

Wireless Curtain Motor DT82TE

User Manual

Product Introduction

This Wireless Curtain Motor is a standard Zigbee PRO device, model IN-C01-WCM-DT82TE. It is able to seamlessly dock various Control4 Home Controllers. The Curtain Motor controls the open, close, stop and travel of curtain and supports real time motor status feedback. It also supports OTA (Over The Air) to update firmware online through Zigbee.

Product Features

- ▶ Seamlessly dock Control4 Home Controllers, such as HC200,HC300, HC250 ,HC800,etc
- ▶ Use the latest EM357 chip and EmberZNet5.1.2 protocol stack, perfectly docks to Control4 system
- ▶ Work as a router so that other Zigbee devices can join Zigbee mesh
- ▶ Uses Control4 BLINDS Proxy V2 to implement the open, close, stop and travel settings of curtains and supports real time status feedback
- ▶ Major functional features of this Wireless Curtain Motor includes position limit memorization, built-in remote control, automatic stop before obstacles, touch to start, manual operation when power off, long life time, third travel point, elegant operations, etc.; It is also compatible to original Dooya Remote.
- ▶ OTA support to update firmware through Zigbee online
- ▶ Preloaded low radio power firmware; high radio power firmware available through OTA update to enhance link quality

Packing List

The Following components are included in the package:

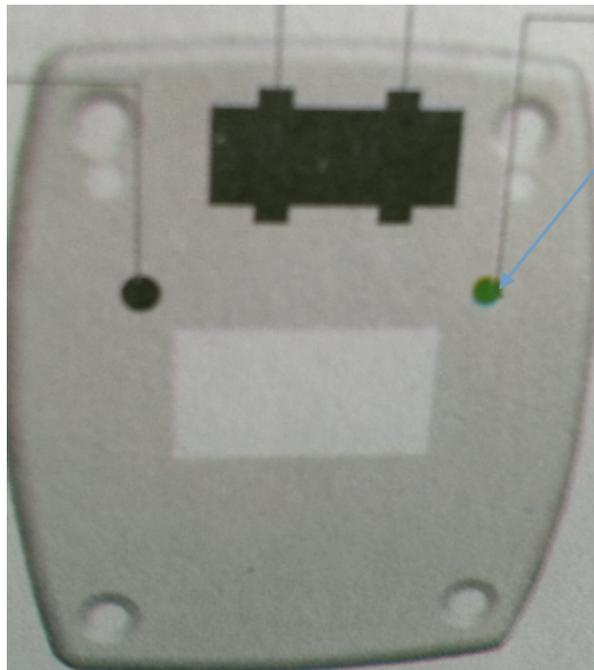
- ▶ Wireless Curtain Motor
- ▶ Driver Specification
- ▶ Installation and Instruction Manual

Module Appearance

Outline 电机外形图



Button



LED Indicator

Product Specifications

Power Supply	AC 200V/50HZ
Rated Current	0.2A
Communications	Zigbee, IEEE802.15.4, 2.4G, 15Channel No Barrier: 15 m With Barrier: 5 m
Safe Load	50 kg
Rated Torque	1.2 N/m
Open and Closing Speed	14 cm/s
Continuous Working Period	20 min
Operating Temperature	0°C ~ 60°C
Operating Humidity	5% ~ 95%
Maximum Limit Circle	∞ Turn
Maximum Track Length	≤12 m
Motor Weight	1.4 kg
IP Code	IP40

CAUTION: for safe use of this product, please strictly follow the specifications above.

Installation Instructions

1. Installation position of Equipment must meet the following requirements

- ▶ Within the range of Zigbee communicating network
- ▶ Keep way from other 2.4 GHz devices such as Wi-Fi, Bluetooth
- ▶ Keep away from metal objects

IMPORTANT!:Strictly follow the requirements above so that the product can work efficiently.

2. Install the hardware

Read the Installation and Instruction Manual for motor installation steps and precautions.

Setup and Configurations

1. Add Device

Visit www.insona.cc to download corresponding Wireless Curtain Motor Driver, Open “Composer”, Click “Driver→AddDriver”, select and load the filed downloaded “inSona_DT82TE_Motor.c4z” ;

Then add the motor device to project as shown in the diagram below:

The screenshot shows a search interface on the inSona website. At the top, a search bar contains the text 'DT82TE'. Below the search bar, there are several filters: 'Local' (checked), 'Online' (checked), and 'Certified Only' (unchecked). To the right of these filters is a 'Clear Search' link. Below the filters, there are three dropdown menus for 'Category', 'Type', and 'Manufacturer', all set to '-- All Categories --', '-- All Types --', and '-- All Manufacturers --' respectively. At the bottom of the filter section, there are two more dropdown menus: 'Control Method' set to 'All Methods' and 'Sort' set to 'Relevance'. Below the filter section, a search result is displayed in a box. The result shows 'inSona DT82TE Motor' as the main title, 'inSona' as the manufacturer, and '2018-08-04 13:27' as the date. A 'Local' badge is visible in the bottom right corner of the result box.

2. Driver Properties Introduction

The properties of the Wireless Curtain Motor in **Composer** interface are shown in diagram below:

Advanced Properties	
Properties	Actions
Firmware Update	2.3.2.5 is available
Blind Level	-1
UP DOWN Invert	NORMAL
Hardware Version	Not Available
Firmware Version	Not Available
Driver Version	1.36
Debug Mode	false
Log Level	1 - Warning
Refresh Time	Not Yet

Property Descriptions:

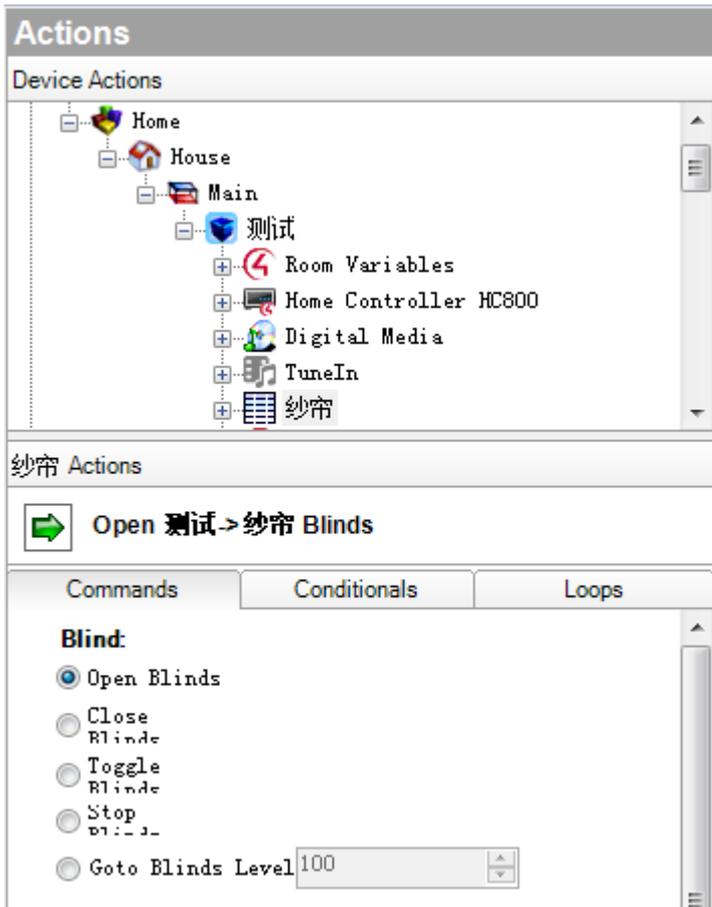
Current Blind Level	Real time display of motor status
UP DOWN Invert	Set the motor control status to Invert or Normal mode. The default is NORMAL.
Debug Mode	Manage driver log output
Hardware Version	Version of the hardware
Firmware Version	Version of the firmware
Driver Version	Version of the driver
Refresh Time	Last update time of the above information
Firmware Update	Provide update information and update status for the motor

3. Driver Events, Commands, Conditionals Description

Wireless Curtain Motor supports real time status feedback. The driver provide users with all Blind(V2) Event, command, conditionals for custom programming.

inSona Wireless Curtain Motor 2 Events

- Blinds Open
- Blinds Close
- Blinds Stop
- Blinds Level Chang

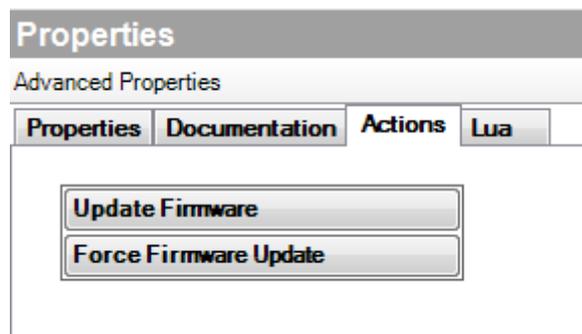


4. OTA Update Instructions

Wireless Curtain Motor supports OTA (over the air) update; user can update the firmware through Zigbee mesh. The **Firmware Update** in **Properties** Tab will display the latest firmware version when new updates are available.

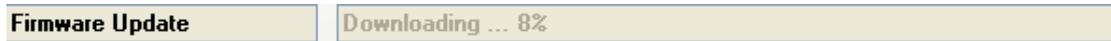


Switch to the **Actions** Tab if you want to update the firmware



Click Update Firmware button to start updating. The Firmware Update property in

Properties Tab will display the update progress. The new firmware will be downloaded to the device in proximately 15 minutes.



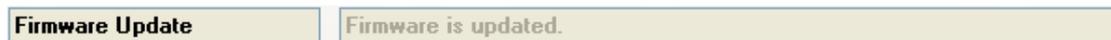
File verification will be performed after downloading.



CAUTION: The device will restart automatically and load the new firmware after verification. Do not cut off the power during the process as it may lead to non-repairable damage. Usually the loading process will finish in 3 minutes.



After the loading process, Firmware Update will display “**Firmware is updated**”, showing the operating firmware has been updated to the version of the driver.



If the update fails or you need to redo update or downgrade, use the **Force Update Firmware** button in **Action** Tab. The following process is the same to Firmware Update.

IMPORTANT: The current firmware update is manually operated. Please do not update multiple device firmwares at the same time, otherwise it will case the Zigbee mesh congestion leading to extended update time or even update failures.

Operation Display

- ▶ Press the button 4 times to start identifying, then the Green LED will start to blink; when the device successfully joined the network, Green LED will be turned off.
- ▶ Press the button 9 times to leave Zigbee mesh; when the device goes offline, the Red LED turns on.

This table describes the Button functions and LED status:

Button Tap Function	Button Sequence	LED status	Remarks
Power On		Red, Green and Blue LED blinks once successively, and red LED turns on	
Identify	4	Red LED starts blinking and Green LED turns on then goes off	Green LED turns on during the identifying process indicating that the device is interacting with home controller. When identifying finishes, Green LED goes off.
Working Status		The Blue LED turns on during motor motion, and will go off when motor stops	
Leave Zigbee mesh	9	Red LED turns on	1. If Red LED remains off, then the operation has failed. Please press the button 9 times again. 2. Users can't control the device until rejoining the Zigbee Mesh

Note: Please read Dooya User Manual for other operations related to the motor itself and Indication LED status descriptions.

Troubleshooting

- ▶ If you find the Green LED turns instead of the red when you started the motor, press the button 9 times to leave the former Zigbee mesh. Then press 4 times to join the network.
- ▶ If you find that the motor moves to opposite direction against control command, please set up the UP DOWN Invert Property as shown in the diagram.



For example, if you intended to open the curtain but the curtain closes instead, you shall set this property to **INVERT** to make sure the action is consistent with the actual motor control commands.

- ▶ For helps and other questions on this product, please visit our website at <http://www.insona.cc>