

General ONVIF® and RTSP Registration

Introduction

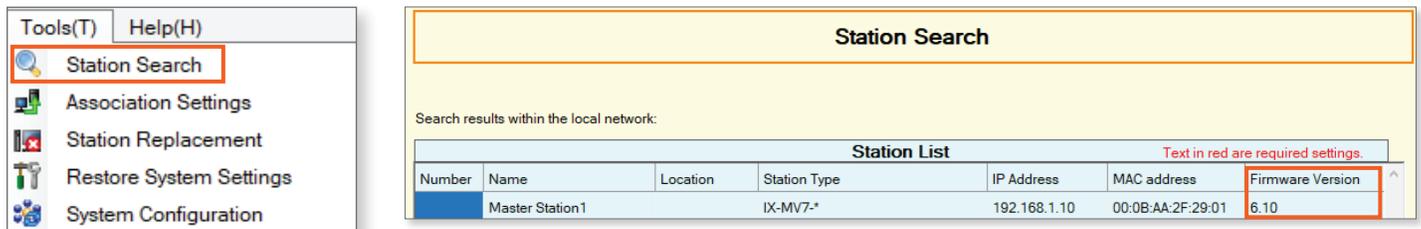
IX and IXG Series video door stations offer a secondary video stream that can be streamed to a compatible VMS using ONVIF® or RTSP. These steps are meant to be followed once the IX or IXG Series system has been generally configured. Refer to the IX or IXG Series QuickStart Guides for more information on system programming.

Required Software and Firmware Versions (*IX Support Tool*)

To stream the video properly, IX Support Tool and the door stations' firmware needs to meet these minimum requirements:

Station Firmware Version: 6.0 and above

IX Support Tool Version: 9.0 and above



The screenshot shows the IX Support Tool interface. On the left, the 'Tools(T)' menu is open, with 'Station Search' highlighted. On the right, the 'Station Search' window displays a table of search results within the local network. The table has the following data:

Number	Name	Location	Station Type	IP Address	MAC address	Firmware Version
	Master Station1		IX-MV7-*	192.168.1.10	00:0B:AA:2F:29:01	6.10

A red box highlights the 'Firmware Version' column header and the value '6.10'. A red note above the table states: 'Text in red are required settings.'

To confirm the version of IX Support Tool installed on the PC, navigate to **Help, About**.



The screenshot shows the IX Support Tool interface. On the left, the 'Help(H)' menu is open, with 'Update Firmware' highlighted. On the right, the 'Version Information' window displays the following information:

IX Support Tool Version 10.1.0.1

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If IX Support Tool needs to be updated, uninstall IX Support Tool from the programming PC and reinstall the software found at this link: <https://www.aiphone.com/IX-SupportTool>.

This will not delete any of the existing configuration files on the PC. If a custom Administrator ID and Password was set for IX Support Tool itself, that will be defaulted back to admin/admin.

Firmware updates for IX and IXG Stations can be downloaded here: <https://www.aiphone.com/kbtopic/firmware-ix-ixg>.

If the firmware on any of the IX Series stations is less than 5.0, the dedicated Firmware Upgrade Tool software will need to be used. That can be downloaded here: <https://www.aiphone.com/IX-FirmwareUpgradeTool>.

Here is a guide for using the dedicated tool: <https://www.aiphone.com/wp-content/uploads/Firmware-Update-Tool-Guide.pdf>.

If the firmware is above 5.0, the firmware can be updated directly through IX Support Tool by following this guide: <https://www.aiphone.com/wp-content/uploads/IX-Series-Updating-Firmware.pdf>.

Configuring Video Stream Credentials (IX Support Tool)

Next, the video door stations will need to have their video stream credentials updated. Navigate to **Station Information, ID and Password**. For each video station, enter credentials under ONVIF ID, ONVIF Password, RTSP ID, and RTSP Password. Master stations and other ineligible stations will have those fields greyed out.

Once everything is filled out, click **Update**.

Table View

Station View

- Station Information
- Identification
- ID and Password**
- Time
- Expanded System

Row Previous Next

Enter Number Display

Number of Notes: 3
1. Unique password recommended for each station.
 2. Set a strong password that is difficult to guess.

Station Information				Station Information								
Identification				ID and Password								
#	Number	Name	Location	Station Type	Administrator ID	Administrator Password	User ID	User Password	ONVIF ID	ONVIF Password	RTSP ID	RTSP Password
0001	0001	Master Station		IX-MV7-*	admin123	*****						
0002	0002	Video Station		IX-DV, IX-DVF(-*)	admin123	*****			aiphone	*****	aiphone	*****



i This example shows 'aiphone' as the credential. Any other credentials can be used instead.

Uploading Settings to Stations (IX Support Tool)

Navigate to **File, Upload Settings to Station**. Select all stations and click **Settings**.

File(F) Edit(E) Language(V) Tools(T) Help(H)

- Create New System
- Select Existing System
- Delete Existing System
- Update Settings
- Download Settings From Station
- Upload Settings To Station**
- Upload SSL Certificate
- Import Setting File
- IX Support Tool Export System Configuration
- Export to Line Supervision Software
- Exit

Station List

Select	Number	Name	Location	Station Type	Status
<input checked="" type="checkbox"/>	0001	Master Station		IX-MV7-*	-
<input checked="" type="checkbox"/>	0002	Video Station		IX-DV, IX-DVF(-*)	-

Select Station by Type:

All

Select file type to be uploaded

Required Software and Firmware Versions (IXG Support Tool)

The steps using IXG Support Tool are similar to those in IX. IX Series stations programmed using IXG Support Tool have the same firmware requirements and steps. IXG-DM7-HID entrance stations have additional required steps.

IXG-DM7-HID Firmware Version: 2.0 and above

IX Station Firmware Version: 6.0 and above

IXG Support Tool Version: 2.3 and above

If IXG Support Tool needs to be updated, the newest version can be downloaded here: <https://www.aiphone.com/IXG-SupportTool>. Uninstall and reinstall IXG Support Tool.

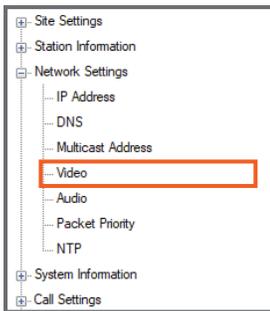
IX and IXG Stations can both have their firmware updated through IXG Support Tool. The steps will be the same as in the guide for IX Support Tool linked in the IX Support Tool section. If any IX Series stations are below firmware version 5.0, use the special utility and instructions linked earlier.

If **Maintenance**, [Firmware Update](#) link is not visible, set the **View** in IXG Support Tool to [Advanced](#).



Enabling IXG-DM7-HID Video Stream (IXG Support Tool)

IXG-DM7-HID panels do not have their video streams enabled by default. To do that, navigate to **Network Settings**, [Video](#). Scroll right to Video Encoder 2 and set Second Video Encoder to Enable. Click [Update](#).



Network Settings					
Video					
Video Encoder 1			Video Encoder 2		
Frame Rate [fps]	I picture interval [H.264/A]	Bit Rate [kbps] [H.264/AVC]	Second Video Encoder	Video Codec	Resolution
15	15	1024	Enable	H.264/AVC	1280x720(HD)

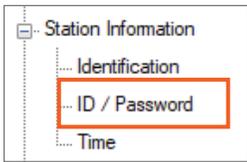
The table shows the configuration for Video Encoder 2. The 'Second Video Encoder' dropdown menu is open, showing 'Enable' (highlighted in blue) and 'Disable' options. A red rectangular box highlights the 'Second Video Encoder' column and its dropdown menu.



Configuring Video Stream Credentials (IXG Support Tool)

Next, the video door stations will need to have their video stream credentials updated. Navigate to **Station Information**, **ID / Password**. For each video station, enter credentials under ONVIF ID, ONVIF Password, RTSP ID, and RTSP Password. Master stations and other ineligible stations will have those fields greyed out.

Once everything is filled out, click **Update**.

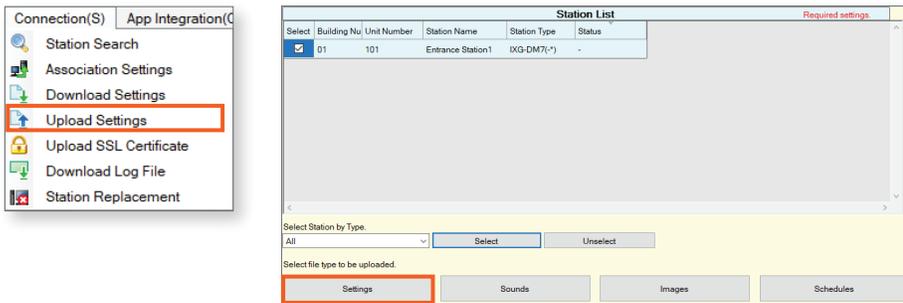


Building Nu	Unit Number	Station Name	ID(Administrator)	Password(Admin)	ONVIF ID	ONVIF Password	RTSP ID	RTSP Password
01	001	Entrance Station1	aiphone	*****	aiphone	*****	aiphone	*****
01	002	Entrance Station1	aiphone	*****	aiphone	*****	aiphone	*****



Uploading Settings to Stations (IXG Support Tool)

Navigate to **Connection(S)**, **Upload Settings**. Select all stations and click **Settings**.



Streaming Links For VMS

Once the IX and IXG Series stations have been configured, certain information will need to be entered into the VMS client for the stations' video streams to appear. Since each VMS interface will be different, it may vary which of the following credentials and links need to be entered, or where it is entered.

Each station's ONVIF and RTSP credentials will need to be entered in the appropriate place.

Some VMS clients will need the streaming URL entered. For each door station or entrance station, the streaming URL takes the following formats, depending on if H264 or JPEG streaming is used:

rtsp://aiphone:aiphone@[station ip address]/udp/unicast/aiphone_H264
rtsp://aiphone:aiphone@[station ip address]/udp/unicast/aiphone_JPEG

If the video stream is not showing up properly in the VMS client, try entering the stream URL and credentials in a third-party program, such as VLC Player.