

Camera controls in Ampio Designer

Document number: PO-173-EN Version: 3.0 Date of publication: October 30, 2024

In this guide you will learn how to correctly configure a camera for use with the Ampio UNI application using HIKVISION cameras as an example.

Camera settings

The first step is to log into your camera by entering its IP address in your browser. If you don't know the IP address of the camera, a tool to find devices connected to the same network can help, the camera manufacturer recommends the **SADP** tool which is available on their website.

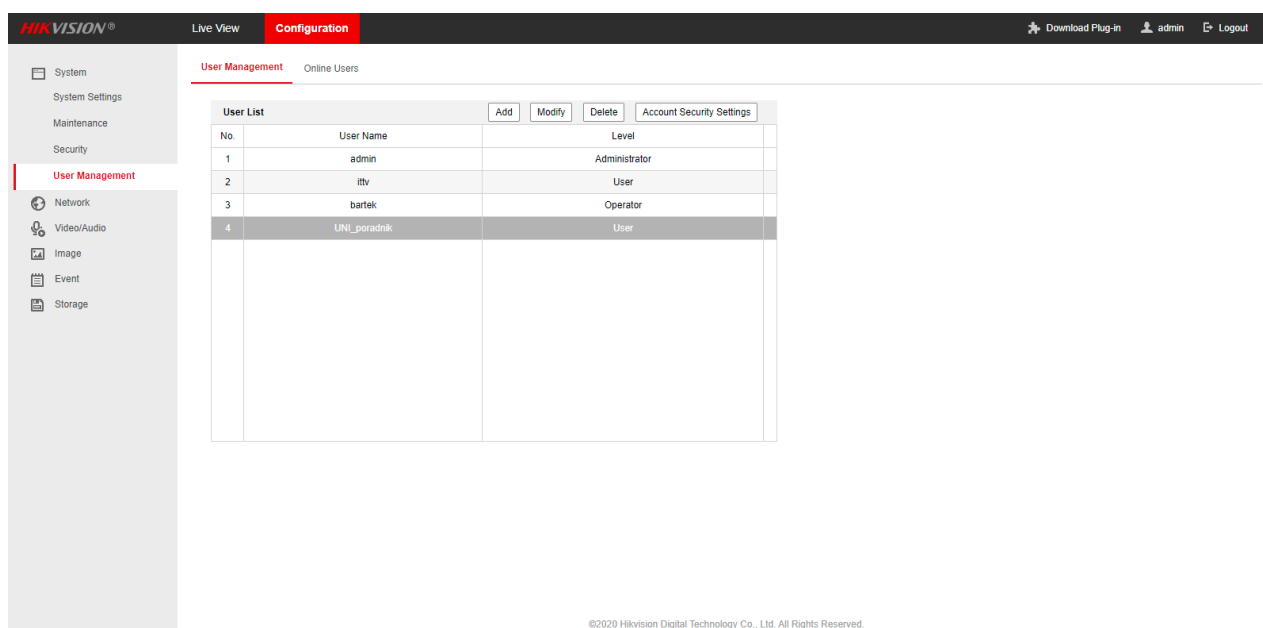
After entering the IP address of the camera, you will see a login window - go to the *Configuration* tab and then to *User Management*.

Depending on the specification of the respective camera, only one or several users can use the video transmission at a time. Therefore, if the camera specification allows more than one sub-stream at a time you should create a separate HIKVISION user for each Ampio UNI user. Please also note that in this case the same Ampio UNI user cannot be logged in on several devices at the same time, as the camera image will only be visible on one device.

To sum up:

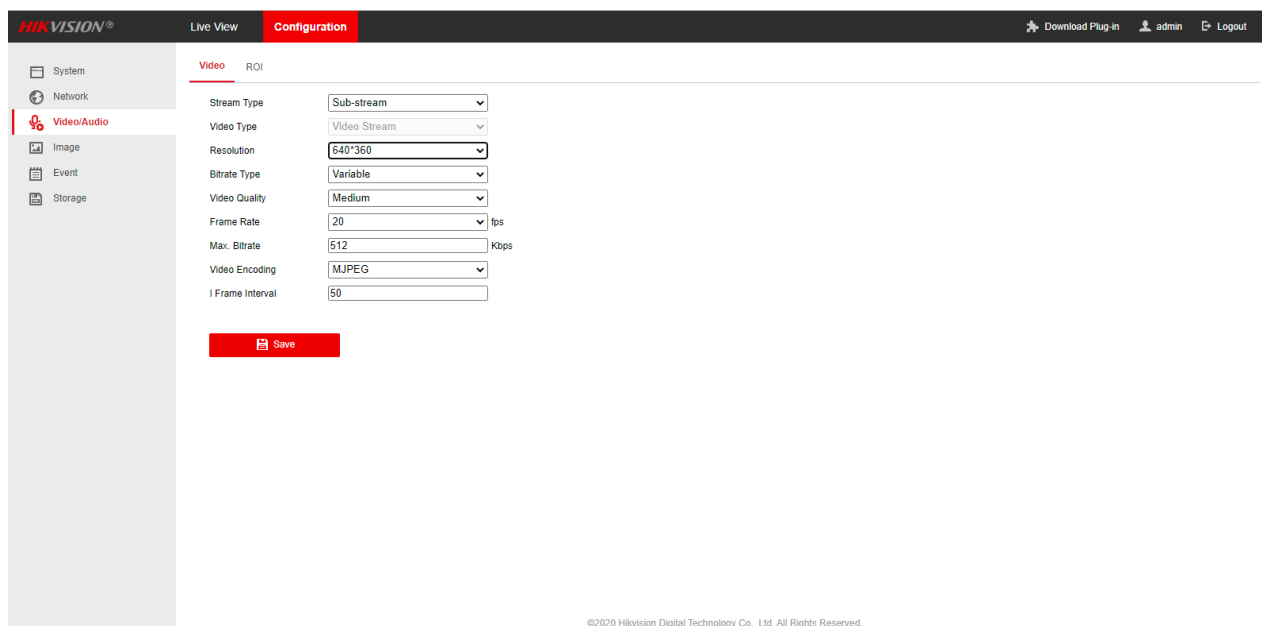
- first Ampio UNI user -> first HIKVISION user -> first phone.
- second Ampio UNI user -> second HIKVISION user -> second phone
- third Ampio UNI user -> third HIKVISION user -> third phone
- etc...

A new user has been created for the purpose of the guide, as shown in the picture below:



No.	User Name	Level
1	admin	Administrator
2	itv	User
3	bartek	Operator
4	UNI_poradnik	User

Then, proceed to the **Video/Audio** tab. To ensure that your video is smooth from within the Ampio UNI application, you should apply the Sub-stream settings shown below:



The screenshot shows the Hikvision configuration web interface. The top navigation bar includes 'Live View' and 'Configuration' (highlighted in red). The left sidebar lists 'System', 'Network', 'Video/Audio' (highlighted in red), 'Image', 'Event', and 'Storage'. The main content area is titled 'Video' and 'ROI'. It contains several settings: 'Stream Type' (Sub-stream), 'Video Type' (Video Stream), 'Resolution' (640*360), 'Bitrate Type' (Variable), 'Video Quality' (Medium), 'Frame Rate' (20 fps), 'Max. Bitrate' (512 Kbps), 'Video Encoding' (MJPEG), and 'I Frame Interval' (50). A red 'Save' button is at the bottom of the settings area. The footer text reads '©2020 Hikvision Digital Technology Co., Ltd. All Rights Reserved.'

Save and close the browser.

You can access your http address at the following link:

`http://[login]:[password]@[camera's IP address]/ISAPI/streaming/channels/102/httpPreview`

To check whether the link works, you can open it in a browser window by completing the data.

Example:

`http://UNI_guide:difficultpassword123@111.222.33.444/ISAPI/streaming/channels/102/httpPreview`

where:

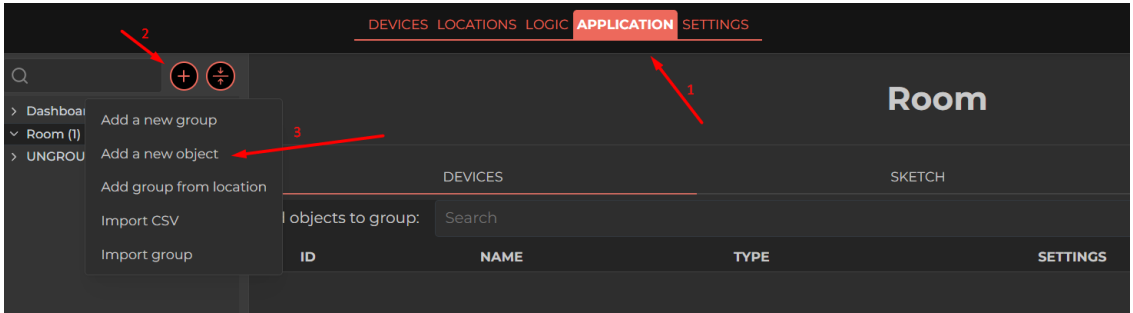
[login] - UNI_guide

[haslo] - difficultpassword123

[camera's IP address] - 111.222.33.444

Configuration in the Ampio Designer

Now go to Ampio Designer by entering the IP address of the server in your browser, then go to the **APPLICATION** tab, select the location in the application where you want to add the camera preview and create a new object by clicking *Add* and then *Add new object*.



Leave the server as the *Device* by default, name your object and choose *Camera* from the list as the object type. Then, depending on what the beginning of the link is, select mjpeg (for http://) or rtsp (for rtsp://) and confirm.

NEW OBJECT

Description

Camera

Group

Room

Object type

camera

Subtype

MJPEG camera

Add

After clicking *Add*, enter the previously created link in the URL field and click *Save*.

OBJECT SETTINGS IN A GROUP

GENERAL SETTINGS

Device

(M-SERV-s) M-SERV-s

Description

Camera

Icon OFF

Choose file

Icon ON

Choose file

Object type

camera

Subtype:

MJPEG camera

URL

http://login:password@111.222.33.444/ISAPI/Streaming/channels/102/htptPreview

Refresh time [ms]

0

Save image on flag activation

Flag to save image

M-SERV-s - M-SERV-s flag - 1

Proportion

30 / 10

ADVANCED SETTINGS

Once you have saved all the settings you have set up so far, choose which Ampio UNI users will have access to the object. In the case of this particular camera, regardless of the user, it is only possible to access one substream at a time. However, if there are multiple views possible at the same time, remember that you should only grant access rights to this object to

one user, and for each subsequent user, repeat the process with the object creation in Ampio Designer by pasting another http link with their camera login details.

To ensure smooth access to the building automation installation, a limit is placed on the number of simultaneous active connections to the installation via Ampio Cloud. A maximum of 6 users can connect remotely to the installation at the same time, of which a maximum of 3 profiles can be used to connect monitoring systems.

Let's see what the end result looks like in the Ampio UNI application:



Room

⋮ **Camera**

Refresh ⓘ

