

PTZOptics Superjoy and Axis M3064-V

How To Connect for Video and Control
Purposes

Connect Both Devices to the Same Network

- Both devices are set to DHCP by default so they should gain an address from your DHCP server.
- The Superjoy will display its address on the screen under the heading “local IP”.
- In order to get the Axis camera’s IP address you will need the Axis IP Utility found in the link [HERE](#)
- Once this utility is installed you will be able to scan for the camera’s IP address based on the camera's serial number. For more information go to the article [HERE](#).

Setting up the Axis Camera

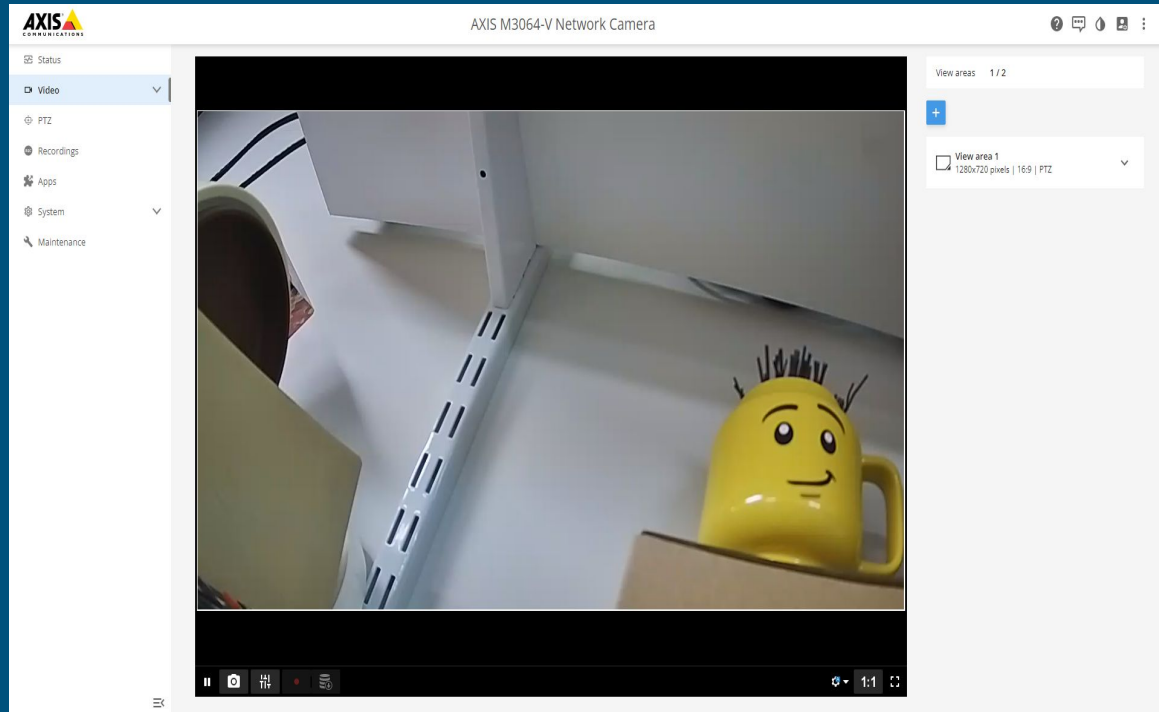
- The Axis user manual should go over how to set up the camera which is found [HERE](#).
- The first step is to set up a user account and a password. The default ADMIN user account for this camera is “root”
- Once you are set up with admin credentials log into the cameras web UI through a web browser (AXIS suggests using Google Chrome).

Updating Firmware

- You will want to ensure that the firmware for both the camera and the joystick are up to date.
- The joysticks firmware can be found [HERE](#) as well as installation instructions.
- The camera firmware can be found through the cameras web UI by going to 'Maintenance' then 'Firmware Upgrade' and pressing upgrade. *It is critical that you are running the latest firmware.*

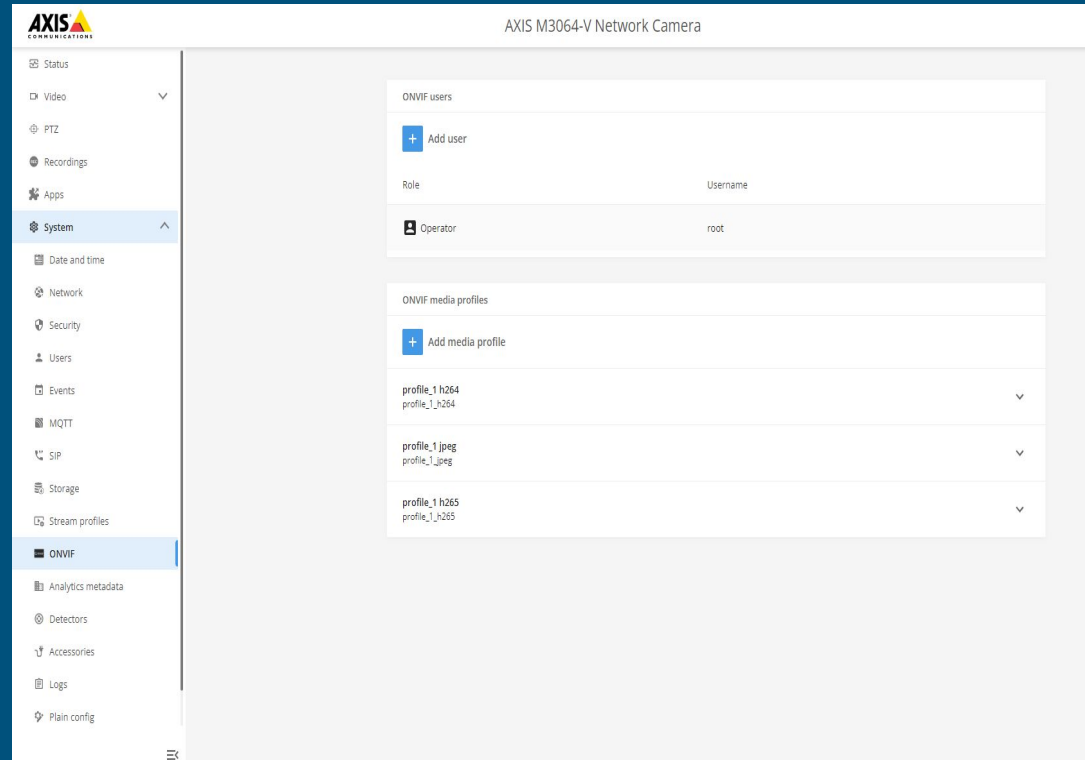
Setup on the Camera Side Step 1

- Log into the Axis user interface and go to “View Area” under the Video section
- Hit the plus sign in the ‘View’ area to add a viewing window.
- Make sure the view area is set to 16:9 and that PTZ is turned on.
- Please refer to the screenshot on the right for location confirmation.



Setup on the Camera Side Step 2

- Go to 'System' then to "ONVIF" (located under the dropdown menu) and select 'Add User'.
- The username should automatically be set to "root" *Make sure to take note of this for the joystick set up portion.*
- Set the password. This can be the same password as the camera or something different. *Make sure to note it down as you will use it in the joystick set up, I used "admin" for this test.*
- Make sure to save before proceeding to the next step.



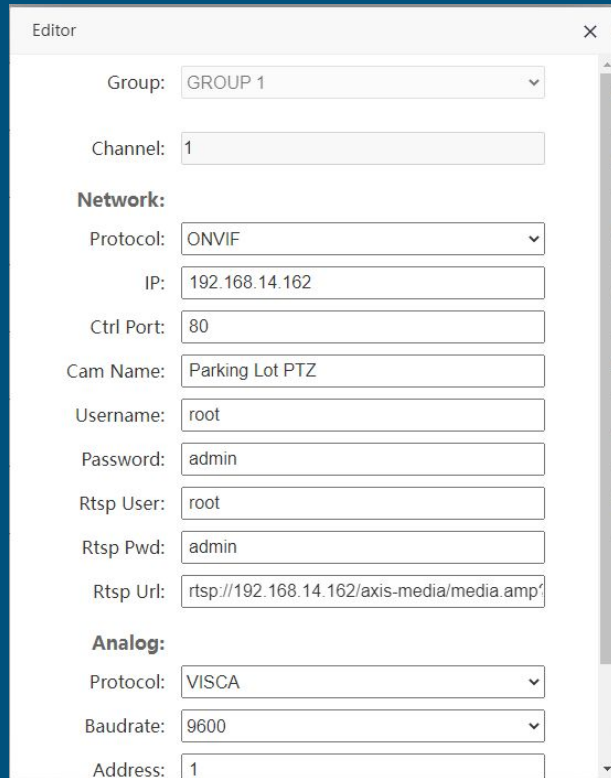
Setup on the Camera Step 3

- Go to “System” then “Plan Config” and change the drop down to “PTZ”.
- Make sure that ‘Allow Anonymous PTZ Operators’ is set to Password.
- Then scroll down to “PTZ / Image Source / IO” and make sure that “PTZ enabled is checked.
- *Make sure to save these changes.*
- Refer to the picture on the right for reference.

The screenshot displays the web interface for an AXIS M3064-V Network Camera. On the left is a navigation menu with the following items: Video, PTZ, Recordings, Apps, System (highlighted), Date and time, Network, Security, Users, Events, MQTT, SIP, Storage, Stream profiles, ONVIF, Analytics metadata, Detectors, Accessories, Logs, Plain config (highlighted), and Maintenance. The main content area is titled 'AXIS M3064-V Network Camera' and shows the 'Plain config' settings. A warning states: 'Plain config is for expert users only. Only change the settings if you know what you're doing.' There are two radio buttons: 'Choose' (selected) and 'Search'. Next to 'Search' is a dropdown menu currently set to 'PTZ'. Below this, a note says: 'To see the effect of your changes, you might have to refresh the webpage or restart the device.' The settings are organized into sections: 'Cam2 Port' with a value of '2'; 'PTZ / ImageSource / IO' with a checked 'PTZ enabled' box; 'PTZ / Preset / P0' with 'Home position' set to '1' (range -1..20) and 'Image source' set to '0'; and 'PTZ / UserCdQueue / U4' with 'Priority' set to '40' (range 1..100), 'Timeout time' set to '60' (range 1..3600), and 'Timeout type' set to 'infinite'. At the bottom right are 'Cancel' and 'Save' buttons.

Setup on the Joystick Side

- Log into the cameras web UI by taking the camera local IP and putting it into a web browser. By default the username is admin and there is no password.
- Once logged in go to group 1 and camera 1 and hit 'Modify'.
- Set the protocol to ONVIF
- *For this example the cameras IP address is 192.168.14.162*
- The axis cameras use port 80
- Enter the cam name as what you'd like the camera to show up as on the joystick screen
- The first set of username and passwords are the ones from the operator that were set in the previous slide.
- The RTSP username and password are the username and password you use to log into the camera. In this example both sets are set to username: root password: admin
- The RTSP URL is :
rtsp://192.168.14.162/axis-media/media.amp?videocodec=h264 (please note the IP address 192.168.14.162 is just for this example).
- Once all the information is set make sure to save.
- The image to the right should show the setup on the camera side.



The screenshot shows a web-based configuration interface titled 'Editor'. It contains several fields for setting up a camera. The 'Group' is set to 'GROUP 1' and 'Channel' is '1'. Under the 'Network:' section, 'Protocol' is 'ONVIF', 'IP' is '192.168.14.162', 'Ctrl Port' is '80', 'Cam Name' is 'Parking Lot PTZ', 'Username' is 'root', 'Password' is 'admin', 'Rtsp User' is 'root', 'Rtsp Pwd' is 'admin', and 'Rtsp Url' is 'rtsp://192.168.14.162/axis-media/media.amp'. Under the 'Analog:' section, 'Protocol' is 'VISCA', 'Baudrate' is '9600', and 'Address' is '1'.

Group:	GROUP 1
Channel:	1
Network:	
Protocol:	ONVIF
IP:	192.168.14.162
Ctrl Port:	80
Cam Name:	Parking Lot PTZ
Username:	root
Password:	admin
Rtsp User:	root
Rtsp Pwd:	admin
Rtsp Url:	rtsp://192.168.14.162/axis-media/media.amp
Analog:	
Protocol:	VISCA
Baudrate:	9600
Address:	1

Controlling the Camera

- Make sure that the HDMI is connected from the joystick to a monitor to view video
- At this point you should be able to select CAM 1 on the joystick and press the HDMI output button to have control over the camera and view the video.
- Please let us know if you have any issues with this process.

Resources

- PTZOptics firmware: <https://ptzoptics.com/latest-firmware-files/>
- Superjoy manual: <https://f.hubspotusercontent20.net/hubfs/418770/PTZOptics%20Documentation/PT-SUPERJOY-G1/PT-SUPERJOY-G1%20User%20Manual.pdf>
- Axis manual: <https://help.axis.com/axis-m3064-v#about-this-manual>
- Axis IP tools: <https://www.axis.com/support/tools/axis-ip-utility>
- please contact support if you are having any issues with this process
 - Support can be reached Monday through Thursday 8AM-6PM EST, Friday 8AM to 4PM EST.
 - Call 484-593-2584
 - Submit a ticket here: <https://help.ptzoptics.com/support/login>
 - Email: support@ptzoptics.com