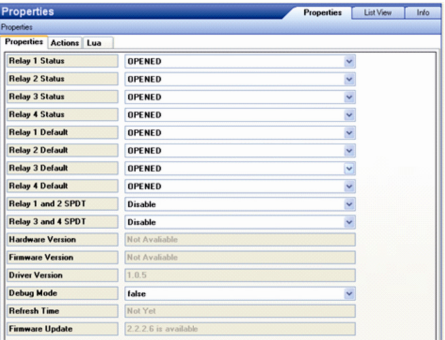


(2) Driver Properties Introduction

The Properties of the Wireless Relay in Composer are shown in figure below:

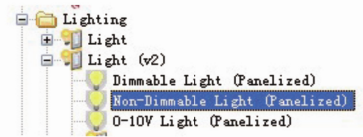


Meaning of these properties are:

Relay 1 Status/Relay 2 Status/ Relay 3 Status/Relay 4 Status	Real time display of Relay status
Relay 1 Default/Relay 2 Default/ Relay 3 Default/Relay 4 Default	Configure the default relay status when power- (relays are normally open)
Relay 1 and 2 SPDT/ Relay 3 and 4 SPDT	Configure Relay 1 & 2, Relay 3 & 4 as single- pole double-throw switch (SPDT). Note that it is an analog SPDT
Hardware Version	Hardware Version
Firmware Version	Firmware Version
Driver Version	Driver Version
Debug Mode	Control the log output of the driver
Refresh Time	Last update time of the information above
Firmware Update	Display the firmware version and OTAupdate information

(3) Getting Started: An Example

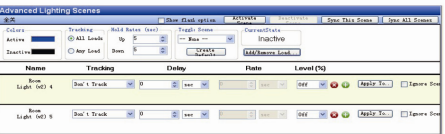
You need to add a light driver (see figure below) or any driver with Relay Input in Composer to control the state of the wireless relay. Also the light driver added supports Advanced Lighting Scene.



By connecting the Connections between two drivers, users can control Wireless Relay through the Control4 Light proxy or Relay proxy.

Control & Audio Video Connections				
Relay Wireless Data Proxy				
From	Type	Connection	Signal/On	Connected To
Control Outputs				
Relay 1	Control	RELAY	Output	
Relay 2	Control	RELAY	Output	
Relay 3	Control	RELAY	Output	
Relay 4	Control	RELAY	Output	
Panel Module 1	Control	PANEL_MODULE_1	Output	One-Press-Button-Relay
Panel Module 2	Control	PANEL_MODULE_2	Output	One-Press-Button-Relay
Panel Module 3	Control	PANEL_MODULE_3	Output	Light (v2) 4-Panel Module
Panel Module 4	Control	PANEL_MODULE_4	Output	Light (v2) 4-Panel Module

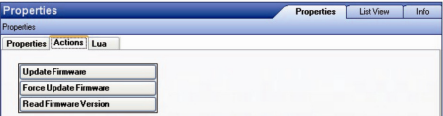
The figure below is the programming interface of advanced lighting scenes.



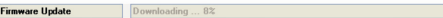
(4) OTA Update Instructions

Wireless Relay supports OTA (Over The Air), that means you can update firmware through Zigbee. The "Firmware Update" in Properties Tab will indicate the latest firmware version when new updates are available.

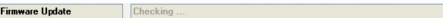
If you want to update the firmware, switch to Action tab:



Click Update Firmware button to start updating. The "Firmware Update" in Properties Tab will display the update progress. The new firmware will be downloaded in proximately 10 minutes.



File verification will be performed after downloading.



IMPORTANT!: 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 1 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 process is the same to Firmware Update.

Operation and Display

- Press the button 4 times for identifying, the Green LED starts 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 LED and Green LED blinks once successively, and red LED turns on	When the relay has joined the network and powered on again, the green LED will turn on a while and turn off, indicating rejoin process;
Identify	4	Green LED starts blinking then goes off.	If Green LED doesn't blink, you shall press the button 4 times again;
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;

Troubleshooting

- If the Wireless Relay is not working:
 - Check the Power Supply of the wireless relay.
 - Check the Zigbee network status of the wireless relay through Composer.
 - Make sure the Connections between drivers are connected according to the instructions.
 - Make sure the controlled device works normally.
- If you find the green LED is always on after the device is powered on, please press the button 9 times to leave the former Zigbee mesh. Then press 4 times to join the network.

- For helps and other questions on this product, please visit <http://www.irsona.cc>.

Regulatory Compliance

inSona Wireless relay complies with standards established by the following regulatory bodies: Federal Communications Commission (FCC) and Conformite Europeene (CE).

FCC

FCC ID: 2ACRFC01WR4

This device complies with Part 15 of the FCC Rules. Operation subject to the following two conditions:

- This device may not cause harmful interference;
- This device must accept any interference received, including interference that may cause undesired operation;

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CE

inSona declare that the product : Wireless Relay, Model Number IN-C01-WO, to which this declaration relates, is in conformity with the following standards :

EN 55022

EN 55024

EN 300328 (RF)

EN 301489 (RF)



Product Introduction

This Wireless Relay is a standard Zigbee PRO device, model IN-C01-WR-4. It provides four output Relays and seamlessly docks various Control4 Home Controllers. Users can remotely control relays to control devices with relay interface. It supports OTA (Over The Air) to update firmware online through Zigbee.

Product Features

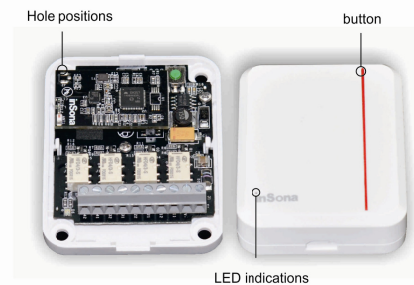
- Seamlessly dock Control4 Home Controllers, such as HC200, HC300, HC250, HC800, etc;
- Use the latest EM357 chip and EmberZNet5.1.2 protocol stack, perfectly docks to Control4 system;
- Work as a router so that other Zigbee devices can join Zigbee mesh via the wireless Relay;
- Provide four relays output contacts for relay-interface devices such as garage doors, electric curtains, projection screen, fireplaces, etc;
- Offer 30th Standard Relay Output and PANEL_NONDIM_LIGHT Output Connections (4 channels respectively), configurable to the actual needs;
- Provide users with a variety of standard outlet outputs, including Chinese National Standard, European Standard, American Standard and British Standard;
- 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 Relay
- User Manual
- 12 V AC-DC Adapter

Module Appearance



Product Specifications

Power Supply	AC 100V ~ 240V, 50Hz/60Hz
Output Power	0.5A @ 50V or less
Dimensions	70mm(D) x 55mm(W) x 20mm (H)
Communications	Zigbee, IEEE802.15.4, 2.4G, 15 Channels
No Barrier:	15 m
With Barrier:	5 m
Operating Temperature	-20℃ ~ 70℃
Operating Humidity	5% ~ 95%

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

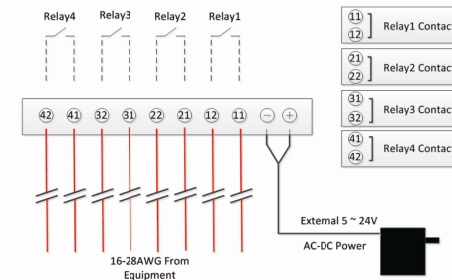
Installation Instructions

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. Hardware Installation Instruction



Wireless Relay provides 10 terminals, in which:

V+ & V-	External Power Input(AC-DC Adapter) +5V ~ +24V, Standard Voltage 12 V
Pin 11 & 12	Relay 1 Contact
Pin 21 & 22	Relay 2 Contact
Pin 31 & 32	Relay 3 Contact
Pin 41 & 42	Relay 4 Contact

- Connect positive and negative terminals of AC-DC Adapter (cable with white line is positive) to the positive and negative terminals of wireless relay respectively to start the module.
- Wireless Relay provides 4 relay contacts outputs that can interfaces with and controls external week current relay interface devices such as curtains and screens, etc.
- Installation Instruction:
 - Open the device shell;
 - Connect the cable and wires following instructions above;
 - Fix it to the wall using screws through the 4 gauge holes;
 - Close the device shell.

Setup and Configurations

(1) Add Device

Visit www.insona.cc to download Wireless Relay Driver. Open "Composer", Click "Driver->AddDriver", select and load "inSona_WirelessRelay_4.c4i".

Then add the relay device to project as shown in the figure below.

