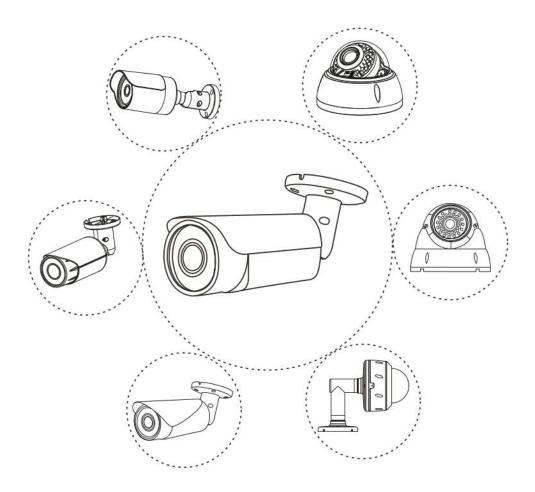
## HD IP CAMERA USER GUIDE



N Series: V1.0

Note: This manual may contain some incorrect information, even though it was published with our carefully proofreading. The new updates will be added to the next release without notice. Your valuable advice is really appreciated.

# Table of contents

Connecting the camera to system <i>(reference only)</i>
Camera's IP address assignment
How to find out the LAN configuration via Windows GUI ?5
Working with Internet Explorer web browser5
Configurations
1) To setup the camera Time & Date7
2) To name the camera title7
3) TF memory card installation (optional)8
4) Playback and Download video (optional)9
5) Smart phone p2p remote access by scanning QR code (optional)9
6) To setup Smart Human Detection and Vehicle Detection10
7) * To setup Smart Line Crossing Detection11
8) * To setup Smart Face Detection12
9) * To setup Smart Perimeter protection13
Working with smart Phone (Android & iPhone) 14
Genera use steps14
Function description15
Working with NVR
Frequently Asked Questions
1. Why can't I open the default IP address 192.168.0.123 via web browser?19
2. How to reset the password?19
3. How to upgrade the IP camera?19
4. How to fetch the RTSP video stream and http snapshot?
5. Why doesn't the NVR show image after adding IP camera?
6. How to make the NVR record in motion detection mode?
7. Where can i control the motorized auto focus lens zoom?
8. Which kinds of third-party security software can be compatible with?

#### ISP (1 HD IP Camera (without PoE) É m RJ-45 To router LAN port RJ-45 (1,1 To router LAN po DC 12V 0 PoE NVR R.L.45 0.0 0 era (PoF HD Monitor To NVR PoE port E HDMI or VGA outpu 1

### **Connecting the camera to system** (reference only)

#### Figure 1: Working With PoE NVR

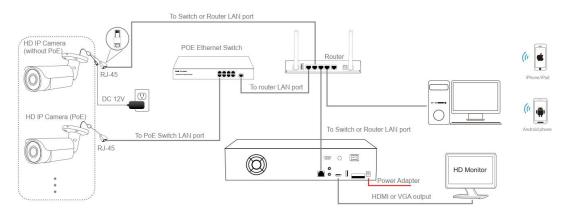


Figure 2: Working With PoE switch and NVR

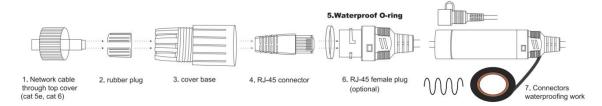


Figure 3: Waterproofing work (network connector)

#### Note:

- 1. The camera should be connected to an OPTIONAL 12 volt power supply if you do not use PoE (Power over Ethernet).
- 2. A Windows computer is more convenient to setup and troubleshooting.
- 3. It is very important that network connector waterproofing work should be more carefully on the outdoor operating.

### Camera's IP address assignment

Default IP address: 192.168.0.123 (DHCP) Username: admin, Password: 123456

(We strongly recommend modifying the default password for your security).

#### **Obtaining IP settings automatically by DHCP**

This series camera default network configuration is **DHCP** mode, you can get IP settings assigned automatically from the LAN router or DHCP server, otherwise, the camera will set its own IP address to **192.168.0.123** in a few seconds for local access. The camera will save the obtained IP settings to **static** configuration after 24 hours continues running to keep your system working more stable.

You can install the **device search tool** to quickly configure the IP camera.

- Sciilnellee SettingTool V3.0.0.47\_20240808 × Search Configure Export ▲ IP HTTP port Model Software version Status MAC SN ✓ ♀ 1 ✓ ♀ 2 192.168.0.123 192.168.0.123 V1.0.3.7-build:20240802153723 F6:00:00:F6:00:AC 16122028 Login failed 80 N1200 80 V1.0.3.7-build:20240731144800 Login failed! F6:00:00:F6:00:B0 16122032 IP Confia × 4 DHCP Start IP: 192.168.0.123 Check End IP: 192.168.0.124 5 Subnet: 255.255.255.0 Gateway: 192.168.0.1 DNS1: 8.8.8.8 DNS2: 8.8.8.8 No IP conflicts found! Save 6 12 ✓ ALL Total: 2 / Selected 2 NetCard All NetCards ▼ HW Decode Open Audio Start Search 1 Clean admin ..... Video Batch Reset Batch Reboot All Subnet Add Config IP 3 Batch Set Passwd Upgrade Firmware Browse... Talk
- Using Device Search Tool (SettingTool)

Click **Start Search** and all your cameras in the LAN will be listed in seconds.

If you prefer to assign camera IP address manually, you'd better confirm the IP network planning and avoid IP address conflict.

It is user-friendly that the search tool can calculate the selected cameras number to match the range of Start IP and End IP.

Tips:

- 1. Net Card: Only select the desired network adapter to search
- 2. Batch Reset: Restore to factory default settings;
- 3. Video Preview: Double-click list items;
- 4. Go to Web: right-click list item and select web;
- 5. Upgrade Firmware: Select the check-box, click Browse then click Upgrade Firmware.

#### How to find out the LAN configuration via Windows GUI ?



Right-click on the Network icon and select open Network and Sharing Center.

Control Panel Home	View your basic net View your active networks	work information and se	et up connections	
Change adapter settings			2	
Change advanced sharing settings	<ul> <li>Local Area Connection Status</li> <li>General</li> </ul>	×	Access type: Internet	ea Connection
	Connection IPv4 Connectivity: IPv6 Connectivity:	Internet No network access	Network Connection Detail	
	Media State: Duration: Speed: Details 2	Enabled 00:13:51 100.0 Mbps	Property Connection-specific DN. Description Physical Address DHCP Enabled	Value
	Activity Sent Sytes: 1,138,205	Received 4.928.660	IPv4 Address IPv4 Subnet Mask Lease Obtained Lease Expires IPv4 Default Gateway IPv4 DNS Server IPv4 DNS Servers	192.168.1.158 255.255.255.0 Saturday, October 21, 2017 10:15:00 Saturday, October 21, 2017 12:15:00 192.168.1.1 192.168.1.1 32.168.1.1
See also HomeGroup Infrared Internet Options	Properties Disable	Diagnose	IPv4 WINS Server NetBIOS over Topip En. Link-local IPv6 Address IPv6 Default Gateway	192.168.1.1 Yes fe80::b525:234:58d4:98f3%10

### Working with Internet Explorer web browser

To access the camera's web interface, type in the IP camera's IP address in Internet Explorer's URL bar to gain access to the login page.

Please check your current network connection or modify IP address to the same subnet if login page can not load.

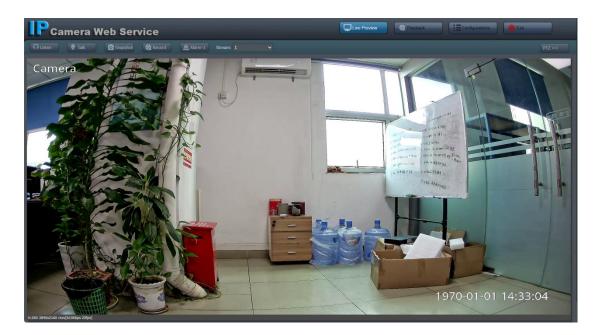
(Default user name: admin, Password: 123456)

	C IP	Camera Web		×	+										-	O	×
$\leftarrow$	C	۵ <b>۵</b>	Not secure	1	92.168.1.164/lar	nd/in	dex.asp	?lg=2&ver	sion=6.4.35	A	A⊎	to	£≞	Ē			b
				http	s site is trying to ://192.168.1.164 v	wants	to open	this applica	Open								
					Gal	IIC		e Login		71 V							
					Language:			English	~								
					Username:	-	2										
					Password: ease click here to (		Login		Clear								
				. HI	ease proprieta (b. )	a des milio	and and the	0000011-0110-2000	age in								

You can use Chrome, Edge, Firefox, safari to access the camera web service page. (Windows OS perfect supported, other OS just can configure parameters)

At the first time login, the web browser will prompt plug-in link to download for video player. Please download and install it without worry about the security.

After restart or refresh your web browser and allow the plug-in player to run. The live video will start playing automatically after login successfully.



#### Note:

**1.** Windows OS is perfect supported , other OS may lack of some functions play less smoothly because of the incompatibility.

2. Only the **Motorized Auto Focus** or **PTZ** cameras can do optical **Zoom In** and **Zoom Out** in PTZ button page.

3. Keeping pressing on live video and dragging for Digital Zoom.

**4.** If there is a delay in video response when accessing remotely, please switch to Sub Stream instead.

## Configurations

1) To setup the camera **Time & Date** 

#### > Configurations > Time&Network > Date&Time

<b>IP</b> Camera	Web Servio	ce	Ļ	Live Preview	O Playback	Configurations	Dexit.
Information		Date & Time					
Time & Network	IP Address	Device Time					
Media Setup	Ports						
E PTZ	Date & Time			Save			
	DDNS	Manually:		Save			
📟 Trigger	• SMTP	NTP					
Schedule Setup							
Alarm Setup			🗹 Use DST				
Services Security		Begin:	March			Sunday	
Account			2:00				
& Storage			November	✓ First		Sunday	
🔧 Maintenance		Dst Offset:					
			🗹 Use NTP				
		Timing refresh per:					
		Port:					
			Save Refresh				

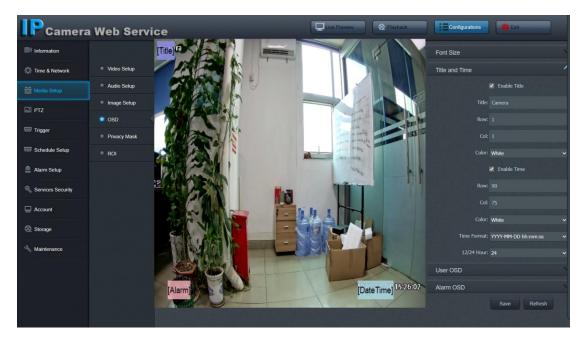
There are two time update modes available - Manual (Sync with PC) and NTP.

DST (daylight-saving time) is available for time offset adjust automatically.

NTP (network time protocol) is used for scheduled getting correct date and time from Internet automatically.

2) To name the camera title

#### > Configurations > Media Setup > OSD



Modify the title as you need, drag the items to adjust the showing position (if needed), click Save.

3) TF memory card installation (optional)

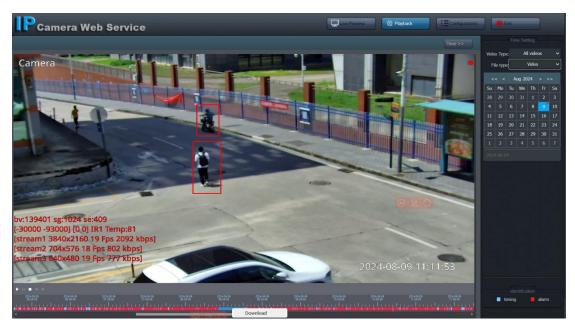
<b>IP</b> Camera	Web Servic	e		(	Live Preview	😧 Playback
Information		SD				
Time & Network	Local Path		Total Capacity:	30421		
📷 Media Setup	TF Card		Available Space:			
🖾 PTZ	• FTP			Formatting Refresh		
🖼 Trigger	NAS					
Schedule Setup						
Alarm Setup						
Services Security						
Q Account						
& Storage						
Naintenance						

### Configurations > Storage > TF Card (with Micro-SD slot only)

It is suggested to install the memory card (Class10: 32GB - 512GB) for local storage if you need playback from camera.

Once memory card inserted, camera will format it, show capacity and start 24 hours recording with a red status icon at the top-right corner of the video automatically.

4) Playback and Download video (optional)



When memory card installed there is a red dot icon at the live video top-right corner , user can search and playback the inside videos and pictures.

**Playback:** click **Playback** button, select desired date from right calender, doubleclick the time bar (red is event recording, blue is normal record).

**Backup:** scrolling mouse wheel to zoom in on time bar, drag to select the video clip, right-click and click the **Download** menu.

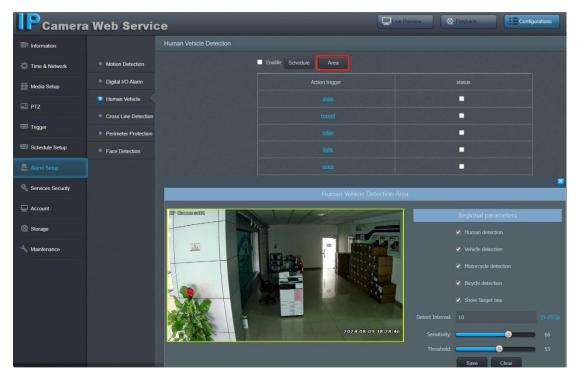
**File path:** C:\Users\<your name>\AppData\Local\NsdPlayerV4\record

- 5) Smart phone p2p remote access by scanning QR code (optional)
- Configurations > Services Security > P2P mobile view (Enable manually)

<b>IP</b> Camera	Web Servi	ce	Live Preview Q Playback
Information		Mobile Phone Setup	
🔅 Time & Network	Onvif	Enable Mobile Monitoring Save	Refresh
🞽 Media Setup	RTMP		
🖾 PTZ	RTSP		
	• RTP		
🖼 Trigger	P2P Mobile View		
🖼 Schedule Setup	• нік		
Alarm Setup	MEARI		
Services Security		Scan The QR Code To Add Device	
Q Account			
🐼 Storage			
Naintenance			



- 1. Install app "remoteyes" from Google Play Store or Apple Store
- 2. Scan camera p2p QR code to add device
- 6) To setup Smart Human Detection and Vehicle Detection
- > Configurations > Alarm Setup > Human Vehicle Detection



Detection target: human / vehicle / bicycle

Detection Area: default full-screen / user-defined drawing Show target box: display a rectangular border to surround the target Threshold: filter small target

Action trigger: 1. snap -- trigger snapshot when event happen;

- 2. record- trigger snapshot when event happen;
- 3. relay -- trigger alarm out relay and red&blue flashing;
- 4. light -- trigger white lights flashing as warning;
- 5. voice -- trigger loud speaker voice or tones playing

<b>IP</b> Camera	Web Servio	ce			Live Pr	eview	Playt	ack	Configuratio
		Trigger							
Time & Network	Trigger			Trigger Name					
🛗 Media Setup				snap					
🖾 PTZ									
				relay					
Trigger				light					
Schedule Setup									
Alarm Setup									
Services Security									
Q Account			Trigger Name:						
Storage			Trigger Type:						
Maintenance			Act Mode:	Continue					
Maintenance				voice_You_are_being_m	ionitorec 🗸	Test	Upload	Delete	
				tone_Dog_bark tone_phonecall tone_Lion_orans tone_Police_siren tone_Door_dingdong voice_CN_attention voice_You are_being_m Voice_CN_garbage_class	ionitored sification				

7) \* To setup Smart Line Crossing Detection

### > Configurations > Alarm Setup > Cross Line Detection

<b>IP</b> Camera	Web Servic	ce			ve Preview	😟 Playback	Configurations
Information		Cross Line Detection					
🔅 Time & Network	Motion Detection		Enable Schedule Area				
📷 Media Setup	Digital I/O Alarm		Show Target box				
🖾 PTZ	Human Vehicle		Show Rule line				
	Cross Line Detection	Detect Interval:					
🖽 Trigger	Perimeter Protection	Sensitivity:					
Schedule Setup	Face Detection	Threshold:					
🚊 Alarm Setup			Action Trigger			status	
Services Security						-	
🖵 Account						-	
🔕 Storage						-	
Naintenance							
			Save Refresh Res	set			



Setup step: 1. check the main enable checkbox;

- 2. click  $``\ensuremath{\mbox{Area}}''$  , select a rule and check the  $\ensuremath{\mbox{sub}}\xspace$  enable checkbox;
- 3. drawing alarm rule line when needed;
- 4. select detection target and moving direction (A->B, B->A, A<->B);
- 5. select the trigger actions when desired.

#### 8) \* To setup Smart Face Detection

#### > Configurations > Alarm Setup > Face Detection

Information		Face detection			
🔅 Time & Network	Motion Detection		Z Enable Time Area	a	
📷 Media Setup	Digital I/O Alarm		Show Target box		
🖾 PTZ	Human Vehicle		Show detection area border		
	Cross Line Detection		Show Face Score		
📟 Trigger	Perimeter Protection	Snap Mode:	Effect Priority V		
Schedule Setup	Face Detection	Preferred face count:			
Alarm Setup		Minimum Pixel:			
Services Security		Maximum Pixel:			
Account		Detection Interval:			
		Sensitivity:		<b>8</b> 0	
Storage		Thresholds:		<b>7</b> 0	
Maintenance		Image Upload:	Face+Original V		
			Action Trigg		Status
					-
					-
					-
					-
			Save Refresh F	Reset	

Setup step: 1. check the **Enable** checkbox;

- 2. click "Area" (default full-screen)
- 3. drawing detect area or schedule when needed;
- 4. select the trigger actions when desired.

#### 9) \* To setup Smart Perimeter protection

#### > Configurations > Alarm Setup > Perimeter protection

		×
Perimeter Protection Area		
IP Camera 02 Rule:	Regional parameters         1       ~         Enable         Human detection         Vehicle detection         Motorcycle detection	
	Bicycle detection	
20224-03-09 17/112-1241	Save Clear	

Setup step: 1. check the main enable checkbox;

- 2. click "Area", select a rule and check the **sub enable** checkbox;
- 3. drawing alarm rule block when needed;
- 3. select detection target
- 4. select the trigger actions when desired.

Using the P2P UID and QR code, you can access the camera remotely anywhere via smart phone with Internet access. Please register an account via mobile phone after installing the **"remoteyes"** APP from **Apple Store** or **Google Play Store**, then log in and add your camera to start previewing.

#### Tips:

If the **Login Status** shows **Offline**, please check your Internet connection and IP camera **TCP/IP Network** configurations. Please make sure to use a valid IP address, Gateway and DNS server in the TCP/IP Network settings.

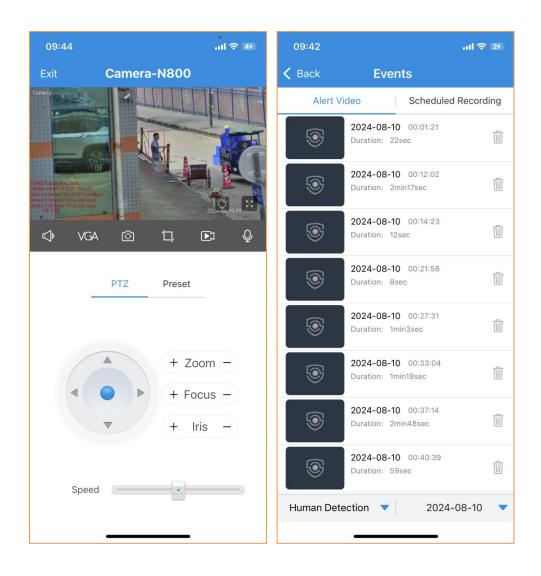
## Working with smart Phone (Android & iPhone)

Visit the **Apple Store** or the **Google Play Store** to download the **remoteyes** app for iOS or Android devices. After installation, tap the icon to launch the **remoteyes** app. For the first time use, please create a new account.

	10:	05			all 🕈 🖾
		R	emoteye	es	+
	R	Add Camer	a by CID		
	<b>8</b> 2	Add Camer	a by QR C	ode	
Remoteyes	Ģ.	Search in Lo	ocal Netwo	ork	
Email address	Ð	Create Grou Display videos f			
Password	verent sta verent sta			20	<b>2</b>
Forgot password?	Away	/ Message		Videos	Settings
Sign In					
Register					
	c	<b>Q</b> camera	Contract Local Album		А <sub>Me</sub>
		_		_	

#### **Genera use steps**

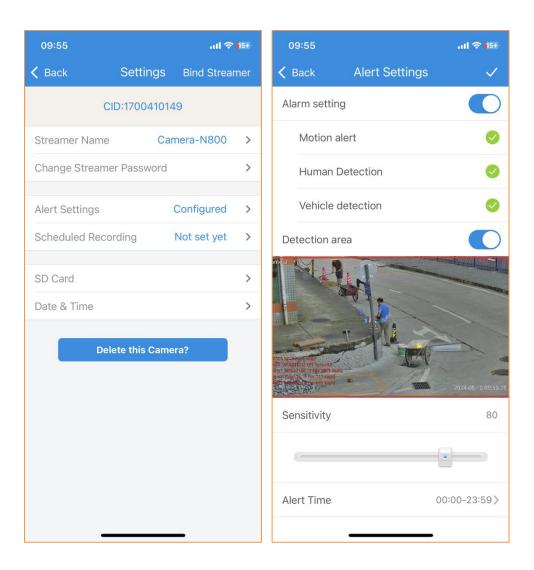
- 1. For new users, please tap **CREATE NEW ACCOUNT** to register an account
- 2. Tap "+" select "Add Camera by QR Code"
- Get into the camera QR code web page (Configurations > Services Security > P2P mobile view (Enable manually))
- 4. Put the IP camera QR code in the app effective scan area to finish adding
- 5. Tap the camera list to start live video



#### **Function description**

Icon	Function description
<b>+D</b> Away	Away / Home : push notifications or not
) Message	Additional Cloud paid service

Cloud	Additional Cloud paid service
☐Q Videos	Video playback
දරා Settings	Go to camera settings
VGA	Switch HD or SD live resolution
ি	Rotate camera image direction
·□,	Take snapshot
	Record video clip
Q	Start two-way audio intercom
024- <del>0</del> 8-10	Change night mode (IR / Color / Auto)



#### Note:

if you cannot connect the camera, please check your Internet connection and verify the IP address, gateway, and DNS setting in the camera.

The Cloud login status should be **online**, which means the camera has registered to the cloud server.

You may also want to connect your phone to WiFi for better performance.

### Working with NVR

The IP camera supports standard ONVIF protocol and it can be added to third-party video recorder.

Some of the models support both H.264 and H.265 encode mode. The H.265 encode cameras can compress the video data to a very low bit rates which allows more video data storage than normal H.264 camera.

Before pairing cameras to the NVR, make sure the NVR and cameras have valid and matching IP address scheme.

			dvanced								
	Encoding C Refresh QSearch Segment Modify IP Camera								am Config	Net Config	Details
1441			No.	IP Address	Status	Qty	Model				
				172.16.0.2	Added		HK-IPCAM-HI		2		
	Image			192.168.100.202			MSTAR_IPNC	01			
	Privacy Mask										
	PTZ										
<b>(</b> )											
iystem											
ġ.			Add N	lode	IP Ad	dress					
			Proto		ONVI	F					
-			IP Add	dress		- 168					
£			Port		80						
					admi						
			Passw	Camera Number							
Alarm				ded Transmission	1						
					Search		OK	Cancel			
<b>%</b> laintain				rotocol			UK Maga	Cancel			

**Note:** Some of the PoE NVR supports **Plug & play**, which allows you to get video without manually search and add. if **Plug & play** feature is not available or not compatible, please follow the NVR manual steps and select **ONVIF** protocol as the paring protocol. *(Camera default password: 123456)* 

If the POE NVR can not discover the connected camera or can not display the camera video , please check it's internal POE interface IP configuration and make sure all connected cameras and NVR POE interface are in the same subnet schema.

For more help please contact the both NVR and IP camera suppliers for technical assistance.

### **Frequently Asked Questions**

1. Why can't I open the default IP address 192.168.0.123 via web browser?

The camera is working at DHCP mode by default, it will obtain the IP settings from router automatically . Please install the IP search tool to find the camera's IP address. Camera IP address will be 192.168.0.123 if no router in the LAN.

2. How to reset the password?

If you lost the password or would to reset the camera's setting, please install the search tool to search the camera IP and click **Batch Reset** button. Also if the camera with a built-in hardware reset button and easy touched, just keep pressing it around 10 second.

3. How to upgrade the IP camera?

1) Ask the supplier for the suitable firmware, 2) you can use the web browser, search tool to upgrade the camera, 3) go to the **upgrade** button and wait for the operation to complete.

4. How to fetch the RTSP video stream and http snapshot?

1) VLC test Main Stream: rtsp://admin:123456@IP:554/media/live/1/1

- 2) VLC test Sub Stream: rtsp://admin:123456@ IP:554/media/live/1/2
- 3) Low resolution snapshot: http://IP/cgi/special.cgi?act=snapshot&stream=1
- 4) HD snapshot : http://IP/cgi-bin/snapshot.cgi?act=snapshot&stream=0 (some models support)
- 5. Why doesn't the NVR show image after adding IP camera?

Make sure the NVR and IP camera are the same IP subnet.(eg. NVR:192.168.1.x, and IP camera:192.168.1.y)
 Try changing the protocol to ONVIF, encode mode to H.264.

- 6. How to make the NVR record in motion detection mode?
  - 1) add the IP camera via ONVIF protocol
  - 2) change the NVR record mode to Motion Detection mode
  - 3) check the NVR screen MD icon and try playback

Please refer to your NVR manual for NVR motion record option, camera also should enable motion detection.

- 7. Where can i control the motorized auto focus lens zoom?
  - 1) Using the camera's web interface
  - 2) Control zoom by mobile app
  - 3) Go to the setting tool configuration tab and select PTZ tab window
  - 4) Find the PTZ menu in your NVR to control lens zoom
- 8. Which kinds of third-party security software can be compatible with?

Milestone, Avigilon, Pelco VxToolbox, Blue Iris, iSpy, Synology, Digifort ...