



Configuration guide

Mechanical PTZ configuration on the AXIS P135X cameras

This document shows how to configure AXIS P135X cameras to control primarily a PT head and optionally a zoom lens.

1 Configuration steps

Follow the below configuration steps after connecting the PT head to RS-485/RS-422 serial port of the camera. Connection schemes are available for particular PT head on driver support pages. General pin assignment is as follows:

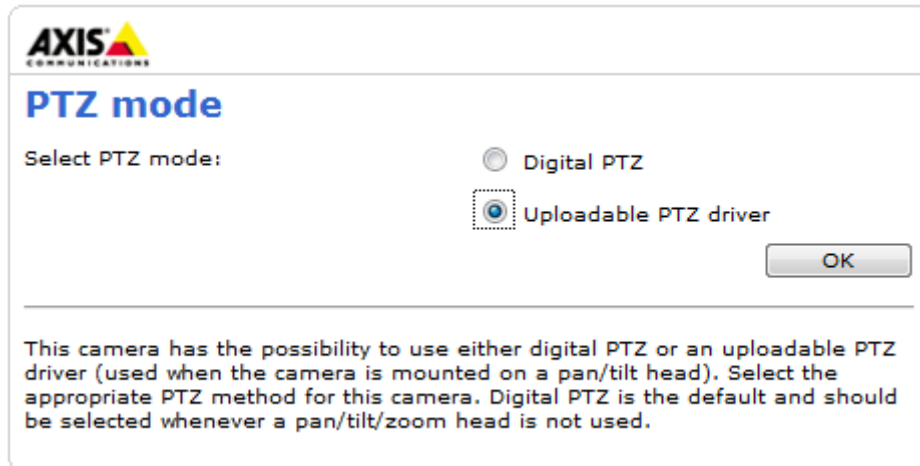


Function	Pin	Notes
RS-485/RS-422 Tx (A)	1 (Tx+)	Tx pair for RS422 and 4-wire RS-485
RS-485/RS-422 Tx (B)	2 (Tx-)	
RS-485A alt. RS-485/RS-422 Rx (A)	3 (Rx+/Tx+ alt Rx+).	Rx pair for all modes (combined Rx/Tx for 2-wire RS-485)
RS-485B alt. RS-485/RS-422 Rx (B)	4 (Rx-/Tx- alt. Rx-)	

Configure the camera as shown in the steps below:

1.1 Step 1 – Select Uploadable PTZ Driver option

In one of the initial menus after configuring the camera's password you will need to select **Uploadable PTZ driver** option.



If product is already configured to use Digital PTZ option which is preselected you will need to factory default the camera under Setup > System Options > Maintenance, selection Default and configure the product from the beginning.

1.2 Download driver from axis.com

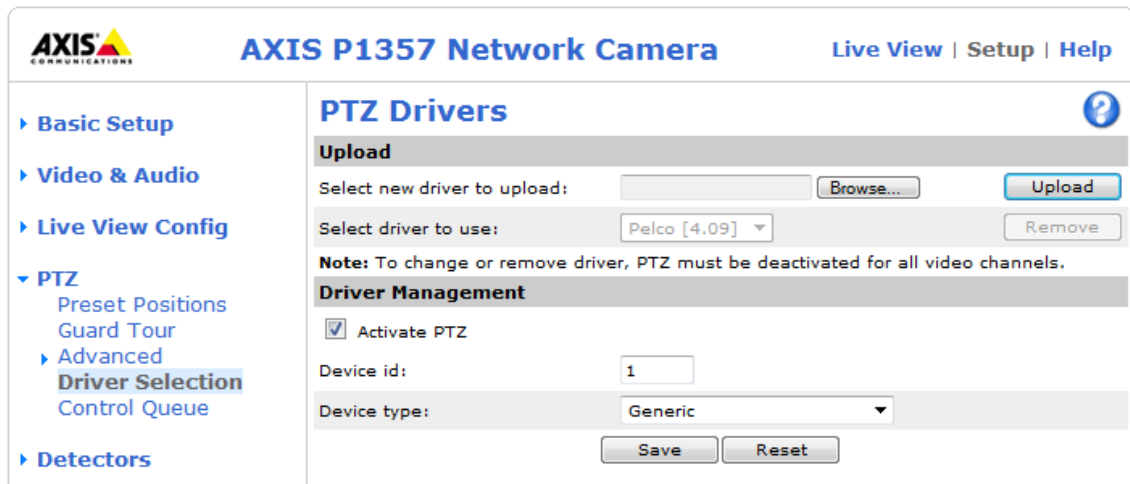
Select your product on the [Support pages](#) and go to PTZ driver, see connection schemes and download the driver from there.



For availability of other drivers than those on site, contact Axis Support via Online helpdesk.

1.3 Upload the driver

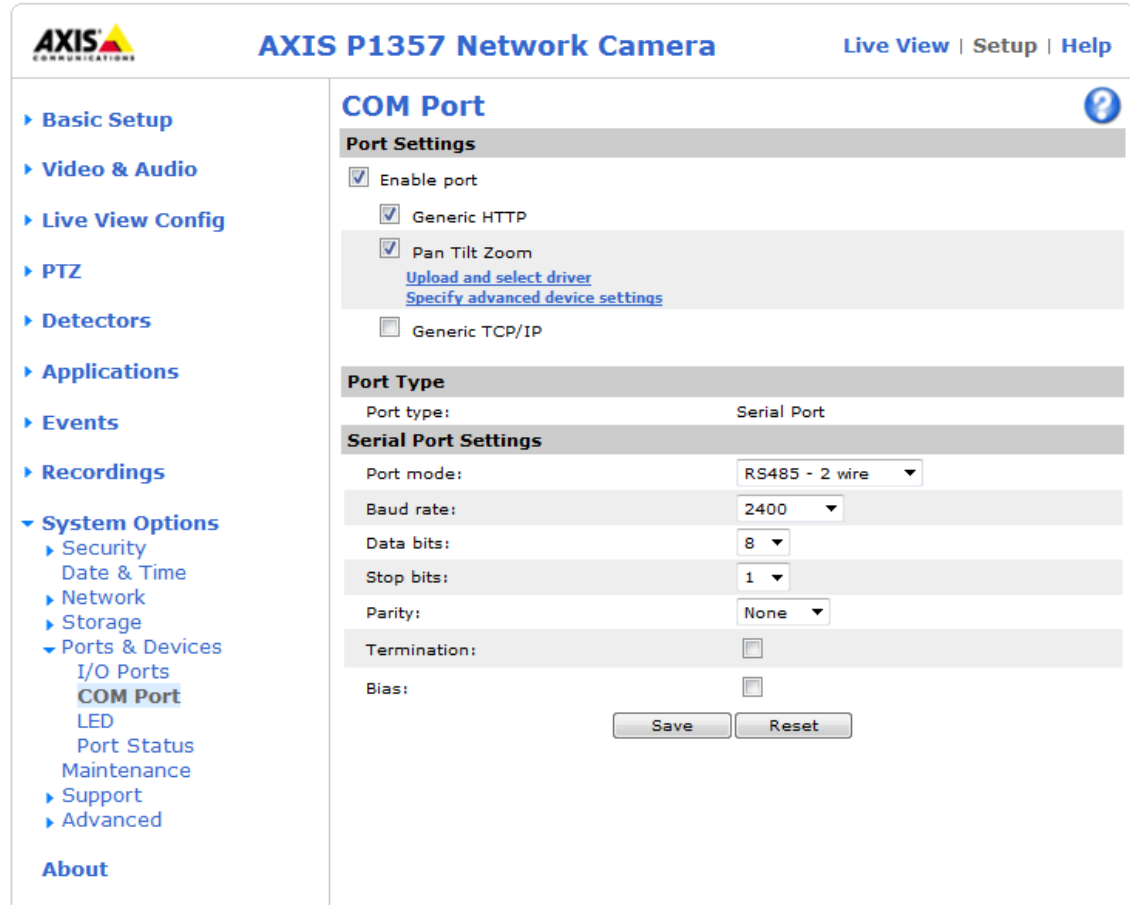
Upload the PTZ driver and Activate PTZ.



The screenshot shows the 'PTZ Drivers' configuration page for an AXIS P1357 Network Camera. The left sidebar contains a navigation menu with options: Basic Setup, Video & Audio, Live View Config, PTZ (selected), Detectors, Applications, Events, Recordings, System Options, and About. Under 'PTZ', there are sub-options: Preset Positions, Guard Tour, Advanced, Driver Selection (highlighted), and Control Queue. The main content area is titled 'PTZ Drivers' and includes an 'Upload' section with a 'Select new driver to upload' field and a 'Browse...' button. Below this is a 'Select driver to use' dropdown menu showing 'Pelco [4.09]' and a 'Remove' button. A note states: 'Note: To change or remove driver, PTZ must be deactivated for all video channels.' The 'Driver Management' section has a checked 'Activate PTZ' checkbox, a 'Device id' field with the value '1', and a 'Device type' dropdown menu set to 'Generic'. At the bottom are 'Save' and 'Reset' buttons.

1.4 Adjust COM port settings (Optional)

Adjust COM port settings if needed to agree with the settings of the device connected to the camera:



The screenshot shows the 'COM Port' configuration page for an AXIS P1357 Network Camera. The left sidebar is identical to the previous screenshot, with 'COM Port' highlighted under 'System Options'. The main content area is titled 'COM Port' and includes a 'Port Settings' section with checkboxes for 'Enable port', 'Generic HTTP', 'Pan Tilt Zoom' (checked), and 'Generic TCP/IP'. Below 'Pan Tilt Zoom' are links for 'Upload and select driver' and 'Specify advanced device settings'. The 'Port Type' section shows 'Port type' set to 'Serial Port'. The 'Serial Port Settings' section includes fields for 'Port mode' (RS485 - 2 wire), 'Baud rate' (2400), 'Data bits' (8), 'Stop bits' (1), 'Parity' (None), 'Termination' (unchecked), and 'Bias' (unchecked). 'Save' and 'Reset' buttons are at the bottom.

1.5 Enable zoom (Optional)

Go to PTZ > Advanced > Controls and enable Zoom in case for example of steering a zoom lens

- Basic Setup
- Video & Audio
- Live View Config
- PTZ
 - Preset Positions
 - Guard Tour
 - Advanced
 - Device
 - Controls**
 - Driver Selection
 - Control Queue
- Detectors
- Applications
- Events
- Recordings
- System Options
- About

Control Settings

Panel Shortcut Command Buttons

No	Label	Information	URL	Enabl.

Add...
Modify...
Enable/Disable
Remove

Enable/Disable controls

☒ Pan enable
☒ Tilt enable
☐ Zoom enable
☐ Focus enable
☐ Iris enable

Save
Reset