

@Hanwha

# WRN-1632(S) & WRN-816S

WISENET

**Network Configuration Manual** 

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Network Configuration Manual

# Introduction

DHCP servers automatically assign IP addresses and other network parameters to devices on a network. This is often used to make it easier for network administrators to add or move devices on a network.

The WRN-1632(S) and WRN-816S series of recorders can utilize an onboard DHCP server to provide IP addresses to cameras connected to the recorder's onboard PoE switch as well as devices connected to an external PoE switch connected via Network Port 1. This guide was created to help the user understand how to configure the network interfaces on the unit to properly connect to attached cameras and prepare them for connection in Wisenet WAVE VMS.

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# **System Initialization**

#### System Password

Wisenet WAVE WRN series recorder devices utilize the Ubuntu OS and are preconfigured with the "wave" user account. After powering on your WRN unit, you are required to set the Ubuntu password for the wave user account.

#### Input a secure password.





#### System Time and Language

Before recording begins it is important to ensure that the clock is set correctly.

1. Verify the time and date from the menu **Applications** > **Settings** > **Date and Time**.

2. If you have Internet access, you can select the Automatic Date & Time and Automatic Time Zone options, or manually adjust the clock as needed.

Q Settings =	Date & Time -	
Privacy >		
<ul> <li>Online Accounts</li> </ul>	Date & Time 17 September 2024, 10:01 AM	
∝° Sharing		
♫ Sound	Aucomatic Time Zone Requires location services enabled and internet access	
Power	Time Zone EDT (New York, United States)	
📡 Displays		
🖒 Mouse & Touchpad	Time Format AM / PM ~	
📼 Keyboard		
🛱 Printers		
📋 Removable Media		
🛞 Color		
Region & Language		
🕆 Accessibility		
le Users		
★ Default Applications		
🕚 Date & Time		
(i) About		

**3.** If you need to adjust the Language or keyboard, click on the **en1** drop down from the login screen or the main desktop, or via **Applications > Settings > Region & Language**.

🕇 enı 🚣	<ul> <li>●</li> <li>●</li> </ul>
• English (US)	en1
English (UK)	en2
Spanish	es
Portuguese	pt
Danish	da
Belgian	be
Dutch	nl
Estonian	et



#### **Connecting Cameras**

**1.** Connect cameras to your recorder via the onboard PoE switch or through an external PoE switch, or both.

2. When using an external PoE switch, plug the external switch into Network Port 1.





# **Utilizing the Onboard DHCP Server**

To utilize the WRN recorder's onboard DHCP server, several steps must be followed. These steps include switching from the WRN Configuration Tool to the configuration of Ubuntu network settings.

**1.** Confirm that there are NO external DHCP servers operating on the network that connects to your WRN recorder's Network 1 Port. (If there is a conflict, Internet access for other devices on the network will be affected.)

2. Start the WRN Configuration tool from the side Favorite bar.



3. Enter the Ubuntu user password and click OK.

Authenticat	ion Required		
Authentication is needed to run `/usr/bin/env' as the super user			
e w	ave		
Password	۲		
Cancel	Authenticate		



#### 4. Click **Next** on the Welcome page.

	WRN Configur	ation Tool	- ×
K Back	Network	Cameras	Next >
	Welcome to the WRN (	Configuration Tool!	
	This tool will help achieve the following steps: 1. Configure network settings		
	a. In this section, you may Enable or Disable the WRN built-in DH assigned to cameras connected to the PoE switch. (shared with Netw	CP Server as well as set the DHCP pool range that will be /ork 1 subnet)	
	2. Network Scan for cameras connected to the PoE ports.		
	<ul> <li>a. The purpose of this dialog is to scan for cameras on the PoE s chosen in the Network section and configure passwords.</li> </ul>	witch that received new DHCP addresses based on the settings	
	3. Troubleshooting		
	<ul> <li>The POE Power button below is for troubleshooting purposes selected, the WRN Configuration Tool will not respond for ~10s in or capabilities will be restored.</li> </ul>	only to toggle power to cameras attached to PoE ports. Once der to power cycle the PoE ports. After this time, normal tool	
		Toggle PoE Power	
			TION TOOL

**5.** Enable the **DHCP server for PoE Ports** and provide the **Start** and **End IP addresses**. In this case we will use 192.168.55 as the subnet

**NOTE**: The start and end IP addresses must be accessible by the Network 1 (Camera Network) subnet. We will need this information to input an IP address on the Camera Network interface (eth0).

**IMPORTANT**: Do not use a range that will interfere with the predefined Ethernet (eth0) interface 192.168.1.200 or 223.223.223.200 used for onboard PoE switch configuration.

ĺ	WRN Configuration Tool		
Back	Networ	Cameras	vext >
	Network 1 (Camera):	192.168.1.200	
	Network 2 (Corporate):	172.24.1.42	
	Enable DHCP for PoE Ports:		
	Start IP:	192.168.55.2	
	End IP:	192.168.55.52	
	Max DHCP Users:	50 – +	
	Lease Time (Hours):	120 - +	
	Primary DNS:	8.8.8	
	Secondary DNS:	8.8.4.4	
		WRN CONFIGURATION	TOOL



- 6. Provide any changes to the DHCP server settings as per your requirements.
- 7. Once you have completed all the settings, click **Next**.
- 8. Click Yes to confirm your settings.

Confirm settir	ngs?
× No	♥Yes

**9.** The PoE ports will now deliver power to the cameras allowing camera discovery to begin. Please wait for the initial scan to be completed.

		WR	N Configuration Tool	_ ×
K Back	Netwo	rk	Cameras	Next >
# Mode	il Status Mode IP Mac i	Firmware Username	Scanning	
ID: Password:	admin Connect IP Assign	Please allow up to Change Password	60 seconds for cameras to show. Click Rescan to force a new scan. Connected: Default or Uter Configured password has Not Connected: Poword casts and needs to be entered Set Password: Device does not have password. Initial pr	Rescan authenticated successfully to connect assword needs to be set
			WRN (	CONFIGURATION TOOL

10. Click the **Rescan** button if needed to begin a new scan if all cameras are not discovered.

		WRN Configuration Tool						
& Bac	ck Network Cameras		Next					
# 1	Model XNF-9013RV	Status Not Connected	Mode DHCP	IP 192.168.55.4	Mac E4:30:22:86:CF:8C	Firmware Unknown	Username	
2)	XND-C9083R	Not Connected	DHCP	192.168.55.3	E4:30:22:83:02:6F	Unknown		
	ID: admir	1		Please a	llow up to 60 second	s for camera:	to show. Click Rescan to force a new scan.	Rescan
assv	ID: admin	1		Please a	llow up to 60 second	s for camera: Conr Not Conr	to show. Click Rescan to force a new scan.	Rescan nticated successfull nect
2assv	ID: admir word: Conr	nect IP Ass	ign	Please a	llow up to 60 second	s for camera: Conr Not Conr Set Pas	to show, Click Rescan to force a new scan. Lected: Default or User Configured password ba authen ected: Pissword exists and needs to be nerred to com sword: Device does not have password, initial password	Rescan nticated successfull needs to be set
°assv	ID: admin word: Conr	nect IP Ass	ign	Please a Change Pas	llow up to 60 second	s for camera: Conr Not Conr Set Pas	to show. Click Rescan to force a new scan. ected: Default or User Configured password has authen ected: Rescword exists and needs to be entered to como sword: Device does not have password. Initial password	Rescan titeated successfull rect ineeds to be set
<sup>2</sup> assv	ID: admir word: Conr	neet IP Ass	ign	Please a	llow up to 60 second	s for camera: Conr Not Conr Set Pas	Lo show, Click Rescan to force a new scan. ected: Default or User Configured password has authen ected: Instaword exists and needs to be entered to com sword! Device does not have password, initial password	Rescan atticated successfull ect I needs to be set



**11.** Without closing the configuration tool, click on the **Network Icon** on the top right corner of the screen to open the Network settings menu.

#### 12. Click on Settings

- Ethernet (eth0) (In Ubuntu) = Camera Network = Network 1 Port (as printed on unit)
- Ethernet (eth1) (In Ubuntu) = Coporate Network (Uplink) = Network 2 Port (as printed on unit)



13. Toggle the Ethernet (eth0) network port to the OFF position.

Q Settings =	Network	- • ×
🚯 Network		
🕴 Bluetooth	Ethernet (eth0)	+
📱 Background	1000 Mb/s	
Appearance	Ethernet (eth1)	+
Q Notifications	Connected - 1000 Mb/s	
Q Search		

- 14. Click on the Gear icon for the Ethernet (eth0) interface to open network settings.
- 15. Click on the IPv4 tab.
- 16. Set the IP address. Use an IP address outside of the range defined in the WRN

Configuration Tool in **Step 5**. (For our example, we will use 192.168.55.100 to be outside of the defined range while remaining on the same subnet.)

**NOTE**: If the configuration tool has assigned an IP address, in this case 192.168.55.1, it will need to be changed as addresses ending in ".1" are reserved for gateways.

**IMPORTANT**: Do not remove the 192.168.1.200 and 223.223.223.200 addresses as they are required to work with the PoE switch web interface, this is true even if you have a WRN-1632 without the PoE interface.



**17.** If 192.168.55.1 was not assigned, enter a static IP address to be on the same subnet as defined previously.

Cancel	Wired	Apply
Details Identity	IPv4 IPv6 Security	
IPv4 Method	Automatic (DHCP)	🔵 Link-Local Only
0	Manual	<ul> <li>Disable</li> </ul>
0	Shared to other computers	
Addresses Address	Shared to other computers	Gateway
Addresses Address 192.168.1.200	Shared to other computers Netmask 255.255.255.0	Gateway
Addresses Address 192.168.1.200 223.223.223.200	Shared to other computers           Netmask           255.255.255.0           255.255.255.0	Gateway

#### 18. Click Apply.

**19.** Toggle Network 1 on your WRN recorder, **Ethernet (eth0)**, to the **ON** position.

Q Settings =	Network	- • ×
😚 Network		
Bluetooth	Ethernet (eth0)	+
🖫 Background	Connected - 1000 Mb/s	
Appearance	Ethernet (eth1)	+
Q Notifications	Connected - 1000 Mb/s	
Q Search		

**20.** If needed, repeat the above steps for the Ethernet (eth1) / Corporate / Network 2 to connect the other network interface to another network (ex: for remote viewing while keeping the camera's network isolated.

**21.** Return to the WRN Configuration Tool.



- 22. If the discovered cameras display a **Need Password** status:
  - a) Select one of the cameras indicating a **need password** status.
  - **b)** Enter a camera password.
  - **c)** Please refer to the Wisenet camera manual for more information on the required password complexity.
  - d) Verify camera password entered.
- 23. Click on Set Password.

WRN Configuration Tool									-
ick			Networ	k			Cameras		Next
Model	L	Status	Mode	IP	Mac	Firmware	Username		
XNF-90	013RV	Not Connected	DHCP	192.168.55.4	E4:30:22:86:CF:8C	Unknown			
XND-C	9083R	Need Password	DHCP	192.168.55.3	E4:30:22:83:02:6F	Unknown			
ID:	admin			Please all	ow up to 60 seconds	for cameras	to show. Click Rescan to force a new scan.	Resca	n
ID:	admin			Please all	ow up to 60 seconds	for cameras Conn Not Conn Set Pass	to show. Click Rescan to force a new scan. scted: Default or User Configured password has scted: Password exists and needs to be entered word: Device does not have password. Initial pa	Rescar authenticated su to connect ssword needs to	n uccessf
ID: word:	admin 		] ]@ ]	Please all	ow up to 60 seconds	for cameras Conn Not Conn Set Pass	to show. Click Rescan to force a new scan. acted: Default or User Configured password has acted: Password exists and needs to be entered word: Dewce does not have password. Initial pa	Rescal authenticated su to connect ssword needs to	n Joccessfi
	Model XNF-90 XND-C	Model XNF-9013RV XND-C9083R	Ack Model Status XNF-9013RV Not Connected XND-C9083R Need Password	Ack Networ Model Status Mode XNF-9013RV Not Connected DHCP XND-C9083R Need Password DHCP	Ack Network Model Status Mode IP XNF-9013RV Not Connected DHCP 192.168.55.4 XND-C9083R Need Password DHCP 192.168.55.3	Network           Model         Status         Mode         IP         Mac           XNF-9013RV         Not Connected         DHCP         192.168.55.4         E4:30:22:86:CF:8C           XND-C90083R         Need Password         DHCP         192.168.55.3         E4:30:22:83:02:6F	Addel Status Model IP Mac Firmware XNF-9013RV Not Connected DHCP 192.168.55.4 E4:30:22:86:CF:8C Unknown XND-C90B3R Need Password DHCP 192.168.55.3 E4:30:22:83:02:6F Unknown	Notework         Cameras           Model         Status         Mode         IP         Mac         Firmware         Username           XNF-9013RV         Not Connected         DHCP         192.168.55.4         E4:30:22:85:CF:8C         Unknown           XND-09083R         Need Password         DHCP         192.168.55.3         E4:30:22:83:02:0F         Unknown	Network         Cameras           Model         Status         Mode         IP         Mac         Firmware         Username           XNF-9013RV         Not Connected         DHCP         192.168.55.4         E4:30:22:83:02:46         Unknown           XND-C900B3R         Need Password         DHCP         192.168.55.3         E4:30:22:83:02:46         Unknown

**24.** If the camera status displays a **Not Connected** status, or the cameras have already been configured with a password:

- a) Verify that the IP address of the camera is accessible.
- **b)** Enter the camera's current password.
- c) Click the **Connect** button.
- d) After a few seconds, the selected camera status will change to **Connected**.

		WRN Configuration T	ool	- ×					WRN Config	uration Tool		- ×
Back	Network		Cameras	Next >	<b>K</b> E	Back		Network		Ca	meras	Next >
# Mode 1 XNF-91 2 XND-C ID: Password:	t Status Mode IP DTRK Not Connected DHCP 192 9983R Not Connected DHCP 192 admin Connect IP Assign C	Mac Firmwar 108.55.4 E43022806CF3C Unknow 168.55.3 E4302283026F Unknow Please allow up to 60 seconds for came Please allow	e Username nas to show, Click Rescan to force a new scan. meeted: Doctor for Configure Jacobia to entere to meeted: Previous to an order to be net to the top top meeted: Previous top	Rescan devolutional successfully connect word needs to be set	Final Para	Model XNF-9013R XND-C9083 ID: adn ssword: Co	Status V Connected R Connected	Mode IP DHCP 192.166.5 DHCP 192.166.5 Selgn Change I	Mac 5.4 E4:30:22:850CF:86 5.3 E4:30:22:83:02:66 e allow up to 60 second	Firmware 2.22.02_20231027_F3 2.22.03_20231025_F4 2.22.03_20231025_F4 5 for cameras to show. Cl Connected: Dr. Not Connected: Dr. Not Connected: Dr.	Username 33 admin 22 admin Ick Rescan to force a new scan. Ick Rescan to force a new scan.	Rescan unencicaed successfully connect award needs to be set
			WRN CO	NFIGURATION TOOL							WRN CO	NFIGURATION TOOL



**25.** If the Camera status does not change to **Connected**, or the camers already have a configured password:

- **a)** Click on a camera row.
- **b)** Enter the camera's password.
- c) Click Connect.

**26.** If you wish to change the camera IP address mode/settings, click the **IP assign** button. (Wisenet cameras default to DHCP mode.)

- 27. Click Next to proceed.
- **28.** Click **Yes** to confirm the settings.



29. Click Next on the final page to exit the WRN Configuration Tool.



**30.** Launch the Wisenet WAVE Client to run the New System Configuration.

**NOTE**: For best performance, it is recommended to enable the Hardware Video Decoding feature from the **WAVE Main Menu > Local Settings > Advanced > Use Hardware Video Decoding > Enable** if supported.



# **Utilizing an External DHCP Server**

An external DHCP server connected to the WRN Camera Network will provide IP addresses to cameras connected to its onboard PoE switch and externally connected PoE switches.

**1.** Confirm that there is an external DHCP server on the network that connects to the WRN unit's Network 1 Port.

**2.** Configure the WRN-1632(S) / WRN-816S Network Ports using the Ubuntu Network settings menu:

- Ethernet (eth0) (In Ubuntu) = Camera Network = Network 1 Port (as printed on unit)
- Ethernet (eth1) (In Ubuntu) = Coporate Network (Uplink) = Network 2 Port (as printed on unit)

		0	Ð	Ľ
1 376 KM5 374, 1016, 376 1 3 3 7 9	11 13 15	NTWORK 2	C	

- **3.** From Ubuntu Desktop, click on **Network** Icon on the top right corner.
- 4. Click on Settings.





5. Toggle the Ethernet (eth0) network port to the OFF position.

Q Settings =	Network	- • ×
🚯 Network		
Bluetooth	Ethernet (eth0)	+
📮 Background	1000 Mb/s	
Appearance	Ethernet (eth1)	+
Q Notifications	Connected - 1000 Mb/s	
Q Search		

- 6. Click on the Gear icon for the Ethernet (eth0) interface as shown in the picture above.
- 7. Click on the IPv4 tab.
- 8. Use the following settings:
  - a) IPv4 Method to Automatic (DHCP)
  - **b)** DNS Automatic = ON

**NOTE**: Depending on your network configuration, you may enter a static IP address by setting the IPv4 Method to **Manual** and setting DNS and Routes to Automatic = off. This will allow you to enter a static IP address, subnet mask, default gateway, and DNS information.

9. Click Apply.

Cancel			Wir			Apply	
Details I	dentity	IPv4	IРvб	Security			
IPv4 Metho	d O	Automa	tic (DHCP	?)	0	Link-Loca	l Only
	$\bigcirc$	Manual			0	Disable	
	$\bigcirc$	Shared t	o other c	omputers			
DNS						Automa	tic 🚺
Separate IP ad	dresses with c	ommas					
Routes						Automa	tic
Routes							

10. Toggle the Ethernet (eth0) network port to the ON position.

Q Settings =	Network	- • ×
🕥 Network		
Bluetooth	Ethernet (eth0)	+
📮 Background	Connected - 1000 Mb/s	
😰 Appearance	Ethernet (eth1)	+
↓ Notifications	Connected - 1000 Mb/s	
Q Search		



11. Start the WRN Configuration tool from the side Favorite bar.



12. Enter the Ubuntu user password and click OK.



13. Click Next on the Welcome page.

√ision



14. Make sure the Enable DHCP for PoE Ports option is Off.

15. Click Next.

	WRN Configuration Tool								
K Back	Netwo	rk	Cameras	Next >					
	Network 1 (Camera):	192.168.1.200							
	Network 2 (Corporate):	172.24.1.42							
	Enable DHCP for PoE Ports:								
	Start IP:	192.168.1.							
	End IP:	192.168.1.							
	Max DHCP Users:	50 - +							
	Lease Time (Hours):	120 – +							
	Primary DNS:	8.8.8.8							
	Secondary DNS:	8.8.4.4							
			WRN	CONFIGURATION TOOL					

16. Click Yes to confirm your settings.

Confirm settings?
🙁 No 🖉 Yes

**17.** The PoE ports will be powered-on to deliver power to the cameras. Camera discovery will begin. Please wait for the initial scan to be completed.

	WRN Configuration Tool	_ ×
Network	Cameras	Next >
s Mođe IP Mac Firmware Usernan	scanning	
Please allow u	p to 60 seconds for cameras to show. Click Rescan to force a new scan. Connected: Default or User Configured password has a Not Connected: Password exists and needs to be entered to Set Password: Device does not have password. Initial pass d	Rescan authenticated successfully a connect ssword needs to be set
	Network s Mode IP Mac Firmware Usernar Please allow u Please allow u ct IP Assign Change Passwor	Scanning       Scanning       Scanning       Scanning       Scanning       Please allow up to 60 seconds for cameras to show. Click Rescan to force a new scan.       Not Connected: Default or User Configured password have have password. Initial parts       tt     IP Assign       Change Password



**18.** Click the **Rescan** button if needed to begin a new scan if all cameras are not discovered.

					WRN Config	uration Too	əl	
<b>К</b> В	ack		Netwo	rk			Cameras	Next >
#	Model	Status	Mode	IP	Mac	Firmware	Username	
1	XNF-9013RV	Not Connected	DHCP	192.168.55.4	E4:30:22:86:CF:8C	Unknown		
2	XND-C9083R	Not Connected	DHCP	192.168.55.3	E4:30:22:83:02:6F	Unknown		
	ID: admir	n		Please a	llow up to 60 second	s for cameras	to show. Click Rescan to force a new scan.	an
Pas	sword:	IP Ass	sign	Change Pas	sword	Conn Not Conn Set Pas	ected: Default or User Configured password has authenticated ected: Password exists and needs to be entered to connect sword: Device does not have password. Initial password needs	successfully to be set

- **19.** If the discovered Wisenet cameras display a **Need Password** status:
  - a) Select one of the cameras with the "need password" status.
  - **b)** Enter a camera password. (Please refer to the Wisenet camera manual for more information on the required password complexity.)
  - c) Verify the password set.
  - d) Click on Set Password.

					WRN Configu	ration Too	ı	
Ba	ck		Network	¢			Cameras	Next 🕽
#	Model	Status	Mode	IP	Mac	Firmware	Username	
2	XND-C9083R	Need Password	DHCP	192.168.55.3	E4:30:22:83:02:6F	Unknown		
	ID: admi	n		Please all	ow up to 60 seconds	for cameras	to show Click Rescan to force a new scan	Rescan
New	ID: admi word:	n ••	]@	Please all	ow up to 60 seconds	for cameras Conn Not Conn	to show. Click Rescan to force a new scan. ected: Default or User Configured password ha ected: Password subs and needs to be enterer	Rescan s authenticated successfully to connect
New Pass Conl Pass	ID: admi word: •••••• irm word: •••••	n ••	)  @ 	Please all	ow up to 60 seconds	for cameras Conn Not Conn Set Pass	to show: Click Rescan to force a new scan. ected: Default or User Configured password ha ected: Password suts and needs to be entere word: Device does not have password. Initial p	Rescan authenticated successfully to connect assword needs to be set
New Pass Conl Pass	ID: admi word: •••••• irm word: •••••	n •• 	) @ ]	Please all	ow up to 60 seconds	for cameras Conn Not Conn Set Pass	to show. Click Rescan to force a new scan. ected: Default or User Configured password ha ected: Password exists and needs to be enterer wword: Device does not have password. Initial p	Rescan s authenticated successfulh to connect assword needs to be set



**20.** If the camera status displays a **Not Connected** status, or the cameras have already been configured with a password:

- **a)** Verify that the IP address of the camera is accessible.
- **b)** Enter the camera's current password.
- **c)** Click the **Connect** button.

	WRN Configuration Tool									
K Bi	ack		Networ	rk			Cameras	Next >		
# 1 2	Model XNF-9013RV XND-C9083R	Status Not Connected Not Connected	Mode DHCP DHCP	IP 192.168.55.4 192.168.55.3	Mac E4:30:22:86:CF:8C E4:30:22:83:02:6F	Firmware Unknown Unknown	Username			
Pas	ID: admin sword: Conr	n nect IP Ass	ign	Please al Change Pass	low up to 60 second	is for cameras Conn Not Conn Set Pas	to show. Click Rescan to force a new scan. Resc ected: Default or User Configured password has authenticated ected: Password exists and needs to be entered to connect sword: Device does not have password. Initial password needs	an successfully to be set		
							<b>WRN</b> CONFIGURA	FION TOOL		

**21.** After a few seconds, the selected camera status will change to **Connected**.

WRN Configuration Tool						-		
Ba	ick		Networ	rk			Cameras	Nex
#	Model	Status	Mode	IP	Mac	Firmware	Username	
1	XNF-9013F	V Connected	DHCP	192.168.55.4	E4:30:22:86:CF:8C	2.22.02_20231027_	R333 admin	
2	XND-C9083	R Connected	DHCP	192.168.55.3	E4:30:22:83:02:6F	2.22.03_20231025_	R429 admin	
	ID: adr			Please all	ow up to 60 second	s for cameras to show	. Click Rescan to force a new scan.	Rescan
	ID: adr	nin		Please all	ow up to 60 second	s for cameras to show	Click Rescan to force a new scan.	Rescan
	ID: adr	nin		Please all	ow up to 60 second	s for cameras to show Connected: I	Click Rescan to force a new scan.	Rescan
155	ID: adr	nin		Please all	ow up to 60 second	s for cameras to show Connected: 1 Not Connected: 1	. Click Rescan to force a new scan.	Rescan
155	ID: adr	nin		Please all	ow up to 60 second	s for cameras to show Connected: I Not Connected: Set Password: I	Click Rescan to force a new scan. Default or User Configured password has a bassword exists and needs to be entered t evice does not have password. Initial pas	Rescan nuthenticated success o connect sword needs to be se
55	ID: adr	nin		Please all	ow up to 60 second	s for cameras to show Connected : Not Connected : Set Password : I	Click Rescan to force a new scan. Default or User Configured password has a Sasword exits and needs to be entered it bevice does not have password. Initial pas	Rescan authenticated success o connect sword needs to be se
55	ID: adr	nin nnect IP A	ssign	Please all	ow up to 60 second	s for cameras to show Connected: Not Connected: I Set Password: I	Click Rescan to force a new scan. Default or User Configured password has a Password exists and needs to be entered to Device does not have password. Initial pas	Rescan authenticated success o connect sword needs to be se
55	ID: adr sword:Cc	nin IP A	ssign	Please all	ow up to 60 second	s for cameras to show Connected: I Not Connected: I Set Password: I	. Click Rescan to force a new scan. Default or User Configured password has a Sasword exits and needs to be entered it bevice does not have password. Initial pas	Rescan nuthenticated success o connect sword needs to be se
55	ID: adr sword: Cc	nin nnect IP A	ssign	Please all	ow up to 60 second	s for cameras to show Connected : Not Connected : I Set Password : I	Click Rescan to force a new scan. Default or User Configured password has a Password exists and needs to be entered to Device does not have password. Initial pas	Rescan authenticated success o connect sword needs to be se
55	ID: adr sword: Co	nin nnect IP A	ssign	Please all Change Pass	ow up to 60 second	s for cameras to show Connectad: Not Connectad: Set Password: I	. Click Rescan to force a new scan. Default or User Configured password hata a Sassword exits and needs to be entered it Sevice does not have password. Initial pas	Rescan uthenticated success o connect sword needs to be se
155	ID: adr sword: Cc	nin	ssign	Please all Change Pass	ow up to 60 second	s for cameras to show Connected : Not Connected : Set Password : !	Click Rescan to force a new scan. Default or User Configured password has a Password exists and needs to be entered to Device does not have password. Initial pas	Rescan nuthenticated success o connect sword needs to be se
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**22.** If the Camera status does not change to **Connected**, or the camers already have a configured password:

- **a)** Click on a camera row.
- **b)** Enter the camera's password.
- c) Click Connect.

**23.** If you wish to change the camera IP address mode/settings, click the **IP assign** button. (Wisenet cameras default to DHCP mode.)

- 24. Click Next to proceed.
- **25.** Click **Yes** to confirm the settings.



**26.** Click **Next** on the final page to exit the WRN Configuration Tool.



**27.** Launch the Wisenet WAVE Client to run the New System Configuration.

**NOTE**: For best performance, it is recommended to enable the Hardware Video Decoding feature from the **WAVE Main Menu > Local Settings > Advanced > Use Hardware Video Decoding > Enable** if supported.



### **WRN Configuration Tool: The Toggle PoE Power Feature**

The WRN Configuration Tool now has the ability to toggle power to the WRN recorders onboard PoE switch should one or more cameras require a reboot. Clicking the **Toggle PoE Power** button in the WRN Configuration Tool will power cycle all devices connected to the WRN unit's onboard PoE switch.

If it is necessary to power cycle only a single device, it is recommended that you use the WRN webUI.

	WRN Configuration Tool	- ×					
Back	Network Cameras	Next >					
	Welcome to the WRN Configuration Tool!						
	This tool will help achieve the following steps:						
	1. Configure network settings						
	a. In this section, you may Enable or Disable the WRN built-in DHCP Server as well as set the DHCP pool range that will be assigned to cameras connected to the PoE switch. (shared with Network 1 subnet)						
	2. Network Scan for cameras connected to the PoE ports.						
	a. The purpose of this dialog is to scan for cameras on the PoE switch that received new DHCP addresses based on the settings chosen in the Network section and configure passwords.						
	3. Troubleshooting						
	a. The PoE Power button below is for troubleshooting purposes only to toggle power to cameras attached to PoE ports. Once selected, the WRN Configuration Tool will not respond for ~10s in order to power cycle the PoE ports. After this time, normal tool capabilities will be restored.						
	Toggle PoE Power						
	WRN CONFIGURATI						



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