

Dooya Installation and Usage Guide

DOOYA[®]
TUBULAR MOTOR



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Authors: Alan Chow

chowmain 
smart home driver development

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Overview

Operating in the Home & Building and Access Activities, Dooya is the leading Chinese brand in tubular motors, particularly at the entry-level. Dooya specializes in the design of control systems for rolling shutters, rolling doors, curtains and interior blinds.

Dooya is part of the Somfy Group's portfolio of complimentary brands. Together, they cover most automation needs for openings and closures of homes and buildings around the world. They also allow the Group to service its distribution channels—manufacturers, installers, DIY superstores, e-commerce, architects—with suitable solutions.

The Connector Bridge hardware lets you connect Dooya RF controlled blinds / curtains to Control4 for bi-directional or uni directional control (depending on motor) with up / down / stop, position, tilt based control. This includes manufacturers who have rebranded Dooya motors as their own product.

The driver comes with 5 drivers.

- Connector Bridge Driver – Used for shade discovery and communications to one or more bridges on your network (note only one required).
- Uni Directional Shade Driver – One Way Driver. Supports Up / Down / Stop commands
- Bi Directional Shade Driver – Two Way Driver. Supports Up / Down / Stop / Level commands + feedback along with battery level.
- Bi Directional TDBU (Top Down, Bottom Up) Shade Driver – Two Way Driver. Supports Up / Down / Stop / Level commands for both top motor and bottom motors + feedback along with battery level.
- Bi Directional Tilt Shade Driver – Two Way Driver. Supports Up / Down / Stop / Level / Tilt commands + feedback along with battery level.

Change Log

Version 20220509 - 09-MAY-2022

- Removed licencing. Driver is now sponsored by Dooya and is FREE.

Version 20220204 - 04-FEB-2022

- Added ability to adjust queue timer
- Added ability to adjust behavior for sending a stop command before each command.

Version 20211026 - 26-OCT-2021

- Initial release

Driver Installation and Configuration

Information Collection

1. Install and configure your Dooya phone app (or the appropriate rebranded version of the app) adding the available blinds to the rooms
2. Tap the hamburger menu button (three horizontal bars)



3. Tap your profile icon



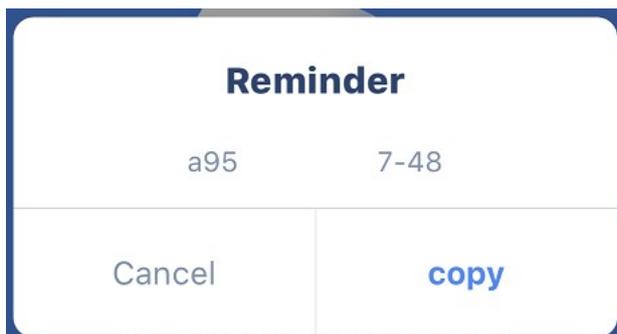
4. Tap **About**



5. Tap the logo 5 times



6. This will display a random string that you need to enter into the driver. We recommend that you copy/paste this key into an email from your phone so you can paste it in to the driver



Driver Installation

1. Open **Composer**
2. Add the **Connector Bridge** and **Blind** drivers from the zip file to your system
3. Search for the **Connector Bridge** driver from **System Design's Items Search** tab and add it to your project
4. In the **Properties** tab of the driver, paste the key into the **Secret Key** field.
5. The driver will then send out a message to all bridges on the network to discover the bridges and report back all blinds/shades connected to it.
6. Based on the bindings that appear in the Connections tab, install the appropriate driver:
 - Uni Directional Motor Driver
 - Bi Directional Motor driver
 - TDBU Motor driver
 - Tilt Motor driver
7. Now, use the blind driver to move the motor to determine which blind the driver is controlling and rename the driver accordingly. *There will be an app update in the future to allow you to see a motor's MAC address in the manufacturer's app which will allow you to manually match it up.*
8. In addition you can also set up a low battery level event. The battery level is not reported in percentage and is dependant on the size of the battery. As such you'll need to adjust the Battery Level Warning percentage yourself to the level you deem as low.
9. Automatic Notifications on Low Battery Level can also be set up. This will send out an email or push notification when the battery level falls below the set level. Note 4sight is required for the email or push notification to be sent.
- 10.Refresh Navigator.

FAQ

How much does this driver cost?

This is a manufacturer sponsored driver and is released for FREE

Why should we utilise Dooya RF motor products?

- Dooya is 70% owned by Somfy and with Somfy's guidance produce high quality and affordable motors for use in various applications.
- Dooya's RF motors can be utilised in various applications and installed with or without running power cables.
- Dooya provides uni directional, bi-directional, tilt, top down / bottom up, curtains and many more types of motor applications.
- Dooya motors are utilised by many shade manufacturers and installation companies around the world. Some of whom rebrand Dooya as their own. Your next job may already have Dooya motors installed.

What does this work for?

This will work for all Dooya RF devices connected to a Dooya Connector Bridge (Model DD7002B) or Dooya Mini Bridge (Model DD1554). Many manufacturers rebrand Dooya devices and rebrand it for themselves.

This will work with those manufacturers as well.

- Motion Blinds - <https://motion-blinds.com>
- Dooya - <http://www.dooya.com>
- Bloc Blinds - <https://www.blocblinds.com>
- Brel Home - <https://www.brel-home.nl>
- Hurrican Shutters Wholesale - <https://www.hurricaneshutterswholesale.com/>
- iSmartWindow - <https://www.ismartwindow.co.nz/>
- Smart Home - <https://www.smart-home.hu>
- Raven Rock MRG - <https://www.ravenrockmfg.com/>
- Amp Motorization - <https://www.ampmotorization.com>
- Uprise Smart Shades - <http://uprisesmartshades.com>
- Coulisse - <https://coulisse.com/>
- AMP Motorization - <https://www.ampmotorization.com/>
- Bliss Automation - <https://www.altawindowfashions.com/product/automation/bliss-automation/>
- 3 Day Blinds - <https://www.3dayblinds.com/>

What is the difference between the different bridge models?

The Dooya Connector Bridge (DD7002B and DD7006) can control both bi-directional motors and uni-directional motors. The Dooya Mini Bridge (DD1554) can only control bi-directional motors.

Does this work with Dooya's RS485 motors?

No this driver will only work with RF motors connected to the Dooya Connector Bridge or Mini Bridge.

Does this device provide two way control?

This driver will provide bi-directional control and feedback over blinds / curtains that have two-way feedback. If the motor is uni directional only the driver will assume the last state sent is the current state.

How doe Uni Directional Drivers work?

Uni Directional Drivers have up, down and stop commands only. There is no feedback on the driver. Note uni directional motors are only supported by the Connector Bridge DD7002B and and DD7006 models.

How does TDBU Drivers work?

TDBU drivers have two proxies associated. One for the top and one for the bottom. The top motor closes when it goes up and opens when it goes down. The bottom motor does the opposite and closes when it goes down and opens when it goes up.

Also note that if the top motor goes below the bottom motor's level it will force the bottom motor to move to the top motors desired level. This happens in reverse when the bottom motor goes above the top motor's level as well.

How does Tilt Drivers works?

The Tilt driver has two proxies associated. One for the position and one for tilt. Note that on some motors tilt is driven by a single motor and as such tilting the louver will cause the main position to shift slightly between 95-100%. This is normal behavior.

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:

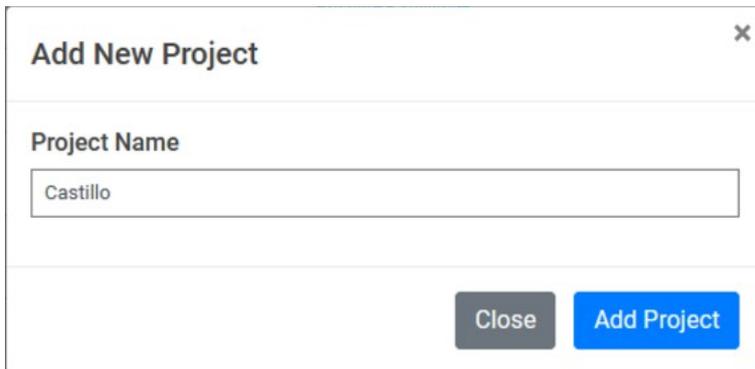
1) On driverCentral, purchase a license and register it to your project

1) If the driver is not already installed in your project, download it and install it

1) 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

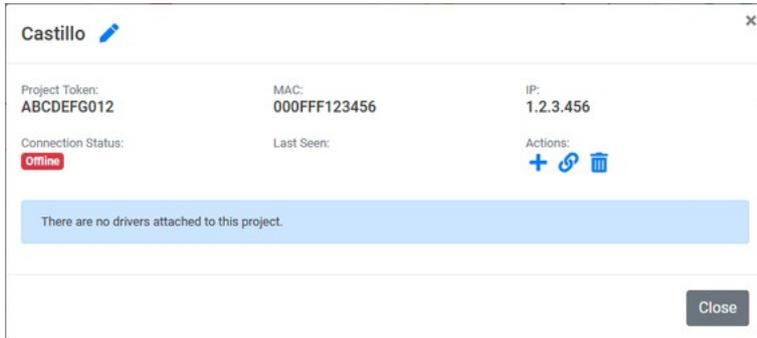


The screenshot shows a modal dialog box titled "Add New Project". It has a close button (X) in the top right corner. Below the title bar, there is a label "Project Name" and a text input field containing the word "Castillo". At the bottom right, there are two buttons: a grey "Close" button and a blue "Add Project" button.

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**

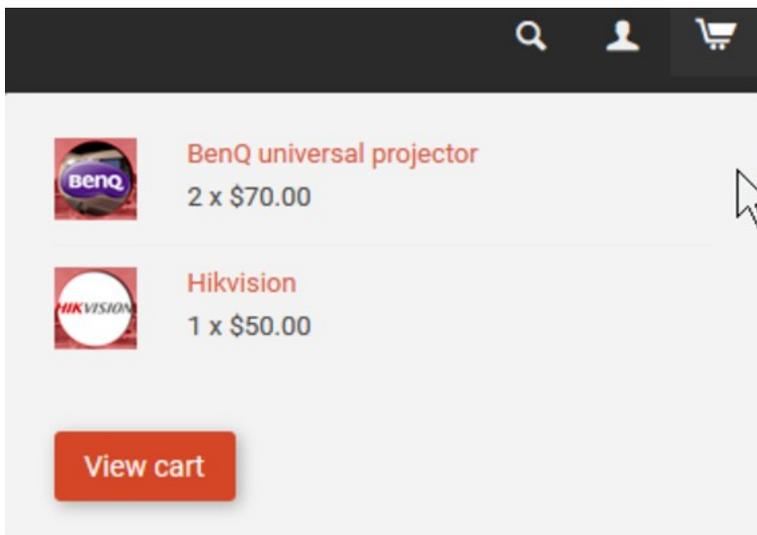
Purchasing a Driver Licence

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**



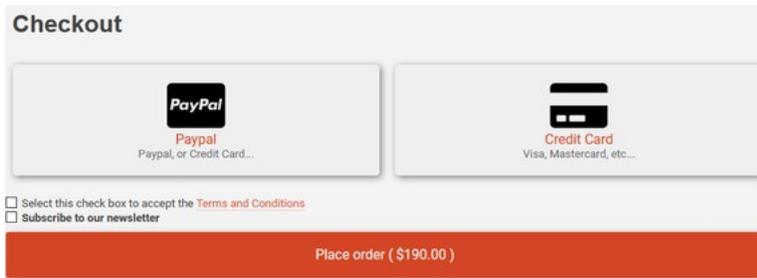
3. Now click the shopping cart icon (top right) and click **View cart**



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



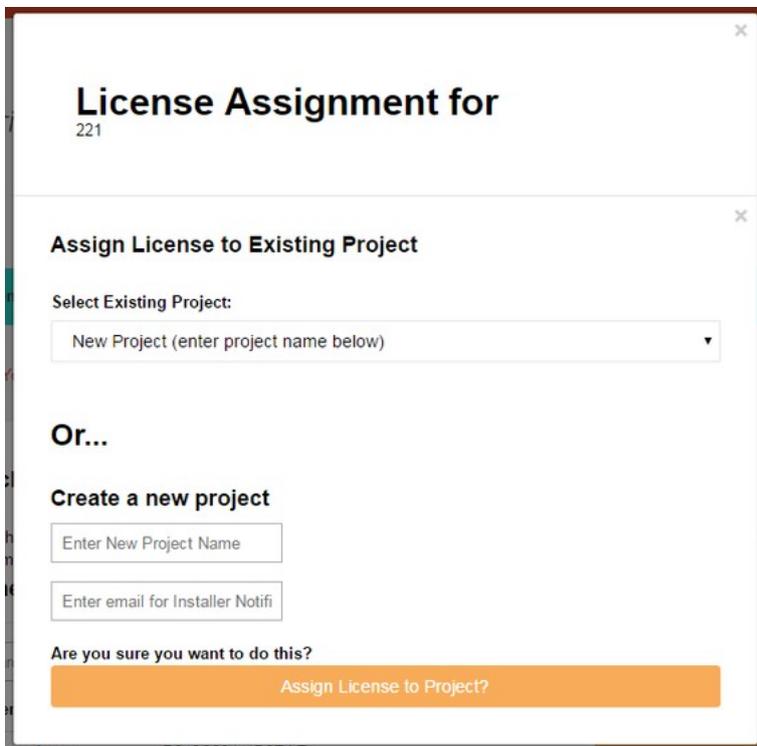
5. Choose your payment option, provide the relevant details and click **Place order**



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"/>