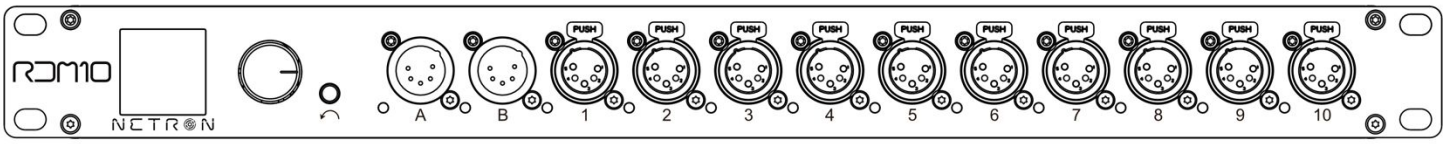
OBSIDIAN™

CONTROL SYSTEMS



RDM10

NETRON

User Guide

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Art-Net
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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
01/29/20	1.0	Initial Release
10/12/20	1.5	Updated Firmware to V2.4

C O N T E N T S

GENERAL INFORMATION 4
OVERVIEW 5
CONNECTIONS 6
MENU:
- NAVIGATION 9
- HOME SCREEN 10
- PRESETS 11
- DMX INPUTS 13
- DMX PORTS 15
- CUES 17
- VIEW AND TEST 18
- IP ADDRESS 20
- SYSTEM 21
- INFORMATION 22

WEB REMOTE CONFIGURATION 23
WEB REMOTE: HOMEPAGE 24
FIRMWARE UPDATES 43

GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

CUSTOMER SUPPORT

Contact your local Obsidian Controls Systems dealer or distributor for any product related service and support needs. Also visit forums.obsidiancontrol.com with questions, comments or suggestions.

OBSIDIAN CONTROL SERVICE EUROPE – Monday – Friday 08:30 to 17:00 CET
+31 45 546 85 63 | support@obsidiancontrol.com

OBSIDIAN CONTROL SERVICE USA – Monday – Friday 08:30 to 17:00 PST
(866) 245 – 6726 | support@obsidiancontrol.com

OVERVIEW

KEY FEATURES

The NETRON RDM10 is a first of its kind hybrid splitter. Dual DMX input, 10 port RDM Splitter, Merger and EthernetDMX Gateway are unified into the RDM10, with an advanced feature set to cover a wide variety of applications. 99 internal cues, factory and user presets, plus external contact closures provide a unique combination of multiple devices to solve many required tasks in one powerful unit.

- 2x Input, 10x Output ports
- RDM Splitter, HTP / LTP DMX Merge
- 2 Universe sACN and Artnet to DMX conversion
- Premade NETRON presets for instant setup
- 10 User Presets
- 99 Cues with Fade Time, Hold Time and Cue linking
- External contact closures to trigger cues and preset recall
- DMX Monitor
- DMX and Ethernet Test Generator

ETHERNET CONNECTION

The RDM10 provides two Gigabit RJ45 connections for data input. One port supports POE 802.3af power input and is marked with POE on the back of the device. Both ports are connected to an internal highspeed network switch, allowing daisy chaining of multiple devices. To avoid synchronization delays it is not recommended to chain more than 10 devices together. The ports are auto-crossing, eliminating the need for RJ45 crossover cables.

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

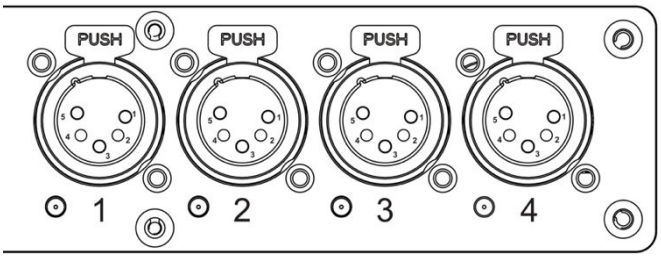
DMX CONNECTIONS

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.

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.

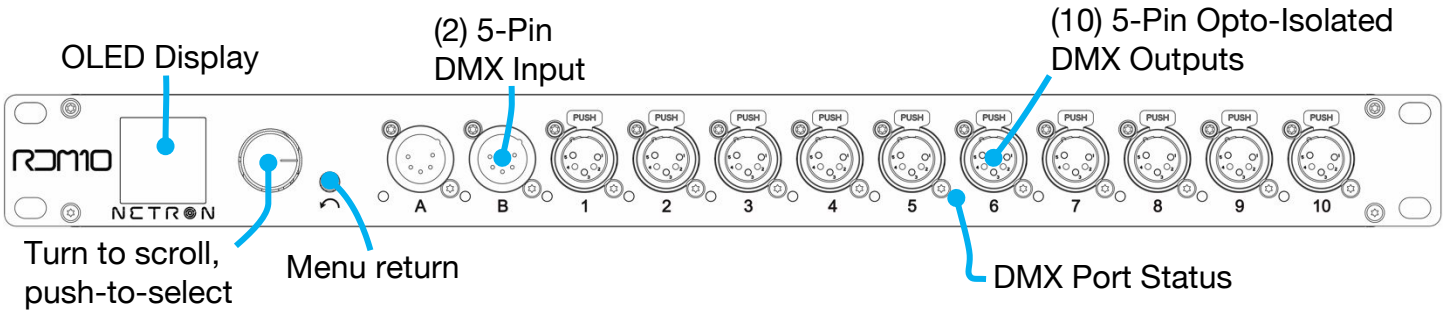
To connect multiple devices to an EtherDMX Source, an Ethernet switch is required to split the data into the desired number of streams.

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: FRONT & REAR PANELS

FRONT CONNECTIONS

- (10) 5pin DMX/RDM optically isolated ports
- Full color OLED display
- Encoder with Push-to-Select / Exit Button



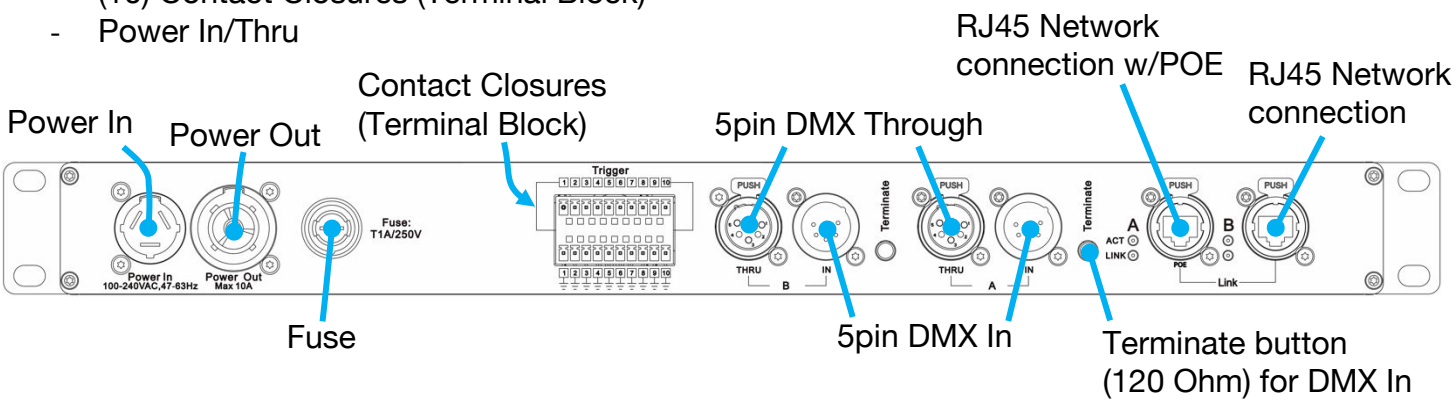
DMX PORTS STATUS INDICATOR LEDs

Ports	LED Color	Solid	Slow Blink	Flashing/Strobing
DMX	Red	Error		
DMX	White			active RDM communication
DMX	Blue	Assigned to A	No DMX Signal	
DMX	Amber	Assigned to B	No DMX Signal	
DMX	Cyan	Assigned to Merger	No DMX Signal	
DMX	Purple	Set to Send Static DMX Value		

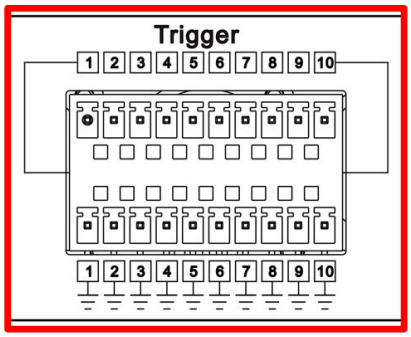
The LEDs are dimmable from the System – Display menu, and can be turned off completely if desired.

REAR CONNECTIONS

- (2) 5pin DMX Input
- (2) 5pin DMX Through
- (2) RJ45 network connections (1x POE)
- (10) Contact Closures (Terminal Block)
- Power In/Thru



CONNECTIONS: CONTACT CLOSURES



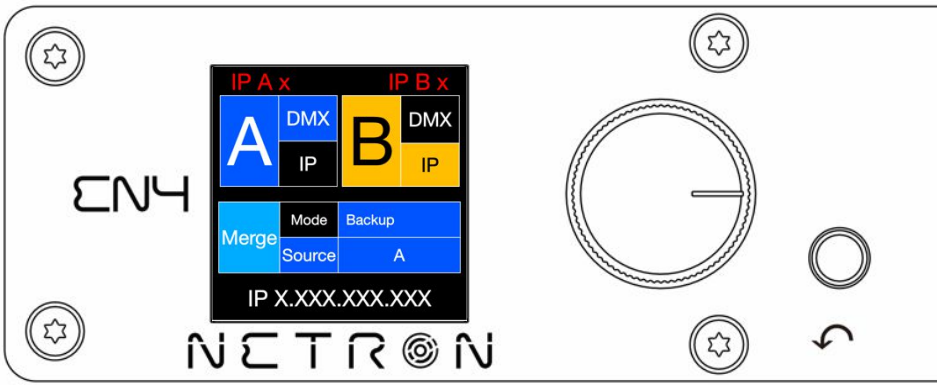
10 Inputs are provided that can be mapped to various functions of the RDM10. The inputs are simple dry contact closures and are provided in ten pairs of trigger and ground connections.

DO NOT APPLY VOLTAGE TO THE CONTACT! DOING SO WILL DAMAGE THE INPUT AND IS NOT COVERED UNDER WARRANTY.

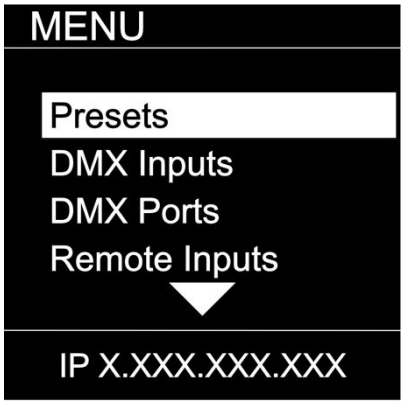
The RDM10 is shipped with two terminal blocks that connect to the back ports. Lost or missing blocks can be purchased from authorized Obsidian Dealers.

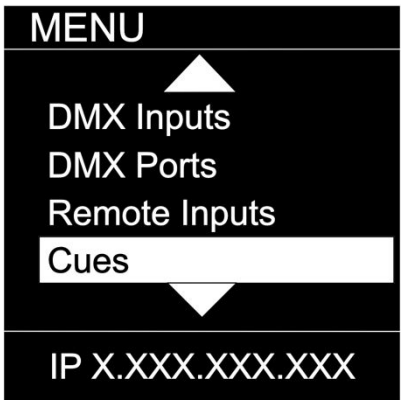
MENU: NAVIGATION

The Netron RDM10 uses 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.

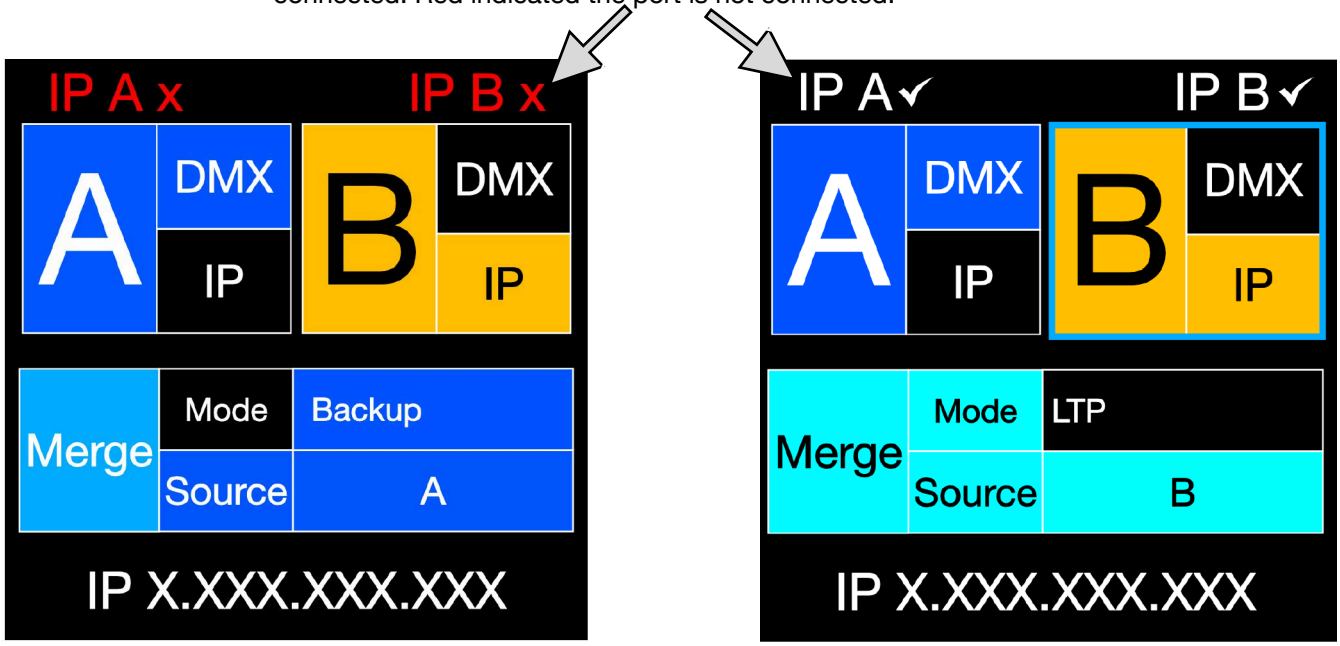
MENU: HOME SCREEN

This is the default screen, which provides quick status feedback and indicates IP and DMX traffic. Turn the encoder wheel to the right to show **Page 2** (clockwise), or turn it left to show **Page 1** (counterclockwise). The page defaults to **Page 1** after a timeout (the same timeout duration as with the menu).

Page 1

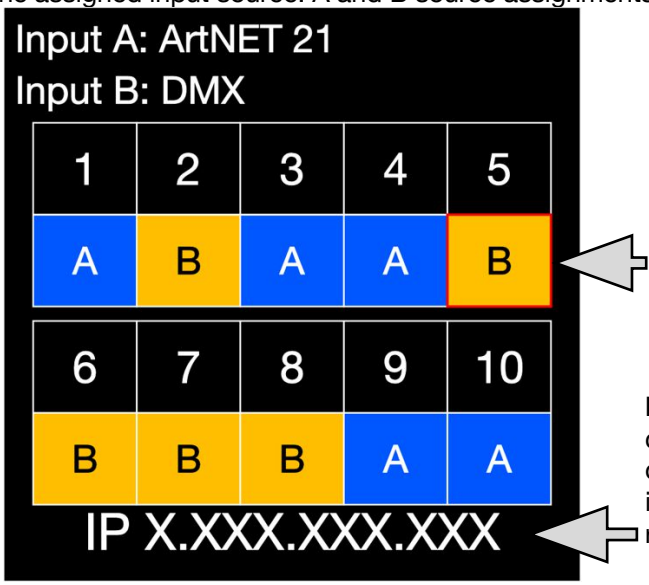
The home page shows the A and B input status. Valid traffic and the source are indicated with a full colored box. The current merge mode and active source are displayed in the bottom half for immediate overview of the merge activity. Certain Merge statuses like an active Backup will yield a red background, indicating that the unit triggered its backup source.

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



Page 2

Ports: The port numbers show the assigned input source. A and B source assignments are displayed on top.

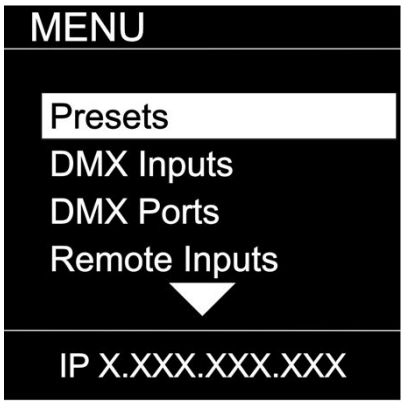


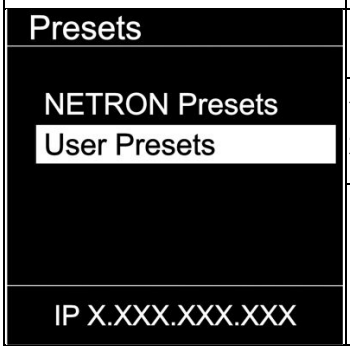
Universe Box:
Red Outline = Signal Lost

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

MENU: PRESETS

Several simple presets are preprogrammed into the RDM10 for fast setup. Some presets require additional input like a start Universe. In addition, the RDM10 can store 10 User Presets for fast recall of favorite setups. Select the desired preset slot and save/load or rename it.



SUB MENU	OPTION / VALUES			DESCRIPTION
	1 :Splitter AB			See NETRON Presets
	2 :Splitter A			
	3 :HTP Merge			
	4 :LTP Merge			
	5 :Backup			
	6 :Toggle			
	7 :ArtNet 2.x	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
	8 :Dual ArtNet 2.x	Universe 1 – 32767		
	9 :sACN DHCP	Universe 1 – 32767		
	10:Dual sACN DHCP	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
	11: sACN 2.x	Universe 1 – 32767		
	12: Dual sACN 2.x	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
	13: sACN 10.x	Universe 1 – 32767		
	14: Dual sACN 10.x	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
				
	1 :MyPreset 1 … 10 :MyPreset 10	Save Preset	Preset Saved	
		Load Preset	Preset Loaded	
		Rename Preset	12 Character Label	

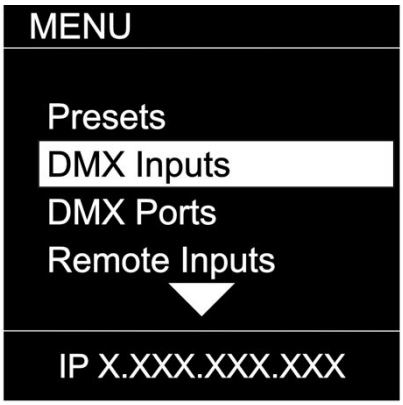
MENU: NETRON PRESETS

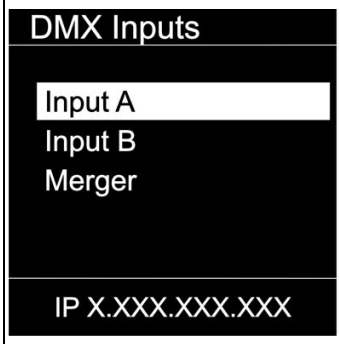
These simple presets are preprogrammed into the device for fast setup. Some presets require additional input like a start Universe.

Label	Ethernet				DMX Ports									
	IP Address	Subnet	Protocol	Source	1	2	3	4	5	6	7	8	9	10
1: Splitter AB	-	-	-	Input A DMX	A	A	A	A	A					
				Input B DMX						B	B	B	B	B
2: Splitter AB	-	-	-	Input A DMX	A	A	A	A	A	A	A	A	A	A
				Input B DMX										
3: HTP Merge	-	-	-	Input A DMX	Merger HTP	Merger HTP	Merger HTP	Merger HTP	Merger HTP	Merger HTP	Merger HTP	Merger HTP	Merger HTP	Merger HTP
No RDM Support				Input B DMX										
4: LTP Merge	-	-	-	Input A DMX	Merger LTP	Merger LTP	Merger LTP	Merger LTP	Merger LTP	Merger LTP	Merger LTP	Merger LTP	Merger LTP	Merger LTP
No RDM Support				Input B DMX										
5: Backup	-	-	-	Input A DMX	Merger Backup	Merger Backup	Merger Backup	Merger Backup	Merger Backup	Merger Backup	Merger Backup	Merger Backup	Merger Backup	Merger Backup
No RDM Support				Input B DMX										
6: Toggle	-	-	-	Input A DMX	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle	Merger Toggle
No RDM Support				Input B DMX										
7: Artnet 2.x	Automatic 2.x	255.0.0.0	Artnet	Input A Universe	A	A	A	A	A	A	A	A	A	A
8: Dual Artnet 2.x	Automatic 2.x	255.0.0.0	Artnet	Input A Universe	A	A	A	A	A					
				Input B Universe						B	B	B	B	B
9: sACN DHCP	DHCP	DHCP	sACN	Input A Universe	A	A	A	A	A	A	A	A	A	A
No RDM Support														
10: Dual sACN DHCP	DHCP	DHCP	sACN	Input A Universe	A	A	A	A	A					
No RDM Support				Input B Universe						B	B	B	B	B
11: sACN 2.x	Automatic 2.x	255.0.0.0	sACN	Input A Universe	A	A	A	A	A	A	A	A	A	A
No RDM Support														
12: Dual sACN 2.x	Automatic 2.x	255.0.0.0	sACN	Input A Universe	A	A	A	A	A					
No RDM Support				Input B Universe						B	B	B	B	B
13: sACN 10.x	Automatic 10.x	255.0.0.0	sACN	Input A Universe	A	A	A	A	A	A	A	A	A	A
No RDM Support														
14: Dual sACN 10.x	Automatic 10.x	255.0.0.0	sACN	Input A Universe	A	A	A	A	A					
No RDM Support				Input B Universe						B	B	B	B	B

MENU: DMX INPUTS – A & B

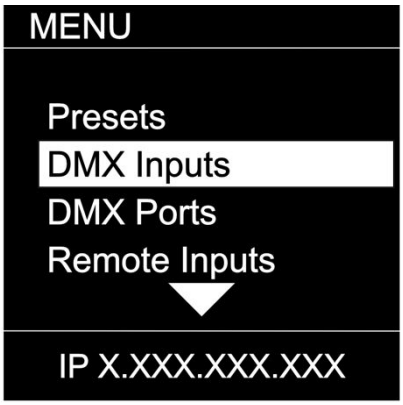
The RDM10 processes two DMX Inputs. The source can either be the DMX ports on the unit, or a network Universe via the RJ45 ports. For a network source, two Universes can be merged into the Input.

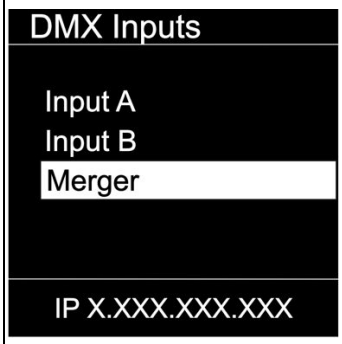


SUB MENU	OPTIONS / VALUES			DESCRIPTION
	Source		**DMX**, Network, SendValue	Select the source protocol
	DMX	Source	**DMX**	
		RDM	Disable, **Enable**	Disable / Enable RDM traffic for this port
	Network	Source	Network	
		Universe	1 – 32767	Select universe
		Protocol	ArtNet, **sACN**	Select the protocol
		FrameRate	10Hz, 15Hz, 20Hz, 25Hz, 30Hz, **35Hz**, 40Hz	Select the desired frame rate
		RDM	Disable, **Enable**	Disable / Enable RDM traffic for this port
		Merge	**OFF**, HTP, LTP, Toggle	Select mode
		Range	From: 1 – 512	To limit the DMX range, set the first address of the DMX port
			To: 1 – 512	To limit the DMX range, set the last address of the DMX port
		Offset Addr	**OFF**, 2-512	Offset start address, incoming channel X value is sent on this port as channel X+Offset, Channels are cut off if they exceed 512
	SendValue	Source	SendValue	Select the source protocol
		Value	0 - 255	Select universe
		FrameRate	10Hz, 15Hz, 20Hz, 25Hz, 30Hz, **35Hz**, 40Hz	Select the desired frame rate
		Range	From: 1 – 512	To limit the DMX range, set the first address of the DMX port
			To: 1 – 512	To limit the DMX range, set the last address of the DMX port

MENU: DMX INPUTS – MERGER

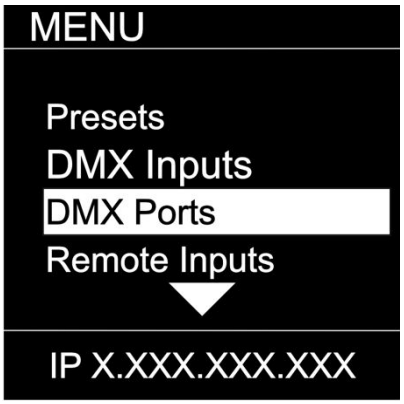
This menu defines how Inputs A and B are combined. The results can be mapped onto a DMX port by choosing “Merger” as the source.

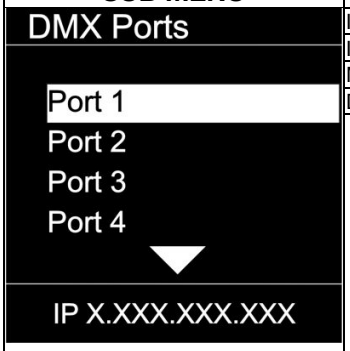
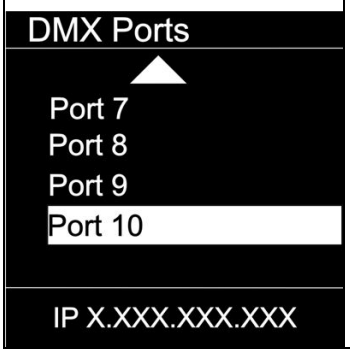


SUB MENU	OPTIONS / VALUES		DESCRIPTION
	**OFF**, HTP, LTP, Backup, toggle		
	OFF		The inputs are not combined
	HTP		A and B are merged by Highest Takes Precedence
	LTP		A and B are merged by Last Takes Precedence
	Backup		Source A is used until no valid traffic is received, then Source B is activated. Once traffic resumes on Source A, it restores back to Source A
	Toggle		The complete source Universe is switched over without delay as soon as a single DMX value changes
	Backup Time	**0s** (0-88)	This delays the backup switching from A to B
	Restore Time	**0s** (0-88)	This delays before the source is restored from B to A
	Framerate	10Hz, 15Hz, 20Hz, 25Hz, 30Hz, **35Hz**, 40Hz	Select the desired frame rate
	Range	From:**1**-512	To limit the DMX range, set the first address of the DMX port
		To: 1-**512**	To limit the DMX range, set the last address of the DMX port
	Offset Addr	**OFF**, 2-512	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: DMX PORTS

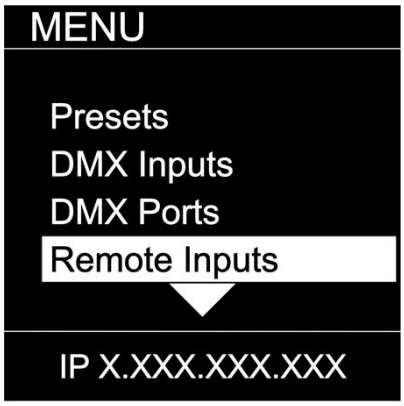
Select a port number to assign the source. Input and Merger settings and rules are defined in other menus.

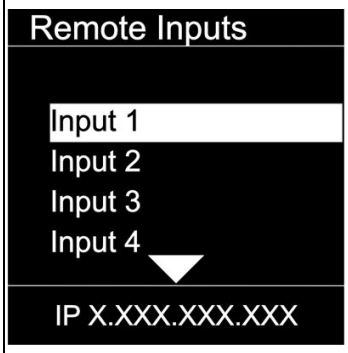
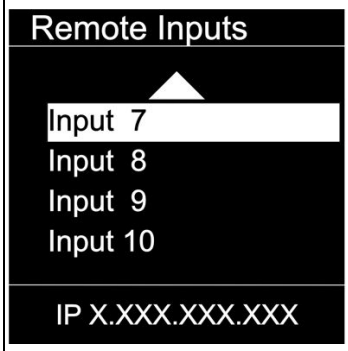


SUB MENU	OPTIONS / VALUES	DESCRIPTION
 	Input A	Send values defined for Input A
	Input B	Send values defined for Input B
	Merger	Send values defined by the merger
	Disable	Port is disabled

MENU: REMOTE INPUTS

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.



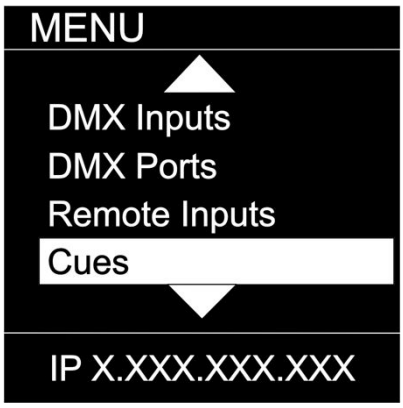
SUB MENU	OPTIONS / VALUES			DESCRIPTION
 	ACT	Disable DMX		Stops all DMX output for as long as contact is closed
		Cue	Cue	1-99	Recall a specific cue number
			Mode	Trigger	The cue is activated, and all times and links are processed even if the contact is opened again
				Toggle	The cue is activated, and all times and links are processed only as long as the contact is closed.
		Netron Preset	1. Splitter AB 2. Splitter A 3. HTP Merge 4. LTP Merge 5. Backup 6. Toggle 7. ArtNet 2.x 8. Dual ArtNet 2, 9. sACN DHCP 10. Dual sACN DHC 11. sACN 2.x 12. Dual sACN 2.x 13. sACN 10.x 14. Dual sACN 10.x		Recalls this Netron preset when the contact is closed
		User Preset	1-10		Recalls this user preset when contact is closed
		Send Value	0-255		Sends specific DMX value on all ports for as long as contact is closed
	Source	Disable			Input is disabled
		Contact			Use local contact closure on the back of the device
		DMX Port	Port A		Use DMX Input Values
			Port B		
		ArtNet			Art-Net Trigger
		sACN			sACN 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: CUES



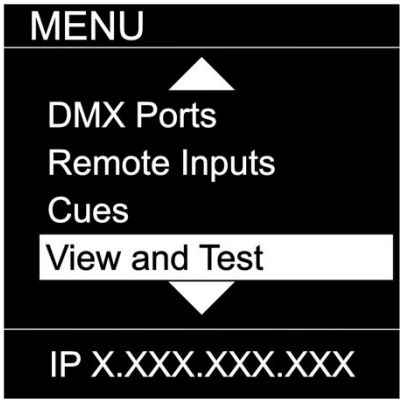
A cue is a full static snapshot of all DMX values of all ports. The device supports 99 cues with fade and hold times, plus a link option to loop multiple cues together. This allows small “mini” cuelists to be created. Cues are used for standalone operation, as a backup for signal loss or can be assigned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

Run Cue	1-99	Select the desired cue
Save Cue	1-99	Save all values on all ports to a cue slot
Rename Cue		Edit name of cue
Link Cue	Fade Time	Set the fade time of the cue
	Hold Time	Set the time to hold the cue until the next cue is started
	Link to Cue	Set the next Cue
Resend Ethernet	Disable	Cue data is not sent over Ethernet
	Enable	Cue data is sent on the Universe number and protocol assigned to the ports.

SUB MENU		OPTIONS / VALUES			DESCRIPTION
Cues 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
	Link Cues	1 – 99	Fade Time	0s – 60min	Set the fade time of the cue
			Hold Time	0s – 60min	Set the time to hold the cue until the next cue is started
			Link to Cue	Disable, 1 – 99	Set the next Cue
	Resend Ethernet	**Disable**			Cue data is not sent over Ethernet
		Enable			Cue data is sent on the Universe number and protocol assigned to the ports.

MENU: VIEW AND TEST

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



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

MENU: VIEW AND TEST (continued)

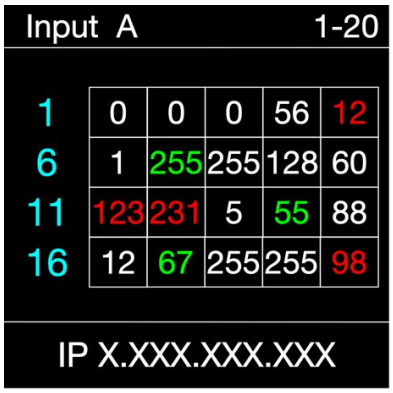
Monitor (DMX View, Art-Net View, sACN View)

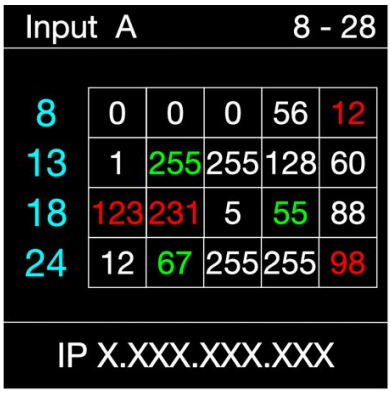
The monitoring options are helpful to find faults, or simply watch incoming traffic. Three styles are available by clicking the encoder wheel. Dial the wheel to change the display to the desired address, and then exit the monitor with the back button.

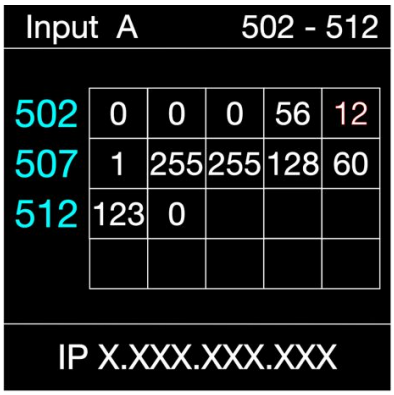
DMX Test Display – Grid

The color coding helps to quickly identify changing DMX values.

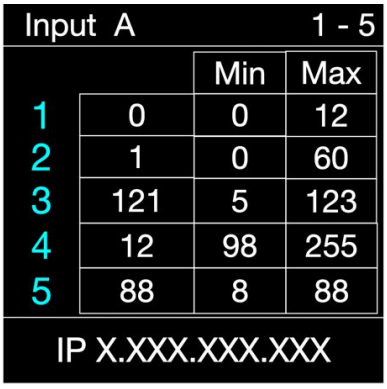
Cyan: DMX Address
Green: Value Decreased
Red: Value Increased
White: Value stable (after 10 seconds)



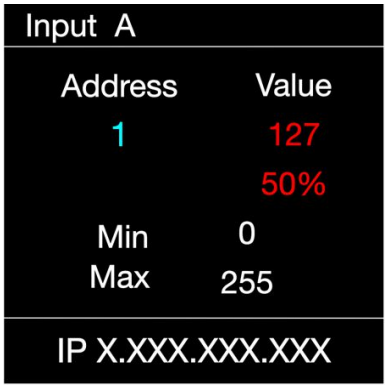




DMX Test Display – Line

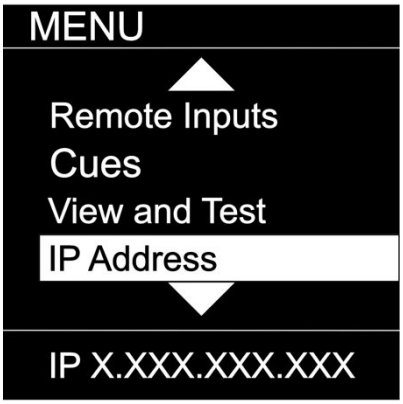


DMX Test Display – Address



MENU: IP ADDRESS

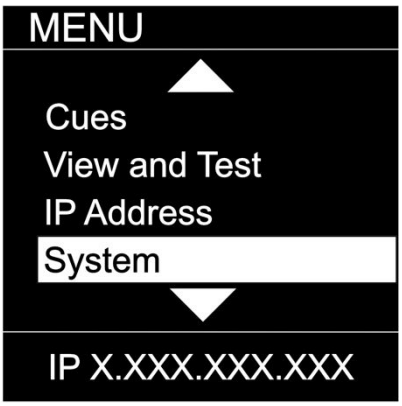
Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For Art-Net systems, it should never be necessary to adjust this IP. Any custom address and subnet can be assigned so the node can operate within any network environment.



SUB MENU		OPTIONS / VALUES		Description
IP Address 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			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
System Device Name Device ID Display Art-Net Offset IP X.XXX.XXX.XXX System Lock Device Startup Signal Loss Backup Config IP X.XXX.XXX.XXX System Signal Loss Backup Config RDM Processing Factory Reset IP X.XXX.XXX.XXX	Device Name	12 Character Label (i.e. NETRON RDM10)			Set a device name
	Device ID	0 – 999			Set an optional device ID
	Display	Display Timeout	Disable		Display stays on indefinitely
			10s, 30s, 1m, 5m, 10m		Display goes dark after this time
		Screen Brightness	1-10		Adjust the brightness of the internal display
		LED Brightness	0-10		Adjust the brightness of the front LEDs. Set to 0 to disable them.
		Home Screen	Device Info		The display shows port and connectivity information
			Cue Browser		The display shows a list of stored cues which can easily be browsed and started by the encoder wheel
	Art-Net Offset	Universe 1: 0-0			
		Universe 1: 0-1			
	Lock Device	PIN: 000 (**000**)	Lock	Disable	The device does not require a pin
				Timeout	The device asks for a pin after the display times out
			Manual Lock: 000 (**000**)	Lock / Unlock	Lock the device immediately
	Startup	Cue			Run a specific Cue at startup
		Wait for Data			No DMX is sent until valid data is received for the ports. The last incoming values continue to be sent on the ports until the time is expired. Once timeout has completed the device will perform one of the below actions
		Send 0			
	Signal Loss	Hold Last Look	**Forever**, 0s, 10s, 30s, 1m, 5m, 10m, 60m		The last incoming values continue to be sent on the ports until the time is expired. Once timeout has completed the device will perform one of the below actions.
		Fade to 0	0-60s **(30s)**		Crossfade to DMX 0. Set to 0s for instant out.
		Cue	1-99		Start Cue X
		Disable DMX			DMX traffic is turned off on all ports
	Backup Config	Save Config	Config Saved		Save current configuration including all cue data
		Load Config	Config Loaded		Reload configuration. Backups can be exported and imported from the web interface
	RDM Processing	All Disable			Disables RDM processing on the device
		All Enable			Enables all RDM processing on the device
	Factory Reset	Pin: 000 (**011**) Confirm	Device will be reset to factory defaults. Yes/**No**		Reset the device to factory default. It will reload NETRON Preset 1. All cues are deleted, and all settings are set to default.

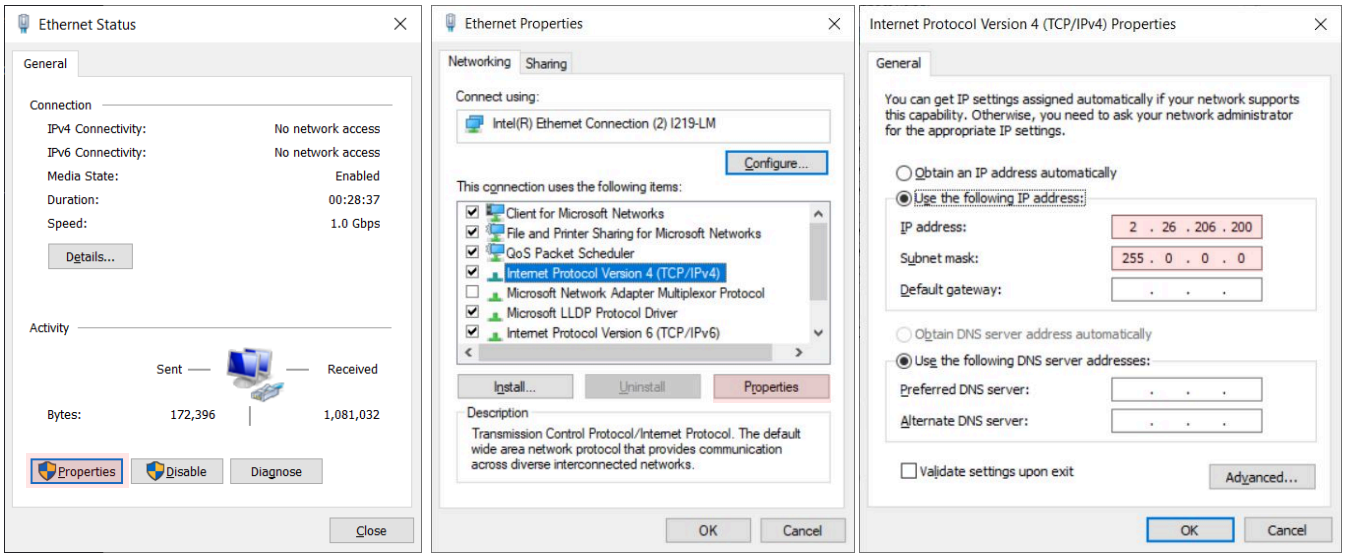
MENU: INFORMATION

This menu provides information about the device.

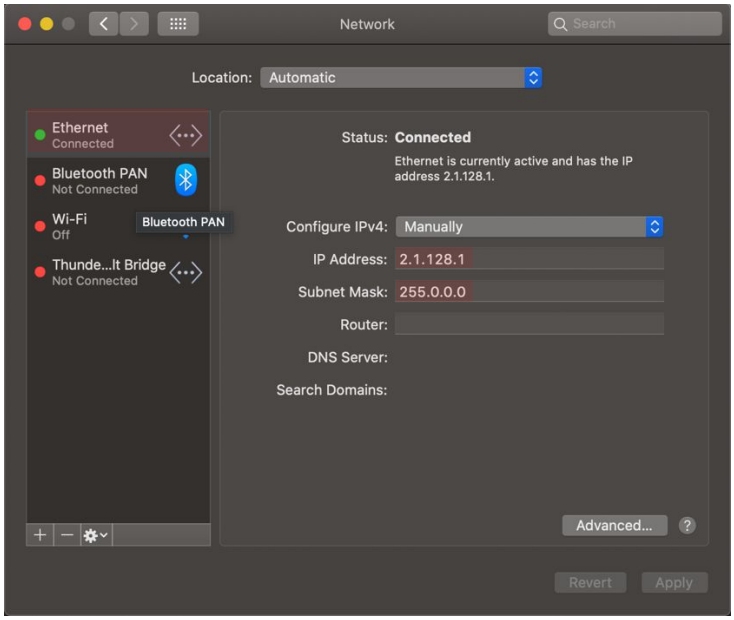
SUB MENU		OPTIONS / VALUES	DESCRIPTION
	Software Version	Boot SW V# Fw Ver: V# Web Ver: V#	Display the current software version
	Product On Time	Time: XXXXX(H)	Total time the device has been powered on.
	MAC Addre	x:x:x:x:x:x	Displays MAC address
	RDM UID	UIDA: xxxx UIDB: xxxx	Displays product RDM UID.

WEB REMOTE CONFIGURATION

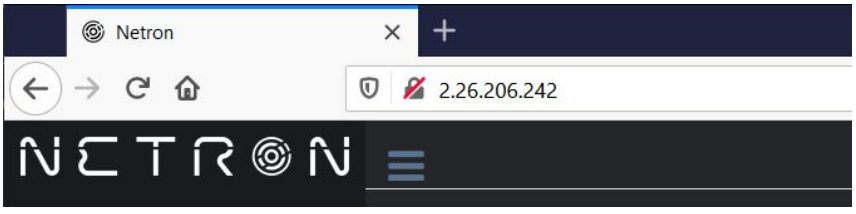
Ensure the device and a computer are in the same IP address range and connected.



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

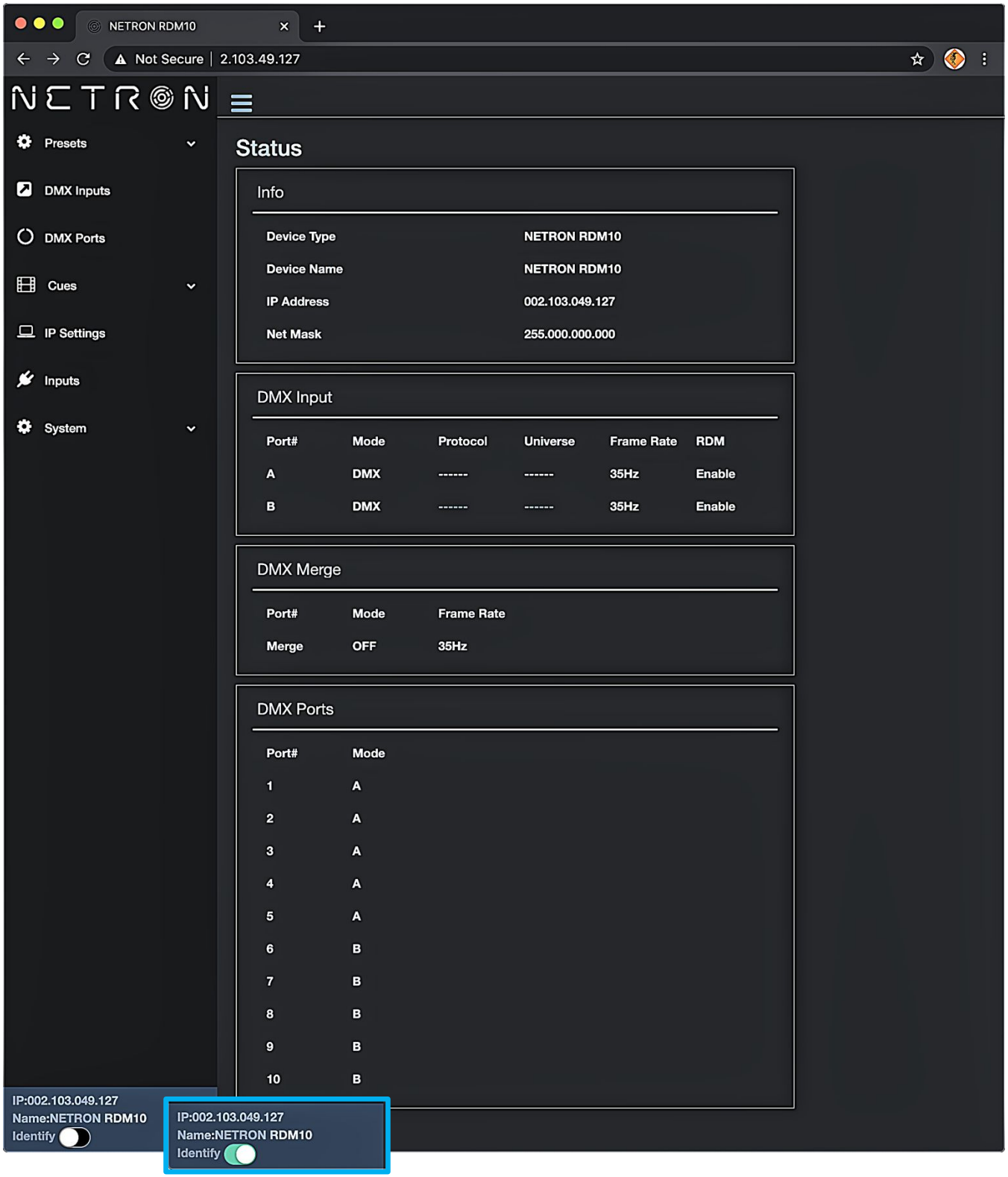


MAC OS Configuration Sample: Please note your MAC OS configuration results may vary.



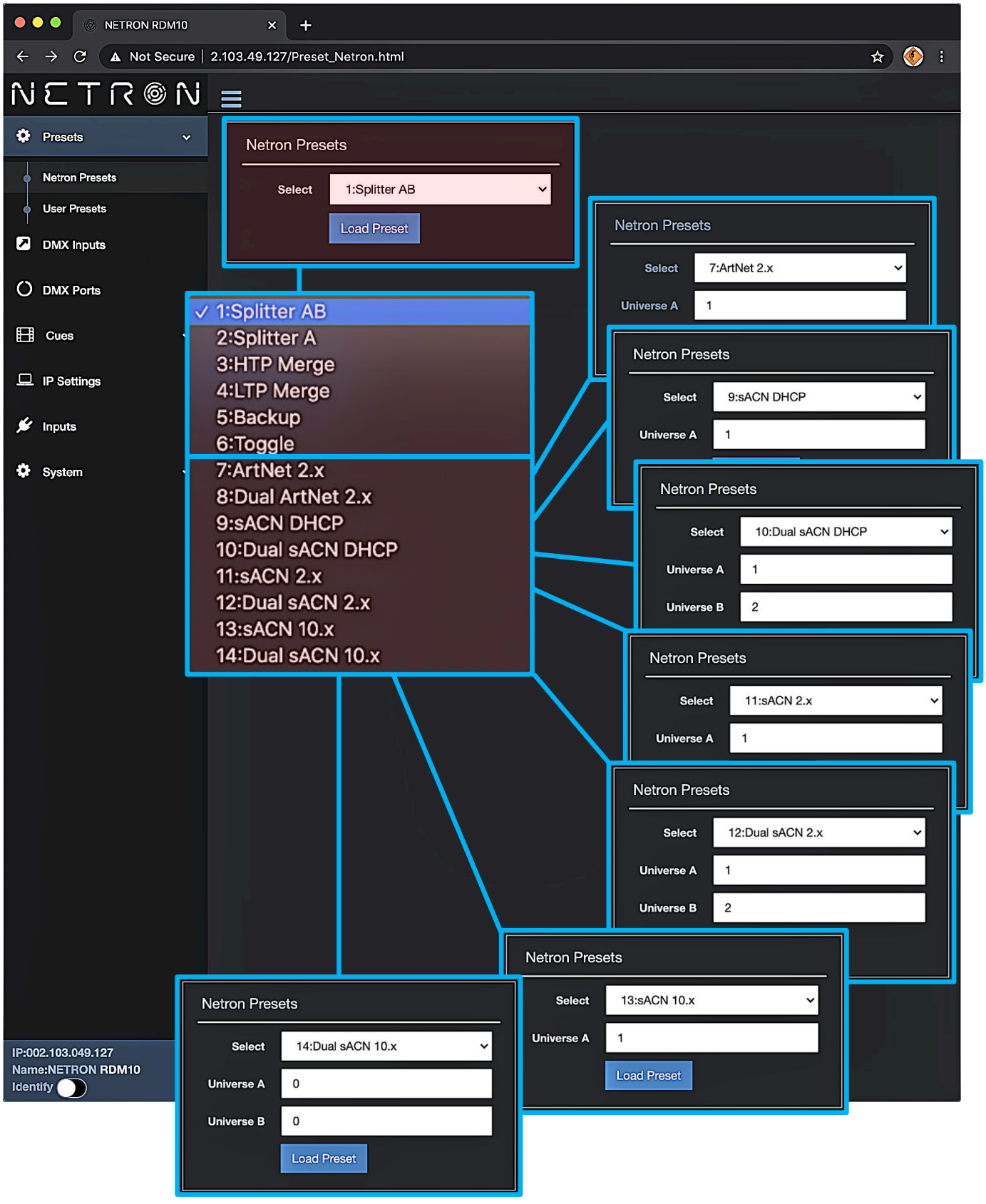
Browser Sample: Enter the device IP address into a web browser to access the device page.

WEB REMOTE MENU: HOMEPAGE

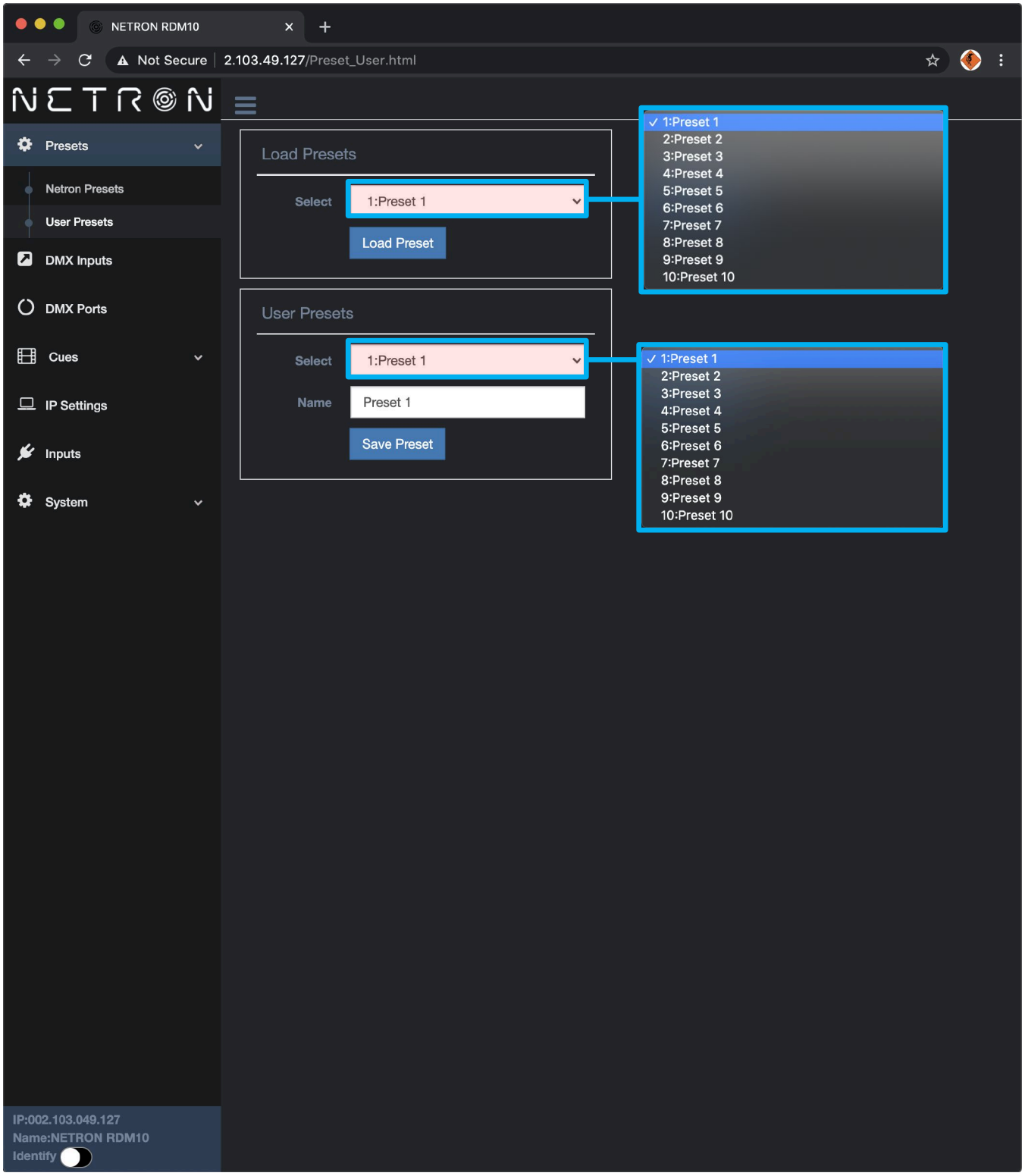


Identify Button: Identify sets device into blinking Red/White LEDs and a blinking display to find Netron devices.

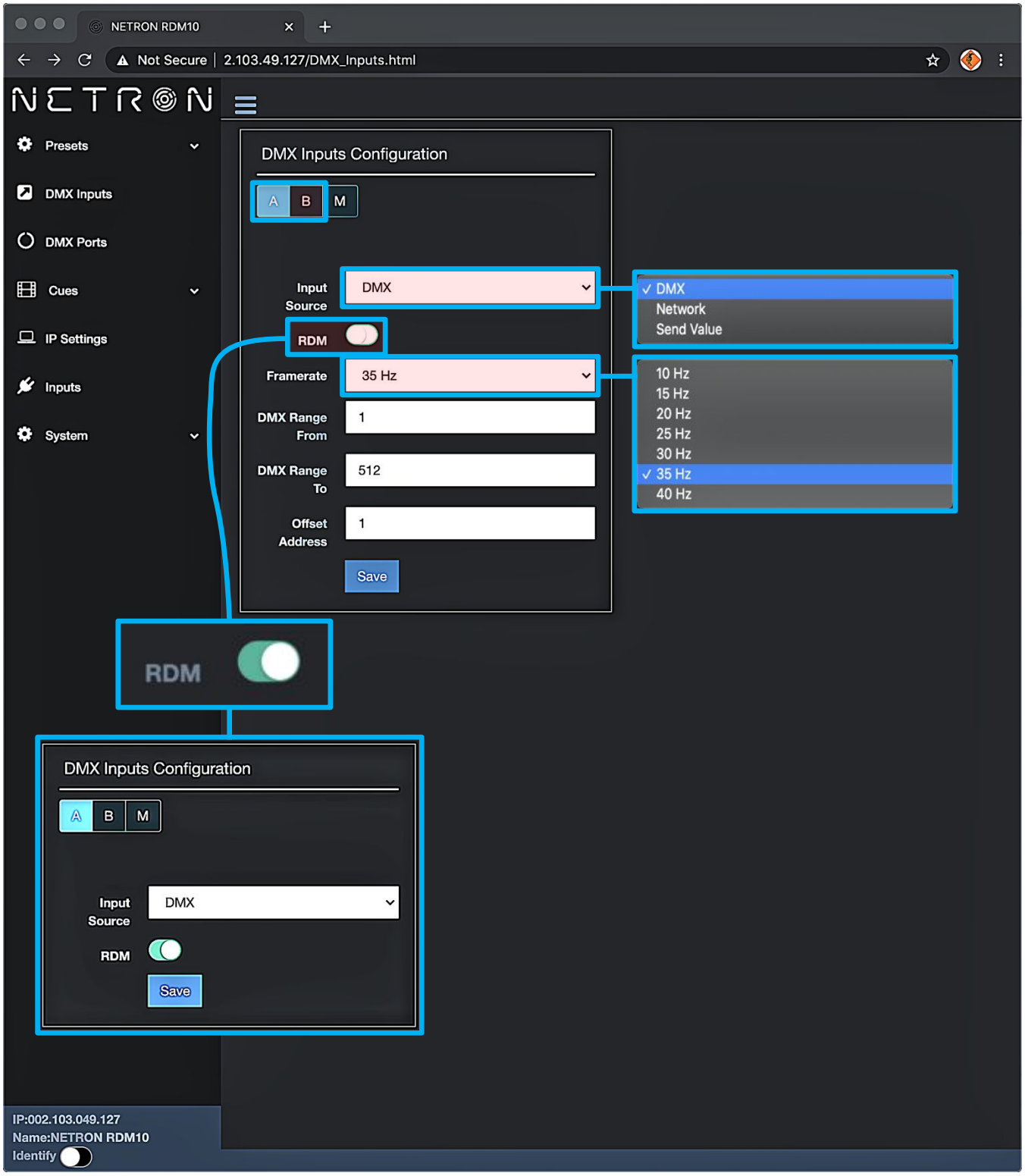
WEB REMOTE MENU: PRESETS – NETRON PRESETS



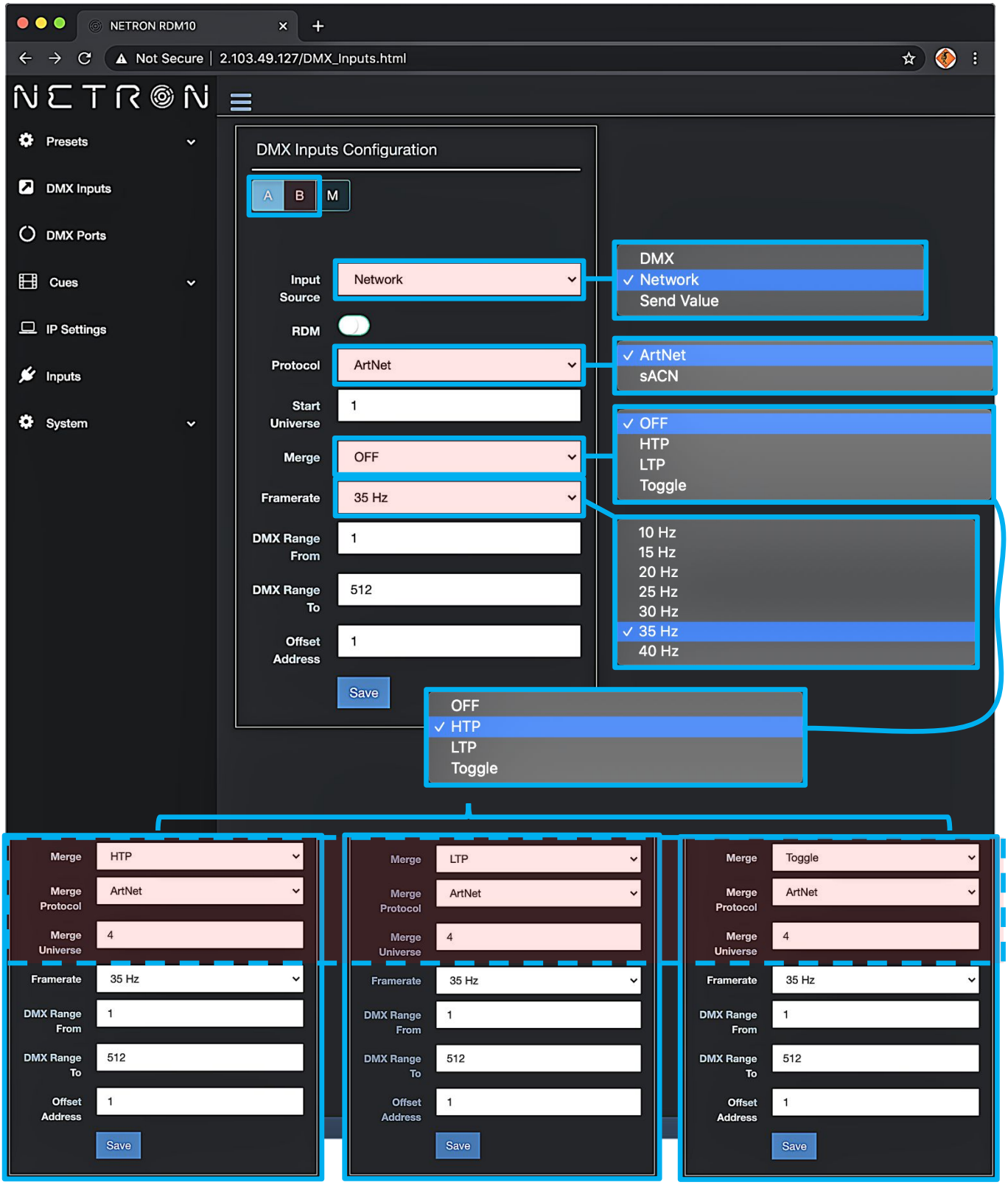
WEB REMOTE MENU: PRESETS – USER PRESETS



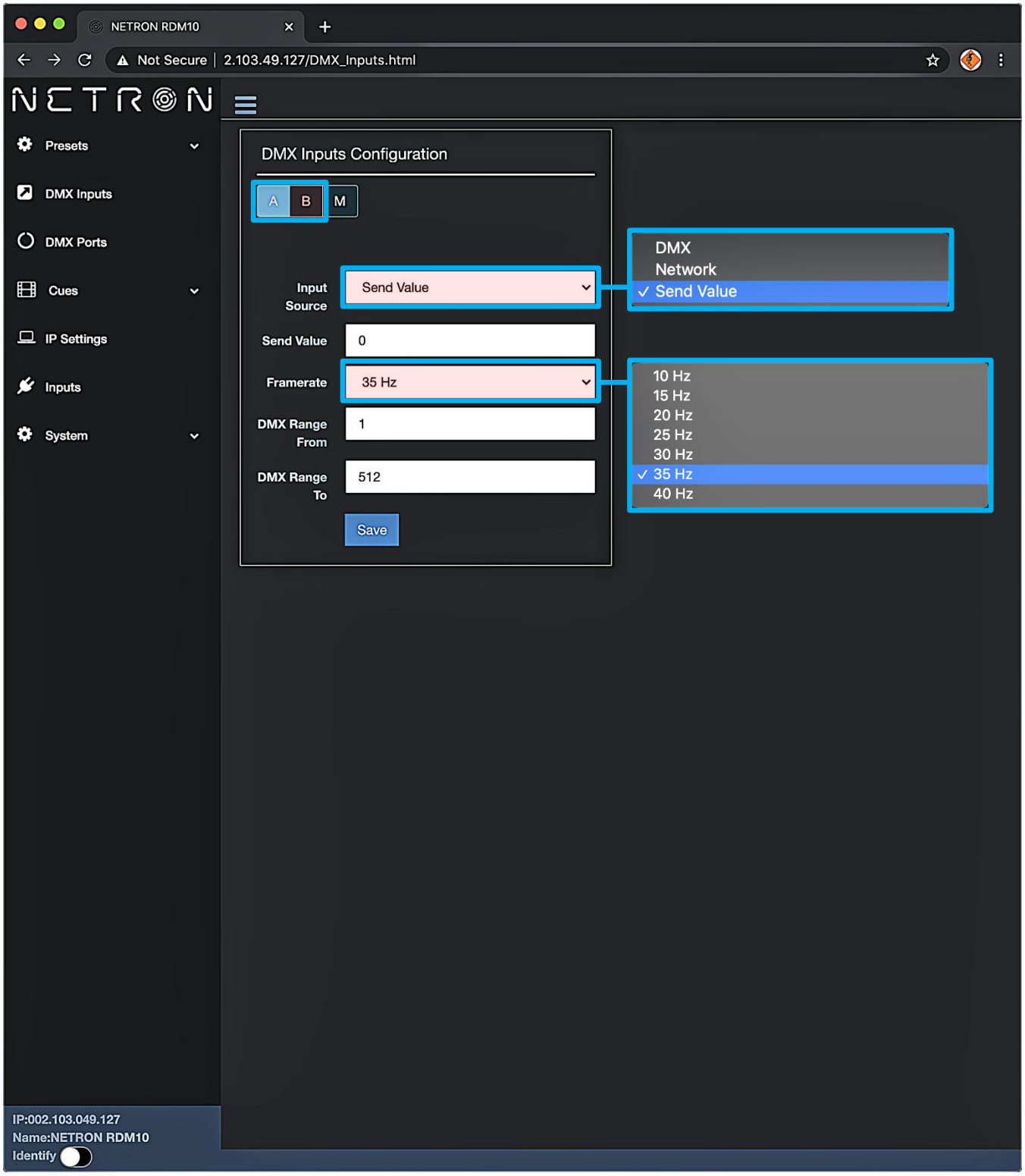
WEB REMOTE MENU: DMX INPUTS – A & B DMX



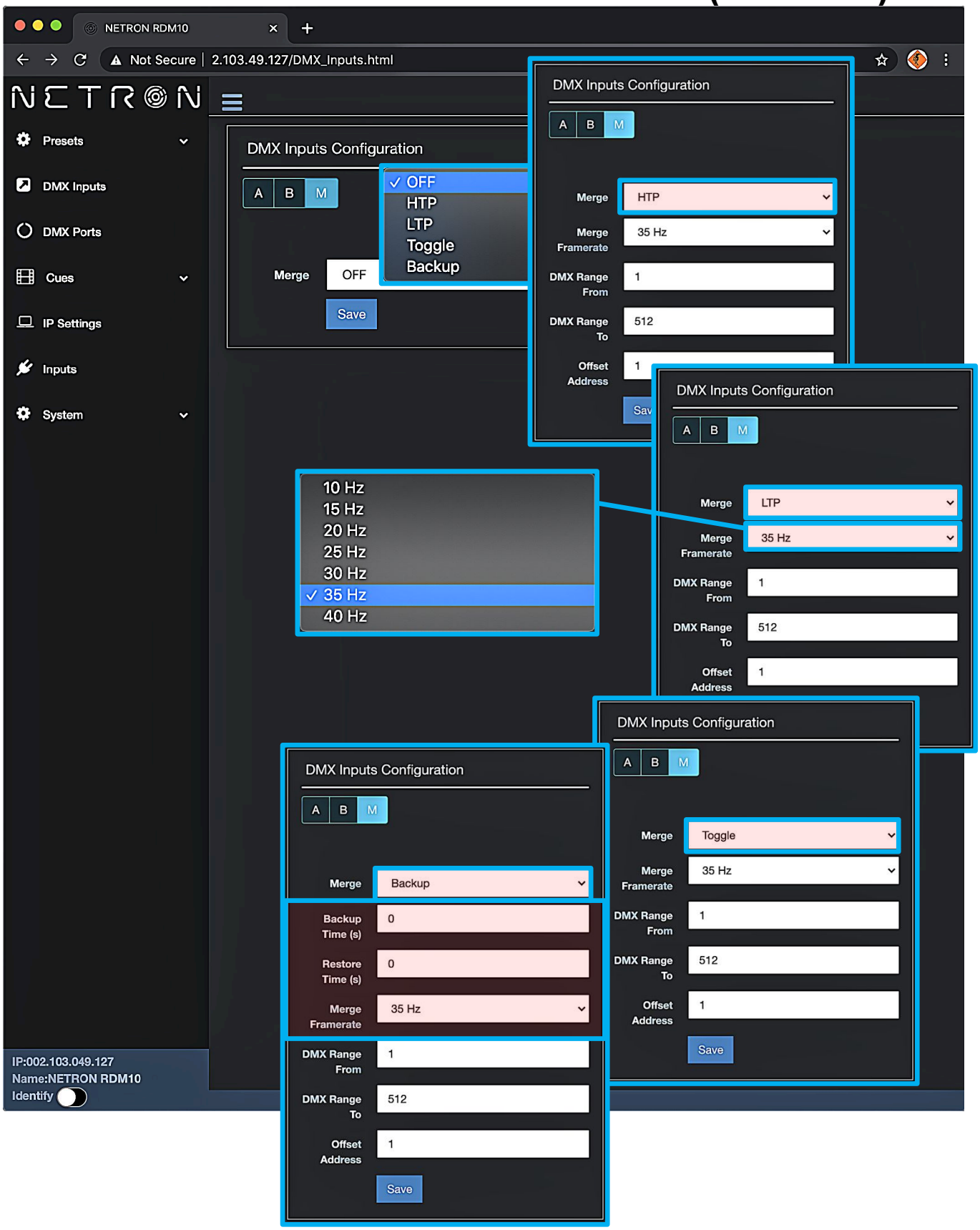
WEB REMOTE MENU: DMX INPUTS – A & B NETWORK



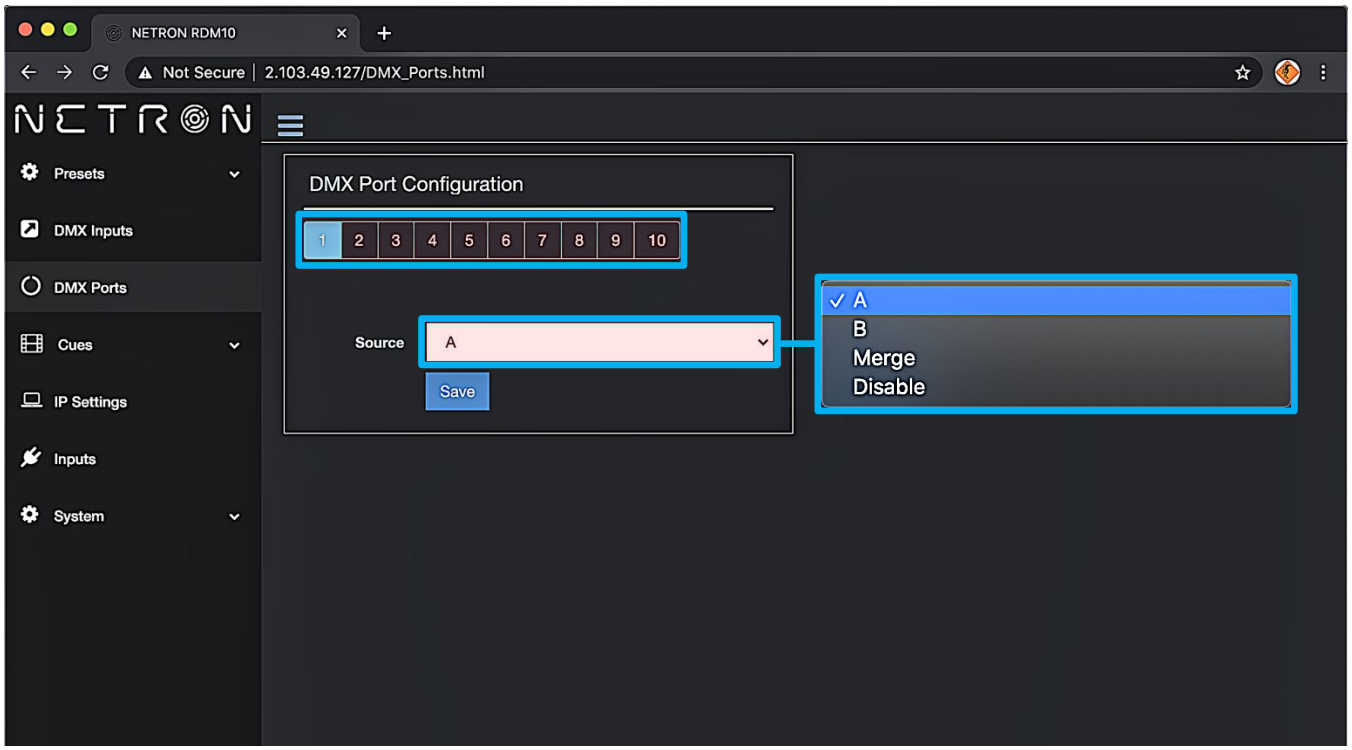
WEB REMOTE MENU: DMX INPUTS – A & B SEND VALUE



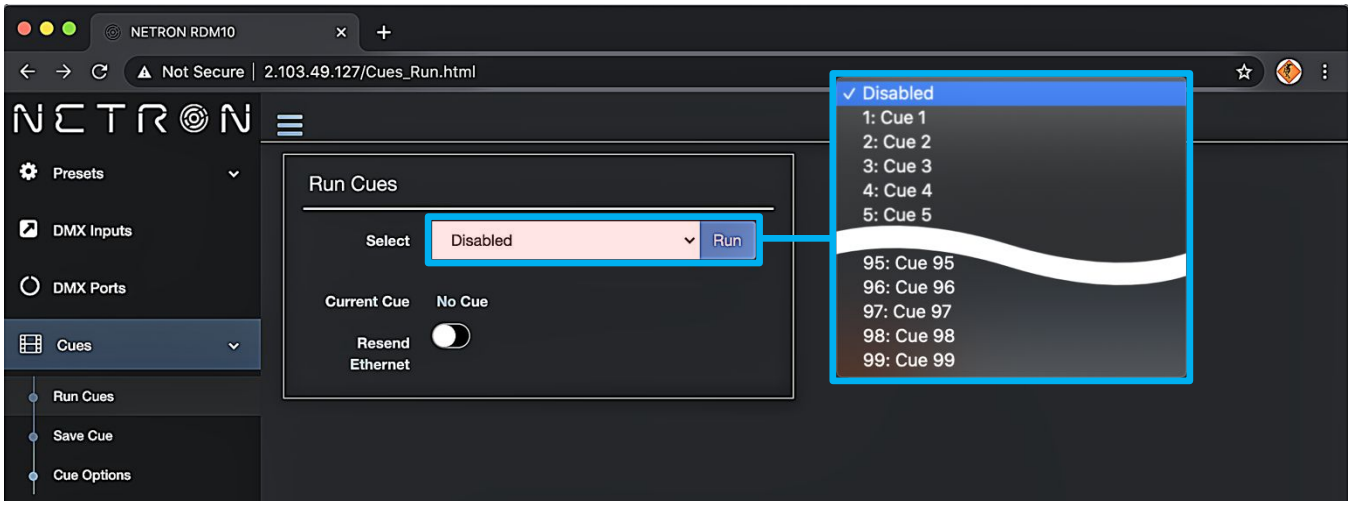
WEB REMOTE MENU: DMX INPUTS – M (MERGER)



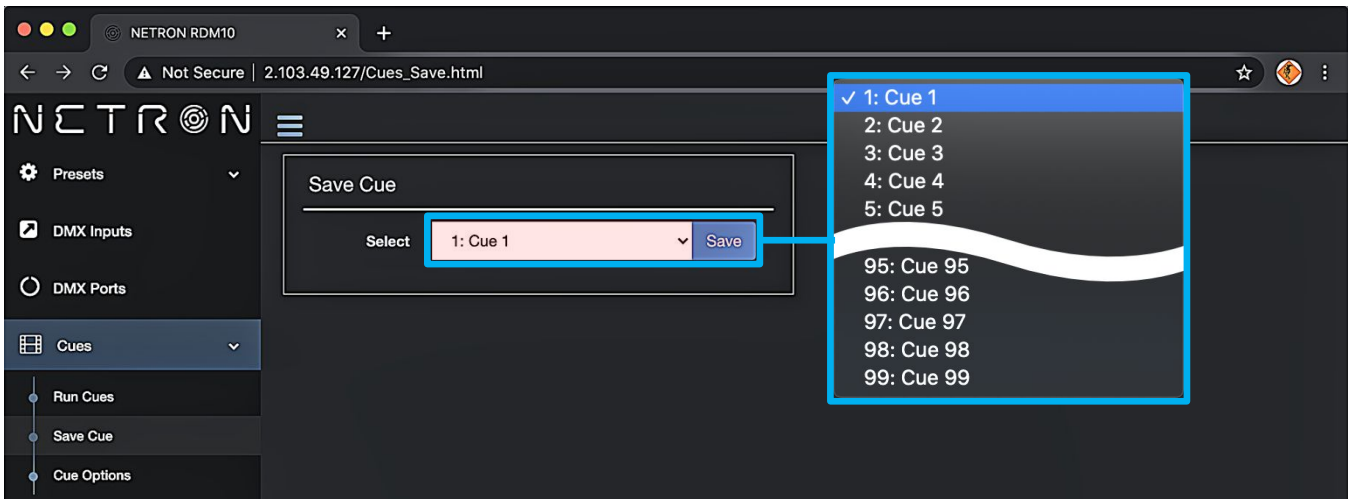
WEB REMOTE MENU: DMX PORTS



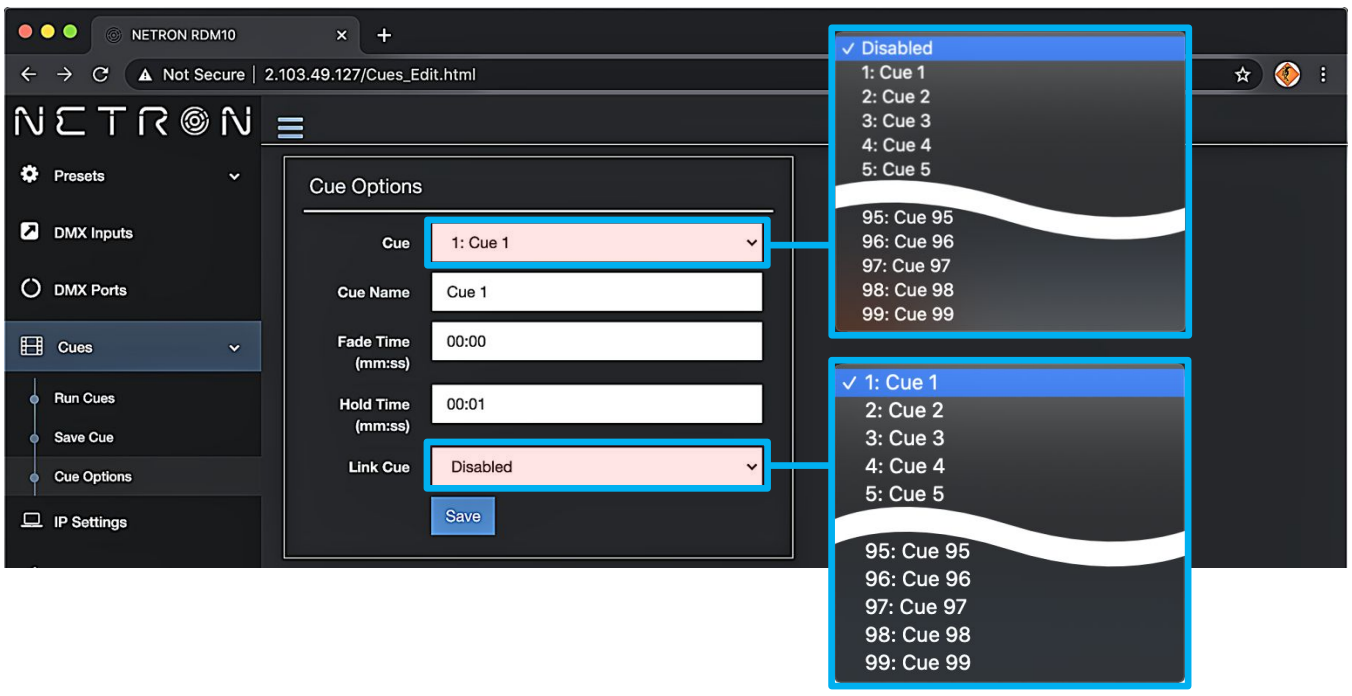
WEB REMOTE MENU: CUES – RUN CUES



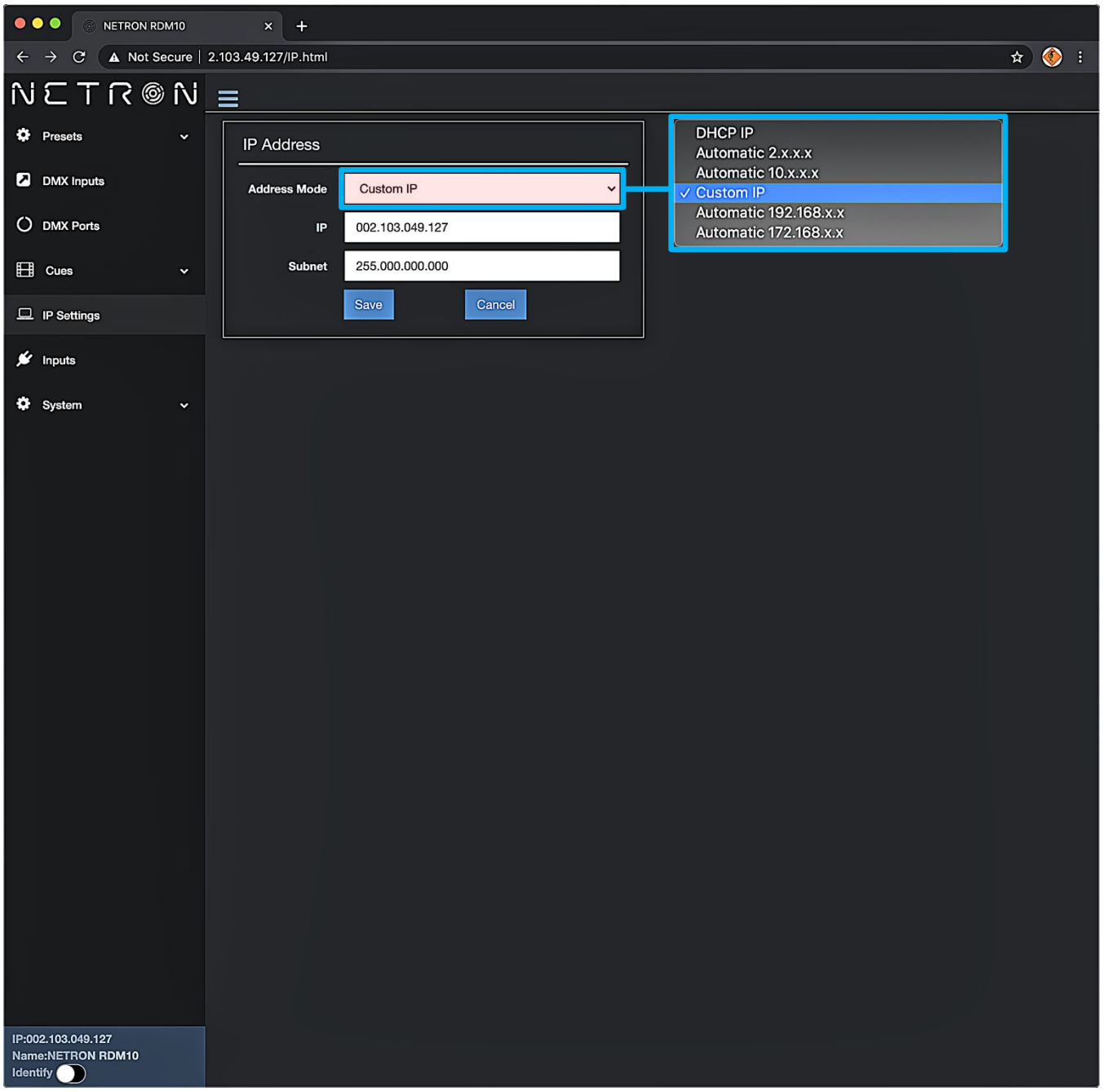
WEB REMOTE MENU: CUES – SAVE CUES



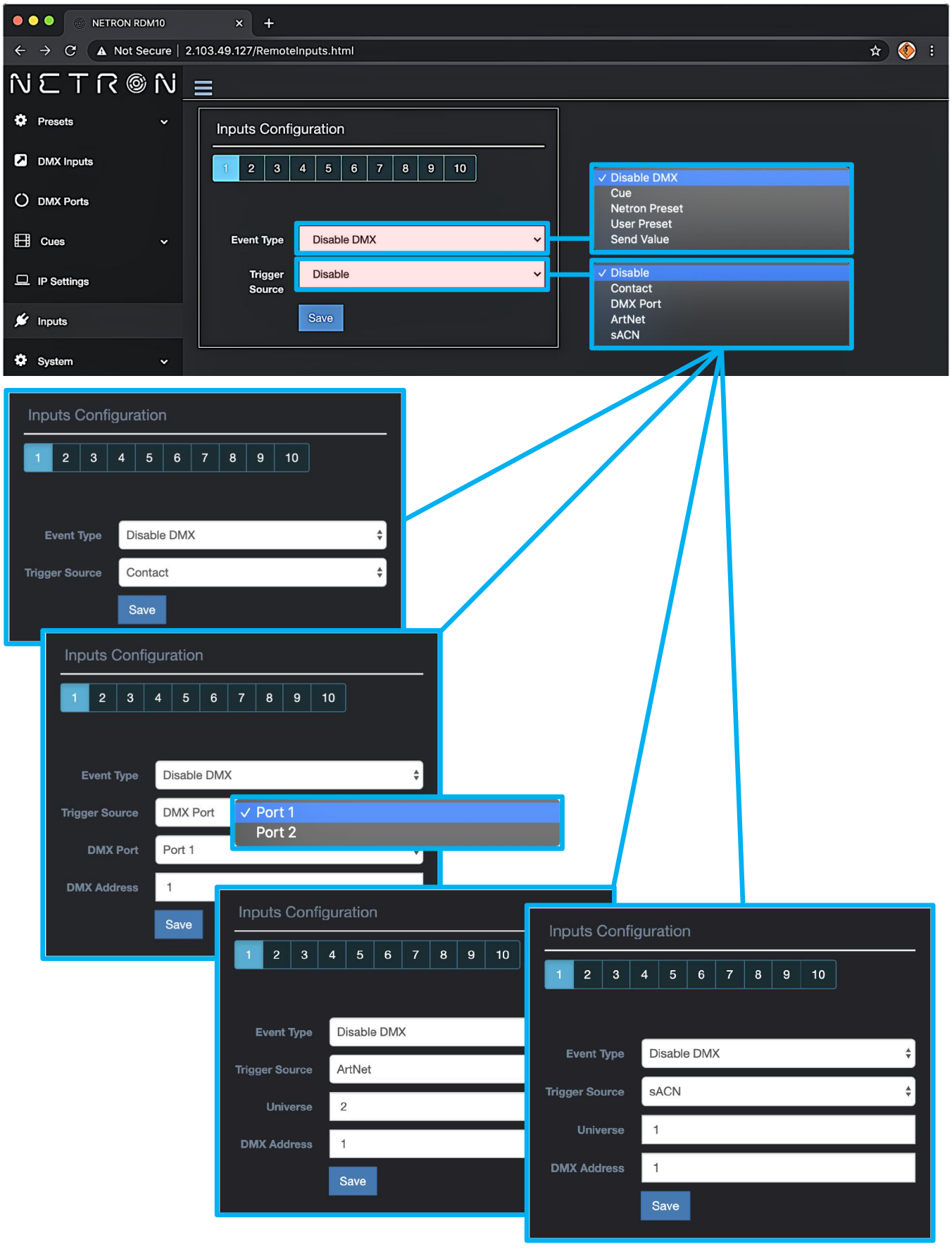
WEB REMOTE MENU: CUES – CUE OPTIONS



WEB REMOTE MENU: IP SETTINGS

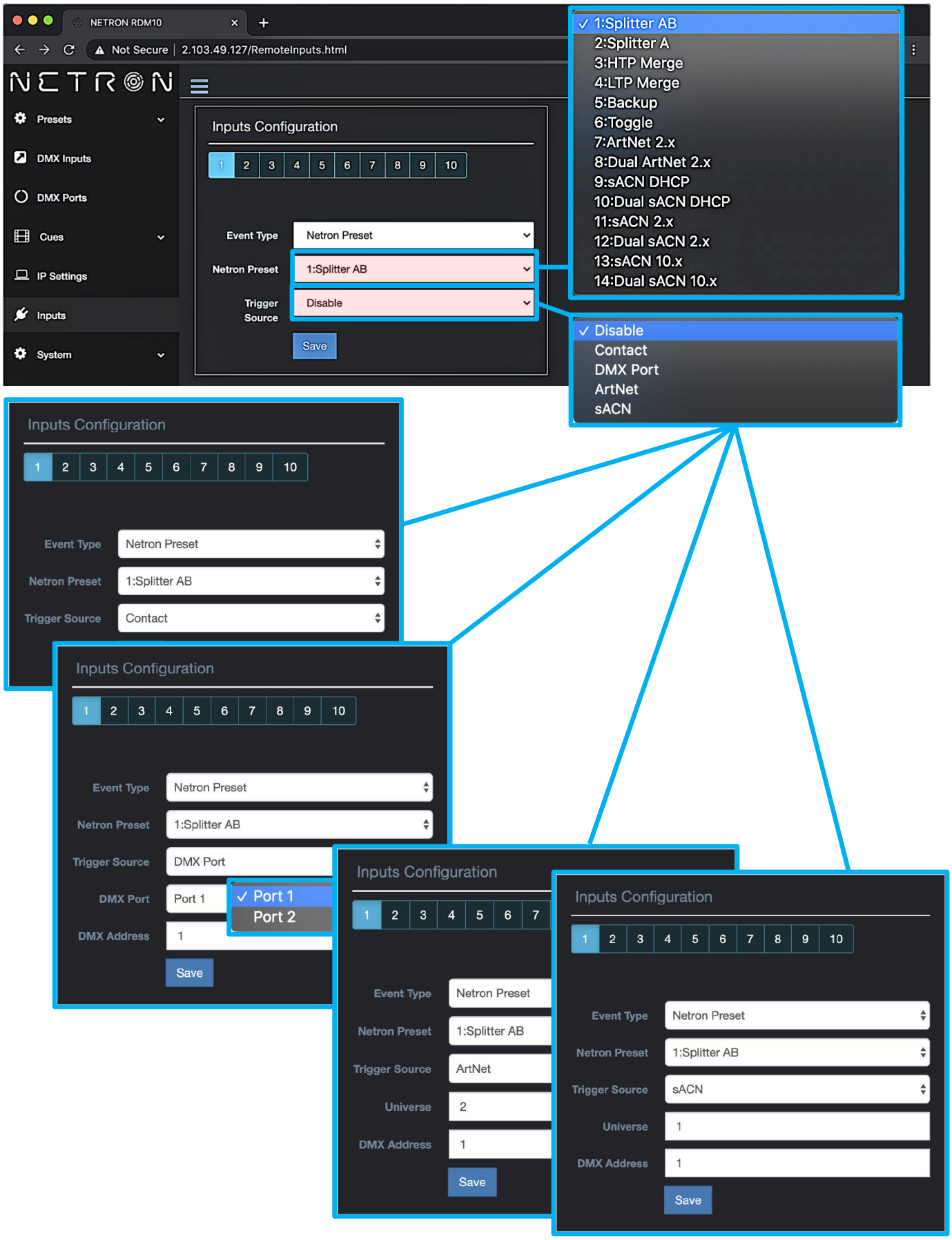


WEB REMOTE MENU: INPUTS – DISABLE DMX

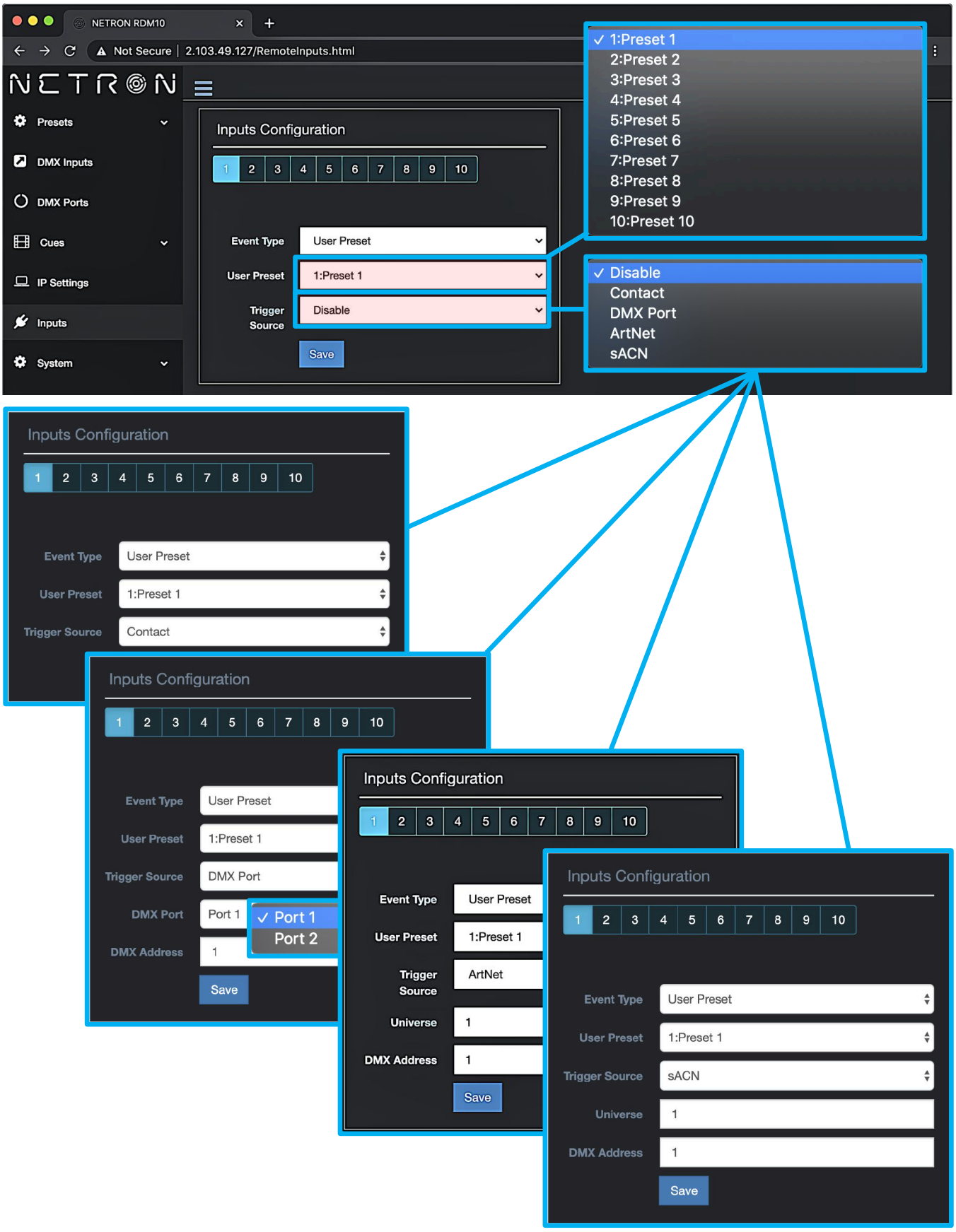


WEB REMOTE MENU: INPUTS – CUE

WEB REMOTE MENU: INPUTS – NETRON PRESET



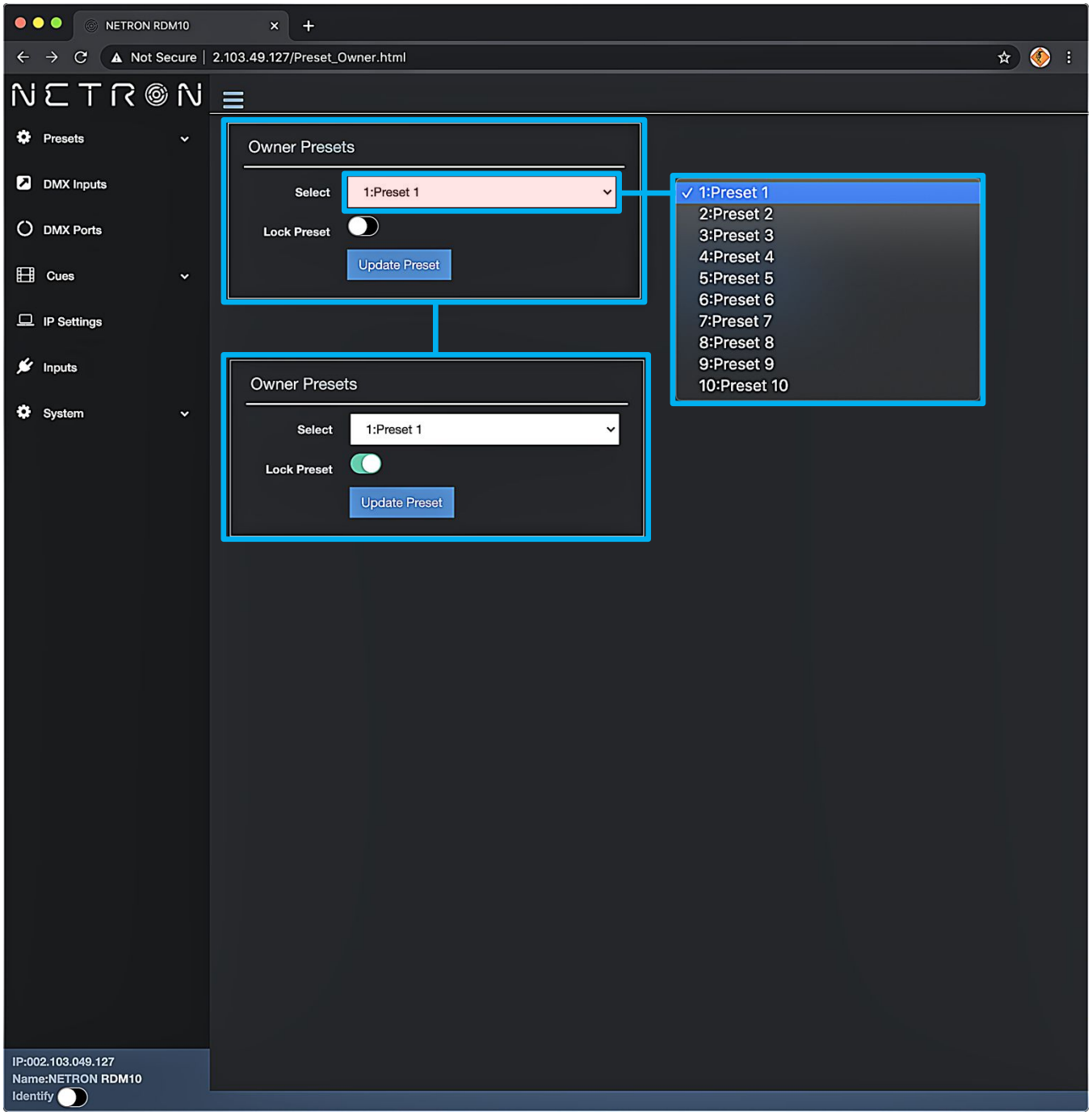
WEB REMOTE MENU: INPUTS – USER PRESETS



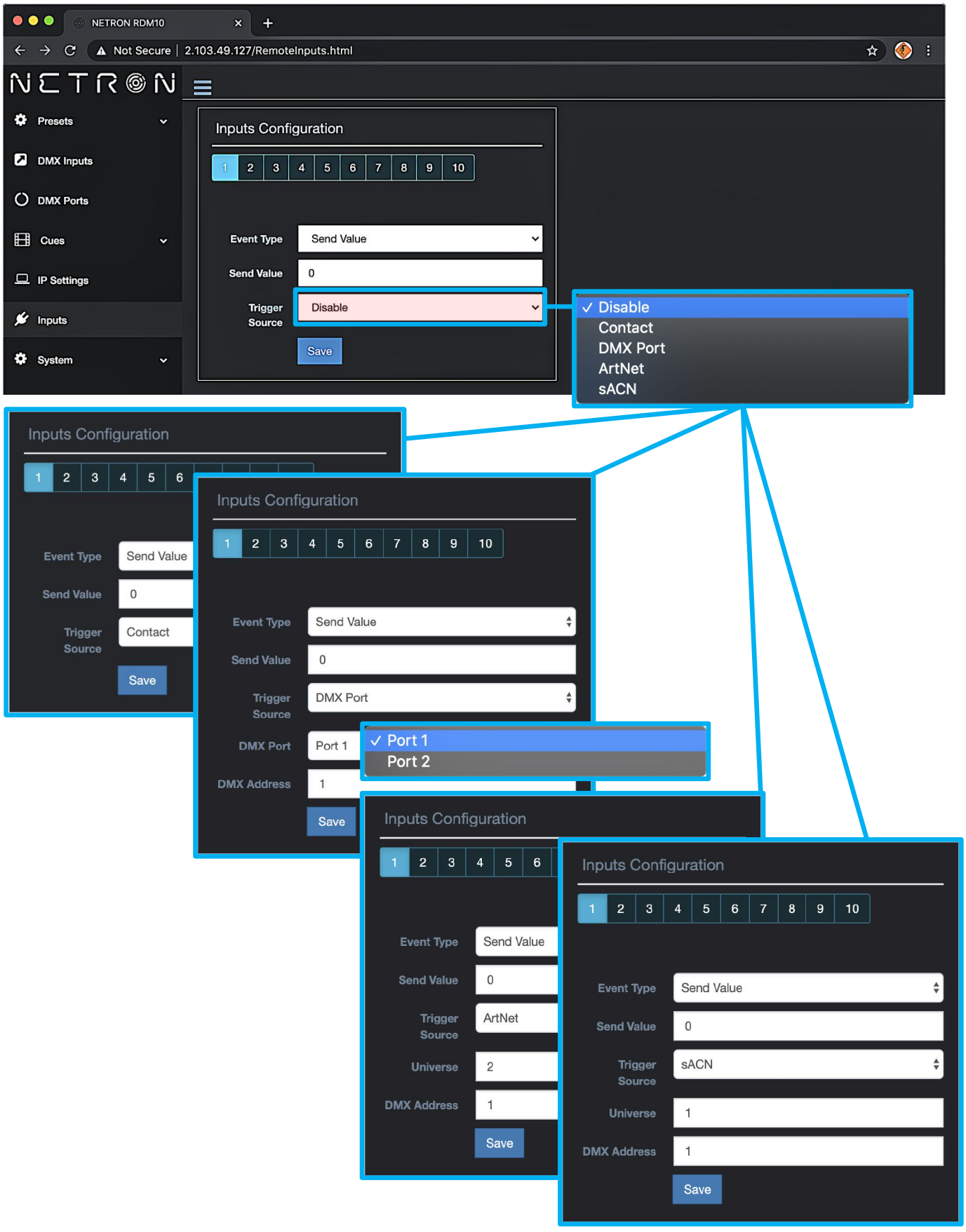
WEB REMOTE MENU: INPUTS – OWNER PRESETS

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.

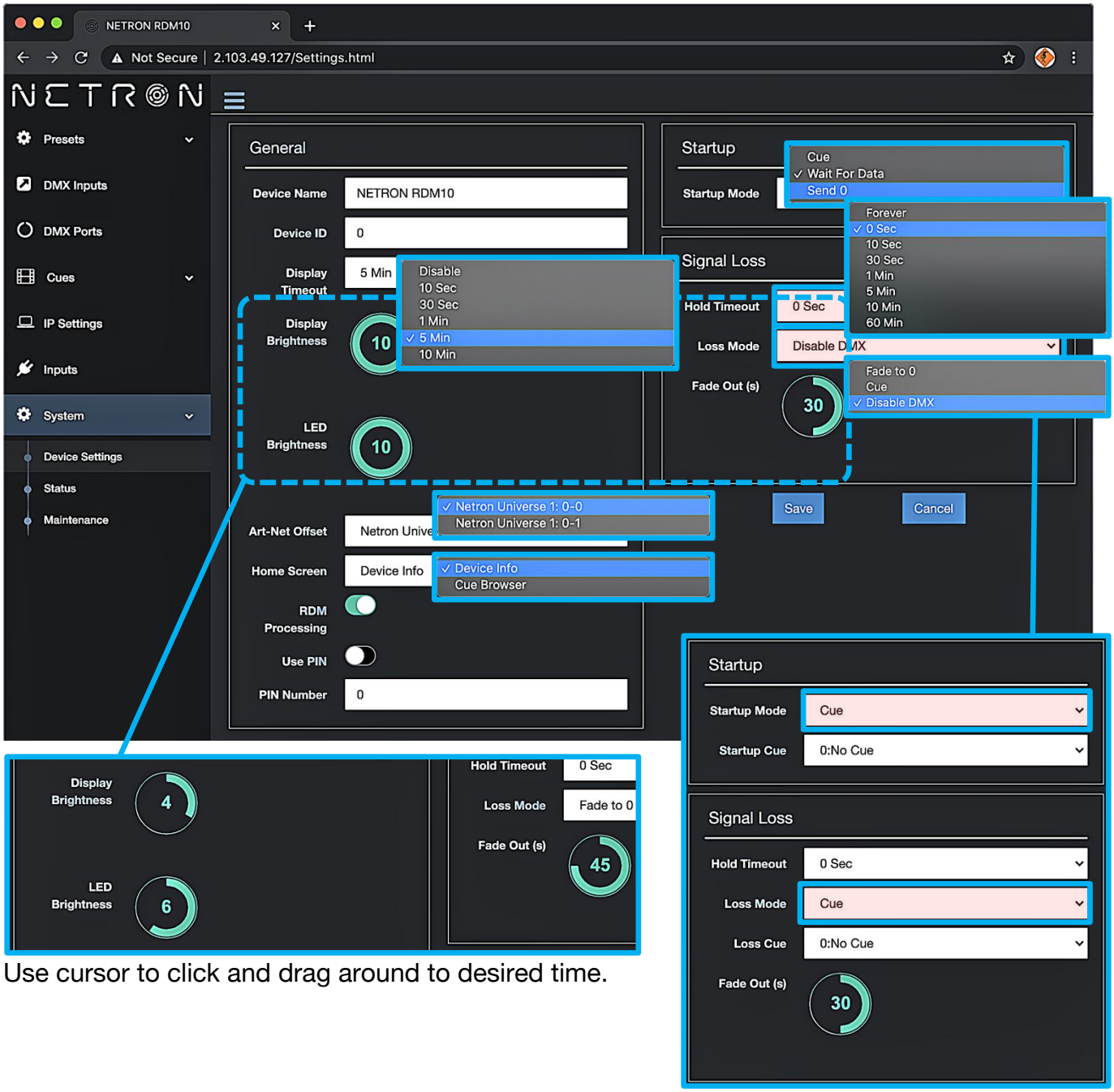
To access this function, use the specific URL IP_Address/Preset_Owner.htm, which is not part of the main interface. Select the desired preset, activate the lock, and Update to confirm. Owner presets are indicated with a lock symbol in the display.



WEB REMOTE MENU: INPUTS – SEND VALUE

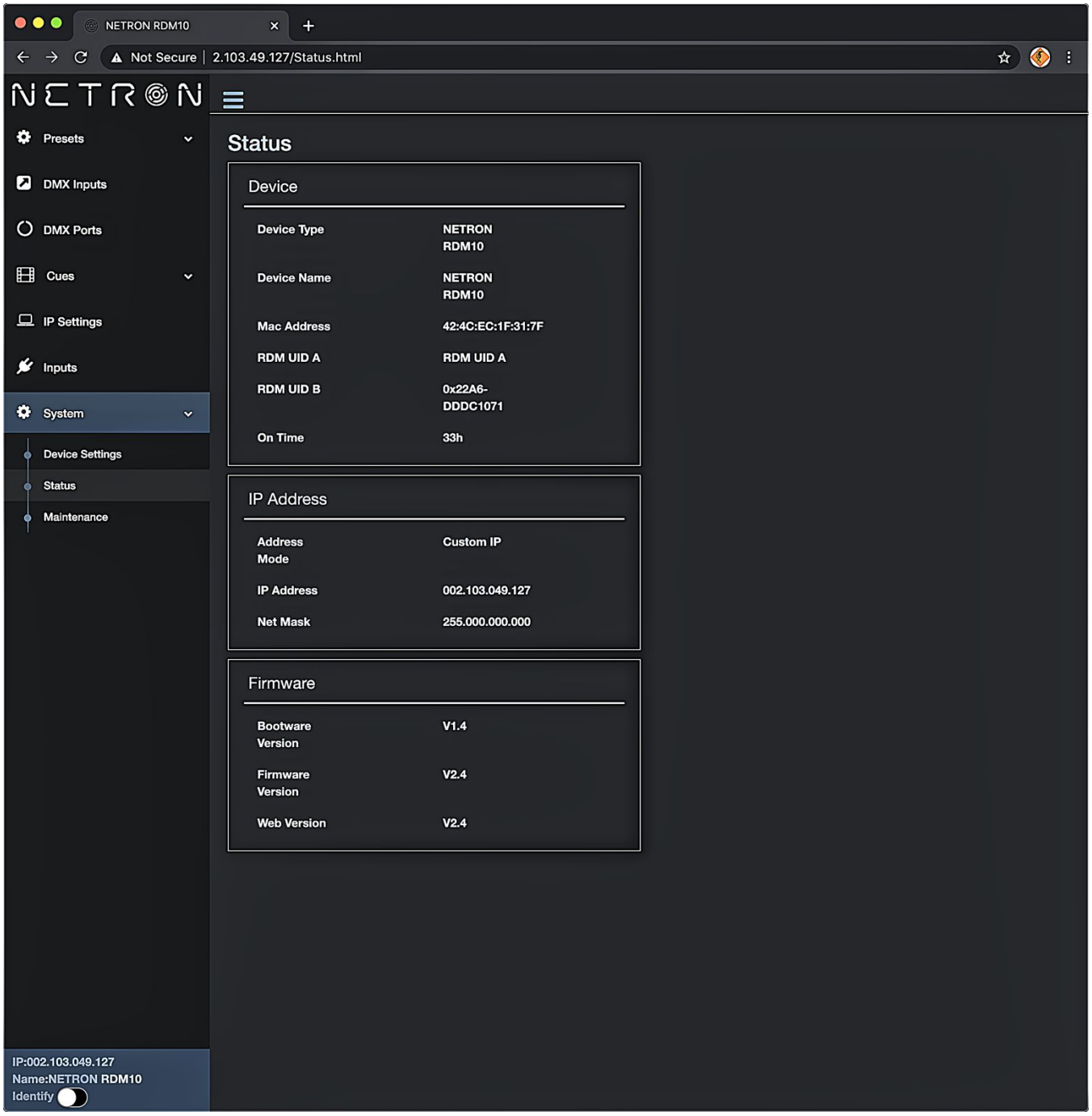


WEB REMOTE MENU: SYSTEM – DEVICE SETTINGS

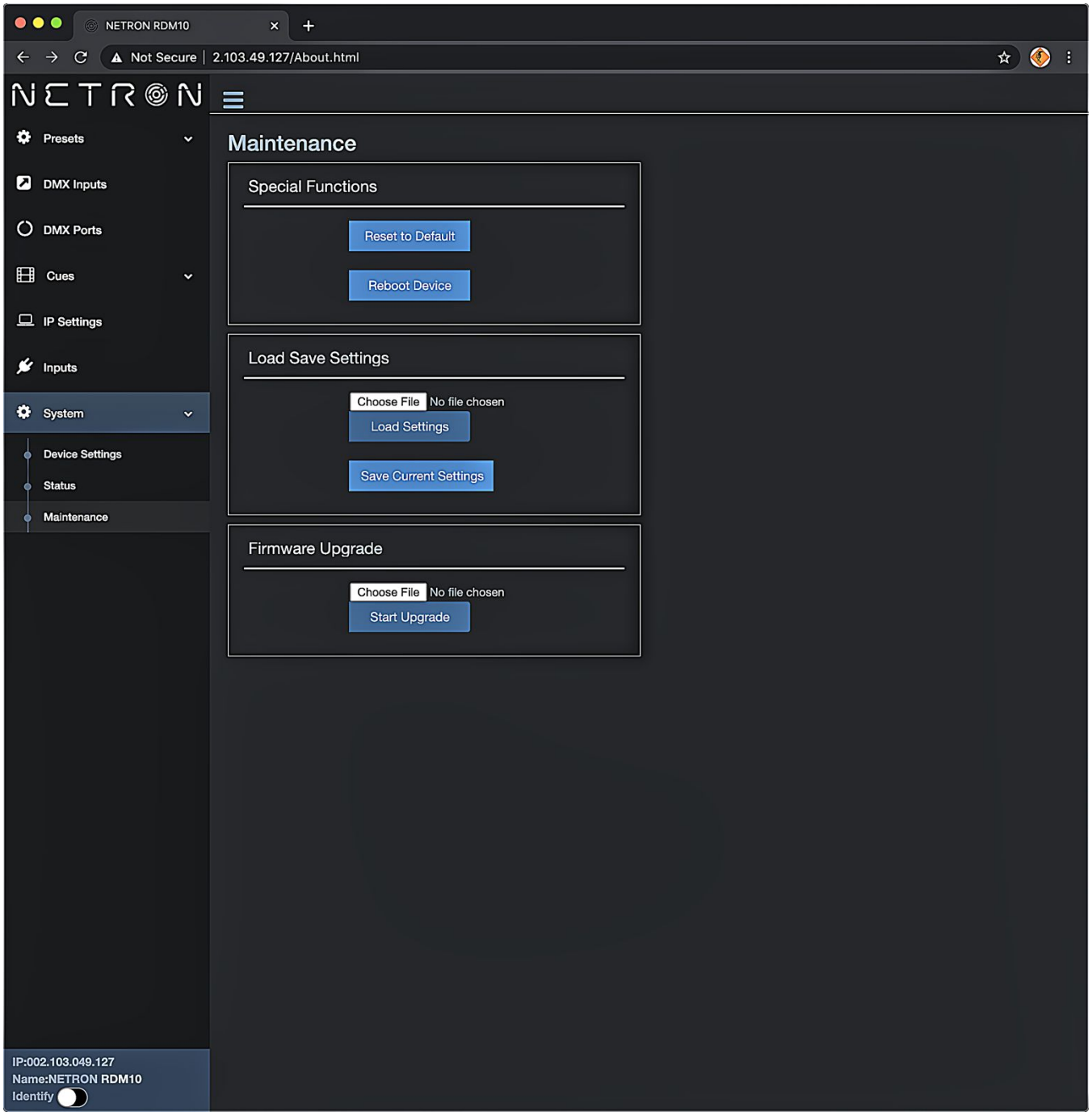


Use cursor to click and drag around to desired time.

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.

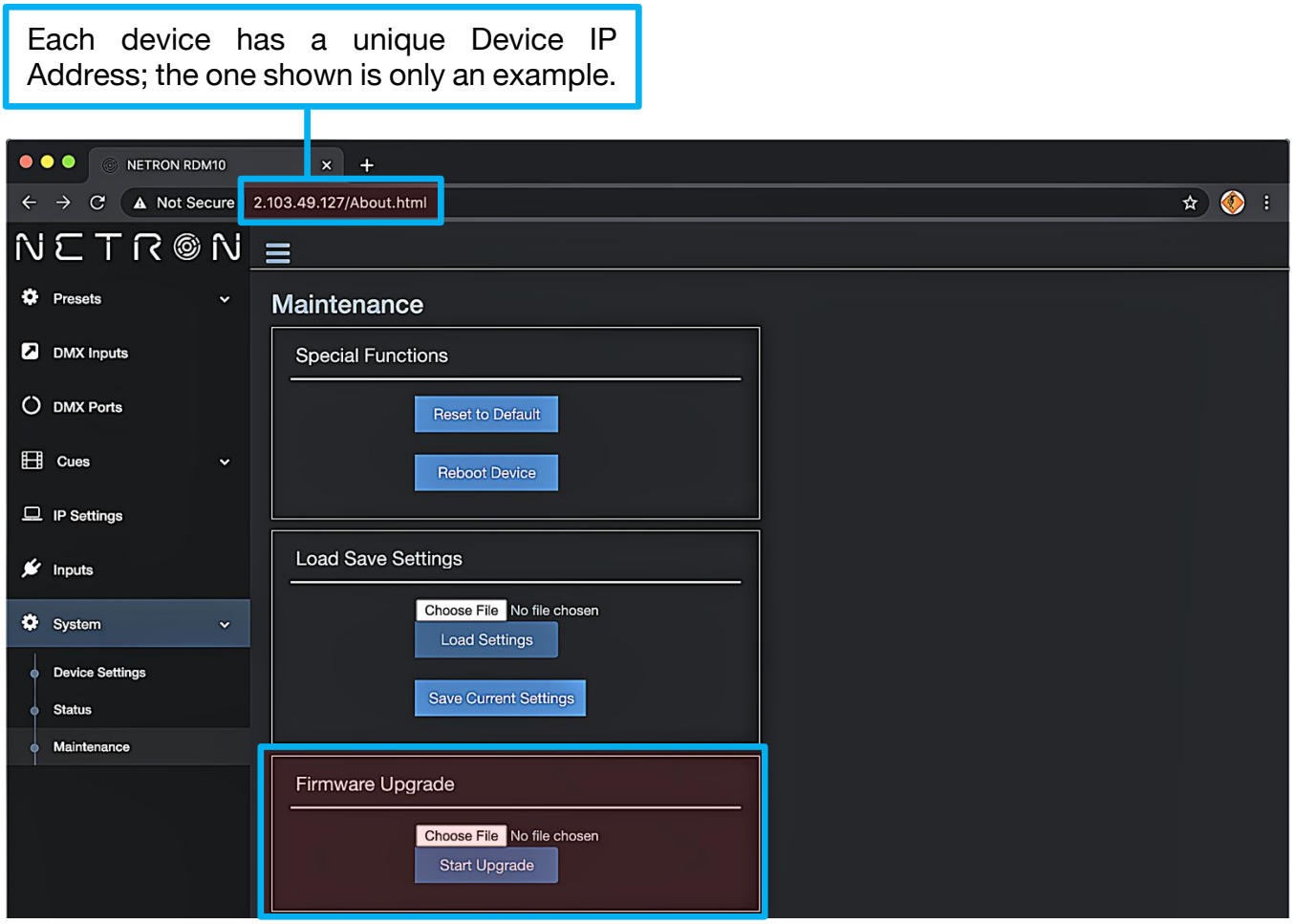
To install a firmware upgrade, connect to the device through a web browser and open the System – Maintenance menu.

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.

F C C S T A T E M E N T

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.