



Camera ONVIF streams Configuration Guide

MAKE SURE THAT ALL CAMERAS HAVE THE
LATEST FIRMWARE UPDATES INSTALLED

Recommended sequence of steps

1. Update all cameras to the latest Firmware.
2. Configure each camera (IP and general settings).
3. Make sure that ONVIF user is configured.
4. Check availability and if needed create a separate ONVIF profile to be used with 3dEYE cloud service and other services/devices.
5. Add cameras to 3dEYE cloud service.
6. Add cameras to other service or device.

Important: configure a different stream channels for each service/device that is connected to the camera.

Camera IP Address Setup

The screenshot shows the UNV camera setup interface. The top navigation bar includes 'Live View', 'Playback', and 'Setup'. The left sidebar has categories: 'Common' (Basic Info, Local Settings, Ethernet, Time, OSD, User), 'Network', 'Video & Audio', 'Image', 'Intelligent', 'Events', 'Storage', 'Security', and 'System'. The 'Ethernet' tab is selected, showing options for 'Obtain IP Address' (set to DHCP), 'IPv6' (Manual mode), and 'MTU' (1500). A 'Save' button is visible at the bottom of the Ethernet section.

[P2P mode](#) of camera connection is recommended, you can find specific instructions for each camera manufacturer in our “[Welcome Package](#)” under “Push Module” folder.

In most cases DHCP mode is recommended.

If using Static IP address check “default gateway” and “preferred DNS server” under **Network=>DNS**.

Configure camera clock and other parameters, but do NOT adjust image quality at this time.

Note: you do not need to configure stream quality at this time. Stream quality will be adjusted automatically during camera integration into our platform.

The inset screenshot shows the 'DNS' configuration page. It includes fields for 'Preferred DNS Server' (8.8.8.8) and 'Alternate DNS Server' (192.168.0.1), with a 'Save' button at the bottom.

ONVIF User Setup

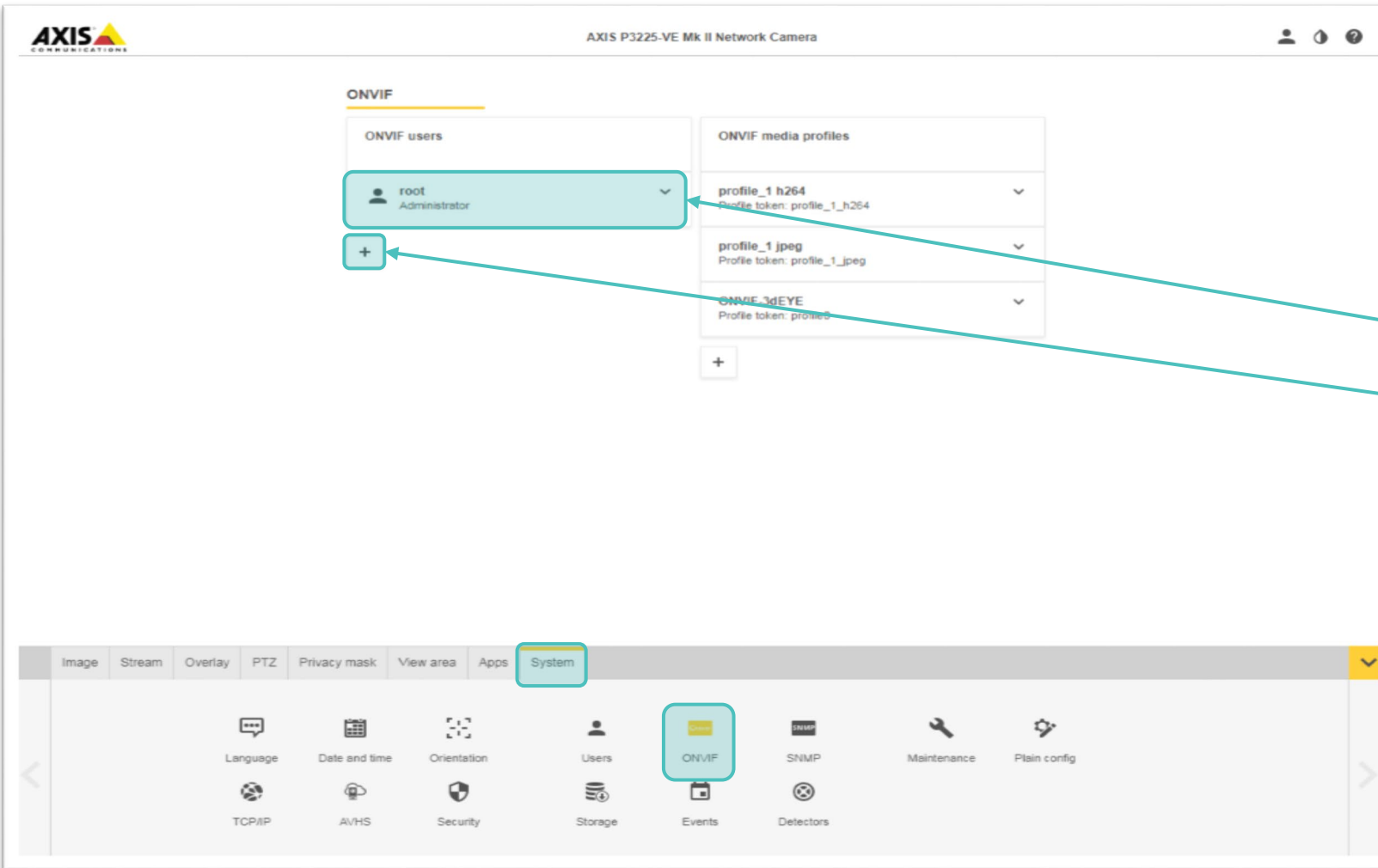
For some camera manufacturers it is required to configure ONVIF user before camera can be connected to external services or devices using ONVIF protocol.

For Axis cameras go to System tab and select ONVIF.

- Ensure that camera has access ONVIF user.

- If no user is listed press “plus” and create one with *Administrator* rights.

IMPORTANT: ONVIF user must be created before Push Module is activated on the camera. Consult our manufacturer specific tutorials from the [Welcome Package](#) in Dropbox for exact procedures.



ONVIF Streaming Channel Configuration

The screenshot displays the ONVIF configuration page. On the left, under 'ONVIF users', there is a list with 'root Administrator' and a '+' button to add more users. On the right, under 'ONVIF media profiles', there are two profiles: 'profile_1 h264' (Profile token: profile_1_h264) and 'profile_1 jpeg' (Profile token: profile_1_jpeg). The 'profile_1 h264' profile is highlighted with a green oval. A green arrow points from a text box to this profile. Below the profiles, there is a section for 'ONVIF-3dEYE' with fields for 'Profile name' (ONVIF-3dEYE), 'Video source' (user0), 'Video encoder' (0), and 'Metadata' (None). A 'Save' button is at the bottom right of this section. At the bottom of the page, there is a navigation bar with icons for various settings: Language, Date and time, Orientation, Users, ONVIF (highlighted with a green box), SNMP, Maintenance, Plain config, TCP/IP, AVHS, Security, Storage, Events, and Detectors.

ONVIF

ONVIF users

root Administrator

+

ONVIF media profiles

profile_1 h264
Profile token: profile_1_h264

profile_1 jpeg
Profile token: profile_1_jpeg

ONVIF-3dEYE
Profile token: profile0

Profile name
ONVIF-3dEYE

Video source - user0

Video encoder - 0

Metadata - None

Save

+

Language Date and time Orientation Users **ONVIF** SNMP Maintenance Plain config

TCP/IP AVHS Security Storage Events Detectors

NVR will recognize this as a Main Stream First in alphabetical order

Consult manufacturer specific manual on the exact procedure on how to configure ONVIF Streaming Profiles. Shown on the example of Axis camera.

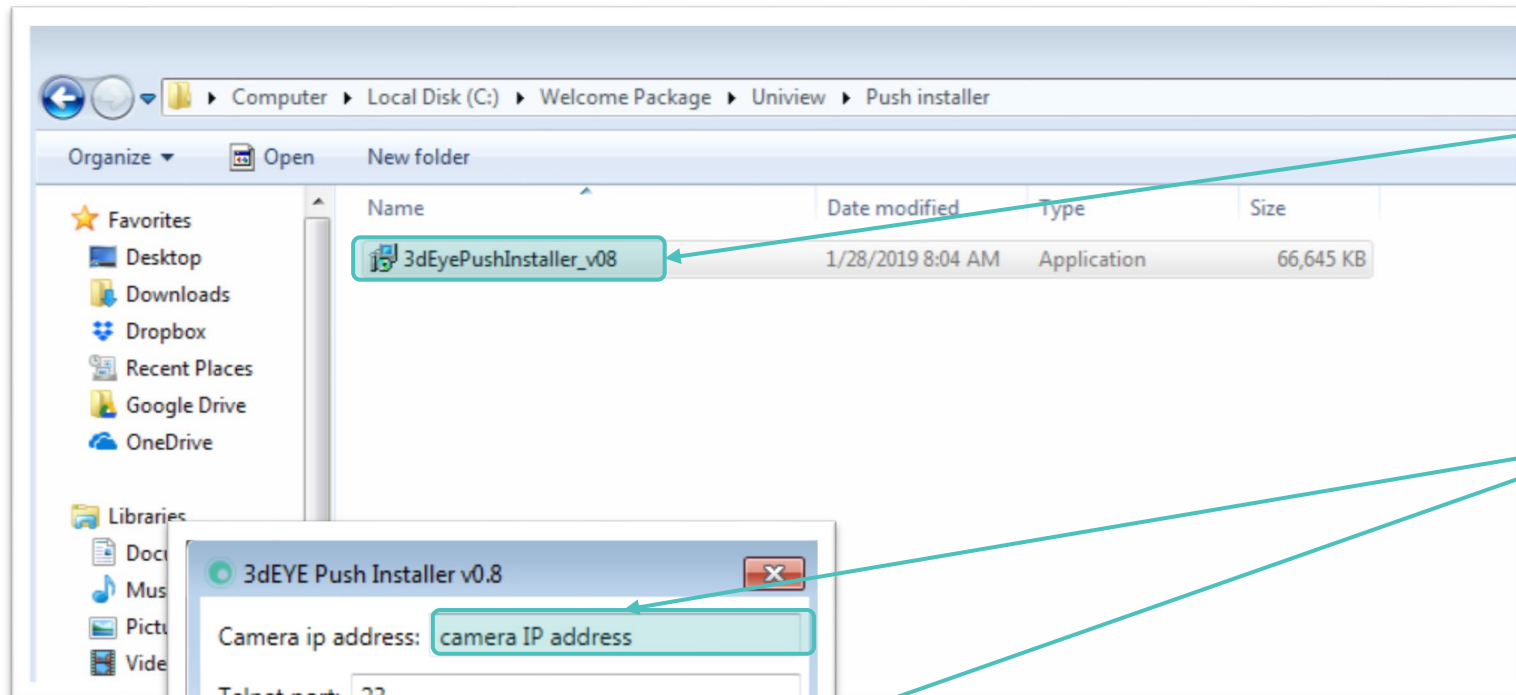
Make sure that at least two Stream profiles (Channels) are available.

If the second service to which you plan to connect your camera is NVR from a different manufacturer in most cases NVR will connect to the first stream profile in alphabetical order, so use second or any of the following profiles [to stream camera to our cloud](#).

If other service to which you plan to connect your camera allows you to select Streaming channels make sure to use different channel for every service you connect to the camera.

Note: Make sure that 3dEYE and other service device use different stream profile (channel), otherwise a conflict of configurations will occur resulting in unpredictable problems with camera performance.

Push Installer



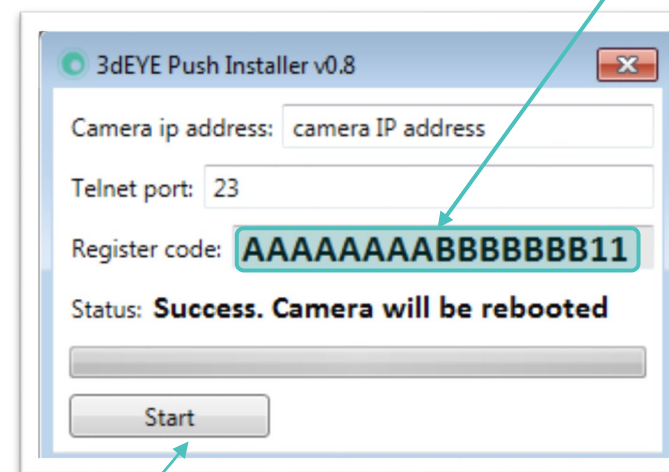
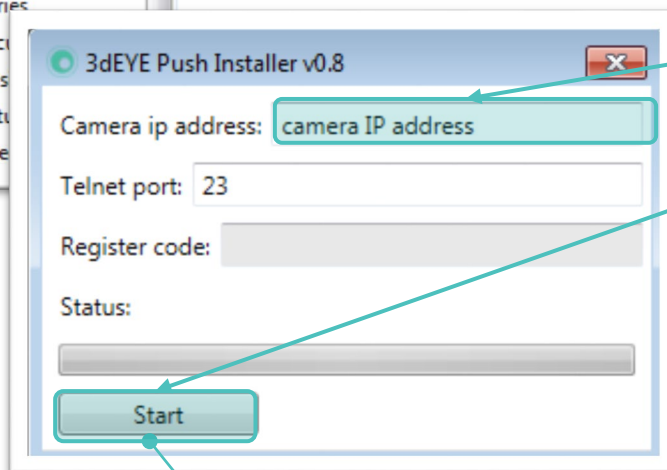
Install “3dEYE Push Installer” following manufacturer specific instructions from our [Welcome Folder](#) in Dropbox. Shown on the Uniview camera as an example.

Launch “3dEYE Push Installer” utility.

Enter local IP address of the camera and click Start button.

After successful installation you will see Register code that could be used to add camera to 3dEYE cloud.

Note: The process of installation is different for different camera manufacturers, you can find manufacturer specific instructions in Welcome Package under Push Module folder.



Connect Camera to 3dEYE

Cam 1 home

HTTP ONVIF RTSP Video Online Cloud

Info General Network **Quality** Recording Analytics Location Events Logs Delete Troubleshooting

Stream channel: ONVIF-profile-3dEYE

Resolution: 1920x1080

FPS: 1 30 5 frames per second

Image quality: Bitrate Quality

Bitrate: 128 1800 250 kbit/s ☐ VBR ☐ Set Automatically

Bitrate is lower than suggested Minimum. It can cause stream troubles.

Save

Go to 3dEYE admin panel and open Cameras Menu. (admin.3deye.me)

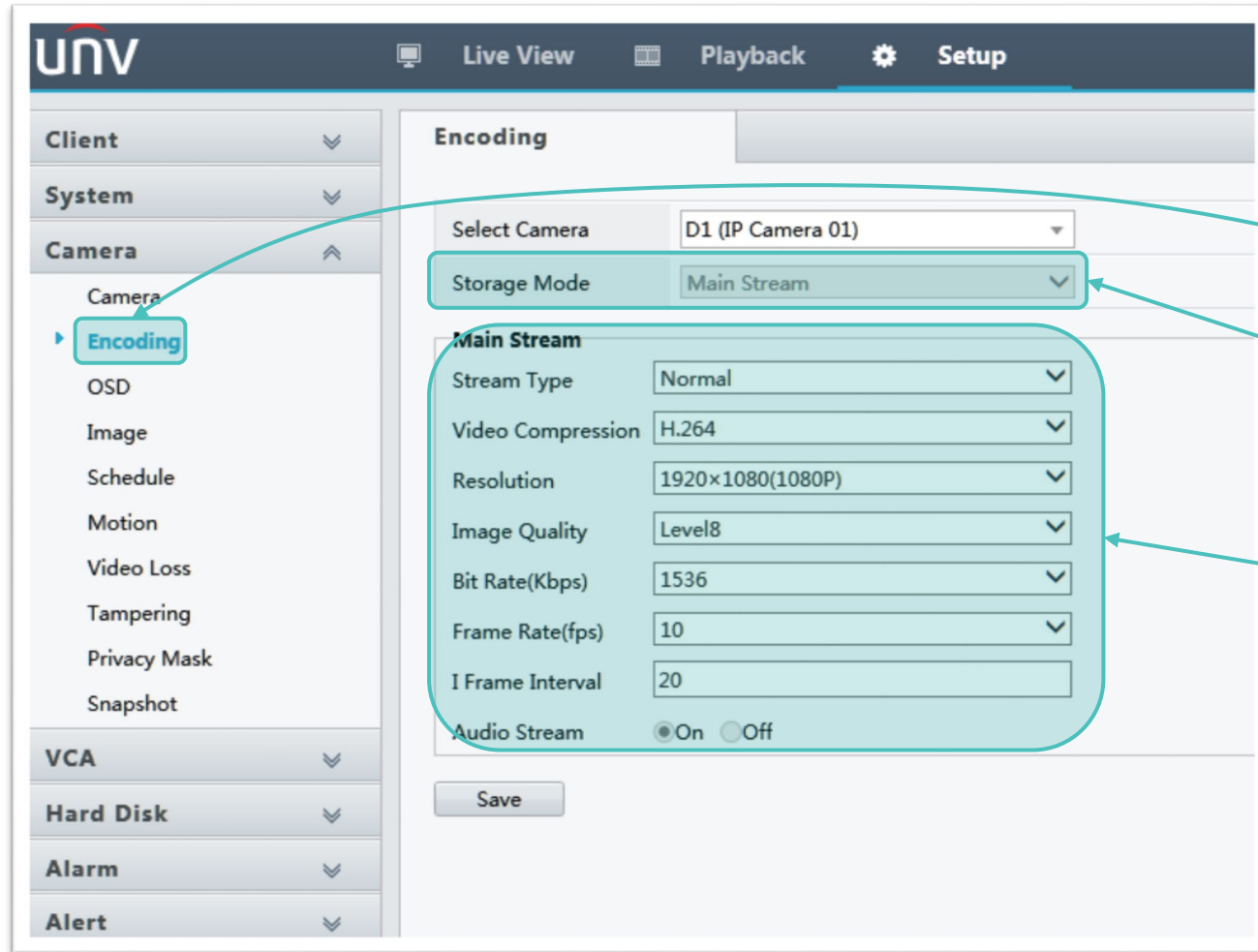
Add camera using your preferred method, for exact procedures see specific tutorials in [Welcome Package](#).

Once camera is connected go to Quality tab and select desired Stream Channel.

Adjust other camera properties as desired, these settings will be transferred to the camera.

Save the settings.

Connect Camera to Other Services



Integrate camera into other service or device, for exact procedure follow manufacturer specific instructions. In most cases these instructions can be requested from the service provider or device manufacturer on their website.

- For Uniview NVRs go to Camera Menu and select Encoding submenu.

- Storage Mode will show which streaming channel NVR is using, and in some cases will allow you to select a different Streaming Channel (Profile).

- Adjust Stream Quality settings according to your needs.

Note: Make sure that the stream that is used for NVR Storage is different from the one used for our cloud.