

How to Add Third-party Cameras to a Uniview NVR?



How to Add a Third-party Cameras to a Uniview NVR?

Description

Note: This method is applicable to most of the scenarios, if the method still cannot solve your problem, it is recommended to consult our Tech Support Team. <u>https://global.uniview.com/Support/Service_Hotline/</u>

Operating Steps

Step 1 Makes sure the third-party camera and your Uniview NVR stay in the same local network and are pingable to each other (either connected to a switch or a POE port of the NVR)

Step 2 Choose the corresponding add mode you are using currently. Usually Manual or IP address.

Step 3 If the Uniview NVR can search and find the third-party camera directly, just put the correct IP of the camera here.

Note: A third-party camera's IP address can be found through that vendor's search tool. You can refer to it to find its correct IP and put it on the Uniview NVR when you try to add it.

Step 4 Choose **ONVIF** as the protocol generally and put the correct HTTP port of the third-party camera.

Note: Private protocol is used for Uniview cameras only while *Custom* protocol is using the RTSP stream of the third-party cameras. You can use Custom protocol to add a third-party cameras as well. Contact the third-party camera's vendor to get its RTSP stream address and RTSP port so as to put it here.

| | | 🖳 Live View 📖 | Playback 🌣 Setup | 🔔 Smart |
|------------------|------|---------------------|------------------|---------------|
| Client | * | Camera | Fisheye | Advanced |
| System | 8 | | | |
| Camera | ~ | Add Mode | IP Address | 6:DA, z06517s |
| Camera | | Protocol | Private | |
| Encoding | | IP Address | Custom | ļ |
| OSD | | Port | 80 |] |
| Image | | Username | |] |
| Schedule | | Password | |] |
| Motion | | Title | |] |
| Video Loss | | Total Camera Number | | |
| Tampering | | Search Save | Cancel | |
| Privacy Mask | | | | |
| Snapshot | | | | |
| Audio Detection | | | | |
| Human Body Detec | tion | | | |

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| Product | NVR | Date | 9/26/2023 | | | | |
| Protocol | 3:6A:64:FC:76:DA, z06517s | | | | | | |
| Custom | Custom1 • | | | | | | |
| Protocol Name | Custom1 | | | | | | |
| Port | 554 | | | | | | |
| Transfer Protoco | I UDP V | | | | | | |
| Enable Main Stre | am 🗹 | | | | | | |
| Resource Path | rtsp:// <ip>:<port>/ unicast/c[2]/s0/live</port></ip> | rtsp:// <ip>:<port>/ unicast/c[2]/s0/live</port></ip> | | | | | |
| Enable Sub Strea | m 🗌 | | | | | | |
| Resource Path | rtsp:// <ip>:<port>/</port></ip> | | | | | | |
| Example: rtsp:// One channel: rtsp://192.168.0.1 Multi-channel: rtsp://192.168.0.1 rtsp://192.168.0.1 [%C±N]: %C me | <ip address="">:<port number="">/<resource path="">; :554/unicast/c1/s0/live; :554/unicast/c[%C]/s0/live; Add selected camera ID :554/unicast/c[%C+1]/s0/live; Add selected camera ID+1 :554/unicast/c[%C-1]/s0/live; Add selected camera ID-1 ans the remote camera ID selected, N means offset.</resource></port></ip> | | | | | | |
| | Save Cancel | | | | | | |

Step 5 Put the camera's login username and password and click **Save**. Wait for a moment and the camera will usually come online.

Note: Some of the third-party cameras may have a login user and a separate ONVIF user, in that case, you may need to put the ONVIF user's username and password here.

If the third-party camera fails to come online, you may refer to the guides below to see whether that helps or not.



If your third-party camera's web interface is similar to the one below, refer to this guide to add it:

Step 1 Enable **Open Network Video Interface** on the camera's web interface under **Configuration>Network>Advanced Settings>Integration Protocol** and select **Digest&ws-username token** if there is such an option for you.

| | Live View Configuration | |
|----------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| System | SNMP FTP Email Platform Access HTTPS QoS | 802.1x Integration Protocol Network Service Alarm Server |
| Network Basic Settings | Enable Hikvision-CGI Hikvision-CGI Authenticat digest | |
| Advanced Settings | Enable Open Network Video Interface | |
| Video/Audio | Open Network Video Inter | |
| image | User List | Add Modify Delete |
| Event | No. User Name | Level |
| Storage | | |
| | | |
| | | |
| 19 ¹⁹ | | |
| | Live View Configuration | |
| System | SNMP FTP Email Platform Access HTTPS QoS 802.1x | Integration Protocol Network Service Alarm Server SRTP |
| Network | Enable Open Network Video Interface | |
| Basic Settings | Open Network Video Inter 19.12 | |
| Advanced Settings | Open Network Video Inter. Digest&ws-username token 👻 | |
| Video/Audio | liear Liet | A44 Liberthy Postala |

Step 2 Add a new administrator type user in the user list for ONVIF.

Eg:

Username: admin1

Password: admin123456@

Distribute Permission: administrator level, allow all the rights.

| | Basic Settings | Enable ONVIF | | |
|----|-------------------|--------------|-----------|-------------------|
| | Advanced Settings | User List | | Add Modify Delete |
| ₽. | Video/Audio | No. | User Name | Level |
| 1 | Image | 1 | admin | Administrator |

Step 3 Disable Illegal Login Lock on the camera's web interface under **System>Security>Security Services**.

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|----------|-----------------|-------------------------|-------------------------|------------------|----------|-------------|
| Tit | tle H | ow to Add Third-party O | Cameras to a Uniview NV | R? | Version: | V1.1 |
| Proc | duct | N | VR | | Date | 9/26/2023 |
| -2128 | | Live View | Configuration | | | |
| | System | Authentication | IP Address Filter | Security Service | Advance | ed Security |
| | System Settings | Enable : | SSH | 101 | | |
| | Maintenance | Enable I | llegal Login Lock | | | |
| | Security | Illegal Logi | n Attempts | | 7 | |
| | User Management | | | | | |
| Ð | Network | | Save | | | |
| <u>.</u> | Video/Audio | | 100 | | | |
| 1 | Image | | | | | |
| | Event | | | | | |
| | Storage | | | | | |

Step 4 Add the camera to a Uniview NVR.

Guide on GUI:

<u>https://www.youtube.com/watch?v=n-</u> <u>syAeM7UaQ&list=PLrBaKYrUJkiv_ShCVIqTeIAsOxyFEljjR&index=77</u>

Step 4.1 Click **Add** and put the info required on the NVR's web interface under **Setup>Camera>Camera**.

Add mode: IP Address

Protocol: ONVIF

IP address: IP address of the camera, which needs to be in the same local network with your NVR.

Port: the camera's RTSP port is usually 554 and HTTP port 80 (default). If you've modified these values, simply enter the new ones.

Note: Put the correct port which matches the Protocol you have chosen above.

Username: admin1, the user we created in Step 2

Password: admin123456@, the password of the user we created in step 2

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|--------------|---|----------------|--------|-------------|--------------|---------------------|--------------------|----------|-----------|
| Product | | | | NVF | 2 | | | Date | 9/26/2023 |
| vn | | 📮 Live View | 8 | Playback | Ø Set | up 👗 | Smart | <i></i> | |
| Client | v | Camera | | Fishe | ye | Adv | anced | | |
| System | V | Auto Switch to | H.265 | ⊙0n ⊛Off | Note: Effect | ve when first conn | ected | | |
| Camera | A | Auto Switch to | U-Code | Off | ~ | Note: Effective whe | en first connected | | |
| Encoding | | Refresh | Modify | Delete | Add | Auto Search | Search Segment | | |
| OSD | | 🗌 No. | Cam | era ID | Address | Port | Remote Camera ID | Protocol | Status |
| Schedule | | | | | 1 | | | | |
| Motion | | | | | | | | | |
| Video Loss | | | | / | | | | | |
| Privacy Mask | | | | / | | | | | |
| Snapshot | | | | / | | | | | |
| /CA | ~ | | | | | | | | |
| Hard Disk | ¥ | | | | | | | | |
| Alarm | ¥ | | | | | | | | |
| Alert | ~ | | | | | | | | |
| Network | × | | | | | | | | |
| Platform | ¥ | | | | | | | | |
| User | V | | | | | | | | |
| Maintenance | ¥ | | | | | | | | |
| 2010200000 | | | | | | | | | |

| นทิง | | 📮 Live View 📖 | Playback 🗢 Se | tup 🥼 Smart | |
|-----------------------------------------------------------------------------|-------|------------------|---------------|----------------------------------|--|
| Client | ~ | Camera | Fisheye | Advanced | |
| System | ¥ | | | 1 | |
| Camera | - | Add Mode | IP Address V |] | |
| Camera | | Protocol | ONVIF V | | |
| Encoding | | IP Address | 192.168.1.18 | | |
| OSD | | Port | 80 | | |
| Image | | Username | admin | | |
| Schedule | | Password | ••••• | 0-20 characters, case-sensitive. | |
| Motion | | Remote Camera ID | 1 |] | |
| Tampering Privacy Mask Snapshot Audio Detection Human Body Dete | ction | Search Save | Cancel | | |
| Hard Disk | V | | | | |
| Alarm | V | | | | |
| Alert | ¥ | | | | |
| Network | ¥ | | | | |
| Platform | ~ | | | | |
| User | ¥ | | | | |
| Maintenance | V | | | | |

Step 4.2 Click Save and Refresh and wait for a moment.

With the same method, when you complete the configurations on the camera, you can also add cameras from Uniview NVR's GUI.



If your third-party camera's web interface is similar to the one below, refer to this guide to add it:

Step 1 Click **Add** on the camera's web interface to add an ONVIF user (user group is administrator) under **System Options>Security>ONVIF**.

| Basic Setup | ONVIF Version: 1.02 | | 0 |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|
| Video & Audio | Users List | | |
| Live View Config | Upor Name | User Group | |
| | · Constanting and a second sec | | |
| Detectors | | | |
| . Ann Frankland | | | |
| Applications | | | |
| + Events | | | |
| Recordings | | | |
| System Options Security Users ONVIF IP Address Filter HTTPS | Add | Modify | |
| IEEE 802.1X Audio Support Date & Time | | | |
| Network Storage Ports & Devices Maintenance | | | |
| Advanced | | | |

Step 2 Disable the attack protection.

Uncheck **Enable replay attack protection** of the camera under **System Options>Advanced** and click **Save**.

| Network Camera | Live View Setup Help |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| The plain config page allows direct access to all the co Camera. This page uses no extra scripts (Javascript or Select the parameter group to modify and configure the | onfigurable parameters supported by the AXIS Q1604 Network otherwise) and should function correctly in any browser or PDA. e settings directly. |
| For help on parameters, please refer to the relevant help | p page available from the standard setup tools. |
| Select a group of parameters to modify: | |
| WebService Select group | |
| WebService | |
| WebService UsernameToken: | |
| Enable replay attack protection: V X | |
| and tale and the freezen freezent | |

Step 3 Disable Link-Local IPv4 Address.

Uncheck **Auto-Configure Link-Local Address** of the camera under **System Options>Network>TCP/IP>Advanced** and click **Save**.

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|------------------|---------------------------------------------|---------------------|-----------------|---------------|-----------|--|--|
| Product | NVR | | | Date | 9/26/2023 | | |
| Basic Setup | Advanced TCF | P/IP Settin | ngs | | 0 | | |
| | DNS Configuration | | | | | | |
| Video | Obtain DNS server ad | dress via DHCP | View | | | | |
| Live View Config | Use the following DNS | server address: | | | | | |
| PTZ | Domain name: | | (use : to separ | ate names) | | | |
| Applications | Primary DNS server: | | | | | | |
| Applications | Secondary DNS serve | | | | | | |
| Events | NTP Configuration | | | | | | |
| System Options | Obtain NTP server address via DHCP View | | | | | | |
| Date & Time | C. Line the following NTD | record address | | | | | |
| *Network | Network address: | server augress. | | 10 addressed | | | |
| Basic | Host Name Configuratio | | (nost name or | te adoress) | | | |
| Advanced | a live the best come | axis-00408cc15a | 34 | | | | |
| QoS | i ose ose nos name. | | | | | | |
| SMTP (email) | Enable dynamic DNS | updates | | | | | |
| UPnP" | Register DNS name: | | (Axisproduct | .example.com) | | | |
| RTP | TTL: | 30 | | | | | |
| LED | Link-Local IPv4 Addres | 55 | 1 | | | | |
| Maintenance | Auto-Configure Link-L | ocal Address | View | | | | |
| Advanced | нттр | | | | | | |
| a see a second | HTTP port: | 80 | | | | | |
| About | HTTPS | | | | | | |
| | HTTPS nort: | 443 | | | | | |

Step 4 Disable the NTP if necessary.

Step 5 Click **Add** on the Uniview NVR's web interface to add the camera under **Setup>Camera>Camera**.

| | | 💻 Live View 📰 Pl | ayback 🌞 Setu | p 🎝 Smart | - 57 |
|--------------|---|---------------------------------------|------------------------|--------------------------------------|-----------------|
| Client | * | Camera | Fisheye | Advanced | |
| System | * | | | | |
| Camera | ~ | Auto Switch to H.265 | On Off Note: Effectiv | e when first connected | |
| Camera | | Auto Switch to U-Code O | ff V N | lote: Effective when first connected | |
| Encoding | | Refresh Modify | Delete Add | Auto Search Search Segment | |
| OSD | | No. Camera I | D Address | Port Remote Camera ID | Protocol Status |
| Image | | | | | |
| Motion | | | | | |
| Video Loss | | | | | |
| Tampering | | | | | |
| Privacy Mask | | | | | |
| Snapshot | | | / | | |
| VCA | * | · · · · · · · · · · · · · · · · · · · | | | |
| Hard Disk | ~ | | | | |
| Alarm | * | | | | |
| Alert | * | | | | |
| Network | * | | | | |
| Platform | * | | | | |
| User | * | | | | |
| Maintenance | * | | | | |
| Backup | ~ | | | | |

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| Product | | 1 | IVR | | | Date | 9/26/2023 |
| unv | | Live View 📖 | Playback 4 | Setup | 20 | Smart | |
| Client | ~ | Camera | Fisheye | | Advar | nced | |
| System | 4 | | | | | | |
| Camera | ~ | Add Mode | IP Address | ~ | | | |
| Camera | | Protocol | ONVIE | ~ | | | |
| Encoding | | IP Address | 192.168.1.18 | | | | |
| OSD | | Port | 80 | | | | |
| Image | | Username | admin | | | | |
| Motion | | Password | | ✤ 0-20 chi | aracters, case | sensitive. | |
| Video Loss | | Remote Camera ID | 1 | \sim | | | |
| Tampering | | Search Save | Cancel | | | | |
| Privacy Mask | | | | | | | |
| Snapshot | | • | | | | | |
| Audio Detection | | | | | | | |
| Human Body Detection | N | | | | | | |
| Hard Disk | ~ | | | | | | |
| Alarm | ~ | | | | | | |
| Alert | U | | | | | | |
| Network | ~ | | | | | | |
| Platform | ~ | | | | | | |
| User | ~ | | | | | | |
| | | | | | | | |

Add mode: Manual

Protocol: ONVIF

IP address: the camera's IP address

Port: the camera's RTSP port is usually 554 and HTTP port 80 (default). If you've modified these values, simply enter the new ones.

Note: Put the correct port which matches the Protocol you have chosen above.

Username: The new administrator ONVIF user we created in Step 2

Password: The password for the user we created in Step 2

Click **Save** and **Refresh** and wait for a moment.

Note: When you finish configuring the camera, you can also add it from the NVR's monitor with the same method.



If your third-party camera's web interface is similar to the one below, refer to this guide to add it:

Step 1 Please Turn off **ONVIF Authentication** on the camera's web interface under **Setting>Network>Access Platform>ONVIF**, and then click **Save**.

| ► Camera | P2P | ONV | ONVIF | | RTMP | | | | | |
|-------------------|----------------------------------------|------|---------|-----|---------|----|--|----|----------|--|
| Network | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | 1425 | - | | | | | | | |
| > TCP/IP | Authentication | 0 | On 💿 | Off | | 00 | | | | |
| > Port | | | Default | | Refresh | | | Sa | Save | |
| > PPPoE | | | | | - | | | | | |
| > DDNS | | | | | | | | | | |
| > SMTP(Email) | | | _ | | | | | | | |
| > UPnP | | | | | | | | | | |
| > Bonjour | | | | | | | | | | |
| > Multicast | | | | | | | | | - A - 10 | |
| > Auto Register | | | | | | | | | | |
| > 802.1x | | | | | | | | | | |
| > QoS | | | | | | | | | | |
| > Access Platform | | | | | | | | | | |

Step 2 Click **Add** on the Uniview NVR's web interface to add the camera under **Setup>Camera>Camera**.

| บทิง | | 📮 Live View 🔳 Pla | ayback 🌣 Setup | 🦾 Smart | \$°. |
|--------------|---|--------------------------|---------------------------|-----------------------------------|-----------------|
| Client | * | Camera | Fisheye | Advanced | |
| System | * | | | | |
| Camera | ~ | Auto Switch to H.265 | On Off Note: Effective w | hen first connected | |
| Camera | | Auto Switch to U-Code Of | ff 🗸 Note | e: Effective when first connected | |
| Encoding | | Refresh Modify | Delete | Auto Search Search Segment | |
| OSD | | No. Camera II | D Address | Port Remote Camera ID | Protocol Status |
| Image | | | | | |
| Schedule | | | 10 A | | |
| Video Loss | | | | | |
| Tampering | | | | | |
| Privacy Mask | | | | | |
| Snapshot | | | / | | |
| VCA | * | | | | |
| Hard Disk | * | | | | |
| Alarm | * | | | | |
| Alert | * | | | | |
| Network | * | | | | |
| Platform | * | | | | |
| User | * | | | | |
| Maintenance | * | | | | |
| Backup | * | | | | |
| | | < | | | |

| Title | How to Add Third-party Cameras to a Uniview NVR? | | | | | | V1.1 | |
|----------------------|--------------------------------------------------|---------------------------------------|--------------|--------|----------------|------------|-----------|--|
| Product | NVR | | | | | Date | 9/26/2023 | |
| VNL | | Live View 📖 | Playback 🔅 | Setup | 26 5 | imart | | |
| Client | * | Camera | Fisheye | | Advan | ced | | |
| System | 4 | | - | | | | | |
| Camera | ~ | Add Mode | IP Address | ~ | | | | |
| Camera | | Protocol | ONVIE | \sim | | | | |
| Encoding | | IP Address | 192.168.1.18 | | | | | |
| OSD | | Port | 80 | | | | | |
| Image | | Username | admin | | | | | |
| Schedule | | Password | ***** | | racters, case- | sensitive. | | |
| Motion Video Lorr | | Remote Camera ID | 1 | ~ | | | | |
| Tampering | | Cauch | Cancel | | | | | |
| Privacy Mask | | search | Cancel | | | | | |
| Snapshot | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Audio Detection | | | | | | | | |
| Human Body Detectio | n | | | | | | | |
| Hard Disk | ~ | | | | | | | |
| Alarm | * | | | | | | | |
| Alert | ~ | | | | | | | |
| Network | ~ | | | | | | | |
| Platform | ~ | | | | | | | |
| User | ~ | | | | | | | |
| | | | | | | | | |

Add mode: Manual

Protocol: ONVIF

IP address: the camera's IP address

Port: the camera's RTSP port is usually 554 and HTTP port 80 (default). If you've modified these values, simply enter the new ones.

Note: Put the correct port which matches the Protocol you have chosen above.

Username: admin

Password: camera admin password

Click **Save** and **Refresh** and wait for a moment.

Note: When you finish configuring the camera, you can also add it from the NVR's monitor with the same method.