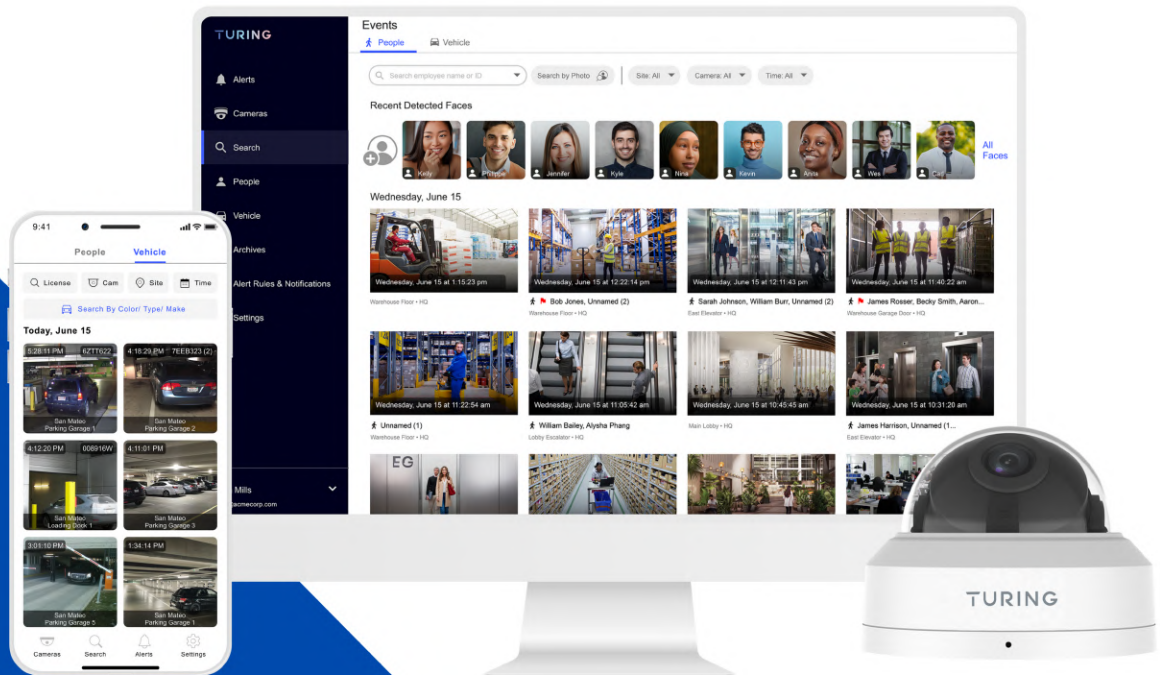
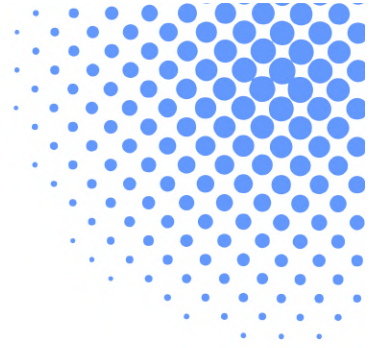


TURING



Turing Vision

Scenario 2

USING BOTH HIKVISION AND TURING PLUG-AND-PLAY NVRS

Adding Hikvision Cameras to Turing Vision:

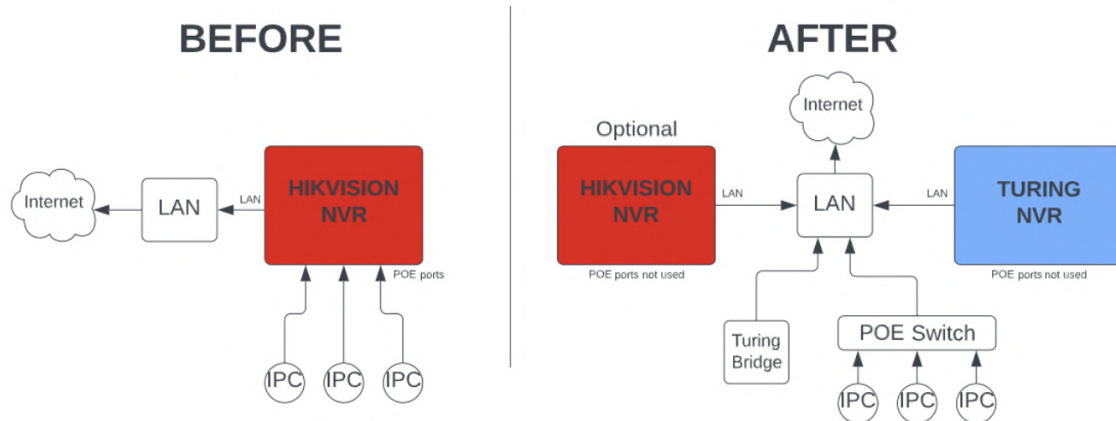
Using both Hikvision and Turing Plug-and-Play NVRs

- *Scenario 2: Install a Turing PoE NVR at a job site where Hikvision cameras are connected to a Hikvision PoE NVR and keep both NVRs active.*
 - 1. Connect all cameras to POE switch
 - 2. Download Hikvision's Batch Configuration Tool
 - 3. Edit Camera's IP Address
 - 4. Enable ONVIF & Hikvision-CGI
 - 5. Verify/Modify Camera's Encoding Settings
 - 6. Enable Intrusion/Motion Detection
 - 7. Add Camera to Turing NVR
 - 8. Enable NTP Server on Turing NVR
 - 9. Enable Intrusion on Turing NVR
 - 10. Add Cameras to Hikvision NVR
 - Installation Video

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Scenario 2: Install a Turing PoE NVR at a job site where Hikvision cameras are connected to a Hikvision PoE NVR and keep both NVRs active.

[-] For this scenario, customer would need an additional POE switch to power cameras



1. Connect all cameras to POE switch

- Connect the cameras to the POE ports on the switch
- Connect the switch to your network

2. Download Hikvision's Batch Configuration Tool

<https://us.hikvision.com/en/support-resources/downloads/tools>

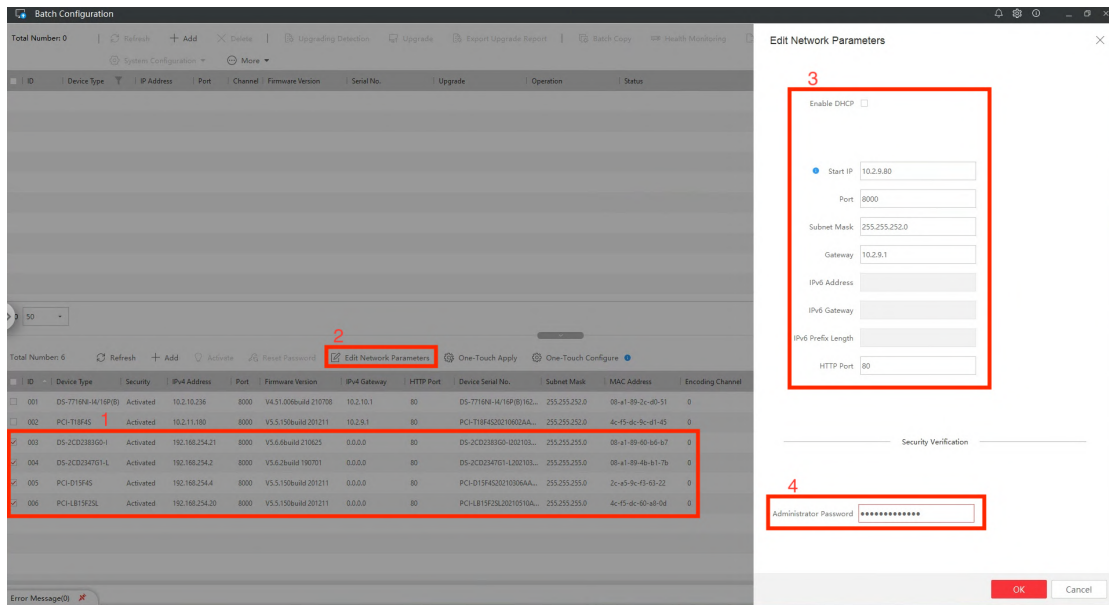
i Windows version is needed for this setup. The MAC version of this tool does not offer all needed features for camera configuration.

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3. Edit Camera's IP Address

 If your camera(s) already have an IP address under your LAN, you can skip this step

- Select your cameras
- Click on **Edit Network Parameters**
- Edit camera's network settings, either Enable DHCP or setting a static IP
- Enter camera's password and click OK to save



The screenshot displays the 'Batch Configuration' window. On the right, the 'Edit Network Parameters' dialog is open. It contains the following fields:

- Enable DHCP:** A checkbox that is currently unchecked.
- Start IP:** A text field containing '10.2.8.80'.
- Port:** A text field containing '8000'.
- Subnet Mask:** A text field containing '255.255.252.0'.
- Gateway:** A text field containing '10.2.8.1'.
- IPv6 Address:** An empty text field.
- IPv6 Gateway:** An empty text field.
- IPv6 Prefix Length:** An empty text field.
- HTTP Port:** A text field containing '80'.
- Security Verification:** A section with two empty input fields.
- Administrator Password:** A text field containing a masked password (represented by asterisks).

At the bottom of the dialog are 'OK' and 'Cancel' buttons. In the background, a table lists camera configurations. The table has columns: ID, Device Type, Security, IP Address, Port, Firmware Version, IPv4 Gateway, HTTP Port, Device Serial No., Subnet Mask, MAC Address, and Encoding Channel. Several rows are visible, with some highlighted in red.

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4. Enable ONVIF & Hikvision-CGI

- Select your cameras and click **Add**. Enter your camera's password and click **OK** to add.
 - Your cameras should now be displayed on the upper half of the screen
- On the upper half of your screen, select your cameras.
- Click on **More > Configure Network Protocol > ONVIF**

The screenshot shows the 'Batch Configuration' window in the Turing AI interface. The window has a top bar with various icons and a search filter. Below the bar, there is a table of cameras. The table has columns for ID, Device Type, IP Address, Port, and Firmware Version. A dropdown menu is open for the 'Configure Network Protocol' column, showing options for 'UPnP', 'CGI', 'ONVIF', and 'Set via ISAPI'. The 'ONVIF' option is selected. Below the table, there is a section for 'Error Message'.

ID	Device Type	IP Address	Port	Firmware Version
000001	PCI-D15F45	10.2.0.82	8000	V5.1.190 build 201211
000002	PCI-L819F2SL	10.2.0.81	8000	V5.6.2 build 190701
000003	DS-2CD234701-L	10.2.0.81	8000	V5.6.2 build 190701
000004	DS-2CD238300-L	10.2.0.80	8000	V5.6.4 build 210625

Below the table, there is a section for 'Error Message'.

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- Select **Enable ONVIF** and **Add User**
- Change the **User Type** to **Administrator**
- Create a new user name and password for ONVIF users.

ONVIF Configuration

1 ☒ Enable ONVIF
☒ Add User

2 User Type: ☐ Media User ☐ Operator ☒ Administrator

3 User Name: admin
 New Password:
 Confirm Password:

OK Cancel

- Click on **More > Configure Network Protocol > CGI**
- Select **Enable CGI** and set **CGI Type** to digest. Click **OK** to Save

CGI

1 ☒ Enable CGI

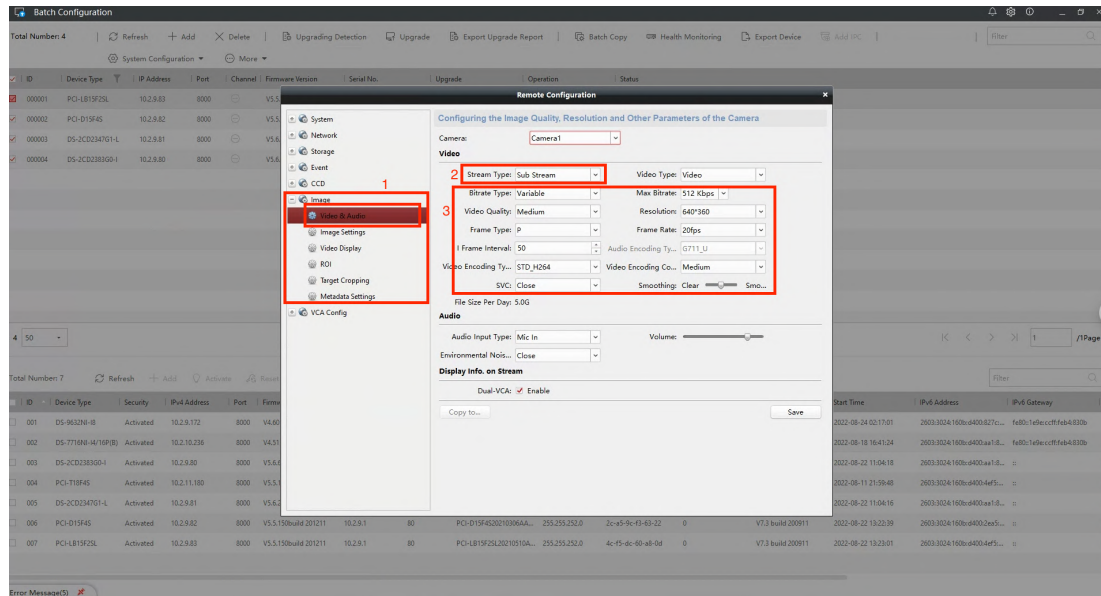
2 CGI Type: ☒ digest ☐ digest/basic

OK Cancel

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5. Verify/Modify Camera's Encoding Settings

- Click the Gear icon next to the camera
- Go to **Image > Video & Audio**
- Edit **Main Stream** and **Sub Stream** settings as shown below



	Main Stream	Sub Stream
Video Compression	H.264	H.264
Resolution	Less than 3MP (2MP is recommended)	1280x720 (720P)
Bitrate Type	CBR	CBR
Bit Rate	Less than or equal to 2048	Less than or equal to 768
Frame Rate	15	15
Frame Interval	30	30

! Make sure to **disable H.264+** if available

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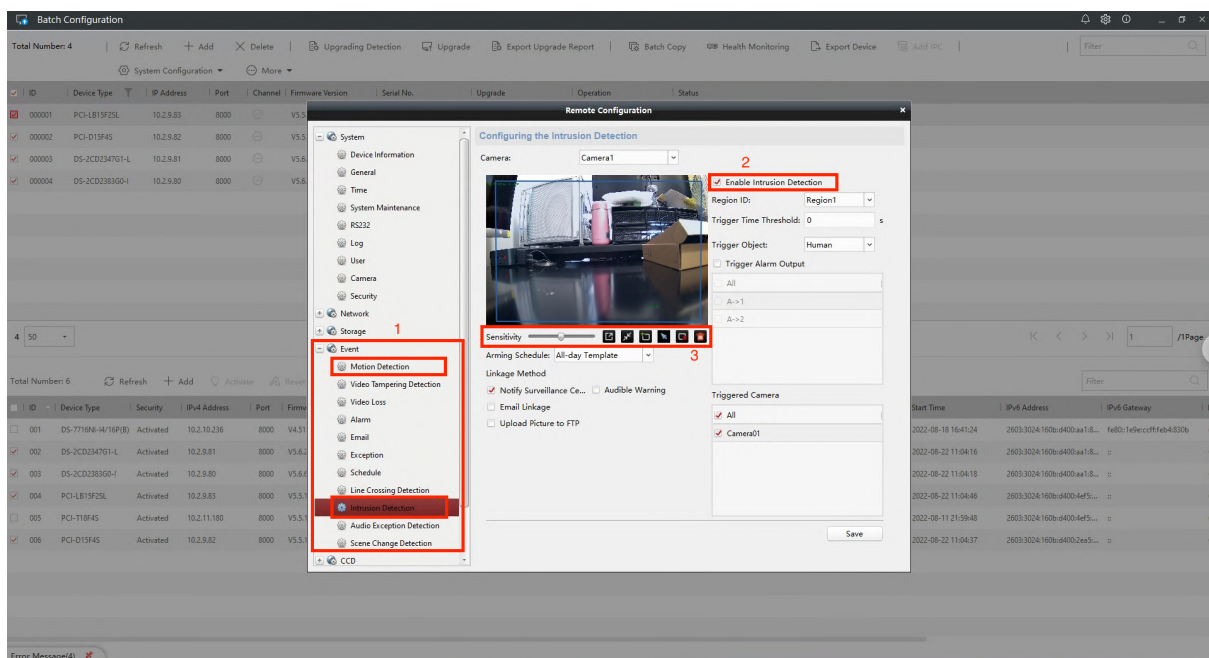
6. Enable Intrusion/Motion Detection

Intrusion Detection is recommended for higher accuracy. If your camera(s) does not offer Intrusion, you can use **Motion Detection**.

- Select the Gear icon next to camera

ID	Device Type	IP Address	Port	Channel	Firmware Version	Serial No.	Upgrade	Operation	Status
000001	PCI-LB15F2SL	10.2.9.83	8000		V5.5.150 build 201211	PCI-LB15F2SL20210510A...	Unknown		Configured.
000002	PCI-D15F4S	10.2.9.82	8000		V5.5.150 build 201211	PCI-D15F4S20210306AA...	Unknown		Configured.
000003	DS-2CD2347G1-L	10.2.9.81	8000		V5.6.2 build 190701	DS-2CD2347G1-L202103...	Unknown		Configured.
000004	DS-2CD2383G0-I	10.2.9.80	8000		V5.6.6 build 210625	DS-2CD2383G0-I202103...	Unknown		Configured.

- Go to **Event > Intrusion Detection** or **Event > Motion Detection**
- Enable Detection, and draw detection zone. Click **Save**



The screenshot shows the 'Batch Configuration' window with a 'Remote Configuration' dialog open. The dialog is titled 'Configuring the Intrusion Detection' and shows a camera feed. The 'Enable Intrusion Detection' checkbox is checked (labeled '2'). The 'Region ID' is set to 'Region1'. The 'Trigger Time Threshold' is 0. The 'Trigger Object' is set to 'Human'. The 'Trigger Alarm Output' is set to 'All'. The 'Sensitivity' is set to 'High' (labeled '3'). The 'Arming Schedule' is set to 'All-day Template'. The 'Linkage Method' is set to 'Notify Surveillance Ce...'. The 'Triggered Camera' is set to 'Camera01'. The 'Event' menu is open (labeled '1'), showing 'Motion Detection' and 'Intrusion Detection' options. The 'Intrusion Detection' option is selected.

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7. Add Camera to Turing NVR

- Access Turing Smart NVR web UI
- Go to Setup > Camera > Camera
- Select your camera and click **Modify** button
- Change **Add Mode** to IP Address and enter your camera's IP address
- Modify **Username** and **Password**, using the login credentials made for ONVIF protocol
- Click **Save** button
- **Power cycle the camera which may take a few minutes**
- Click on Refresh button to make sure your camera is highlighted green

8. Enable NTP Server on Turing NVR

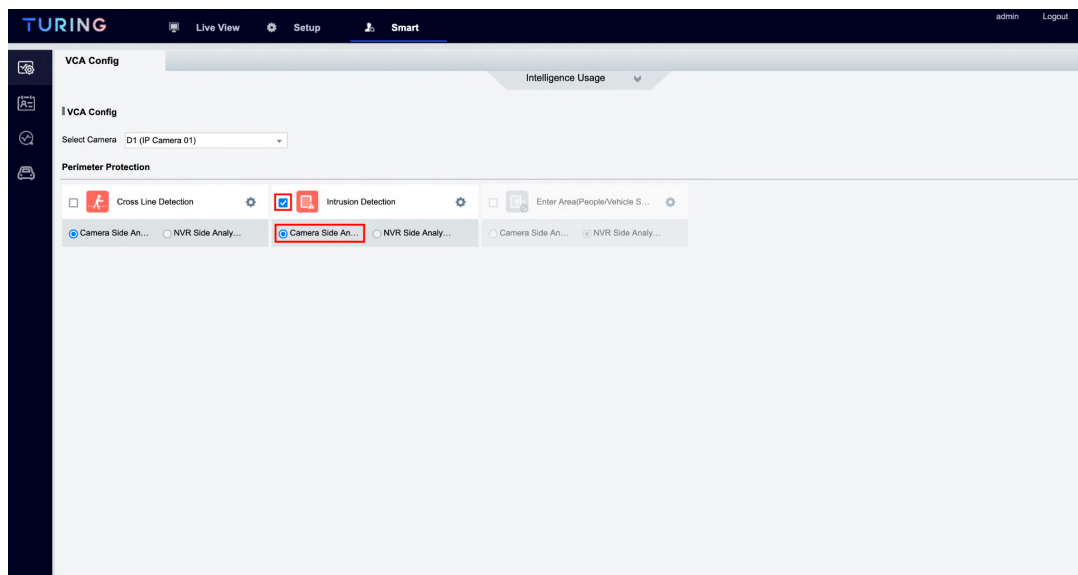
- GO to Setup > System > Time
- Select ON for Auto Update
- Set NTP Server Address to time.nist.gov and Save

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9. Enable Intrusion on Turing NVR

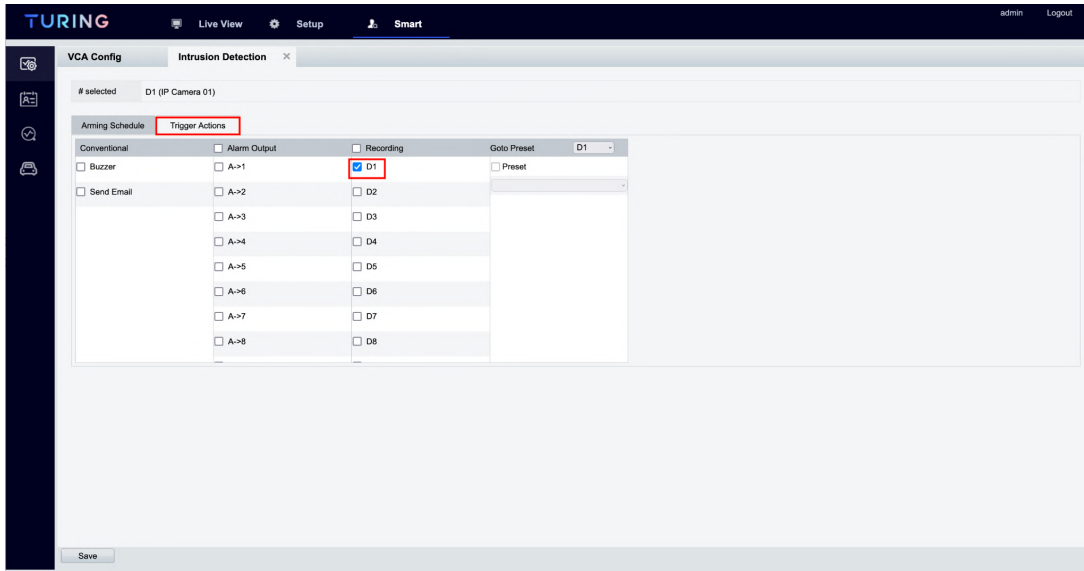
i Only applies if using NVR version 220811 or newer

- Go to Smart tab and select your camera from the dropdown menu
- Click the checkbox on Intrusion Detection to enable it and make sure **Camera Side Analytics** is enabled, if not already



- Click on the **Gear** Icon, go to **Trigger Actions** and enable recording for your camera

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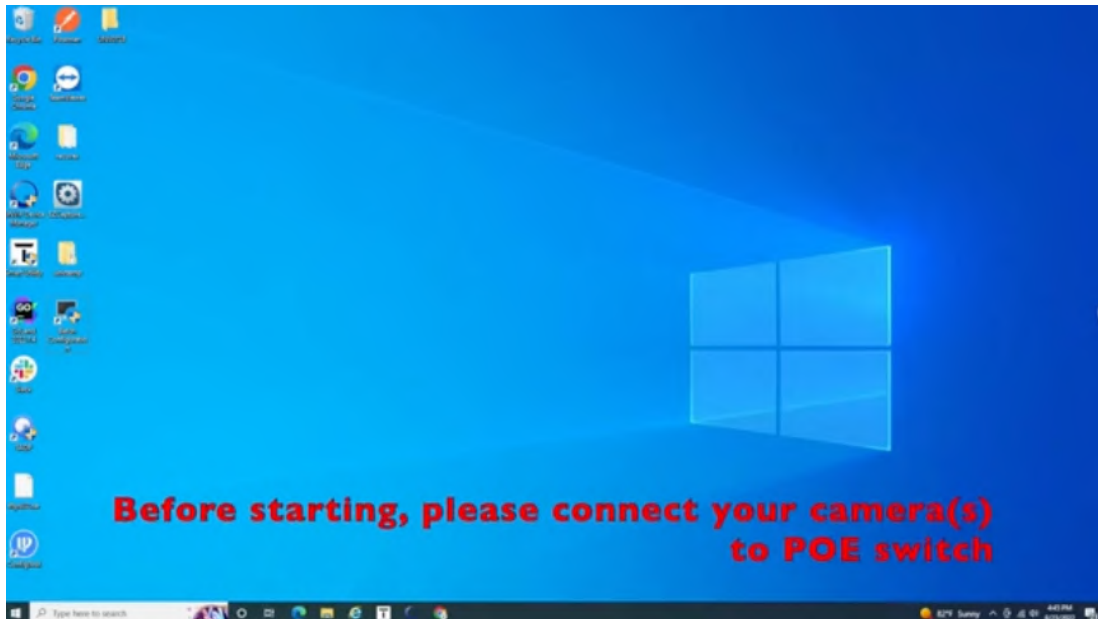


10. Add Cameras to Hikvision NVR

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11. Installation Video

[Click here to watch the installation video](#)



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A background image showing a close-up of two business people shaking hands. The person on the left is wearing a dark suit and a striped tie. The person on the right is wearing a dark suit. They are shaking hands over a desk with some papers and a pen. The image is partially covered by a large blue diagonal shape on the left side.

TURING

HIKVISION

LEGACY CAMERA

INTEGRATION GUIDE

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sales@turingvideo.com