

VIRTUAL KEYPAD™ DRIVER - AXIS®

Installation Guide

This product allows Axis® cameras to be viewed in the mobile and browser versions of Virtual Keypad™. This process is completed on a per camera basis. The driver file is only downloaded once, then the Dealer Admin account is charged a recurring monthly fee for each camera that is activated in Device Setup. To install the driver, follow the steps below.

 **Note:** This driver is only supported on cameras with AXIS OS 11.8 to 11.11 and System-on-Chip (SoC) options listed in *Table 1* in [Step 3: Identify Camera SOC](#).

REQUIRED FOR INSTALLATION

To install the driver, confirm that you have access to the following:

- An active Dealer Admin account at dealer.securecomwireless.com to enable the Axis Virtual Keypad Driver.
- The Serial Number/MAC Address of the camera (available on the box or on the camera).
- The Axis IP Utility application (Windows only) or another MAC scanner application (multiple available online).

As you complete the installation, it is recommended to write down relevant camera and panel information in the fields below to reference as you program in different applications.

Camera Serial Number/MAC Address: _____

Camera IP Address: _____

Camera Firmware: _____

STEP 1: LOG IN AND SET UP CAMERA

1. Install the Axis® camera and connect it to the network.
2. Locate the camera **Serial Number** on the box or on the camera.
3. Using the **Axis IP Utility** (Windows only) or another MAC scanner application, enter in the network connected camera's **Serial Number** in the MAC Address field to find the camera's IP Address.
4. Enter the camera's **IP Address** into the browser URL field to access the camera's web UI.
5. Create a new username and password for your device or enter the username and password you set previously.
 - To update your password, navigate to **System > Accounts**. In **Accounts**, select the more icon and select **Update Account**.
6. Navigate to **Maintenance** in the left-hand menu.
7. In **AXIS OS upgrade**, locate the **Current Version** firmware and write it next to **Camera Firmware** above.
 - If the camera is using AXIS OS 11.12 or above, return to a compatible firmware (11.8-11.11) in **AXIS OS rollback**. To roll back to the previously installed firmware version, select **Roll back**. A pop-up appears asking if you want to roll back to the previously installed version. Confirm you want to **Roll back**.
8. Navigate to **Video** in the left-hand menu, then select **Stream**.
9. DMP recommends the following settings to optimize clip storage in the cloud:
 - Frame Rate: 15
 - P-Frames: 15
 - Compression: 20
 - Zipstream: Medium
 - Optimize for Storage: On
 - Dynamic FPS: Off
 - Bitrate Control: Variable

STEP 2: CONFIGURE CAMERA ANALYTICS

1. Navigate to **Analytics** in the left-hand menu, then select **AXIS Object Analytics**.
2. In **AXIS Object Analytics**, select **Start** the first time you interact with the application. In future interactions, select **Open**. A new tab will open.
3. Select **New Scenario**.
4. Select what you want the scenario to do. To learn more about the Axis analytic options, visit the following link: <https://www.axis.com/en-us/products/axis-object-analytics>
5. Select **Next**.
6. Select all object types you would like to detect. All objects set for detection can receive events and push notifications in Virtual Keypad. To set up push notifications in Virtual Keypad, see [Step 5: Enable Push Notifications in Virtual Keypad](#).
7. Select **Next**.
8. Rename the scenario by selecting the pencil icon at the top.
9. Configure the scenario.
10. Select **Finish**. Repeat the process for every new scenario.

STEP 3: IDENTIFY CAMERA SOC

This driver is supported on cameras with AXIS OS 11.8 to 11.11 and System-on-Chip (SoC) options listed in the table below.

1. Navigate to the **Axis® Product Selector Tool** using this link: <https://www.axis.com/support/tools/product-selector>
2. In **Products**, enter the camera model name in the search bar.
3. Select the name of the camera from the options that display. A spec page opens for the camera.
4. In **Hardware Platform**, locate **Model**. Find the **System-on-Chip (SoC)**.
5. Using the SoC, identify the corresponding **Architecture** in *Table 1*.

 **Note:** The camera architecture is what determines which file should be downloaded from Dealer Admin in [Step 4: Download the Driver File](#).

SYSTEM-ON-CHIP (SOC)	ARCHITECTURE
ARTPECT-6	armv7hf
ARTPECT-7	armv7hf
ARTPECT-8	aarch64
ARTPECT-9	aarch64
CV25	aarch64
i.MX 6SoloX	armv7hf

Table 1: Axis Camera SoC and Architecture

STEP 4: DOWNLOAD THE DRIVER FILE

1. Log in to **Dealer Admin** (dealer.securecomwireless.com).
2. Select **Resources** in the left-hand menu.
3. In the drop-down, select **Downloads**.
4. Locate the file named **Virtual Keypad Driver** that corresponds with your camera's Architecture.
5. Select **Download**. The file downloads to your computer or browser.

STEP 5: INSTALL THE VIRTUAL KEYPAD™ DRIVER

 **Note:** Ensure that your camera is set to the accurate date and time for your location.

1. Return to the camera's web UI.
 2. Locate **Apps** in the left-hand menu.
 3. Toggle **Allow root-privileged apps ON**.
 4. Select **Add App**. The **Install an app** pop-up appears.
 5. Select the box in the pop-up and locate the **Virtual Keypad™ Driver** file. Double click the file to select it, or drag the file into the pop-up.
 6. Select **Install**.
 7. After installation is complete, locate the newly installed driver and toggle it **ON**.
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STEP 6: SET UP CAMERA IN DEALER ADMIN

1. Log in to **Dealer Admin** (dealer.securecomwireless.com).
2. Go to **Customers**.
3. Navigate to the system the camera is going to be associated with.
4. Select **Edit**.
5. In **Additional Features**, select **Cameras & NVR**.
6. In the **Number of Cameras** dropdown, select the maximum number of cameras you want to stream. Options include 8, 12, or 16.
7. Select **Save**.
8. In **Video**, select **+ Camera**.
9. Select **Hardwired**.
10. Put in the camera **Serial Number**, which can be found on the box or on the camera.
11. Select **Submit**.

The camera appears in **Video**, with an Axis® model number. When the camera is selected, the **Camera Settings** open and you can view the **Camera Details**. To make this camera available for Video Verification, enable **Monitoring Center Video Verification** in **System Information > Additional Feature**.

 **Note:** Some additional camera options can be configured in the camera web UI, which is accessible using the camera IP address.

STEP 7: ENABLE PUSH NOTIFICATIONS IN VIRTUAL KEYPAD

1. Open the **Virtual Keypad** app and enter your user code.
2. Select the **More** icon, then select **Settings**.
3. Go to **Push Notifications**, then select **Cameras**.
4. Push Notifications are enabled by default. Toggle **Push Notifications** OFF to disable push notifications.
5. If **Push Notifications** are enabled, select the toggle for any of the following camera detections you want to be notified for: Person, Animal, Vehicle, or Object.