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NETR®N 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 <u>www.obsidiancontrol.com</u> for the latest revision/update of this document before beginning installation and use.

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01/29/20	1.0	Initial Release
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GENERAL INFORMATION

INTRODUCTION

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

CUSTOMER SUPPORT

Contact your local Obsidian Controls Systems dealer or distributor for any product related service and support needs. Also visit <u>forums.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 | <u>support@obsidiancontrol.com</u>

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

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 <u>http://obsidiancontrol.com/netron</u>.

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



RJ45 Network

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.







Page 2

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



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.

MENU



IP X.XXX.XXX.XXX

SUB MENU	OPT	ION / VAL	UES	DESCRIPTION
	1 :Splitter AB 2 :Splitter A			
	3 :HTP Merge			
Presets	4 :LTP Merge			
	5 :Backup			
	6 :Toggle			
NETRON Presets	7 ·∆rtNot 2 v	InputA Univ	Universe 1 – 32767	
User Presets	7 .Attivet 2.X	InputB Univ	Universe 1 – 32767	
	8 :Dual ArtNet 2.x	Universe 1 – 3	32767	See NETRON Presets
	9 :sACN DHCP	Universe 1 – 3	32767	
	10.Dual sACN DHCP	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
	11: sACN 2.x	Universe 1 – 3	32767	
	12: Dual sACN 2.x	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
	13: sACN 10.x	Universe 1 – 3	32767	
	14: Dual sACN 10.x	InputA Univ	Universe 1 – 32767	
		InputB Univ	Universe 1 – 32767	
Presets				
NETRON Prosots	1 MuDresst 1	Save Preset	Preset Saved	
NETRON Presets	I INIVPRESET I	Load Preset	Preset Loaded	
User Presets	 10 :MyPreset 10	Rename Preset	12 Character Label	
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.

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	А	А	Α	А	А					
			-	Input B DMX						В	В	В	В	В
2: Splitter AB	-	-		Input A DMX	А	А	Α	А	А	А	Α	А	Α	А
			-	Input B DMX										
3: HTP Merge	-	-		Input A DMX	Merger									
No RDI	VI Support			Input B DMX	HTP									
4: LTP Merge	-	-		Input A DMX	Merger									
No RDI	VI Support			Input B DMX	LTP									
5: Backup	-	-	_	Input A DMX	Merger									
No RDI	VI Support			Input B DMX	Backup									
6: Toggle	-	-	_	Input A DMX	Merger									
No RDM Support			Input B DMX	Toggle	Toggle	Toggle	Toggle	Toggle	Toggle	Toggle	Toggle	Toggle	Toggle	
7: Artnet 2.x	Automatic 2.x	255.0.0.0	Artnet	Input A Universe	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
8: Dual Artnet 2.x	Automatic 2.x	255.0.0.0	Artnot	Input A Universe	Α	Α	Α	Α	Α					
			Anner	Input B Universe						В	В	В	В	В
9: sACN DHCP	DHCP	DHCP	CACN.	Input A Universe	А	Α	Α	Α	А	Α	Α	Α	Α	Α
No RDI	VI Support		SACIN											
10: Dual sACN DHCP	DHCP	DHCP	CACN.	Input A Universe	А	Α	Α	Α	А					
No RD	M Support		SACIN	Input B Universe						В	В	В	В	В
11: sACN 2.x	Automatic 2.x	255.0.0.0	CN CN	Input A Universe	А	Α	Α	Α	А	Α	Α	Α	Α	Α
No RDM Support		3401												
12: Dual sACN 2.x	Automatic 2.x	255.0.0.0	CACN.	Input A Universe	А	Α	Α	Α	А					
No RD	VI Support		SACIN	Input B Universe						В	В	В	В	В
13: sACN 10.x Automatic 10.x 255.0.0.0			Input A Universe	А	Α	А	Α	А	А	А	Α	А	А	
No RDI	M Support		SACIN											
14: Dual sACN 10.x	Automatic 10.x	255.0.0.0		Input A Universe	А	Α	А	Α	А					
No RDM Support		SAGN	Input B Universe						В	В	В	В	В	

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.

MENU



SUB MENU		OPT	ONS / VALUES	DESCRIPTION		
	Source DMX, Network, SendValue			Select the source protocol		
		Source	DMX			
	DMX	RDM	Disable, Enable	Disable / Enable RDM traffic for this port		
		Source	Network			
		Universe	1 – 32767	Select universe		
DMX Inputo		Protocol	ArtNet, sACN	Select the protocol		
		FrameRate	10Hz, 15Hz, 20Hz, 25Hz, 30Hz, 35Hz , 40Hz	Select the desired frame rate		
Input A	Network	RDM	Disable, Enable	Disable / Enable RDM traffic for this port		
		Merge	OFF, HTP, LTP, Toggle	Select mode		
Input B Merger			From: 1 – 512	To limit the DMX range, set the first address of the DMX port		
Merger		Range	To: 1 – 512	To limit the DMX range, set the last address of the DMX port		
IP X.XXX.XXX.XXX		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		
		Source	SendValue	Select the source protocol		
		Value	0 - 255	Select universe		
	SendValue	FrameRate	10Hz, 15Hz, 20Hz, 25Hz, 30Hz, 35Hz , 40Hz	Select the desired frame rate		
		Pango	From: 1 – 512	To limit the DMX range, set the first address of the DMX port		
		nanye	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.

MENU



SUB MENU	OPT	TIONS / VALUES	DESCRIPTION
	OFF, HTP, LT	P, 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
DMX Inputs	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
Input A Input B	Toggle		The complete source Universe is switched over without delay as soon as a single DMX value changes
Mag	Backup Time	0s (0-88)	This delays the backup switching from A to B
Merger	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
IP X.XXX.XXX.XXX		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 , 2-512	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.

MENU

Presets DMX Inputs DMX Ports Remote Inputs

IP X.XXX.XXX.XXX

SUB MENU	OPTIONS / VALUES	DESCRIPTION
DMX Ports	Input A	Send values defined for Input A
	Input B	Send values defined for Input B
	Merger	Send values defined by the merger
Port 1	Disable	Port is disabled
Port 2		
Port 3		
Port 4		
IP X.XXX.XXX.XXX		
DMX Ports		
Port 7		
Port 8		
Port 9		
Port 10		
IP X.XXX.XXX.XXX		

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.

MENU

Presets DMX Inputs DMX Ports Remote Inputs

SUB MENU	OPTIONS / VALUES				DESCRIPTION
		Disable DMX			Stops all DMX output for as long as contact is closed
Remote Inputs			Cue	1-99	Recall a specific cue number
		Cue	Mode		The cue is activated, and all times and links are processed even if the contact is opened again
Input 1			NICCE	Toggle	The cue is activated, and all times and links are processed only as long as the contact is closed.
Input 2 Input 3 Input 4 IP X.XXX.XXX.XXX	t 2 t 3 t 4 .XXX.XXX.XXX		Recalls this Netron preset when the contact is closed		
Remote Inputs			9. SACN 10. Dual s 11. SACN 12. Dual s 13. SACN 14. Dual s	DHCP ACN DHC 2.x ACN 2.x 10.x ACN 10.x	
Input 8		User Preset	1-10		Recalls this user preset when contact is closed
Input 9		Send Value	0-255		Sends specific DMX value on all ports for as long as contact is closed
Input 10		Disable			Input is disabled
input to	Ø	Contact			Use local contact closure on the back of the device
IP X.XXX.XXX.XXX	Source	DMX Port	Port A Port B		Use DMX Input Values
	55	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.



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

SUB MENU		OP	TIONS / VA	LUES	DESCRIPTION		
	Run Cue	1 – 99	Go/Off		Select the desired cue		
Cues	Save Cue	1:Cue 1 99:Cue 99	Save Cue?	Yes/ No	Save all values on all ports to a cue slot		
Run Cue Save Cues Rename Cue		1 – 99 12 Character Label			Edit name of cue		
	s		Fade Time	0s – 60min	Set the fade time of the cue		
IP X.XXX.XXX.XXX		1 – 99	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		
		Disable			Cue data is not sent over Ethernet		
	Resend Ethern∈	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	Input A, Input B	View the DMX values of a specific port	
	≥	VICW	Port 1 - 10	view the Divix values of a specific port	
		Bange	From: 1 – 512	default 1	
	×		To: 1 – 512	default 512	
	DN	Start Monitor		Start Monitoring Values. Use Encoder to dial to the	
View and Test				desired DMX address. Push Encoder to change	
view and rest				display readout style (Grid, List, Address)	
	>	Universe	1 - 32767	View a specific Art-Net Universe	
	/ie/	Range	From: 1 – 512	default 1	
DMX View	jt∕		To: 1 – 512	default 512	
Art Not Viow	ţŽ			Start Monitoring Values. Use Encoder to dial to the	
An-Net view	Ā	Start Monitor		desired DMX address. Push Encoder to change	
sACN View			1 00707	display readout style (Grid, List, Address)	
DMX Dort Toot	>	Universe	1 - 32/67	View a specific sACN Universe	
DIVIX Port Test		Range	From: 1 – 512	default 1	
			To: 1 – 512	default 512	
	5			Start Monitoring Values. Use Encoder to dial to the	
		Start Monitor		desired DMX address. Push Encoder to change	
				display readout style (Grid, List, Address)	
View and Test	st	Output	Port 1 – 10	Send generator values on specific port	
	Э́Ц		All Ports	Send generator values on all ports	
	Ч	Range	From: 1 – 512	default 1	
sACN View	Ъ		10: 1 – 512	default 512	
	ž	Oracad	1 10 Manual		
DMX Port Test	Ξ	Speed	i – Tu, Manuai	Select the speed of generator	
Art-Net Test		Universe	1 – 32767	Select Art-Net Universe	
a A C NI Toot	ŝŝt	-	From: 1 – 512	default 1	
SACIN TESI	ΤΨ	Range	To: 1 – 512	default 512	
	Nei				
IP X.XXX.XXX.XXX	Artl	Speed	1 – 10, Manual	Select the speed of generator	
	'	-			
	ŭ	Universe	1 – 32767	Select sACN Universe	
	Les	Bange	From: 1 – 512	default 1	
	z	lange	To: 1 – 512	default 512	
	sAC	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.

Uvan: DIVIX Address

Green: Value Decreased

Red: Value Increased

White: Value stable (after 10 seconds)



DMX Test Display – Line

Input A 1 - 5						
		Min	Max			
1	0	0	12			
2	1	0	60			
3	3 121	5	123			
4	12	98	255			
5	88	8	88			
IP X.XXX.XXX.XXX						

DMX Test Display - Address

Input A	
Address	Value
1	127
	50%
Min	0
Max	255
IP X.XXX	.XXX.XXX

MENU: IP ADDRESS

Set the desired device IP address in this menu. Every Netron device is set to a unique 2.x.x.x address at the factory, and after every reset to this default. For 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	S / VALUES	Description
	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.
IP Address DHCP IP Automatic 2.x	Automatic 2.x			The device is set to a unique 2.x.x.x Address, Subnet 255.0.0.0
Automatic 10.x Custom IP IP X.XXX.XXX.XXX	Automatic 10.x			The device is set to a unique 10.x.x.x Address, Subnet 255.0.0.0
	Custom IP	IP Address Subnet Mask	x.x.x.x x.x.x.x	Assign any desired numbers. The device does not check the validity of address and subnet values.

MENU: SYSTEM

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



SUB MENU		OPTIONS / VALUES			Description		
	Device Name	12 Character La (<u>i</u> .e. <u>NETRON RI</u>	bel <u>DM10</u>)		Set a device name		
System	Device ID	0 – 999			Set an optional device ID		
Device Name		Display Timeout	Disable 10s, 30s, 1 10m	m, 5m,	Display stays on indefinitely Display goes dark after this time		
Device ID	olay	Screen Brightness	1-10		Adjust the brightness of the internal display		
Art-Net Offset	Disp	LED Brightness	0-10		Adjust the brightness of the front LEDs. Set to 0 to disable them.		
		Home Screen	Device Info Cue Brows	er	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.XXX	ਸ਼ ਚ	Universe 1: 0-0	I		browsed and started by the choose wheel		
System	Art-N Offs	Universe 1: 0-1					
	e		Look	Disable	The device does not require a pin		
Lock Device	Jevi	PIN: 000 (000)	LUCK	Timeout	The device asks for a pin after the display times out		
Startup Signal Loss	Lock [Manual Lock: 000 (000)	Lock / Unlock	Lock the device immediately		
Backup Config		Cue	(***)		Run a specific Cue at startup		
IP X.XXX.XXX.XXX	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		
System		Send 0	L -				
	Loss	Hold Last Look	Forever, 0 30s, 1m, 5i 60m	s, 10s, m, 10m,	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.		
	gnal	Fade to 0	0-60s (30s))	Crossfade to DMX 0. Set to 0s for instant out.		
Backup Config	ŝ		1-99		Start Cue X		
RDM Processing	<u>a</u> D	Disable DIVIX	Config Sav	red	DMX traffic is turned off on all ports Save current configuration including all cue data		
Factory Reset	Backu Confi	Load Config	Config Loa	ded	Save current configuration including all cue data Reload configuration. Backups can be exported and imported from the web interface		
	bu	All Disable			Disables RDM processing on the device		
IP X.XXX.XXX.XXX	RDM Processi	All Enable			Enables all RDM processing on the device		
	Factory Reset	Pin: 000 (011) Confirm	Device will to factory o Yes/ No	be reset defaults.	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
Information	Software Version	Boot SW V# Fw Ver: V# Web Ver: V#	Display the current software version
Software Version Product On Time MAC Address	Product On Time	Time: XXXXX(H)	Total time the device has been powered on.
RDM UID	MAC Addre	x:x:x:x:x	Displays MAC address
IP X.XXX.XXX.XXX	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.

Ethernet Status	×	Ethernet Properties	X Internet Protocol Version 4 (TCP/IPv4) Properties
General		Networking Sharing	General
Connection IPv4 Connectivity: IPv6 Connectivity: Media State: Duration: Speed: Dgtails	No network access No network access Enabled 00:28:37 1.0 Gbps	Connect using: Intel(R) Ethemet Connection (2) 1219-LM Config This connection uses the following items: Config This connection uses the following items:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Quetain an IP address automatically Quetain an IP address automatically Quetain an IP address: IP address: IP address: Quetain a set in the following IP address: IP address: Quetain the following IP address: IP
Activity Sent — Bytes: 172,39	- Received 96 1,081,032	Internet Protocol Version 6 (TCP/IPv6) Install Proper Description Transmission Control Protocol/Internet Protocol. The def wide area network protocol that provides communication across diverse interconnected networks.	Obtain DNS server address automatically Obtain DNS server addresses: Preferred DNS server: Alternate DNS server: Alternate DNS server: Alternate DNS server: Alternate DNS server: Adyanced
	Close	ОК	Cancel OK Cancel

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

	Network	Q Search
Locat	ion: Automatic	
Ethernet Connected Connected Bluetooth PAN Not Connected	Status:	Connected Ethernet is currently active and has the IP address 2.1.128.1.
Wi-Fi Off Bluetooth PAN ThundeIt Bridge	Configure IPv4: IP Address: Subnet Mask: Router: DNS Server: Search Domains:	Manually 🗘
+ - *		Advanced ?

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.

VV	EB	RE		OTE		NO: H		EPA	GE	
•		NETRON RE	DM10	×	+					
<i></i>	→ C (A Not S	ecure	2.103.49.127						☆ 🏈 🗄
ÎŃ	εT	R @	۶Ñ ٍ	Ξ						
۵	Presets		•	Status						
	DMX Inputs			Info						
0	DMX Ports			Device T	уре		NETRON RE	OM10		
				Device N	lame		NETRON RE	OM10		
	Cues		~	IP Addre	SS		002.103.049	.127		
▣	IP Settings			Net Mas	k		255.000.000	.000		
*	Inputs				su t					
\$	System		~						_	
				Port#	Mode	Protocol	Universe	Frame Rate	RDM	
				A	DMX			35Hz	Enable	
				В	DMX			35Hz	Enable	
				DMX Me	erge					
				Port#	Mode	Frame Rate				
				Merge	OFF	35Hz				
				DMX Po	rts					
				Port#	Mode					
				1	A					
				2	A					
				3	А					
				4	А					
				5	Α					
				6	В					
				7	В					
				8	В					
				9	В					
IR-00	2 103 049 12	7		10	В					
Nam	e:NETRON R	DM10	IP:002.1 Name:N Identify	103.049.127 NETRON RDM10						

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: DMX INPUTS – A & B DMX







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



O NETRON RDM10 ✓ 1: Cue 1 ← → C ▲ Not Secure | 2.103.49.127/RemoteInputs.html 🖈 🏈 : 2: Cue 2 3: Cue 3 NETRON = 4: Cue 4 96: Cue 96 Presets Inputs Configuration 97: Cue 97 98: Cue 98 DMX Inputs 99: Cue 99 2 O DMX Ports ✓ Trigger E Cues Event Type Cue Toggle ~ ~ 0:No Cue Cue Number × IP Settings Cue Mode Trigger × ✓ Disable 🖋 Inputs Contact Disable ~ Trigger DMX Port System Source ArtNet sACN **Inputs Configuration** 1 2 3 4 5 6 7 8 9 10 Event Type Cue **Inputs Configuration** 0:No Cue 1 2 3 4 5 6 7 8 9 10 Cue Mode Trigger **Trigger Source** Contact Event Type Disable DMX \$ Trigger Source DMX Port ✓ Port 1 DMX Port Port 1 Port 2 1 Inputs Configuration Save **Inputs Configuration** Disable DMX Event Type 1 2 3 4 5 6 7 8 9 10 Trigger Source ArtNet 2 Disable DMX \$ Event Type **DMX Address** 1 sACN Trigger Source \$ 1 1 Save

WEB REMOTE MENU: INPUTS – CUE

WEB REMOTE MENU: INPUTS – NETRON PRESET

$ \begin{array}{c} \leftarrow \rightarrow \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$:		
NETR®N ≡ 4:LTP Merge			
	4:LTP Merge		
Presets Fisackup SiBackup SiBackup SiBackup SiBackup SiBackup SiBackup			
PMX Inputs 7:ArtNet 2.x			
1 2 3 4 5 6 7 8 9 10 8 Output 8 Output 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10<			
O DMX Ports 10:Dual sACN DHCP			
Event Type Netron Preset 12:Dual sACN 2.x			
IP Settings Netron Preset 1:Splitter AB 13:SACN 10.x 11:Splitter AB 14:Dual sACN 10.x			
Save Sustain Contact			
DMX Port			
ArtNet sACN			
Inputs Configuration			
1 2 3 4 5 6 7 8 9 10			
Netron Preset 1:Splitter AB			
Trigger Source Contact			
1 2 3 4 5 6 7 8 9 10			
Event Type Netron Preset 🗘			
Netron Preset 1:Splitter AB			
Trigger Source DMX Port			
Inputs Configuration			
Port 2 1 2 3 4 5 6 7			
DMX Address 1 1 2 3 4 5 6 7 8 9 10			
Save			
Event Type Netron Preset	¢		
Netron Preset 1:Splitter AB Netron Preset 1:Splitter AB	¢		
Trigger Source ArtNet			
Universe 2	•		
Universe 1 DMX Address 1			
DMX Address 1			
Save			

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 – STATUS



FIRMWARE UPDATES

Updates for improved performance or to add additional features may be available on <u>www.obsidiancontrol.com</u>.

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 ha Address; the one	as a unique Device IP shown is only an example.	
S NETRON RDM10	× +	
$\leftarrow \rightarrow C \blacktriangle$ Not Secure 2	2.103.49.127/About.html	🖈 终 i
NETR®N		
🍄 Presets 🗸 🗸	Maintenance	
DMX Inputs	Special Functions	
O DMX Ports	Reset to Default	
🖽 Cues 🗸 🗸	Reboot Device	
IP Settings		
🗯 Inputs	Load Save Settings	
🗘 System 🗸	Choose File No file chosen	
Device Settings		
• Status	Save Current Settings	
Maintenance		
	Firmware Upgrade	
	Choose File No file chosen Start Upgrade	

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