Eclipse CCTV Installation and Usage Guide

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Overview

Since 1998, Eclipse CCTV and Access Control products have raised the bar for innovation in the security industry. As a manufacturer of CCTV surveillance cameras, Eclipse offers a diverse selection of state-of-the-art business and residential security products. Their products have been guarding the property and enhancing the safety of clients, employees, guests, and family members for more than 20 years. Their R&D and Quality Control cycles continually improve their surveillance and access control products, making them easy to use for professionals and consumers alike.

The Chowmain Eclipse CCTV driver for Control4 allows integration of PTZ and Fixed IP cameras either direct or through a NVRs with the following functionality.

Features

- Control4 OS 3.0 Support
- Auto setup of camera RTSP stream and Snapshot to be Control4 compatible.
- Pan, Tilt, Zoom and Preset functionality for PTZ cameras.
- Wiper On / Off command for compatible cameras
- Light On / Off command for compatible cameras
- Heater On / Off command for compatible cameras
- IR On / Off command for compatible cameras
- Event notifications
  - Motion
  - Tamper
  - Audio

Change Log

Version 20221223 - 23-DEC-2022
- Improve Diagnostics and Troubleshooting
- Fix Minor Crash when setting ports
- Fix Crash on First Time Run

Version #20220816 - 16-AUG-2022
- Fixed issue with snapshots for cameras behind NVRs not working after controller reboot.

Version 20220704
- Initial release

Driver Installation and Configuration

Hardware Setup

- Please ensure that the NVR is setup to a static IP address if a NVR is being used.
- If the driver is connecting to a camera directly and not through the rear of an NVR then please ensure that Camera is also setup to a static IP Address.
- Cameras and NVRs must have the same username and password
- If you are using PTZ cameras pre-setup presets (upto 10). The driver will be able to recall these presets.
- Note that if you are using a Control4 T3 touchscreen you cannot connect the camera to the rear of the NVR. The stream will not work if you do this. To ensure it works with T3 touchscreens you must connect the camera direct to a switch. When adding the camera to the NVR do not utilise Eclipse CCTV or ONVIF protocol. It must be set to **Custom protocol** with the resource path set to **rtsp://:/media/video** with Enable Sub Stream **UNTICKED**. This frees up the substream for the T3 to utilise.

Driver Installation

1. Open **Composer**
2. Add the **Eclipse CCTV PTZ** and **Eclipse CCTV Non PTZ** drivers from the zip file to your system
3. Search for the **Eclipse CCTV PTZ** or **Eclipse CCTV Non PTZ** driver from **System Design's Items Search** tab and add it to your project. You will need to do this for each camera
4. If your camera is connected through the back of a NVR please enter the IP address of the NVR under the **Hostname / IP Address** field and press **Set**. Otherwise if your camera is connected external of the NVR (ie on a switch) then enter the IP address of the Camera under the **Hostname / IP Address** field and press **Set**.
5. Leave HTTP Port, HTTPS port, RTSP Port as the defaults. You should not need to change these. Note that the driver will manipulate the HTTP port itself to the correct value later.
6. Under Authentication tick the **Required** checkbox.
7. Enter in the **Username** and press Set
8. Enter in the **Password** and press Set
9. **Authentication Type** should be se to **Digest**
10. In the **Properties** tab of the driver, select the Camera Connection type to either **Through NVR** or **Direct** depending on how you have connected your camera.
11. If it is through a NVR you will now have a Channel Number property. This is the channel the camera is on. Please refer to the NVR web interface or onscreen display for the correct camera channel.
12. Please select your stream number. By default this is set to Stream 2 which is the sub-stream. Note that the driver will configure this stream later on to be Control4 compatible.
13. Adjust the Pan Speed and Tilt Speed. This is the speed at which it moves when tapping on pan left, pan right, tilt up, tilt down.

14. Adjust the **PTZ Movement Duration**. This is the amount of time after it sends a pan left, pan right, tilt up and tilt down command it should wait before sending a stop command.
15. Click on the Actions tab.
16. Press the **Auto Config Button**. This button will automatically configure the selected stream and snapshot on the selected channel to be compatible with Control4's requirements. It will also pull in the configuration of the camera to create bindings for motion, audio and tamper. These can be used to bind motion and other sensors to the driver for visual feedback in navigator and also programming of lighting and other automation tasks.
17. Refresh Navigator.

FAQ

What cool things can we do with this driver?
- Choose which stream to utilise with the driver.
- The driver's Auto setup functionality makes configuration of the cameras quick and easy.
- Access IP camera live streams when behind an NVR
- Access to currently active events that you can bind to sensors for audio detection, motion detection and tamper.
- Trigger camera commands via the Programming tab
- Ability to change the camera resolution to better match Control4's preferred resolution

What site setups does this driver support?
- One or more standalone cameras connected to shared network switch without a NVR
- One or more cameras physically connected to the rear of a NVR
- One or more cameras physically connected to the rear of an NVR including one or more cameras connected to a shared network switch that are added to the NVR

What models will this work for?
This driver is developed using Eclipse CCTV's LightAPI and is compatible with all models on NVR and Cameras.

Where can we purchase the hardware from?
Please visit https://www.eclipsecctv.com/control-4.html to find a out more including where to purchase.

Licensing

- How does the trial period work?

  All Chowmain drivers are free to use for a set trial period. When the trial expires the driver will cease to function until you purchase a licence and apply it to the driverCentral project.
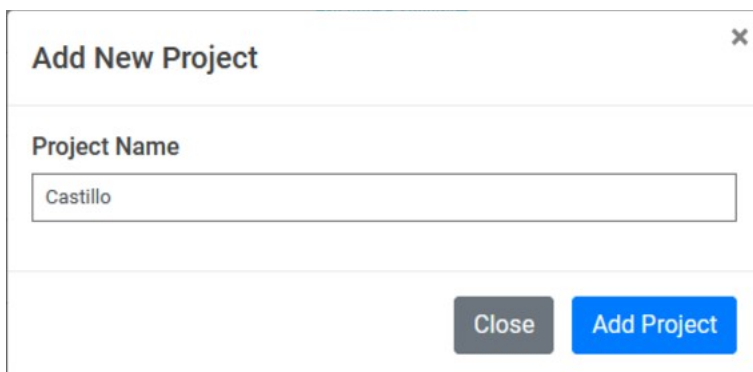
- Where do I buy a Licence from?

  This driver is developed by Chowmain software & Apps and is distributed by driverCentral, Inc
  https://www.drivercentral.io/chowmain-ltd

  To purchase a driver:

  1. On driverCentral, purchase a license and register it to your project

  2. If the driver is not already installed in your project, download it and install it

  3. If necessary, use the cloud driver's Action: "Check Drivers" to force the licence to download into the project

Creating a Project on Driver Central

1. Visit http://www.drivercentral.io

2. Log into your driver Central dealer account

3. Click **Portal**
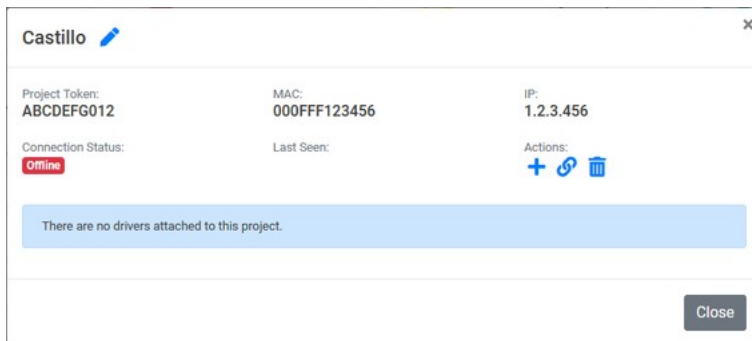
4. Click **New Project**

5. Enter the project name

6. Click **Add Project**

7. Click on the project we just created

Project	Status	Created
🏠 Castillo	Unassigned Project	1999-12-31 23:59:56

8. Take note of the **Project Token** as this will be used later when we install the Cloud Driver
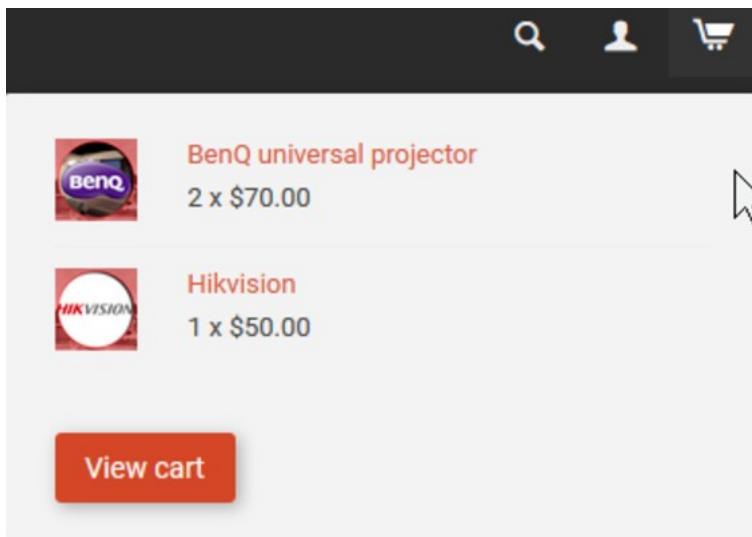

Castillo ✏️   ✕

Project Token: MAC: IP:
ABCDEFG012   000FFF123456   1.2.3.456

Connection Status: Last Seen: Actions:
Offline   ➕ 🔗 🗑️

There are no drivers attached to this project.

                                                        Close

9. Click **Close**

Purchasing a Driver Licence

1. Visit https://www.drivercentral.io/chowmain-ltd/ and find the product/driver you want to purchase a licence for

2. Click on **Add to Cart**

ADD TO CART
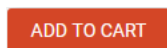
3. Now click the shopping cart icon (top right) and click **View cart**

BenQ universal projector
2 x $70.00

Hikvision
1 x $50.00

View cart

4. Confirm that your order is correct and click on **Proceed to checkout**

Proceed to checkout

5. Choose your payment option, provide the relevent details and click **Place order**

Checkout

☐ Select this check box to accept the Terms and Conditions
☐ Subscribe to our newsletter

Place order ($190.00)

6. You will now be at a page where you can see your purchased licence

License Name ⇕	License Key ⇕	Project Assigned ⇕	Action ⇕
████████████			Assign to Project

7. From here assign the licence to the project we created or if you did not follow that step create a new project

Install the driverCentral cloud driver

1. Visit http://www.drivercentral.io

2. Log into your driver Central dealer account

3. Click **Portal**

4. Click **Cloud Driver**
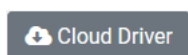
5. Copy the C4Z driver to My Documents\Control4\Drivers directory

6. Add the driver to your project

7. Click on the driver to view it's properties

Cloud Status	Please enter cloud project token below...
Project Information	(1) Total, (0) Licensed, (0) Trials, (1) Expired, (0) Updates.
Driver Version	1001
Project Token	
	Project token from driverCentral.io project portal
Driver Actions	
Debug Mode	Off

8. Type in the project token we took note of earlier

9. Click **Actions** tab

10. Click **Check Drivers**

Install Chowmain driver

1. Install the Chowmain driver

2. You will notice that the Activation Status reflects a Licence Activated state

3. Any driver that does not have a purchased licence will have a trial licence activated via the marketplace
   Note that there is no way to reactivate the trial so please use wisely

4. If you do not then press the Check Drivers action in the driverCentral Cloud driver again

Activation Status	Update Available!!! License Activated
Driver Version	1002
Driver Information	Navigate to connections tab and make serial binding
Automatic Updates	Off