Inc.:+	Inct	Inct	Inc. +	Inc. +	Incut	Inct
sACN DHCP In	חחטף	DHCP	sACN	Universe #	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input
		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
Splitter Port 1	Automatic 2.x	255.0.0.0	Artnet		Input	Output		Output	Output	Output	Output	Output	·	·	·	Output
					Χ	Clone 1										

MENU: CUES

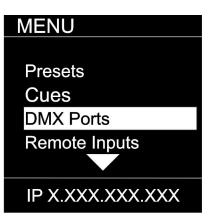
A cue is a full static snapshot of all DMX values of all ports. The device supports 99 cues with fade and hold times, plus a link option to loop multiple cues together. This allows small "mini" cuelists to be created. Cues are used for standalone operation, as a backup for signal loss or can be assigned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



SUB MENU	OP	TIONS /	VALUES	DESCRIPTION	
MENU	Run Cue	1 – 99	Go/Off		Select the desired cue
Run Cue Save Cues Rename Cue Link Cues	Save Cue	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 Charact	er Label	Edit name of cue
	(O			0s - 99.59min	Set the fade time of the cue
Save Cues	ñ		Hold Time	0s - 99.59min	Set the time to hold the cue until the next cue is started
Rename Cue Link Cues	Link Cues	1 – 99	Link to Cue	Disable, 1 – 99	Set the next Cue
Resend Ethernet		Disable			Cue data is not sent over Ethernet
IP X.XXX.XXXX	Resend Ethernet	Enable			Cue data is sent on the Universe number and protocol assigned to the ports.

MENU: DMX PORTS

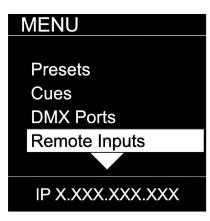
Select a port number to adjust its settings. Depending on the Mode, certain options are not relevant and hidden from the display or web interface.



SUB MENU		PTIONS / VAL	UES	DESCRIPTION			
		Disable		The port is disabled.			
		loout		The port receives DMX values and assigns them to th			
	Mode	Input		selected Universe.			
	Mode	Output		The port sends out DMX Values on the selected			
			0.055	Universe			
	Linicana	Send Value	0 – 255	Send a static DMX value			
MENU	Universe	1 – 32767		Select the EtherDMX Universe			
MENU	Protocol	Art-Net, sACN, No		Select the EtherDMX protocol per port			
	FrameRate	10, 15, 20, 25, 30	, 35 , 40	Select the desired frame rate.			
	RDM	Disable, Enable		Disable / Enable RDM traffic for this port			
Port 1		OFF		The merger is disabled			
		НТР		The sources are merged by Highest Takes			
Port 2				Precedence			
Port 3	Merge	LTP		The sources are merged by Last Takes Precedence			
	ivierge	Tagglo		The complete source Universe is switched as soon as			
Port 4		Toggle		a single value changes			
		Pooleup		The merge universe is activated if the main universe			
ID V VVV VVV VVV		Backup		has no valid traffic			
IP X.XXX.XXX	Clone	None, Port 2, Por	t 3, Port 4	Replicates the identical DMX data from another port			
		F 1 F10		To limit the DMX range, set the first address of the			
	D	From: 1 – 512		DMX port			
	Range	T-: 1 510		To limit the DMX range, set the last address of the			
		To: 1 – 512		DMX port			
				Offset start address, incoming channel X value is sent			
	Offset Addr	Off, 2 - 511		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	Cue	1 – 99		Recall a specific cue number	
		Trigger		The cue is activated, and all times and links are processed even if the contact is opened again	
Input 1 Input 2 Input 3 Input 4	Cue Mode	Toggle	The cue is activated, and all times a processed only if the contact is clost toggle is opened, device will assum or No DMX status. This allows to all between two cues for example with switch.		
Прист	Netron Preset	a,b,c,		Recalls this Netron preset when the contact is closed	
IP X.XXX.XXX.XXX	User Preset	1 – 10		Recalls this user preset when contact is closed	
MENU	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	
Input 1		disabled		Input is disabled	
Input 2		DMX Port	1 – xx	Use DMX Port. Port must be set as Input	
Input 3		Art-Net		Art-Net Trigger	
Input 4	Source	sACN		sACN Trigger	
Input 4		Universe		Set Universe for remote trigger	
IP X.XXX.XXX		Address		Set DMX Address for remote trigger	

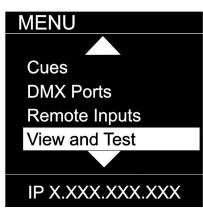
DMX Map for Remote Trigger

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

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

MENU: VIEW AND TEST

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



SUB MENU		OPTIO	ONS / VALUE	Description	
		View	Port 1 – 4	View the DMX values of a specific port	
	×	Range	From: 1 – 512	default 1	
	Š		To: 1 – 512	default 512	
	JMX View	Start Monitor		Start Monitoring Values. Use Encoder to dial to the	
	۵			desired DMX address. Push Encoder to change	
MENU				display readout style (Grid, List, Address)	
IVILINO	Art-Net View	Universe	1 – 32767	View a specific Art-Net Universe	
		Range	From: 1 – 512	default 1	
D142/1/		nange	To: 1 – 512	default 512	
DMX View	ž			Start Monitoring Values. Use Encoder to dial to the	
Art-Net View	Ϋ́	Start Monitor		desired 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	sACN View	Range	From: 1 – 512	default 1	
Billiot i dit 166t	>	Tange	To: 1 – 512	default 512	
	Q	Start Monitor		Start Monitoring Values. Use Encoder to dial to the	
IP X.XXX.XXX.XXX	Sδ			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	
MENO			All Ports	Send generator values on all ports	
	Ħ	Range	From: 1 – 512	default 1	
A (0.11.) ("	Ä		To: 1 – 512	default 512	
sACN View	¥				
DMX Port Test	□	Speed	1 – 10, Manual	Select the speed of generator	
Art-Net Test		Universe	1 – 32767	Select Art-Net Universe	
	est	D	From: 1 – 512	default 1	
sACN Test	Ļ	Range	To: 1 – 512	default 512	
IP X.XXX.XXX.XXX	Art-Net Test	Speed	1 – 10, Manual	Select the speed of generator	
	-	Universe	1 – 32767	Select sACN Universe	
	-S	Dange	From: 1 – 512	default 1	
	Z	Range	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)

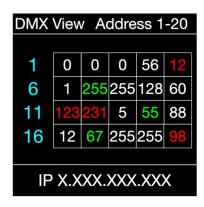
The monitoring options are helpful to find faults, or simply watch incoming traffic. Three styles are available by clicking the encoder wheel. Dial the wheel to change the display to the desired address, and exit the monitor with the back button.

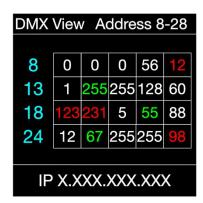
DMX Test Display - Grid

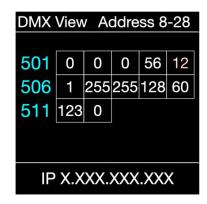
The color coding helps to quickly identify changing DMX values.

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

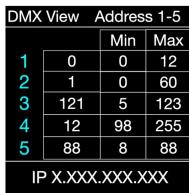
White: Value stable (after 10 seconds)



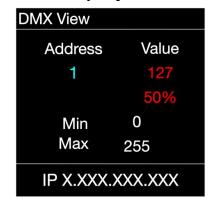




DMX Test Display - Line

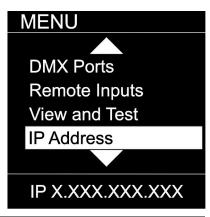


DMX Test Display - Address



MENU: IP ADDRESS

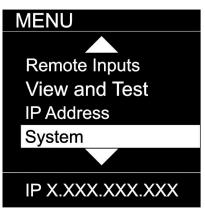
Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For Art-Net systems, it should never be necessary to adjust this IP. Any custom address and subnet can be assigned so the node can operate within 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	
MENU	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	
DHCP IP Automatic 2.X	Automatic 10.x.x			The device is set to a unique 10.x.x.x Address, Subnet 255.0.0.0	
		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 Name	12 Character Label			Set a device name	
	Device ID	0 – 999			Set an optional device ID	
MENU		Display	Disable		Display stays on indefinitely	
		Timeout	10s, 30s, 1m, 5m, 10m		Display goes dark after this time	
Device Name	_	Screen Brightness	Brightness		Adjust the brightness of the internal display	
Device ID Display	Disp	LED Brightness		_	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 browsed and started by the encoder wheel	
IP X.XXX.XXX	ArtNet Start	Universe 0 Universe 1			Universe 1 is sent to Art-Net 0-0 Universe 1 is sent to Art-Net 0-1	
				Disable	The device does not require a pin	
MENU	vice		Lock	Timeout	The device asks for a pin after the display times out	
Lock Device	Lock Device	PIN: 000 (011)	Manual Lock: 000 (011)	Lock / Unlock	Lock the device immediately	
Startup		Cue			Run a specific Cue at startup	
Signal Loss Backup Config	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	
IP X.XXX.XXX.XXX		Send 0				
MENU	Signal Loss	Hold Last Look Forever , 0s, 10s, 30s, 1m, 5m, 10m, 60m		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.	
	gna	Fade to 0	0-60s (3	0s)	Crossfade to DMX 0. Set to 0s for instant out.	
Signal Loss	Š		No Cue		Start Cue X	
	<u>σ</u>	Disable DMX Save Config	Onefin Count		DMX traffic is turned off on all ports Save current configuration including all cue data	
Backup Config RDM Processing	Backup Config		Config Saved Config Loaded		Reload configuration. Backups can be exported and imported from the web interface	
Factory Reset	l Ing	All Disable			Disables RDM processing on the device	
IP X.XXX.XXX	RDM Processing	All Enable			Enables all RDM processing on the device	
IF X.XXX.XXX.XXX		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.	
	Facton	Pin: 000 (007)	Confirm	Device will be reset to User Preset 1. Yes/ No	Reset the device to User Preset 1.	

MENU: INFORMATION

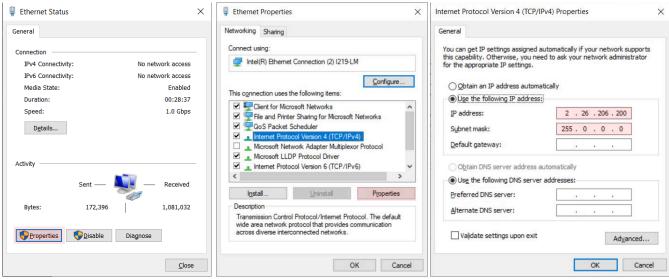
This menu provides information about the device.



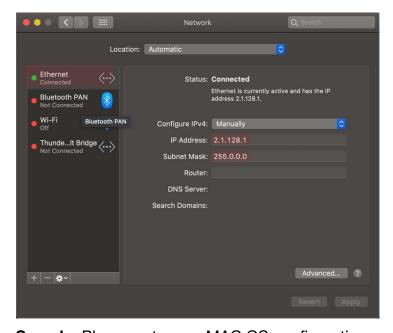
SUB MENU		OPTIONS / VALUES	DESCRIPTION	
MENU		Boot SW V# Firmware: V#	Display the current software version	
Software Version Product On Time MAC Address RDM UID	Product On Time	Time: XXXXX(H)	Total time the device has been powered on.	
IP X.XXX.XXX	MAC Address	x:x:x:x:x:x	Displays MAC address	
	RDM UID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

WEB REMOTE CONFIGURATION

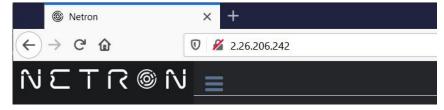
Ensure the device and a computer are do not share IP address, but are in the same IP address range and connected.



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



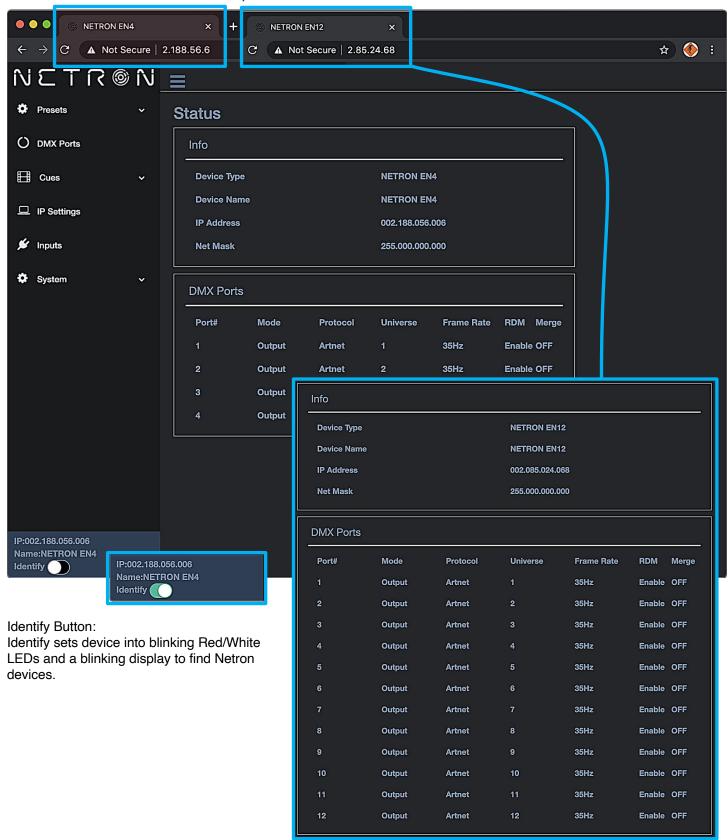
MAC OS Configuration Sample: Please note your MAC OS configuration results may vary.



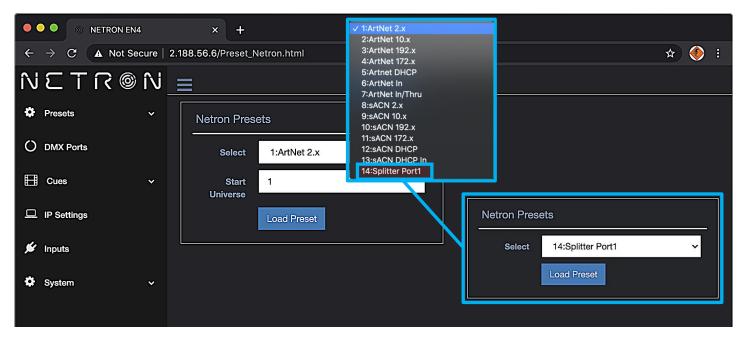
Browser Sample: Enter the device IP address into a web browser to access the device page.

WEB REMOTE MENU: HOMEPAGE

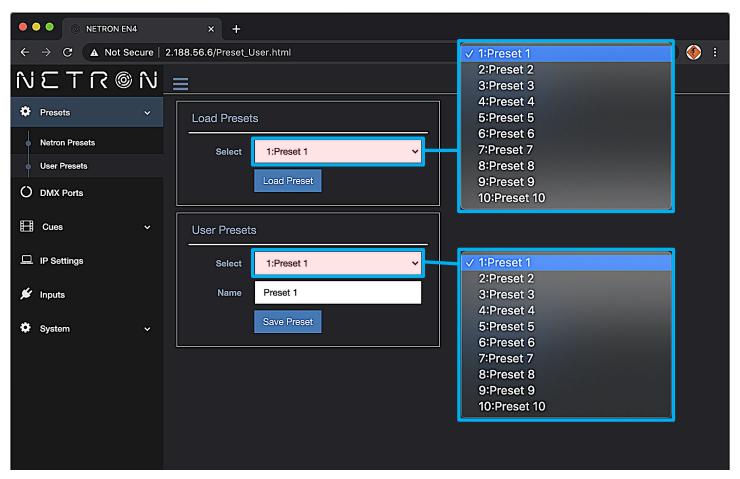
Please note that Netron devices are not compatible with Microsoft Internet Explorer. Also, the antivirus software AVAST is known to block important communication with NETRON, and must be disabled for the web interface and firmware updates to function.



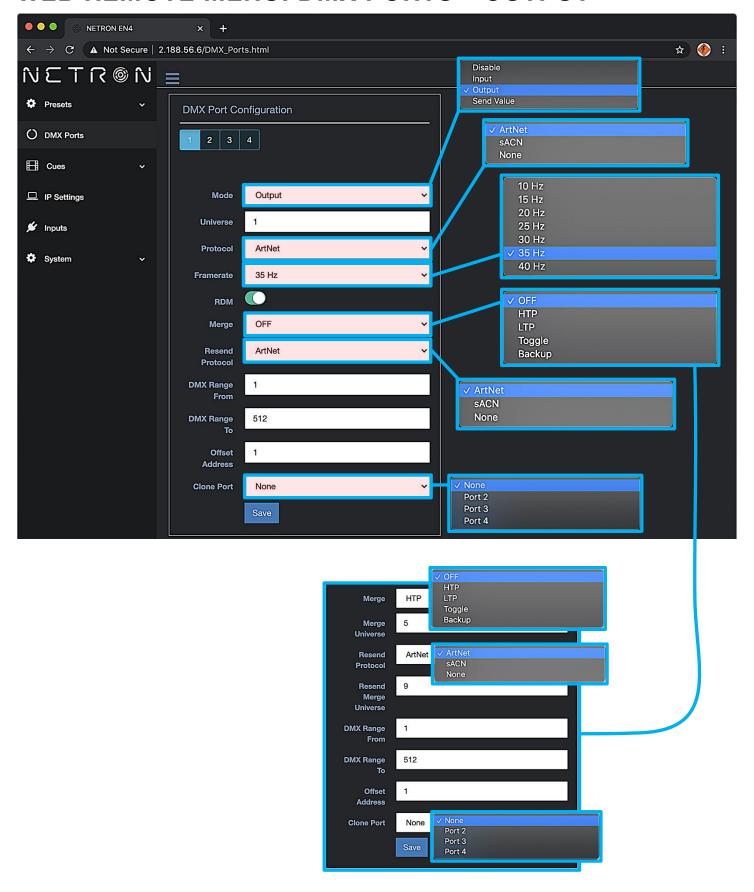
WEB REMOTE MENU: PRESETS - NETRON PRESETS



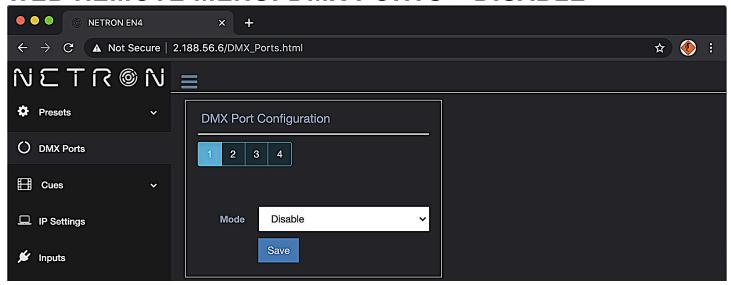
WEB REMOTE MENU: PRESETS – USER PRESETS



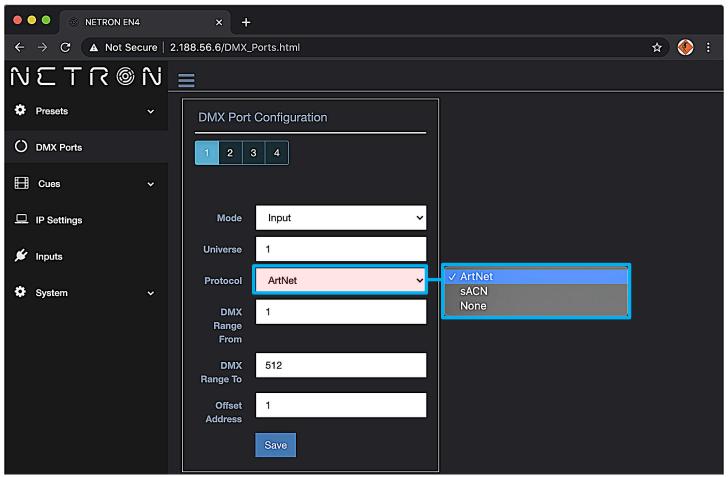
WEB REMOTE MENU: DMX PORTS - OUTPUT



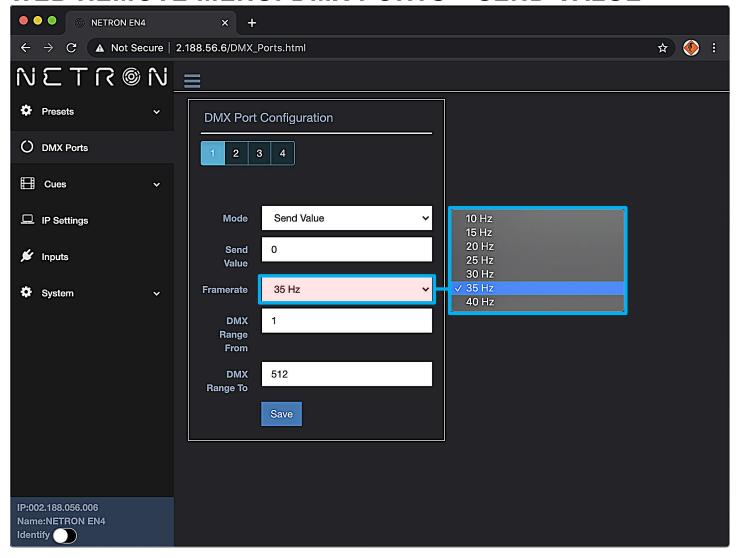
WEB REMOTE MENU: DMX PORTS - DISABLE



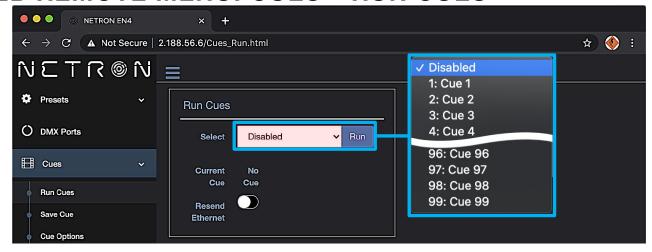
WEB REMOTE MENU: DMX PORTS - INPUT



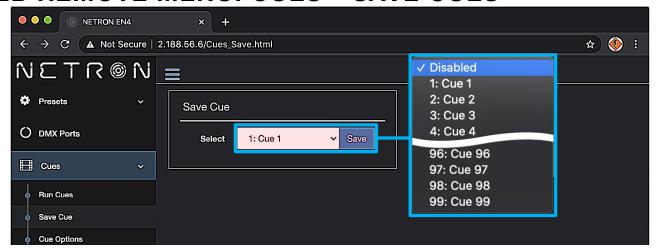
WEB REMOTE MENU: DMX PORTS - SEND VALUE



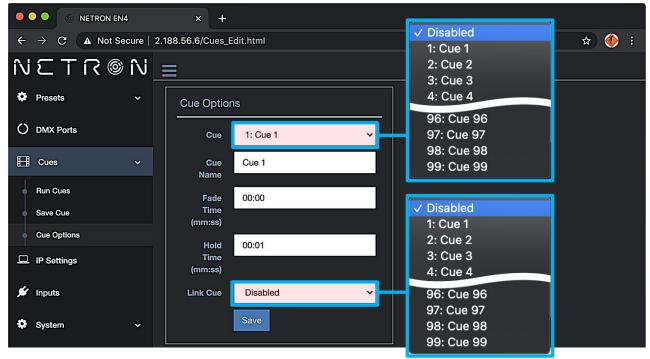
WEB REMOTE MENU: CUES - RUN CUES



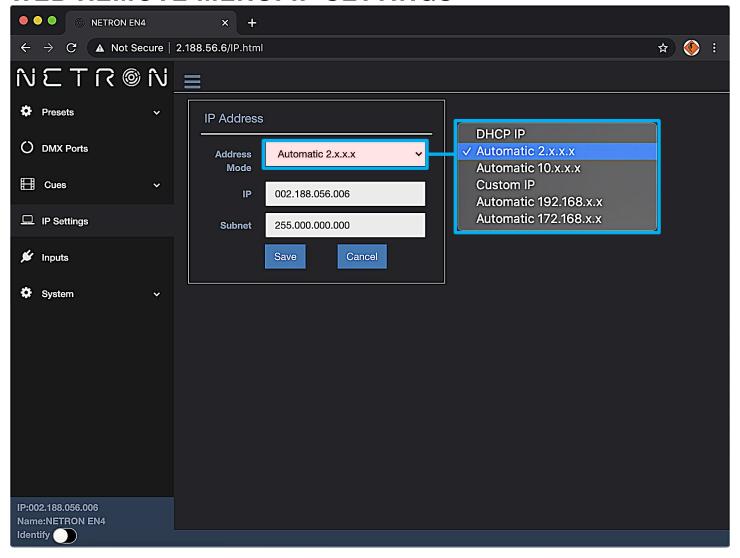
WEB REMOTE MENU: CUES - SAVE CUES



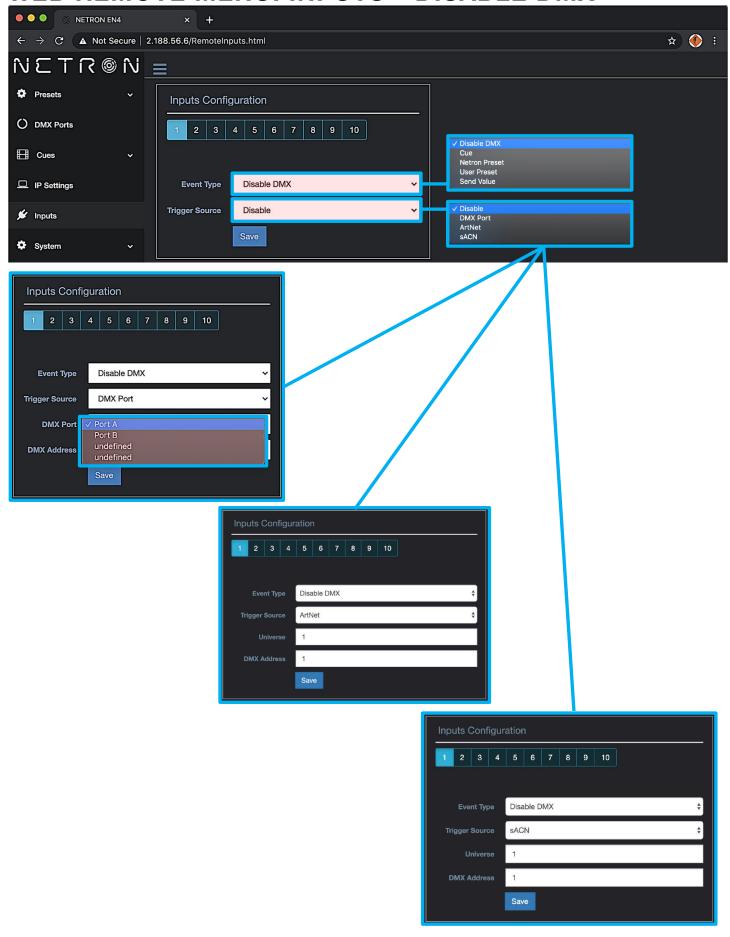
WEB REMOTE MENU: CUES - CUE OPTIONS



WEB REMOTE MENU: IP SETTINGS



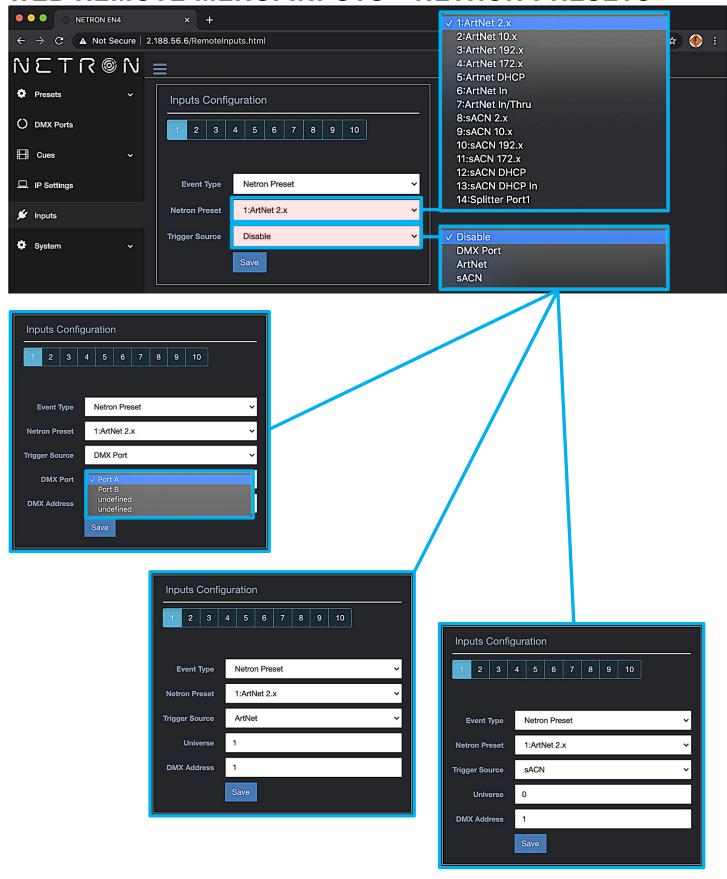
WEB REMOTE MENU: INPUTS - DISABLE DMX



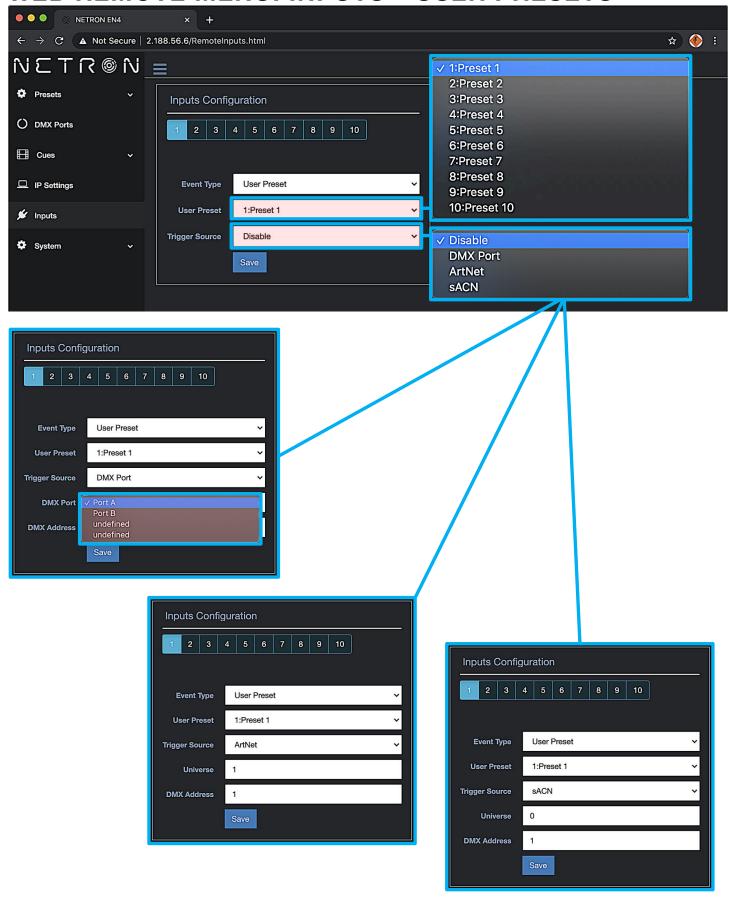
WEB REMOTE MENU: INPUTS - CUE



WEB REMOTE MENU: INPUTS - NETRON PRESETS



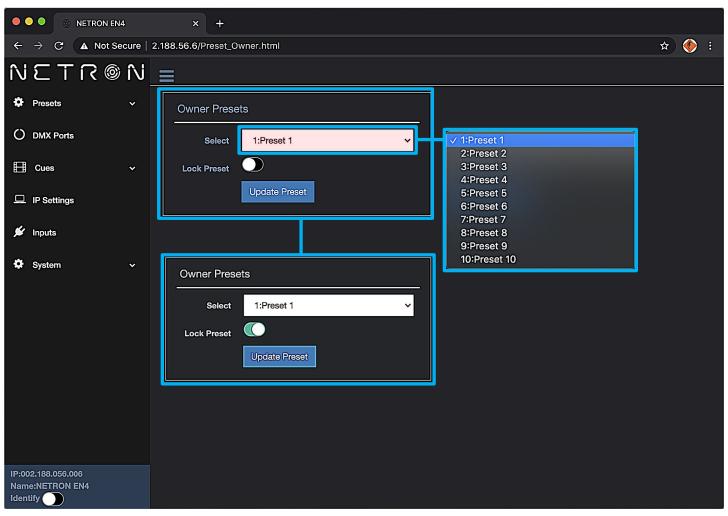
WEB REMOTE MENU: INPUTS - USER PRESETS



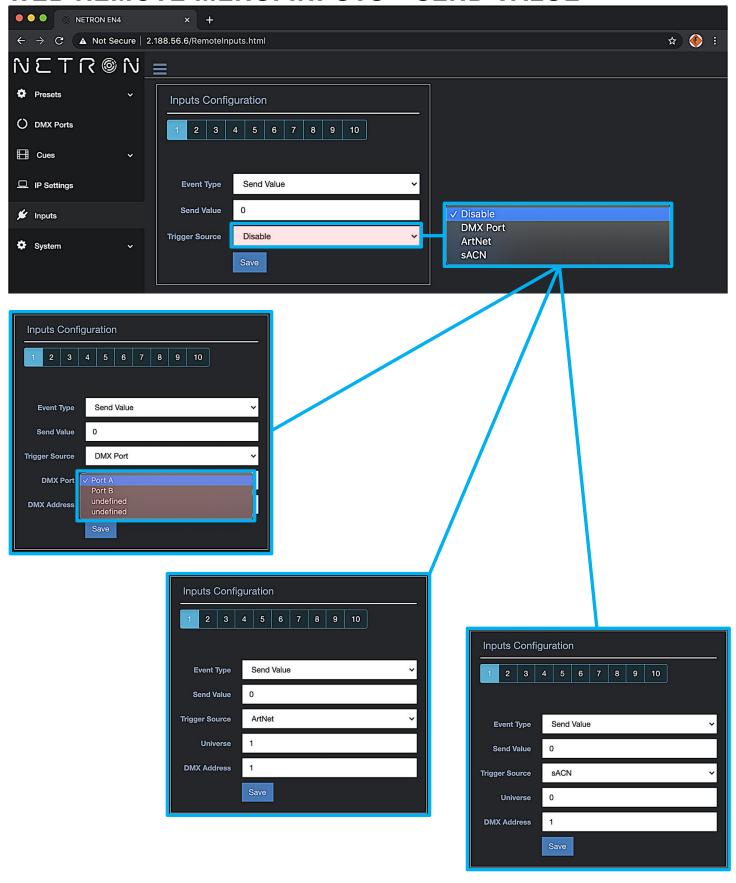
WEB REMOTE MENU: INPUTS - OWNER PRESET

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.

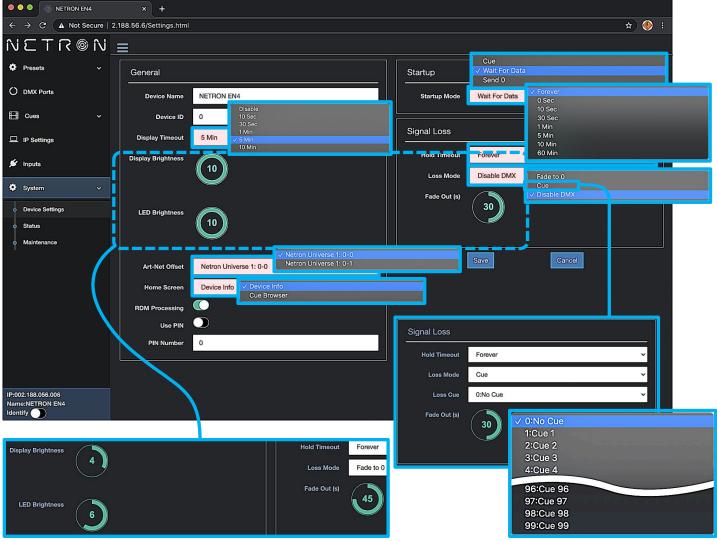
To access this function, use the specific URL IP_Address/Preset_Owner.htm, which is not part of the main interface. Select the desired preset, activate the lock, and Update to confirm. Owner presets are indicated with a lock symbol in the display.



WEB REMOTE MENU: INPUTS - SEND VALUE

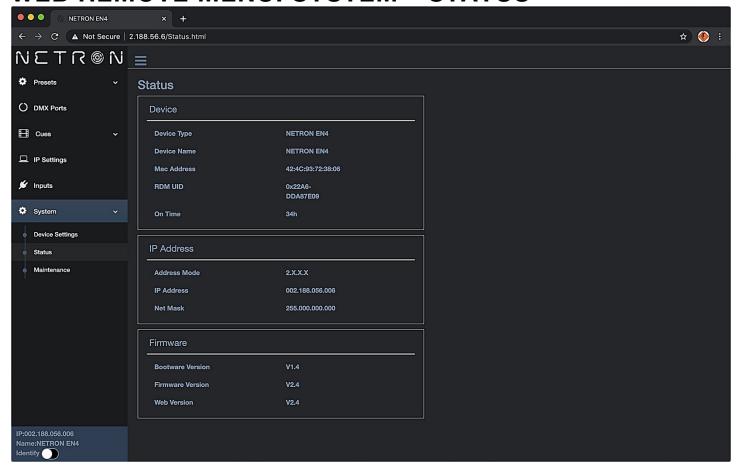


WEB REMOTE MENU: SYSTEM - DEVICE SETTINGS

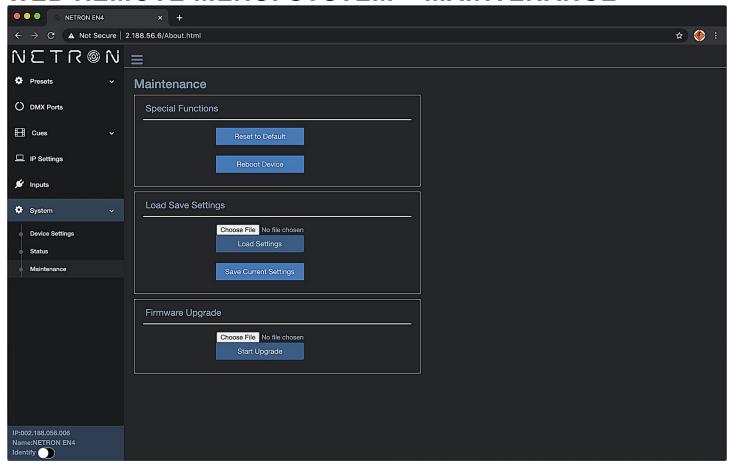


Use cursor to click and drag around to desired time.

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.

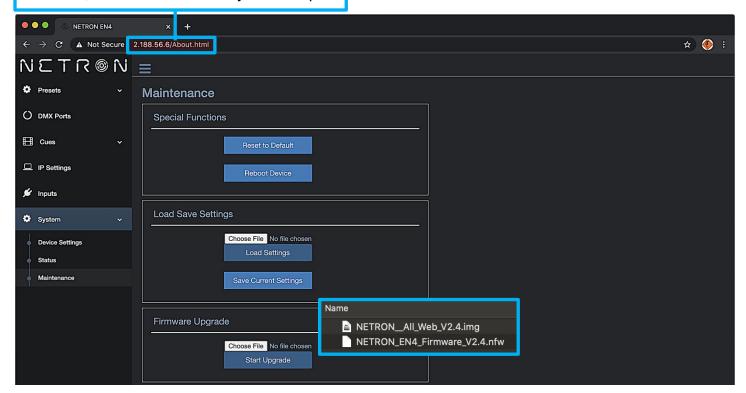
Always back up the configuration first. Export to a file using the web interface.

- 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.

