

Solar powered Wi-Fi Camera WWC500

User Manual

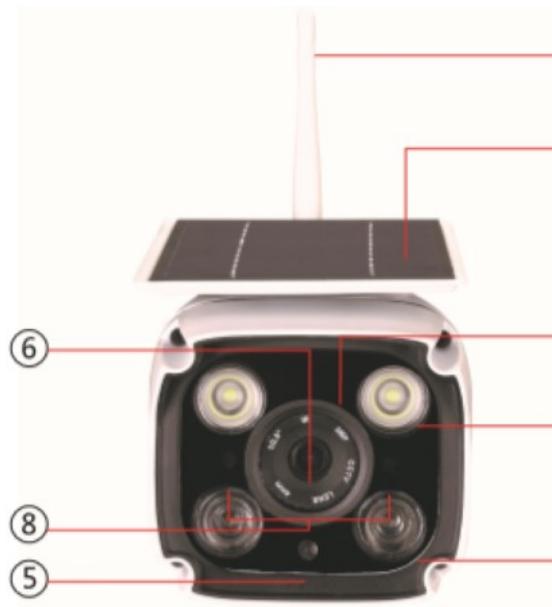


1. Introduction

1.1 Features

1. Use of solar power, and lithium batteries, which keep camera working all the time, when installed at outdoor.
2. Microwave Motion Sensor, by which, the camera start to shoot video within 1 second when detect the human or other object moving in covered range, and spontaneously send push notification to mobile APP;
3. Wake up from mobile app.
4. Supported 2.4GHz WIFI connection;
5. Manually switch night working mode, white-light source or infrared light source;
5. Automatically switch day / night mode, get clear video image at both modes.
7. Inductive Street light. The white lights will set on when there's people detected within covered range

1.2 Appearance



1. Solar panel: Charge the lithium batteries in the unit; Please try best to install it in places under direct sunlight, or use attached extender cable to install solar panel separately.
2. WIFI antenna: connect to WIFI router in WIFI mode, or Connect the mobile phone directly in AP hotspot mode.
3. White-light source: two white lights at front . Automatically switch on at night when detect moving object in covered area.
4. Infrared light: two infrared lights under lens at front. Automatically switch on during night time.
5. Light sensor: Sense the illumination, and judge as night time when less than 2Lus;
6. Lens: capture image video;
7. Microwave Motion sensor: When a person or a moving object is moving in front of the device, a trigger signal will be generated and sent to the main unit;
8. Indicator Light:
 - White Light On: solar panel is charging the battery.
 - Green Light On: Sensed moving object
 - Red light flashes slowly: AP hot spot working and the system is waiting for configuration, or work as AP mode.
 - Blue light flashes slowly: Working normally
 - Alternate flashing of red and blue: unconnected WIFI
9. Card slot waterproof cover: Please be sure to cover it properly.
- 10 Waterproof microphone
11. Power Switch: Power on camera at white light mode or infrared light mode;
12. Reset: Pressing and holding this button for 5 seconds, set camera to the factory setting (red light flashes);
13. TF card slot: 8G/16G/32G/64G are supported (Please format at FAT32 first before inserting);
14. USB port: For device updating.

1.3 . Specifications

Model/Name : Solar Powered Wi-Fi Camera

Model : WWC500-D2A-WD

Effective pixels : 2.0 megapixel

Resolution : 1920*1080

WIFI protocol: 2.4GHz, IEEE 802.11 b/g/n

Motion detection range : 0-10m/120 °

View angle : 78 ° (horizontal)

Working temperature: -20°C to 60°C

Working humidity: 0%-90%RH

Way of wake-up: HMD motion trigger / Remote APP wakeup by mobile phone

Power consumption : Daytime ≤ 2W nighttime ≤ 4W

Stand-by power consumption : 3mW

Solar panel wattage : 2.2W

waterproof grade: IP66

2. Installation, Settings

2.1 Set Camera Wi-Fi and add to App

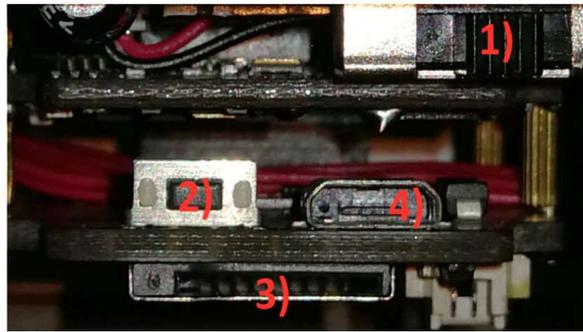
1. Power on the camera

Open white rub cover at camera bottom, If use SD card, insert it before power on.

Slide the power switch to one side

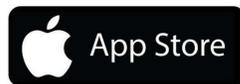
Left side: Power on with infrared light mode.

Right side: Power on with white light mode.



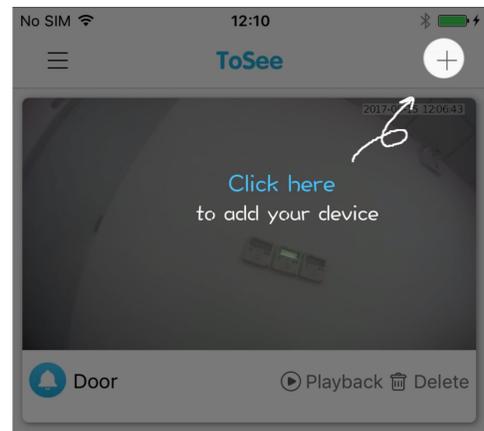
Keep contact facing reset switch side

2 . Download app "Tosee" from mobile app market and install it, open the APP, allow the app to accept push notification.

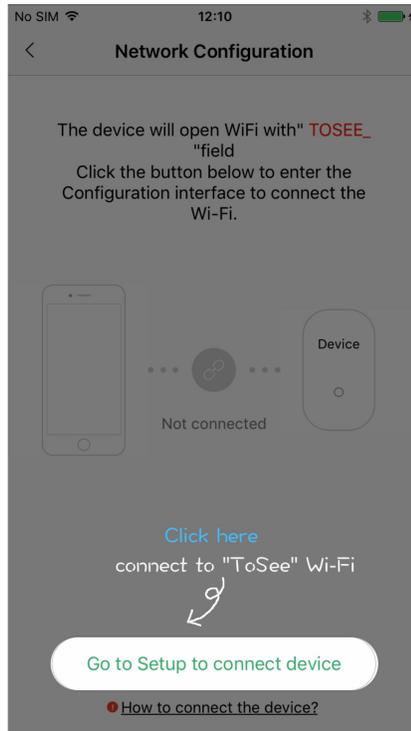
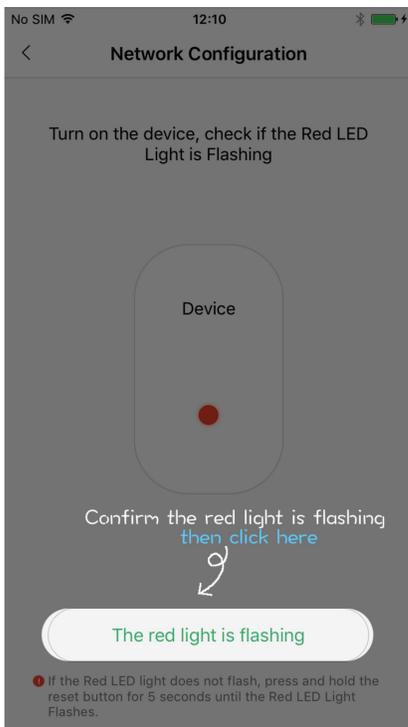


3. Open the top right corner + of the APP to add device, select Add a Device and enter the next step.

(Add a device shared from other, please select scanning QR code)

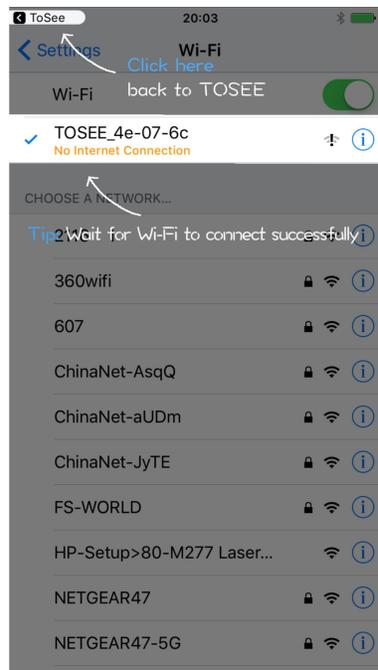
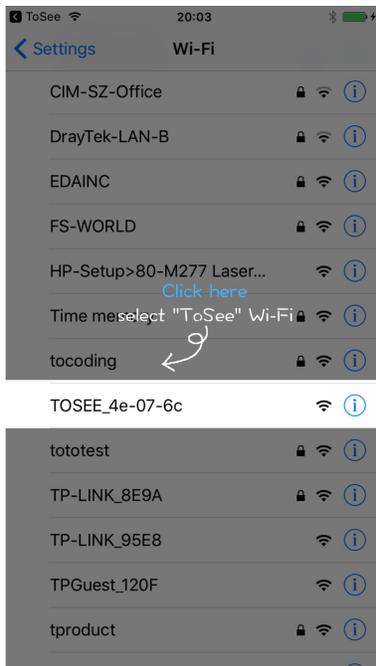


4. The red light of the device continues to flash Select the "Red light has flashed" and go to the next step. (if the blue light flashes, press and hold the reset button for 5 seconds to reset it to factory settings).

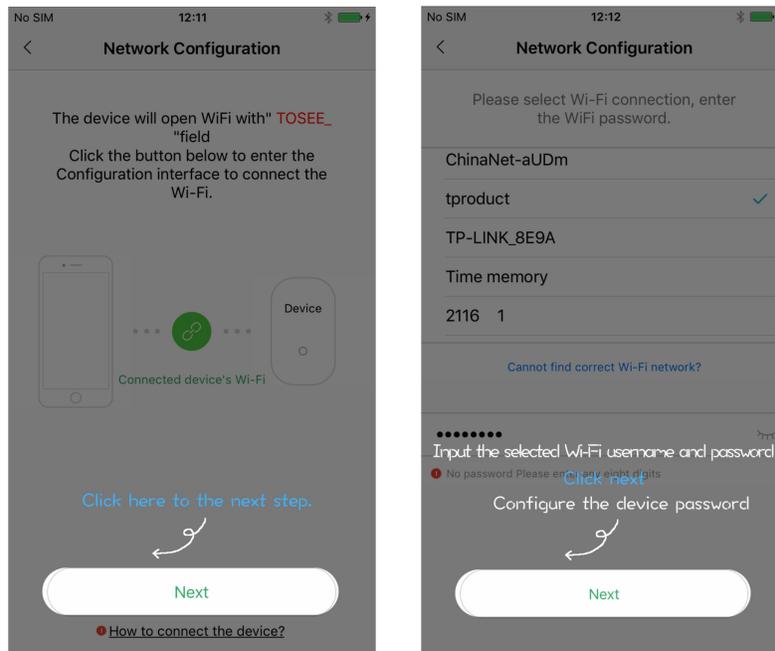


Check the help message, then push “Go to setup to connect device”. Wi-Fi access points is displayed.

5. From the list, selecting the camera access point “TOSEE_XXXX”, then click the bottom at top left, bring the display to TOSEE app.

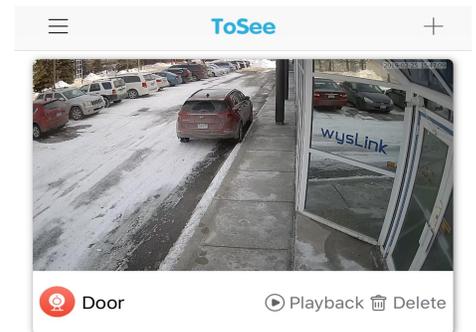


6. It shows connection icon at green, which means phone connect with camera directly. Puch “Next”, select the target Wi-fi access point to which camera connect, input the access password , then push “Next”.



7. Set the camera administrator password for the device, input the device name, then push “Next”.

8. Return at main screen, the camera is listed. Click to to lanuch camera main screen.

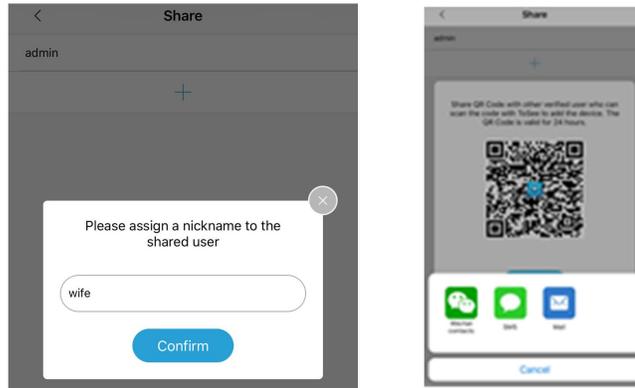


2.2 Share to others

Once it get connected, follow procedure below to set at other phone.

At administer phone :

Click the  Share key, enter the user nickname you want to share, and click "Confirm". QR code is displayed. Hard copy it, send to the target phone.



At target phone which share to

Select “Scan QR code, start to scan the QR code by camera, or push “Photo Album”, load the QR image.

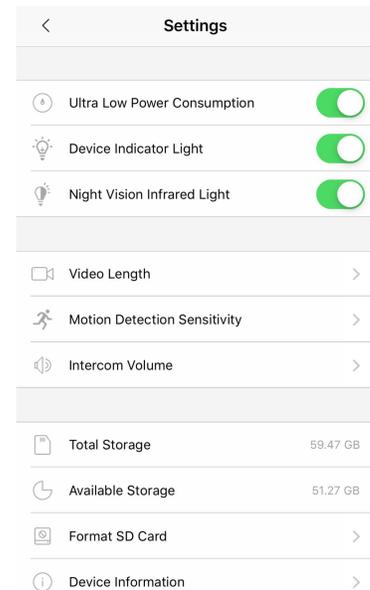
Once done, the camera will be on list as quest access.

2.3 Set parameters

Click icon , enter the settings page to adjust parameter, and view the device information. Follow the item title and hint message.

- Video length

Select video length from 15, 30, or 45 second from list. If select Closed, it mean no video clips are stored when motion is triggered.



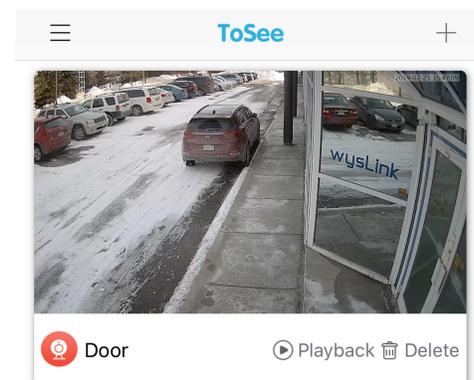
3. Use App ToSee

3.1 View live

Before access the camera, make sure the camera is connected to Wi-Fi network already. The no RED LED at front of camera is displayed.

After start the app ToSee, the devices are listed on main screen, click the target camera thumbnail, the live view screen is launched.

Please noted that it take about 10 second to connect with camera



since it need wait for camera wake up.

Icon operations

Volume : control speaker on an off

Playback : Launch playback screen

Scene : Select video process mode

Closed: show raw video from camera sensor.

Backlight Compensation: Select it when background is very bright, it make object at front bright

Infrared: force camera take night vision all the time

Highlight compensation: Select it when front is very bright

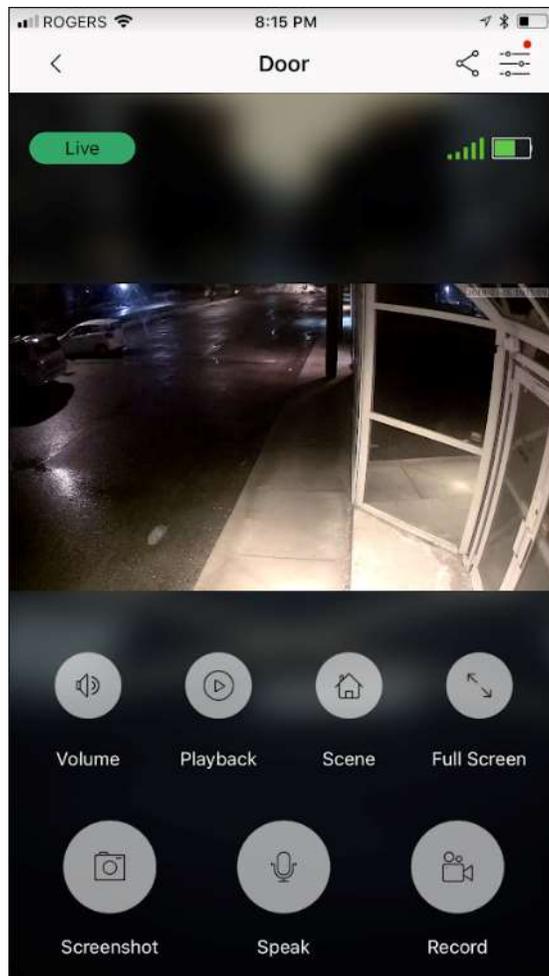
Motion Compensation : Get better video affection when have motion.

Wide Dynamic range: Automatically adjust the video dynamic range to get better video quality especially at dawn or early morning

Screenshot: take picture and save it to photo folder.

Speaker : Not used at this camera. There is no speaker at the camera.

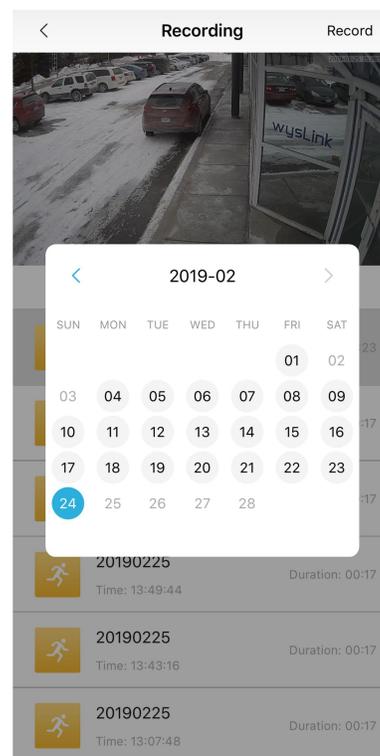
Record : push to start recording video on phone and push again to stop recording. The video is stored at photo folder.



3.2 Play event video clip

It is to playback the video clips stored on SD memory card.

Push the calendar icon, select the date, all the videos of the day will be listed up. Automatically played back from first one, then go to next.



4. Use AP hotspot

The camera is implemented with Wi-Fi hotspot access function. It works out when the Wi-Fi configuration has not been set yet, or after reset to factory default mode. Mobile phone can find it on Wi-Fi settings, and get connected with it. Once connected, video can be watched on the phone.

1. Switch on the device, the red lamp twinkles slowly (if the indicator light is under other status press the reset key for 5 seconds after switching on and reset to factory default mode), open the mobile APP (TOSEE), click to add the device, click Next, find the WIFI hotspot starting with TOSEE and click Connect.
2. After the connection is successful, back to the TOSEE software, click the two red letters "AP" in the upper right corner, switch the app to AP mode.
3. Set the camera WIFI hotspot password, this password needs to be remembered, then set the device administrator password, and set the device name; WIFI hotspot password is Wi-Fi password which have to be input when connect it next time, it is same as other Wi-Fi routers.
4. Back to app main screen, click on the camera thumbnail, wait 3-5 seconds to watch camera live video.

5. FAQ

Q1. What is the effective sensing distance, angle of the camera?

A: The sensing distance is within 10 meters, the scene available for shooting is 50 meters, and the angle is 120 degrees.

Q2. Can it be used if there's no electricity and network available?

A: Yes, as it is powered from 2x2000mAH lithium batteries, which are by solar panel.

Q3. Can it be monitored remotely by the mobile phone? How do I watch the video?

A: Yes, the camera is built for monitoring view from phone via internet as long as the camera is connected to network by Wi-Fi. If there is no network at the installing location, mobile phone can access it directly when the phone connect to camera by camera hotspot.

Q4. How long can it be used in places where there's no light?

A: It can takes about 1500 video clips if there's no light after charged battery for 2 or 3 days. Theoretically, it will never power off after being installed as long as the camera is installed at outdoor.

Q5. How many wattages is solar panel?

A: 2.2 watts

Q6. What is the video clip length?

A: Can select from 15, 30, or 45 seconds.

Q7. How long does the 32G memory card last? Is the automatic cyclic coverage available after memory is full?

A: It can record 28,000 times (15 seconds length), and it can be stored for 140 days by recording 200 times a day. When the memory card is full, it will automatically overwrite the earliest video. Up to 64G memory cards are supported.

Q8. What is the camera resolution?

A: 2 million pixels, 1920x1080.

Q9. Does the camera have a street light function?

A: Yes, there is an inductive street light function, and this function can also be controlled from app.