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JALUZELE Dooya DC510

Instruction Manual for Dooya DC510 Wireless Shock Sensor

Brand: JALUZELE | Model: Dooya DC510

PRODUCT OVERVIEW

The JALUZELE Dooya DC510 is a high-precision wireless shock sensor designed for awning shutters. It sensitively captures subtle vibrations and is compatible with all Dooya emitters. This sensor operates on DC 3V (two AAA batteries) and has a working temperature range of -20°C to 55°C with an emission power of 10 milliwatt.



Figure 1: Front view of the Dooya DC510 Wireless Shock Sensor.

SETUP AND INSTALLATION

1. Battery Installation

The Dooya DC510 sensor requires two AAA batteries (number seven batteries). Open the sensor casing to insert the batteries according to the polarity markings. Ensure the batteries are securely in place before reassembling the unit.

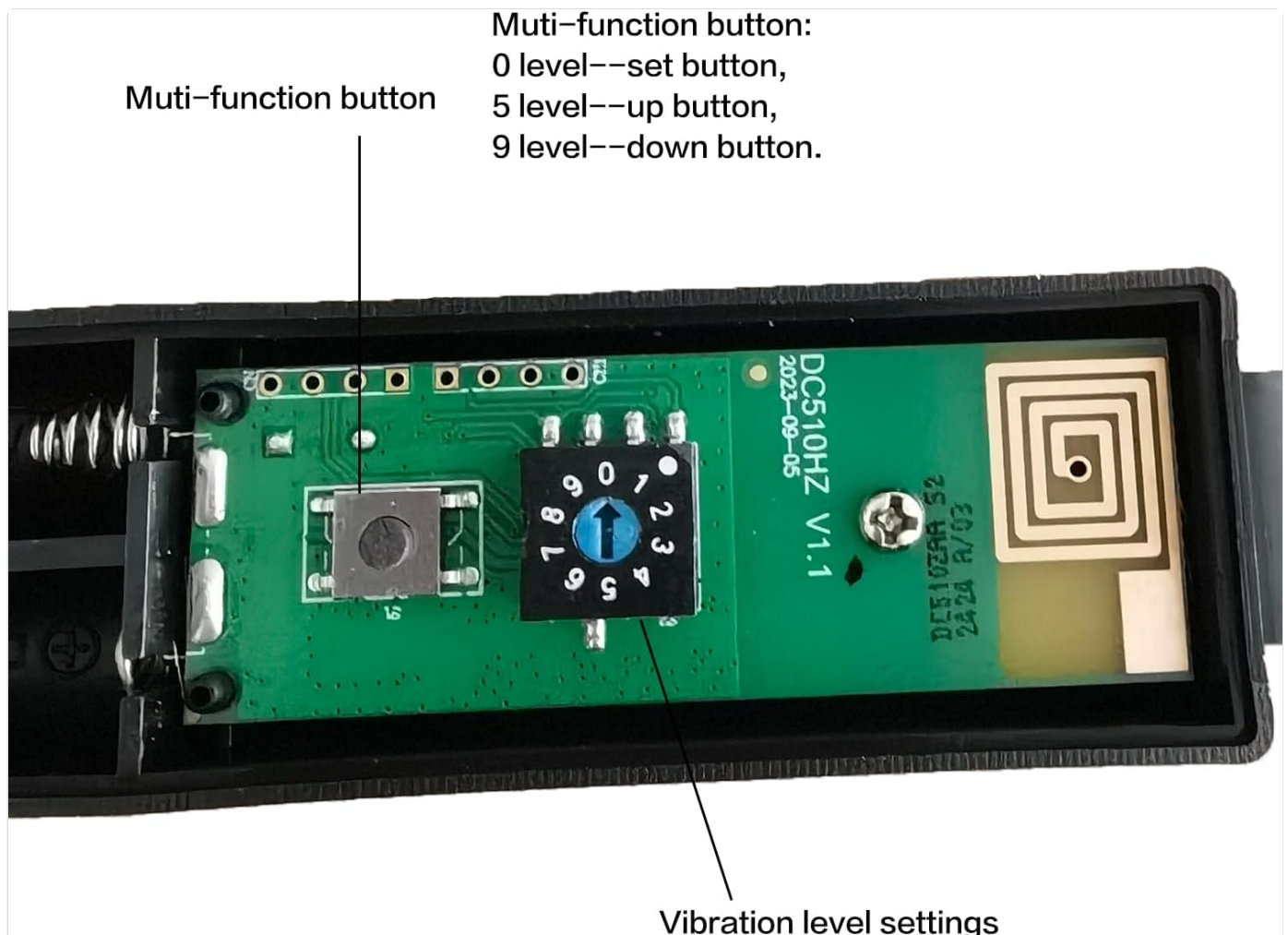


Figure 2: Internal view of the sensor, showing the battery slots and the vibration level setting dial.

2. Pairing with Dooya Emitter

To enable the sensor to communicate with your Dooya built-in receiver motor, it must be paired. Follow these steps:

1. Press the P2 button on the back of your Dooya remote control twice.
2. Press the vibrator multi-function setting button on the sensor once to pair.
3. A confirmation signal (e.g., a beep or motor movement) should indicate successful pairing.

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Video 1: This video demonstrates the pairing process for the Dooya DC510 shock sensor with a Dooya remote control and motor.

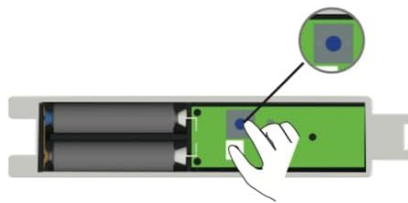
3. Setting Vibration Sensitivity Level

The sensor features ten levels of vibration intensity, from level 0 to level 9. You can adjust this setting based on your requirements. Level 1 is the most sensitive, while level 9 is the least sensitive. Level 0 senses nothing.

- **Multi-function button:** 0 level - set button, 5 level - up button, 9 level - down button.
- Use a small screwdriver to adjust the dial switch inside the sensor to your desired vibration level.



Set vibration grade:



open the outer shell,transmitters have 0 ~ 9 grades switch which used for dial the code for your choose



there are ten level of intensity of vibration, increase from level 0 to level 9 , and customers can set different class as per their demands. Only when the vibration strength reaches the certain set value, can the emitter be triggered and then emit signal to withdraw the roller blinds. The emitter will emit signal three times after it detects the vibration, thus can make sure to withdraw the roller blinds.level 1 is the most sensitive one,level 9 is the least.level 0 sense nothing.



place the cover after operation,it will enter the normal working statue.



Working principle:

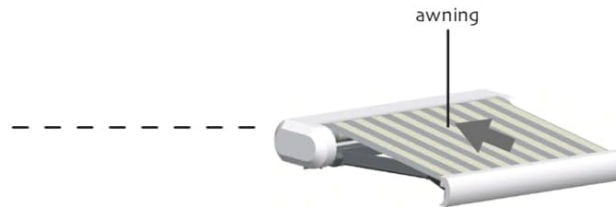


If vibration continues,the sensor will stand by after motor closed;If vibration happens randomly,the motor will standby directly.



DC510

When there is a vibration, reaching setting point, DC510 launch three times code.(30s quit the sense statue after one order is transmitted)



pack up awning

Figure 3: Detailed diagram illustrating how to set the vibration grade and the sensor's working principle.

4. Mounting the Sensor

The sensor is designed to be installed on the inner wall of the front beam of your awning or shutter. Ensure it is securely mounted using the provided screws and anchors.



Figure 4: Example of the sensor's installation location on an awning.



Figure 5: The Dooya DC510 sensor shown with its included mounting hardware.

OPERATION

Working Principle

The sensor operates by detecting vibrations. When the vibration strength reaches the set value, the sensor (emitter) is triggered and sends a signal to withdraw the roller blinds or awning. The emitter will send the signal three times after detecting vibration to ensure the blinds are withdrawn. If vibration continues, the sensor will stand by after the motor closes. If vibration happens randomly, the motor will stand by directly.

Compatibility

This product is designed to be used exclusively with Dooya 433MHz built-in receiver motors and can only be set to close roller blinds and sunshades. It is compatible with Dooya DC series remotes but not with Dooya DD series remotes.

Compatible with:



Dooya DC series Remote

Not Compatible with:



Dooya DD series Remote

Figure 6: Visual guide to compatible (Dooya DC series) and incompatible (Dooya DD series) remote controls.



433MHz only suitable for
DooYa built-in receiver Motor



Figure 7: The sensor's wireless capability and its application with various types of blinds and shades.

MAINTENANCE

Battery Replacement

The sensor features a low power consumption design for long battery life. When the battery voltage drops below 2.2V, the sensor will beep every 5 seconds to indicate that the batteries need to be changed. Replace the two AAA batteries promptly to ensure continuous operation.

TROUBLESHOOTING

Sensor Not Responding

- Ensure the batteries are correctly installed and have sufficient charge. Replace if the low battery warning is active.
- Verify that the sensor (emitter) is properly programmed with the Dooya receiver motor. If the emitter's programming

is deleted, the wind-sun sensor will become invalid. Re-pair the sensor if necessary.

- Check that the sensor is within the effective range of the Dooya receiver motor.
- Confirm that the vibration level setting is appropriate for the environment. If set too high (e.g., level 9), it may not detect subtle vibrations.

SPECIFICATIONS

Feature	Detail
Brand	JALUZELE
Model Name	Dooya DC510
Power Supply Voltage	DC 3 V (two AAA batteries)
Working Temperature	-20°C ~ 55°C
Emission Power	10 milliwatt
Product Dimensions	5.91"L x 1.97"W (approx. 15cm L x 5cm W)
Material	PC
Special Feature	Vibration induction with 10 adjustable levels
Compatibility	Dooya 433MHz built-in receiver motors (DC series remotes)

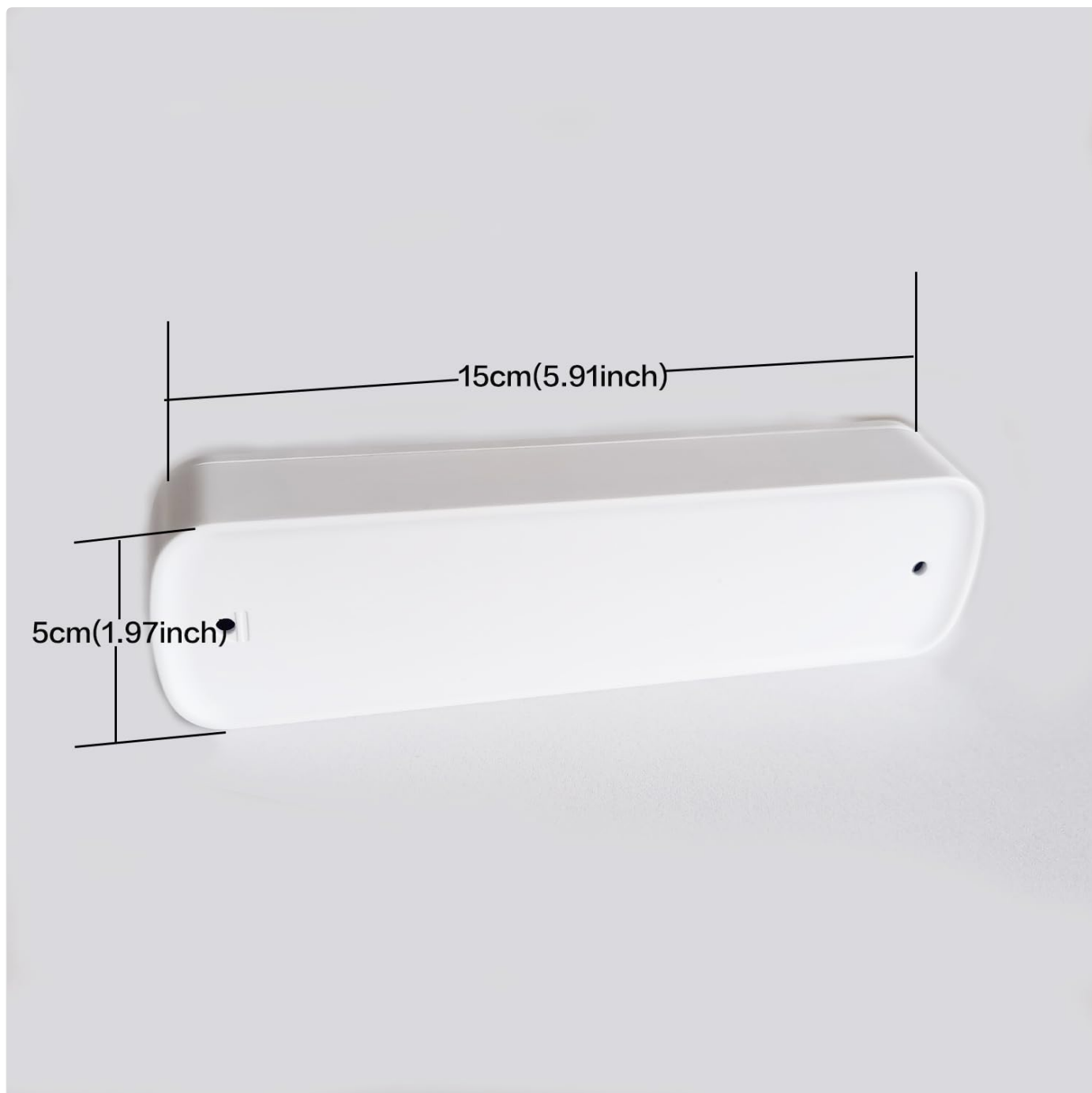
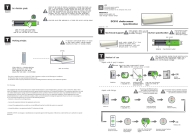



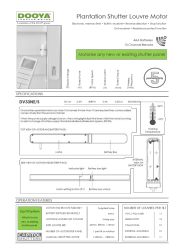
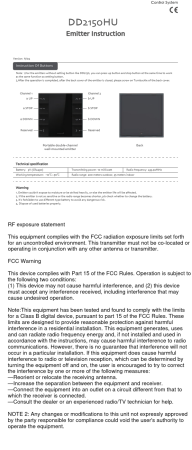


Figure 8: Physical dimensions of the Dooya DC510 sensor.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided by your retailer or the manufacturer, Shaoxing Gaodeng Window blinds co.,ltd. Specific warranty terms may vary by region and purchase location.

	<p>DOOYA DC510 Shake Sensor: Specification and Usage Guide</p> <p>Technical specifications, working principle, and usage instructions for the DOOYA DC510 shake sensor, model VYY51001, designed for controlling awning operations. Includes FCC compliance information.</p>
	<p>Eastern Metal Supply Manufactured Shutters: Hurricane Protection Solutions</p> <p>Eastern Metal Supply offers a comprehensive range of manufactured hurricane shutters, including Bahama, Colonial, Roll, Accordion, and Storm Panels. Discover durable, AAMA 2604 powder-coated options, advanced home automation integration, and essential maintenance tips for superior property protection.</p>
	<p>DOOYA DD2762HT 15-Channel LCD Emitter Instruction Manual</p> <p>Detailed instruction manual for the DOOYA DD2762HT 15-channel LCD emitter. Covers button functions, mode switching, lock/unlock operations, channel setting, technical specifications, warnings, and FCC compliance information.</p>
	<p>Sunchoice Retractable Patio Awnings: Elite & Classic Models</p> <p>Detailed overview of Sunchoice Retractable Patio Awnings, including Elite and Classic models, features, specifications, measurement guides, options, and fabric collections.</p>
	<p>DOOYA DV33NE/S Plantation Shutter Louvre Motor User Manual & Specifications</p> <p>Comprehensive guide to the DOOYA DV33NE/S Plantation Shutter Louvre Motor, covering installation, operation, specifications, and features. Includes details on battery replacement, remote pairing, and limit setting.</p>
	<p>DOOYA DD2150HU Emitter Instruction Manual</p> <p>Instruction manual for the DOOYA DD2150HU emitter, detailing button functions, technical specifications, warnings, and FCC compliance information.</p>