Telycam Camera Control

Q-SYS Plugin Document

Version 1.0 – Revised 9/04/2024

1. Introduction

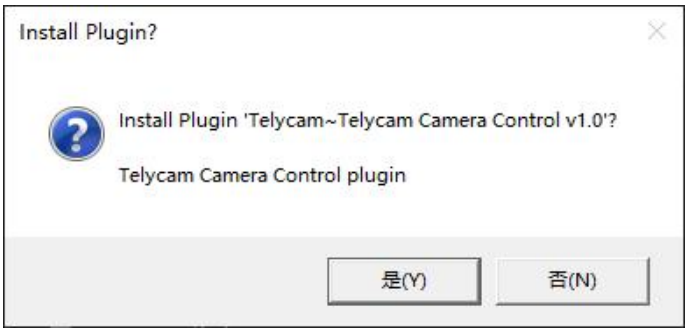
This document describes the basic functionality of the Telycam Camera Control Q-SYS Plugin. This plugin communicates with and controls the Telycam **Explore**, **Vision+**, and **Drive+** series of cameras from a Q-SYS system.

The plugin offers two communication methods (**Serial/RS232** and **VISCA over IP**) for communicating with the Telycam cameras and provides comprehensive control functions close to the native control interface experience. It also includes features such as auto-connection, camera status synchronization, Control Pin, and more.

2. Compatibility

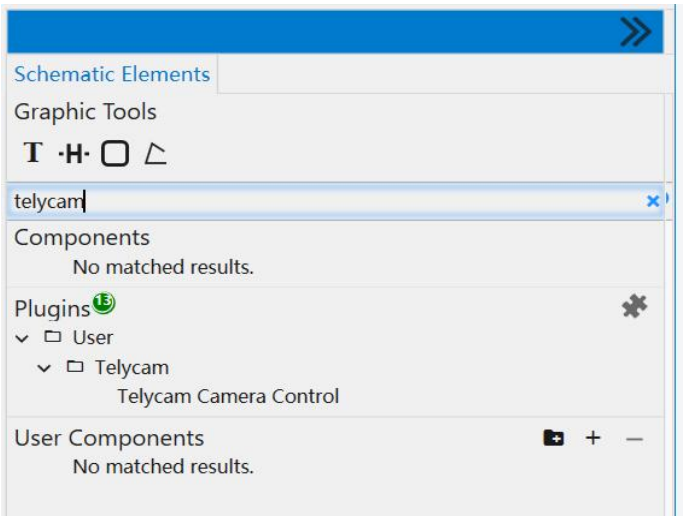
The initial plugin version (V1.0) is compatible with Q-SYS version 9.9.X.
The initial plugin version (V1.0) is compatible with Telycam Camera Firmware Version V1.0.
The plugin may be used in emulation mode or deployed to a Q-SYS Core with full **VISCA over IP** communication functionality, but only with a real Q-SYS core in RS232 communication mode.

3. Installation



The Telycam Camera Control Q-SYS Plugin can be installed by double clicking the **TelycamCamera.qplugx** files on a Windows computer with Q-SYS Designer installed.

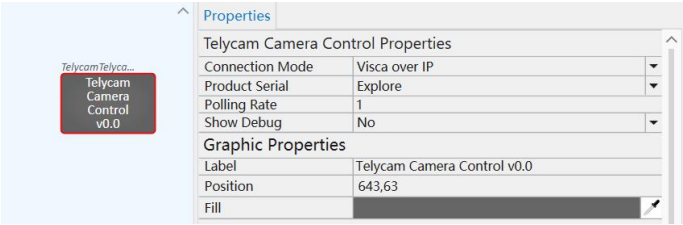
After installation, find the plugin in the "User" folder of the "Plugins" section in the bottom right corner of Q-SYS Designer.



Tip: You can search the keyword 'Telycam' in the search box for quick access.

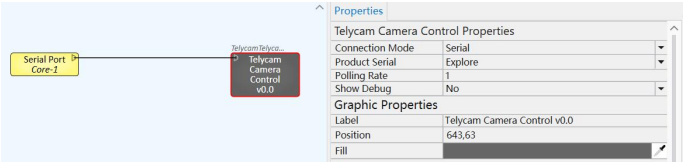
4. Properties

Once added, the plugin properties will appear in the top right corner of the Q-SYS Designer software.

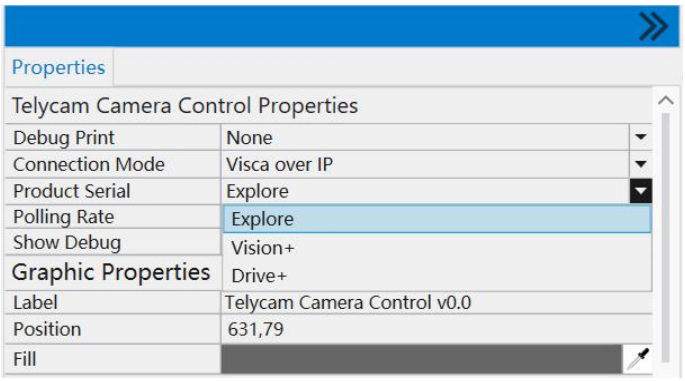


Connection Type - Select the communication mode, '**Visca over IP**' or '**Serial**'.

If 'Serial' is selected, a triangular symbol will appear on the left side of the plugin for connecting to a physical serial port on the core.



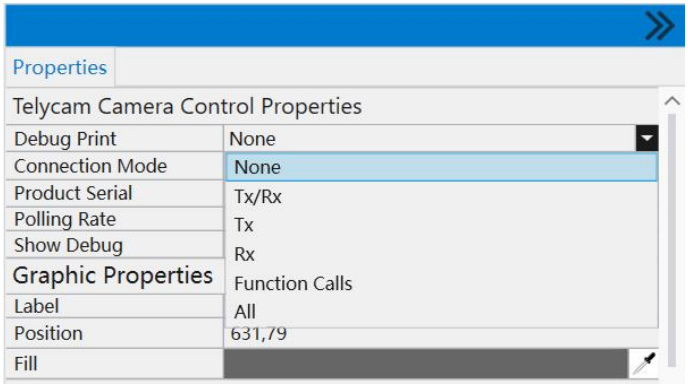
Product Serial - Select the Telycam camera series (Explore, Vision+, Drive+).



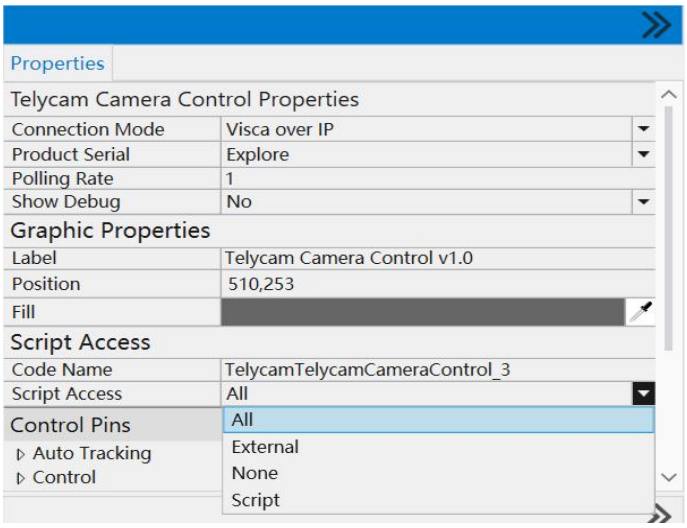
Polling Rate - Set the refresh interval time for this plugin to get the status of the camera (range 1s~10s, default 1s).

Show Debug- Choose whether to print debug messages, typically used for advanced troubleshooting purposes.

If '**Show Debug**' is set to 'Yes,' a debug print sub-option drop-down list will appear, allowing you to select different types of debug information for printing.



Script Access - Use Q-SYS internal LUA Script control method to control this plugin, enabling advanced control linkage. To enable this feature, you need to assign a '**Code Name**' to the plugin and set up '**Script Access**' permissions.



5. Plugin Interface

There are 6 pages in this plugin, the **'Setup'**,**'Control'**,**'Presets'**,**'Picture Settings'**,**'IP Settings'**,**' Auto Tracking'**" page.

Double-click the plugin to access the user interface, where you can control and operate it.

Please note: The pages may differ depending on the product serial (Explore, Vision+, Drive+) you have selected in the plugin properties.

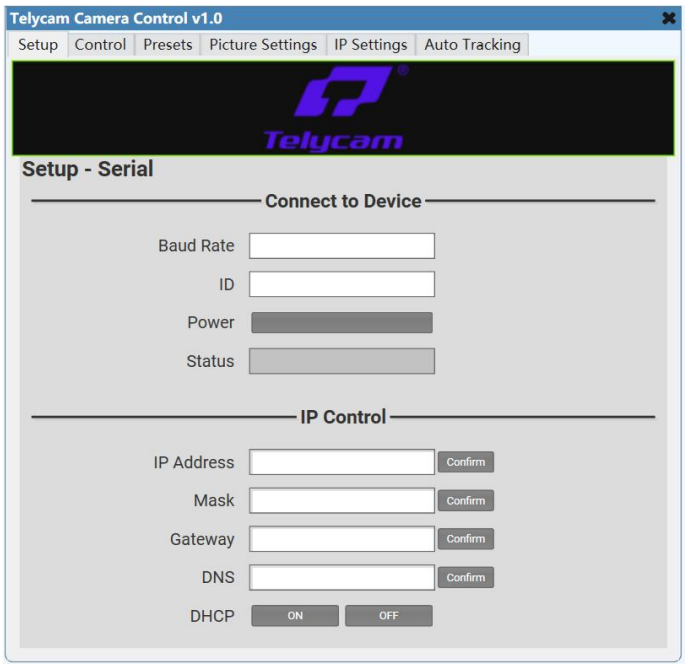
5.1. Setup Page

The Setup interface is mainly used to set up the communication protocols and establish connections with the Jupiter Pana Display.

When the connection type is **'Visca over IP'**, the Setup page interface is as follows.

Connection Type：**Visca over IP**

When the connection type is '**Serial**', the Setup page interface is as follows.



Connection Type： **'Serial'**

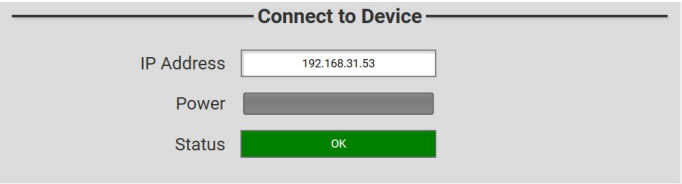
Below is a description of each aspect of the user interface.

IP Address: Displays the IPv4 address of the camera that the plugin will communicate with, which can be edited at runtime. It is recommended to set each camera to a static IP address to prevent abnormal communication caused by camera address changes.

Connection Status: Shows the current status of the camera and can display the following states.

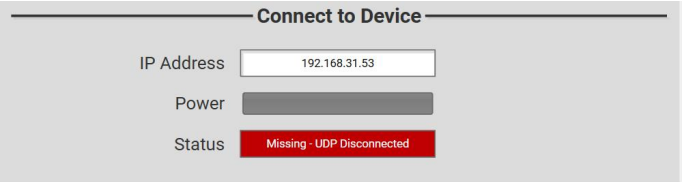
Connection Type - Visca over IP

- OK - Connected successfully



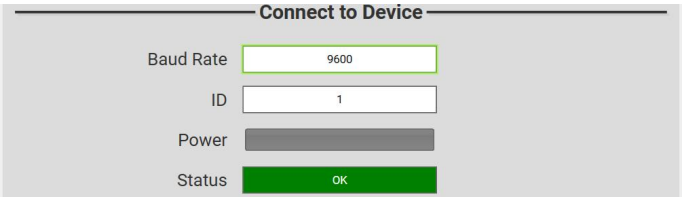
- Missing - Invalid or No IP address

- Missing - No connection



Connection Type - Serial

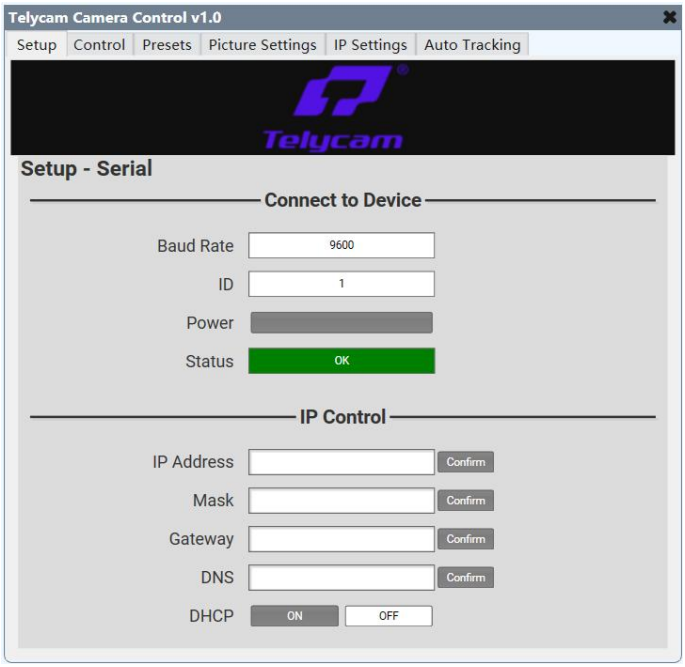
- OK - Serial Connected successfully



- Missing - Serial Disconnected

IP Control – sub-page

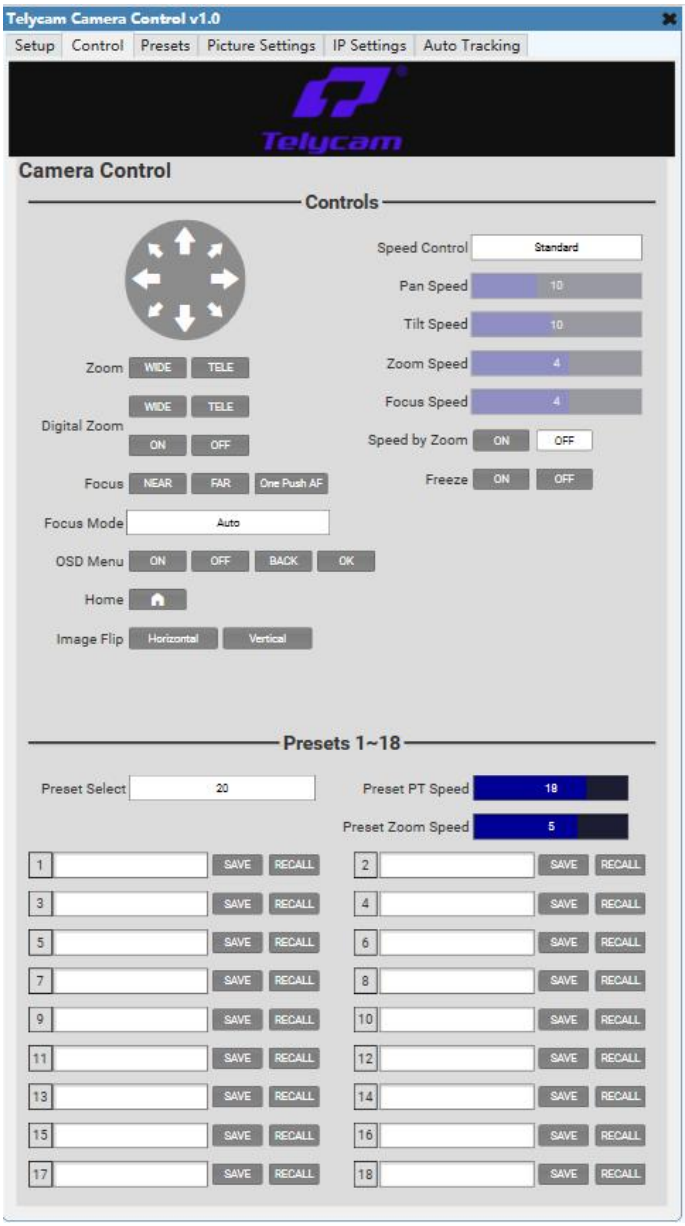
When operating in the 'Serial' connection mode, the 'Setup' page includes an additional **'IP Control'** sub-page. This sub-page provides settings for configuring the IP address parameters of the currently connected camera via the serial connection.



- **IP Address**: Set the IP address for the camera.
- **Sub-net Mask**: Configure the sub-net mask.
- **Gateway**: Set the gateway address.
- **DNS**: Configure the DNS server address.
- **DHCP** Toggle: Enable or disable DHCP (Dynamic Host Configuration Protocol).

5.2. Control Page

The Control Page is used to control the basic PTZ behavior of camera and keep track of their status (if applicable).



For more detailed information on these parametric settings, please refer to the corresponding chapter of the Telycam camera user manual.

Presets 1~18 sub-page

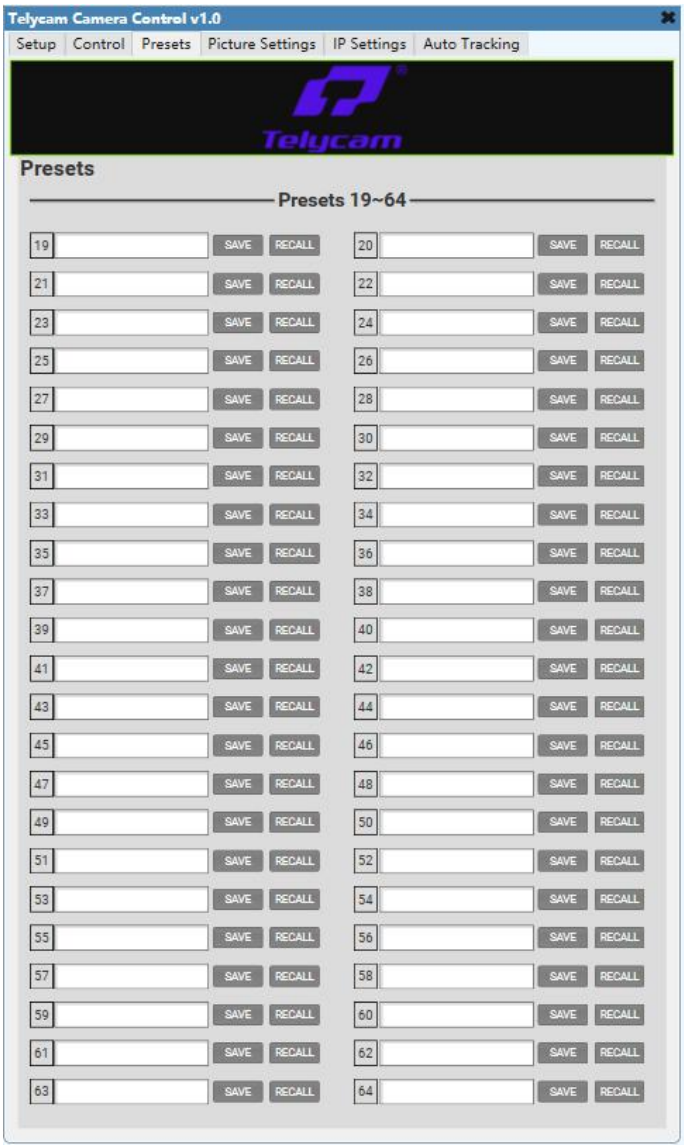
Under PTZ Control, there is a Presets 1~18 sub-page. In this section, you can save and recall 1~18 PTZ presets.

It also includes settings for the PTZ preset switch transition time and the PTZ zoom transition time ('**Preset PT Speed**', '**Preset Zoom Speed**').

5.3. Presets Page

On the '**Presets**' page, extended PTZ presets are provided, allowing you to save and recall an additional 19-64 PTZ presets.

Please note, if you need to set the PTZ preset switch transition time and the PTZ zoom transition time, you will need to configure this in the '**Control Page**' / '**Presets 1~18'** section.



5.4. Picture Settings Page

This page mainly includes picture-related parametric settings, such as white balance, exposure, and Genlock.

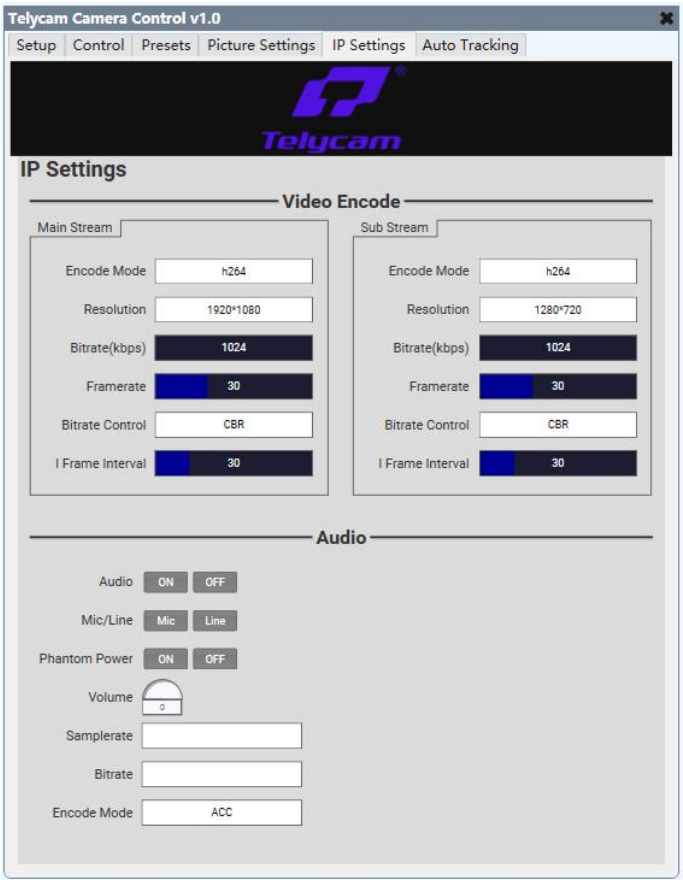
For more detailed information on these parametric settings, please refer to the corresponding chapter of the Telycam camera user manual.

5.5. IP Settings page

This page includes two sub-pages: '**Video Encode**' and '**Audio**.'

On the '**Video Encode**' section, you can find video stream-related parametric settings, such as encode mode, resolution, bitrate, etc.

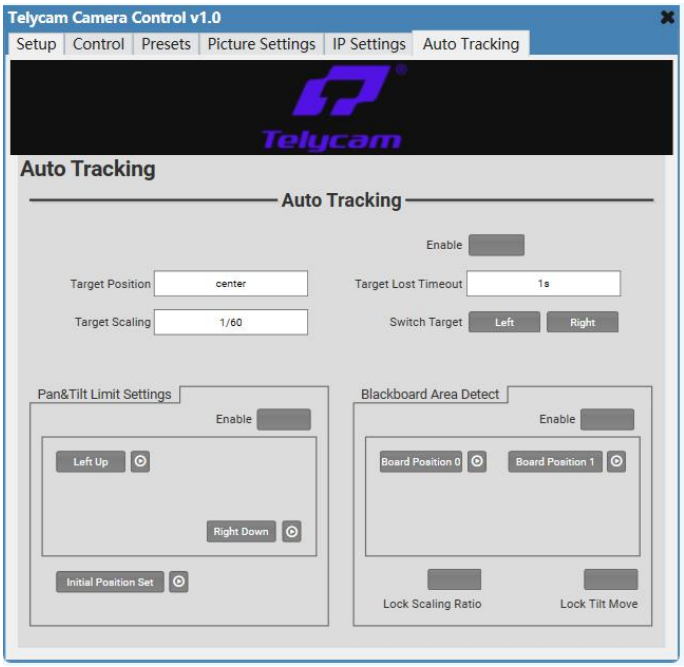
On the '**Audio**' section, it offers options for audio enable/disable, mic/line selection, phantom power enable/disable, and volume settings, etc.



For more detailed information on these parametric settings, please refer to the corresponding chapter of the Telycam camera user manual.

5.6. Auto-Tracking Page

This page offers AI-based camera tracking settings, such as target position, scaling, tracking zone limit settings, and more.



For more detailed information on these parametric settings, please refer to the corresponding chapter of the Telycam camera user manual.

6. Control Pins

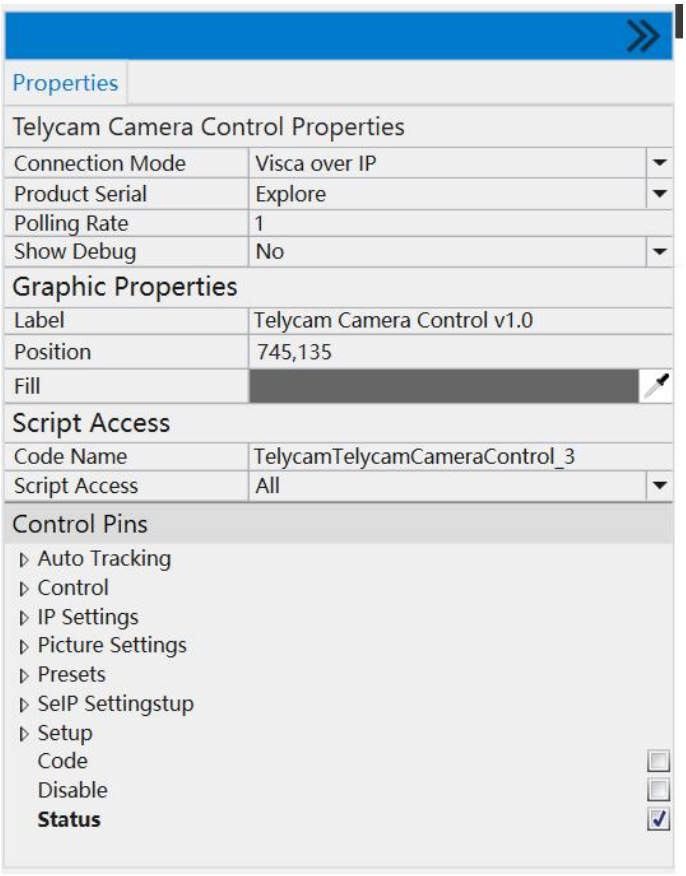
The Q-SYS environment utilizes control pins to allow designers the ability to implement logic functions.

The Telycam Camera Control Plugin supports all controls via control pins.

Control pins may be enabled on the right side of Q-SYS Designer when the plugin is selected.

All status indicators are available as outputs. User controls such as Camera Control, Presets, Picture Setting, IP Settings and Auto Tracking are available as both inputs and outputs.

The available control pins will change depending on the **connection type** or **product serial**.



7. Support

If you have any questions or concerns with this Plugin, please contact:

support@telycam.com.