

Turing Video Installation and Usage Guide



TURING

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Overview

Turing AI is a company with an all-in-one platform that utilizes AI to provide FLEXIBLE, SIMPLE & ROBUST cloud video security solutions, to safeguard lives and assets in an increasingly complex world.

At Turing AI, our mission is to deliver comprehensive yet flexible security surveillance solutions and platforms that empower individuals, businesses, and communities to protect what matters most.

We achieve this by leveraging advanced technology, top-tier expertise, and unwavering commitment to customer satisfaction.

Our goal is to create a safer and more secure world, one surveillance system at a time.

The Chowmain Turing Video driver for Control4 allows integration of PTZ and Fixed IP cameras either direct or through a NVR

Features

The Chowmain Turing Video driver for Control4 allows integration of PTZ and Fixed IP cameras either direct or through a NVRs with the following functionality:

- 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 20240419 - 19-APR-2024

- 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, the protocol 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.
- **IMPORTANT:** If you are using smart events please ensure that the Intelligent Server is not set to LAPI for the Platform Communication Type. It must be set to UNV. Otherwise Director will slow down due to the snapshots being sent constantly through the event stream.

Driver Installation

1. Open **Composer**
2. Add the **Turing Video PTZ** and **Turing Video Non PTZ** drivers from the zip file to your system
3. Search for the **Turing Video PTZ** or **Turing Video 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 set 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

Director is slowing down when smart events are triggered.

- If you are using smart events please ensure that the Intelligent Server is not set to LAPI for the Platform Communication Type. It must be set to UNV. Otherwise Director will slow down due to the snapshots being sent constantly through the event stream.

What models will this work for?

This driver is developed using Turing Video's LightAPI and is compatible with all models on NVR and Cameras.

Where can we purchase the hardware from?

Please visit <https://www.uniview.com/> to find a partner.

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?

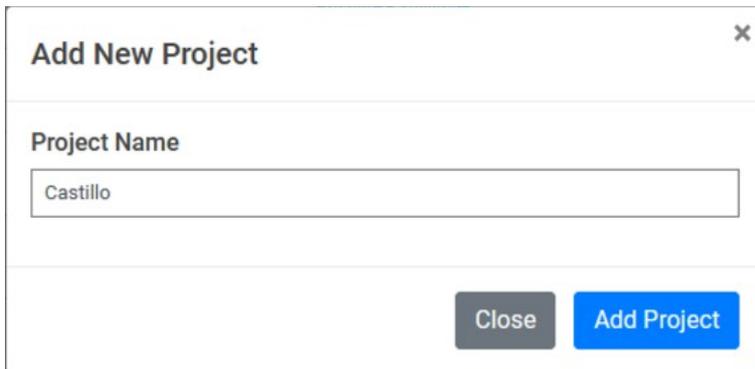
This driver is developed by Chowmain software & Apps and is distributed by driverCentral, Inc <https://www.drivercentral.io/chowmain-ltd>

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

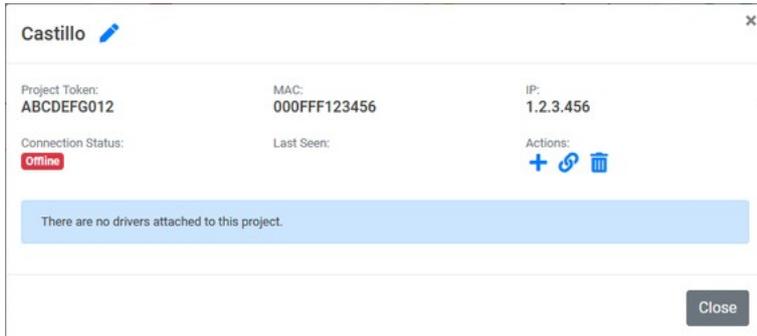
1. Visit <http://www.drivercentral.io>
2. Log into your driver Central dealer account
3. Click **Portal**
4. Click **New Project**
5. Enter the project name



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



9. Click **Close**

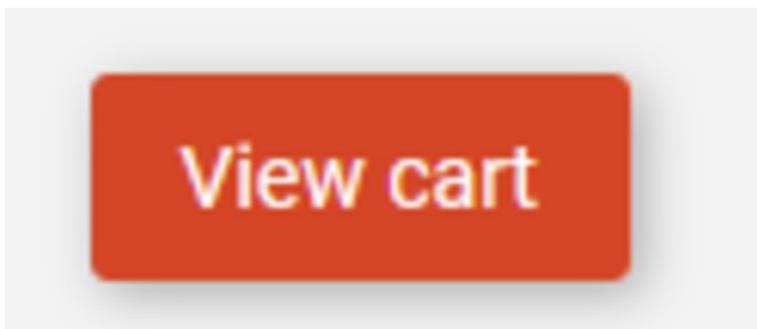
Purchasing a Driver Licence

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**



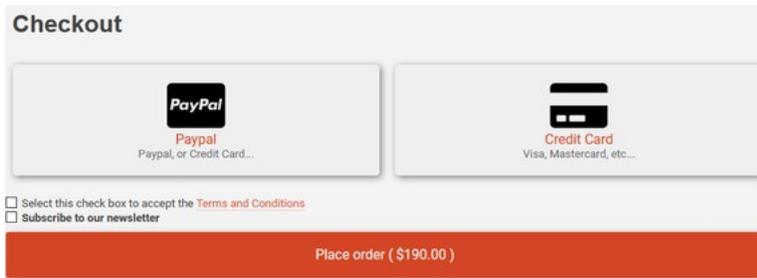
3. Now click the shopping cart icon (top right) and click **View cart**



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



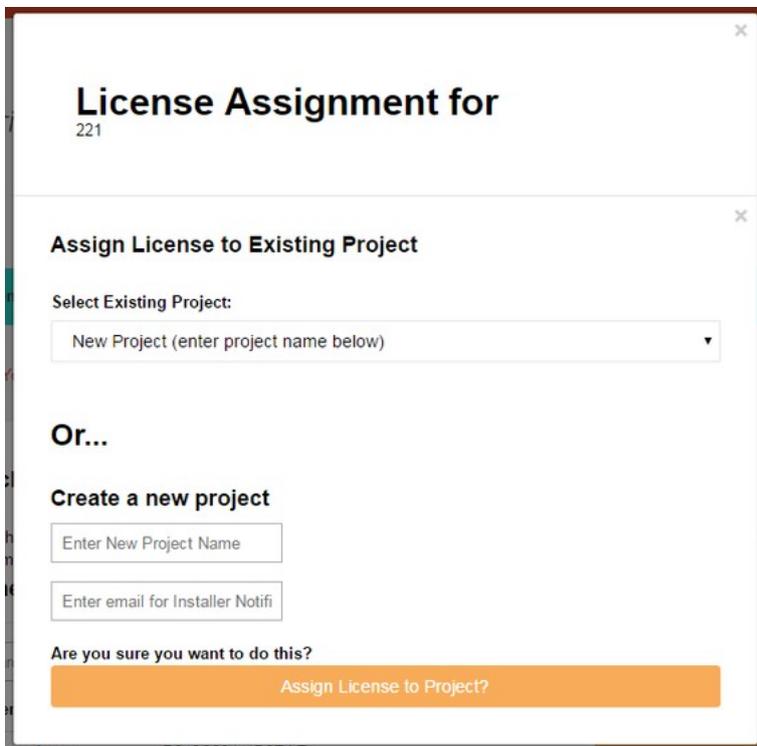
5. Choose your payment option, provide the relevant details and click **Place order**



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



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	<input type="text"/>
	Project token from driverCentral.io project portal
Driver Actions	<input type="button" value="v"/>
Debug Mode	Off <input type="button" value="v"/>

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 <input type="button" value="v"/>