



Generic Lighting Driver (IR)

Installation and Usage Guide

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Overview

Control4 allows for you to easily integrate infra red based audio/visual devices but it does not give you the ability to integrate infra red based lighting devices.

This is where the Chowmain generic lighting driver comes in. With customisable properties where you can enter in IR HEX codes you can now integrate infra red based lighting devices into Control4 with the correct icon.

Features

- Definable On/Off Hex IR codes in properties
 - Easy to manage
 - Can have multiple copies of the same driver with different IR codes
 - Definable IR repeat counts.
- IR Binding
 - You can bind it to any infra red output in your Control4 system.
- On/Off/Toggle functions
 - With notifications to the proxy means that the client will know when the light is on/off (note that as it is IR based/without feedback it is assumed On/Off)
- Ability to integrate RGB lighting.

Change Log

Version #20160725 - 25-JUL-2016

- Added the ability to control colours. Add multiple instances of the driver (one for each colour) and group them together.

Version #20160416 - 16-APR-2016

- Made improvements to licencing algorithm. Should resolve issues on OS 2.8 systems with intermittent internet connections.

Version #20151230 - 30-DEC-2015

- Resolved Issue effecting initial light state on IOS devices on Control4 OS version 2.8.0

Version #20150818 - 18-AUG-2015

- Implemented Dealer Demo Licencing

Version #20150407 - 07-APR-2015

- Resolved issue where logs on 2.6 systems would fill out controller storage causing system stability issues. This only effects systems where people have set the debug logs to 'print and log' or 'log' and have forgotten about it over longer periods of time.

Version #20141118 - 18-NOV-2014

- Converted from C4I to C4Z filetype

Version #20140414 - 14-APR-2014

- Added repeat count property for on and off codes

Version #2014022028 - 20-FEB-2014

- Initial Release

Important Notice

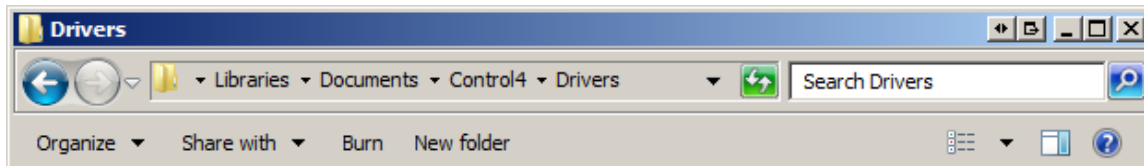
This driver has been developed for Control4 OS version 2.6.0. It will not work on older versions of OS.

Driver Installation

1. The driver you have downloaded will be in a zip file. Double click on this file to open it in your preferred zip program (WinZip, WinRar, etc.).



2. Extract the c4i file to the My Documents\Control4\Drivers directory. If you are using Windows 7 or 8 this will be extracted to the Libraries\Documents\Control4\Drivers directory.

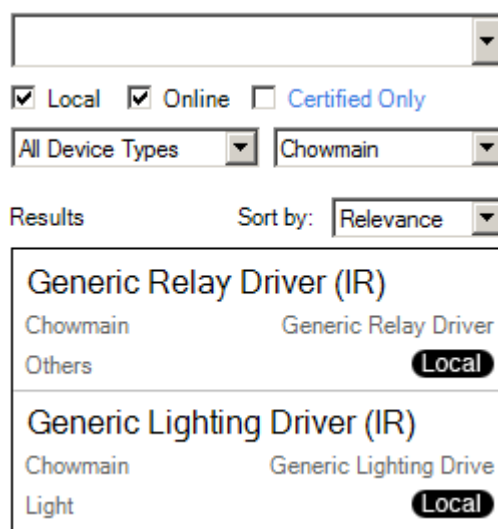


3. You are now ready to add and configure the driver via the Composer Pro software.

Adding the driver to your project

IMPORTANT – Before undertaking the installation of the driver please follow the licencing steps outlined at the end of this document.

1. Launch the Composer Pro application and connect to your project
2. In the 'System Design' page select the 'Search' tab on the right hand side.
3. Select 'Chowmain' as the manufacturer.



Local Online Certified Only
 All Device Types Chowmain
 Results Sort by: Relevance
Generic Relay Driver (IR)
 Chowmain Generic Relay Driver
 Others **Local**
Generic Lighting Driver (IR)
 Chowmain Generic Lighting Drive
 Light **Local**

4. Double click on the 'Generic Lighting Driver (IR)' driver to add it to your project
5. Highlight the 'Light' driver on the left hand side. Rename it to a meaningful name.
6. Enter in the On and Off IR Codes along with repeat counts.

Note: The infra red codes will need to be obtained from the manufacturer or learnt using an infra red learner. Control4's controllers have infra red learners inbuilt and can be used during the driver wizard process. See the installation manual for more details on how to use the driver wizard.

On IR Code	0000 006f 0000 0020 0009 001
On Repeat Count	5
Off IR Code	0000 006f 0000 0020 0009 001
Off Repeat Count	5


7. If you are using RGB based lighting enter in the Colour IR Code along with repeat count.
8. The driver will send an On IR code and then the Colour IR Code. You can optimise the time delayed between the IR codes by adjusting the '**Milliseconds between ir codes**' property.
9. Add in multiple copies of the driver for each colour and go through steps 1- 9 for each.
10. Once you have added in all the colours click on the Select button on each copy of the driver and select all the colours in the group.



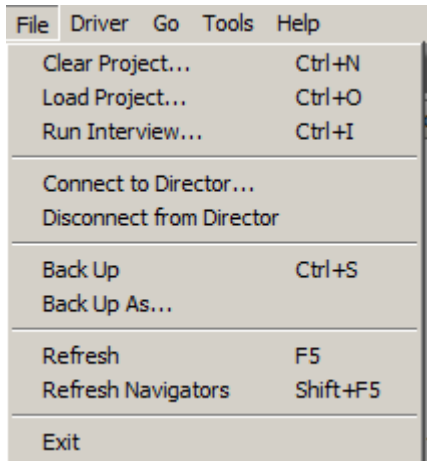
11. Click on the Connections tab.



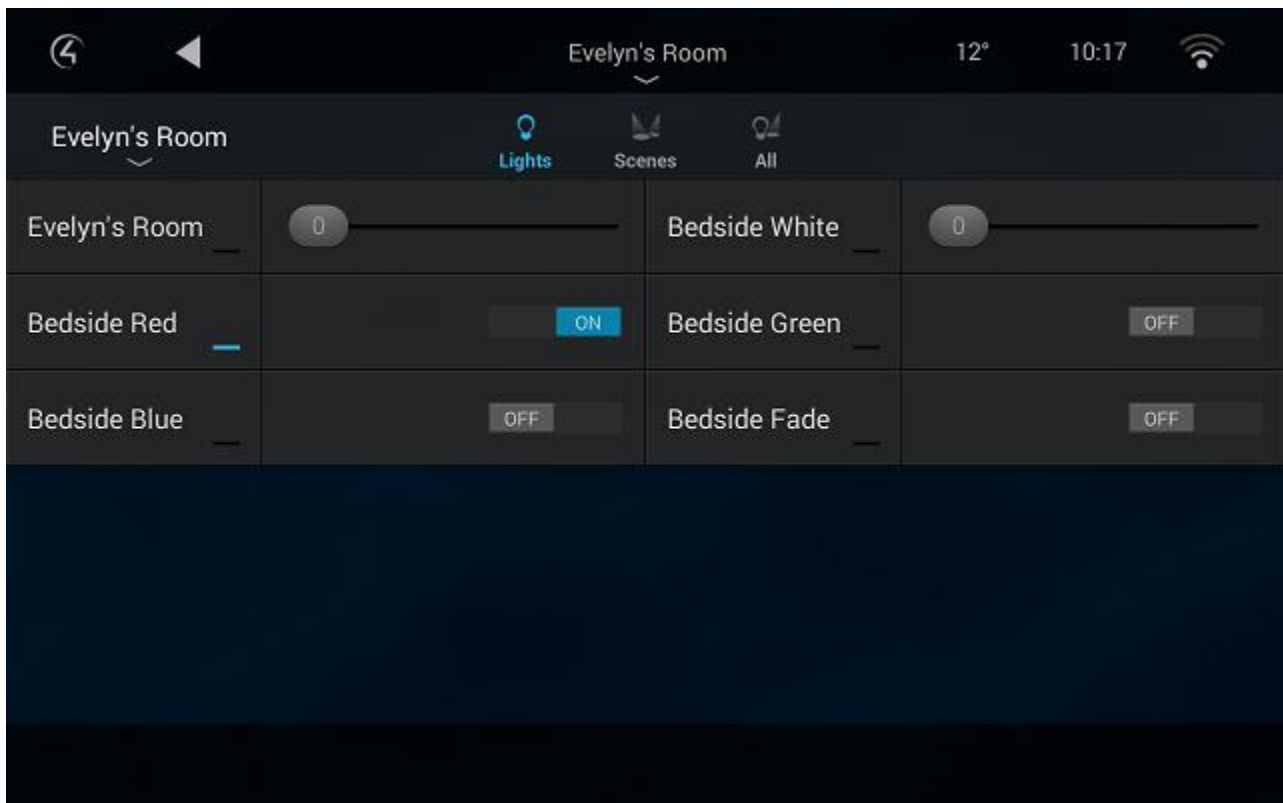
12. Highlight driver(s) on the left hand side.
13. Bind the IR Sensor(s) to the IR output to be used.

Name	Type	Connection	Input/Output	Connected To
Control Inputs				
 IR Sensor	Control	IR_OUT	Input	

14. Click on the File and Refresh Navigators. Congratulations you have set up generic lighting driver (IR).



15. When a Colour is selected the current colour is told to turn off without sending an IR code. If you want to turn off the RGB light then just toggle the current colour that is ON or select a lighting scene that turns off the lights.



Licencing

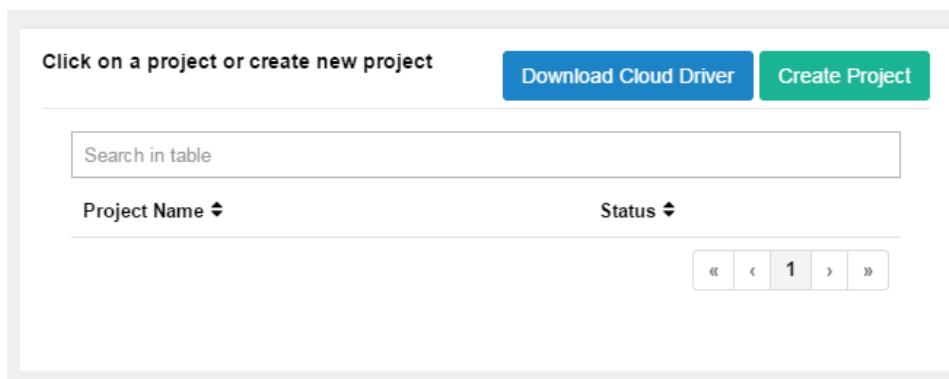
Chowmain drivers require a valid licence to use the driver. Drivers can be purchased from our distributor [driverCentral](#) however all Chowmain drivers come with a 7 day trial. We recommend that prior to purchasing a driver that you test the driver out to ensure that it will work with your hardware and will meet your requirements. The licencing procedure is broken down into 4 steps. A summary of the steps are below along however we have also provided detailed steps if the summary is not sufficient.

Summary

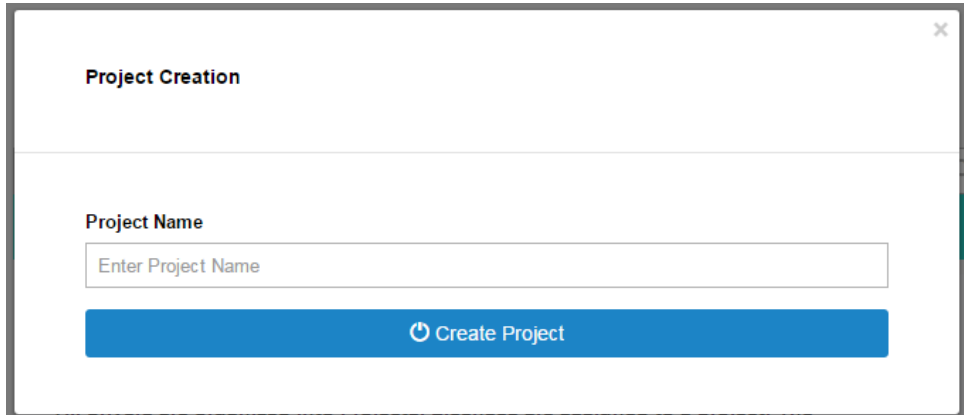
1. Create your project on the driverCentral.io website (This will generate a specific token which you will use in the next step)
2. Download, install and activate the driverCentral cloud driver in your project (Only once per project. Use the token generated in step 1)
3. (Optional) To try a driver, simply download it and install it in your project
4. To purchase a driver:
 - a. On driverCentral, purchase a license and register it to your project
 - b. If the driver is not already installed in your project, download it and install it
 - c. If necessary, use the cloud driver's Action: "Check Drivers" to force licence download to the project.

STEP 1 - Creating your project on driverCentral

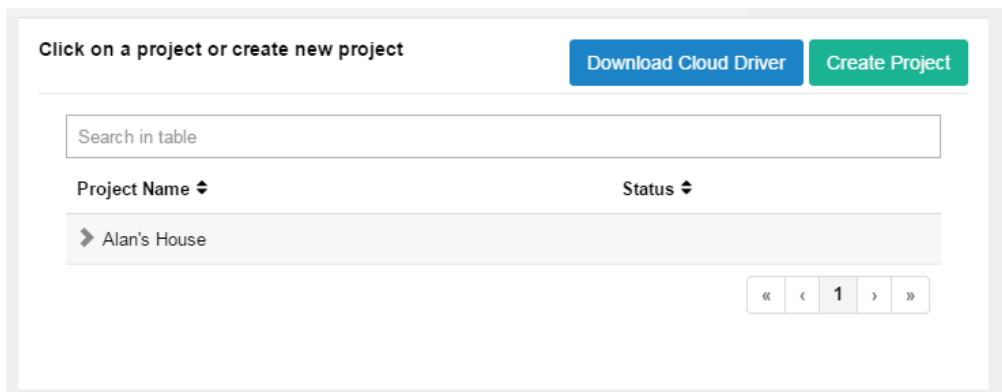
1. Visit <http://www.drivercentral.io>
2. Log into your driver Central dealer account.
3. Visit the Project Portal
4. Click on Create Project



- It will prompt you for a project name. Type in a meaningful name for your customer's project



- Click on Create Project
- Click on the project we just created to expand the project



- Take note of the Project Token as this will be used in STEP 3 when we install the driverCentral cloud driver.

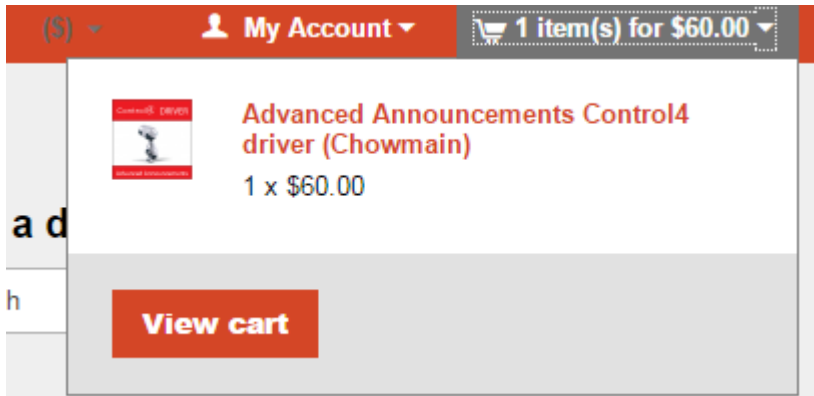
Project Name: <input type="text" value="Alan's House"/>	MAC Address: Not Connected to Project	Action:
Project Token: ABCDEFGHIJ	Last Communication: Not Connected	Connection Status: Not Connected

STEP 2 –Purchase 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 the Add to Cart button



3. Click on the Shopping Cart icon in the top right corner and click on View cart



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



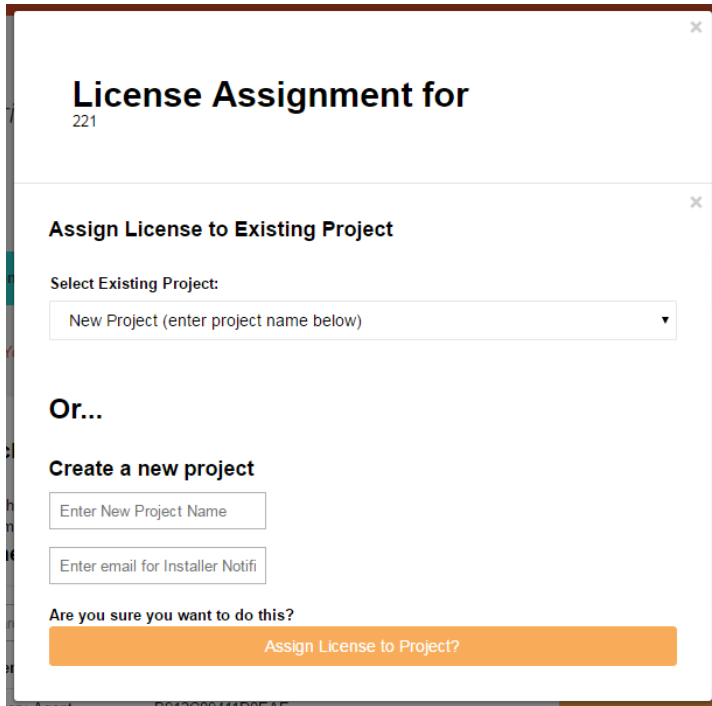
5. Follow the prompts and click on Submit my order



6. This will take you to PayPal for payment.
7. Pay via PayPal. It will automatically return to the marketplace when confirmed.
8. You will now be at a page where you can see your purchased licence.

License Name ↕	License Key ↕	Project Assigned ↕	Action ↕
[REDACTED]			Assign to Project

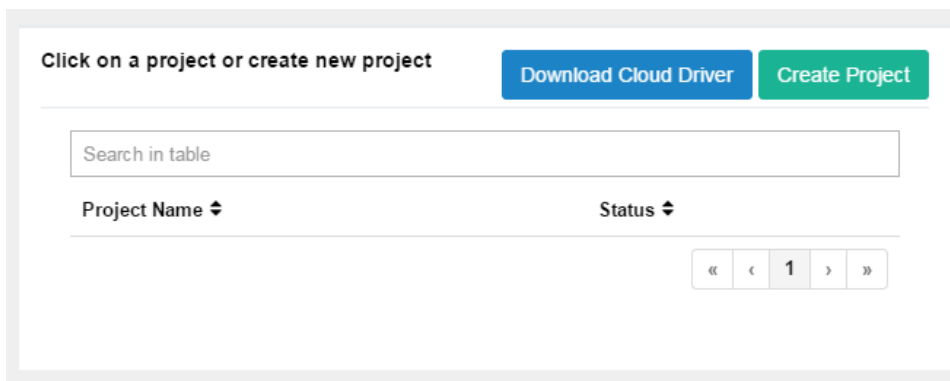
- From here assign the licence to the project we created or if you did not follow that step create a new project



STEP 3 – Install and activate the driverCentral cloud driver

NOTE: Only one instance of the driverCentral cloud driver installed per project. Do not install additional cloud drivers.

- Visit <http://www.drivercentral.io>
- Log into your driver Central dealer account.
- Visit the Project Portal
- Click on Download Cloud Driver



- Copy the C4Z driver to My Documents\Control4\Drivers directory.
- Add the driver to your project.

- 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"/>

- Type in the project token we took note of in STEP 1.
- Click on the Actions tab
- Click on Check Drivers

STEP 4 - Install Chowmain driver

- Install the Chowmain driver
- You will notice that the Activation Status reflects a Licence Activated state.
- 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.
- 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"/>