

IPC (Cell 3 series) Technical Document

1. Introduction

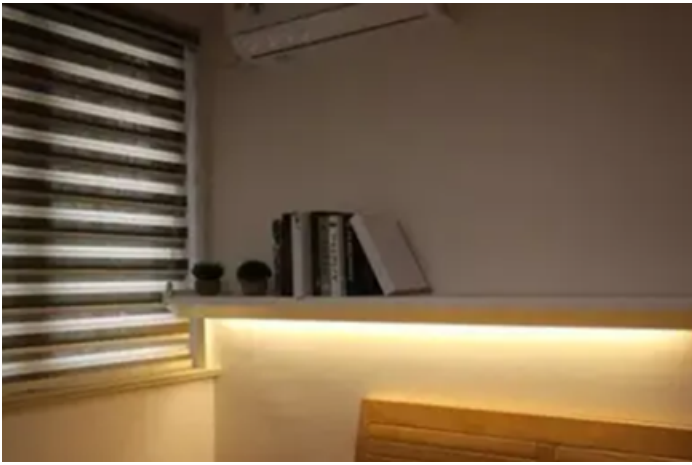
1.1 Introduction and Highlights

The Cell 3C is a 100% wire-free rechargeable camera that delivers well-rounded home protection for up to 120 days on one single charge. 3K , IP66 Weatherproof , Smart Full-Color Night Vision , Compatible with Amazon Alexa. Easy wireless installation, No need to connect your security camera to electrical wiring. 3W Solar Panel uses power from the sun to continuously charge Cell 3C providing non-stop peace of mind

-  **5MP QHD Video**
See more details than 4MP
-  **100% Wire-Free**
Supports 2.4 GHz Wi-Fi, Free of network cabling and power wiring hassles
-  **Rechargeable Battery**
DC 5V Power Supply Rechargeable Battery Power
-  **Siren & Spotlight**
Once an intruder is detected, the camera's spotlights and siren will be triggered or manually activated to warn off the would-be criminal.
-  **PIR Human Detection**
Discerns people and motion detection. More accurate alerts.
-  **Low-Battery Notifications**
Informs you when battery level goes down to 20%, 10%, so you can charge it in time.
-  **Two-way Talk**
Using variable sound when taking real-time talk with people in front of the camera
-  **Privacy Mode**
Device goes to sleep to protect your personal privacy
-  **Type-C**
Type-C interface with better adaptability.
-  **IP66**
Weatherproof for outdoor conditions
-  **Flexible and Secure Storage**
insert a micro SD card for local storage (up to 512GB).
-  **Works with Solar Panel**
Works with Imou Solar Panel for battery charging

1.2 Applicable scenarios





1.3 Device Parameters (only take cell 3C for example)

Specifications

Camera

1/2.8" Progressive CMOS
5MP(2880x1620)
Night Vision: 15m(49ft) Distance
2.8mm Fixed Lens, Max. Aperture F2.0
Field of View : 98° (H), 54° (V), 121° (D)
5000mAh Rechargeable Battery

Video & Audio

Video Compression : H.264 & H.265
Up to 15fps Frame Rate
8x Digital Zoom
Two-way Audio

Notice Management

Motion Detection
Human Detection、 Vehicle Detection
Configurable Region
Work mode

Storage

Local Storage: SD Card (Up to 512GB)
Cloud Storage: Imou Subscription Plan
Record, view, and save events in your Imou app with a 31 day trial of the Imou Subscription Plan.

Network

Wi-Fi:IEEE802.11b/g/n,120m Open Field
Imou App: iOS, Android

Auxiliary Interface

Built-in Mic & Speaker
Power on / off Button
Reset Button
SD Card Slot
Type-C

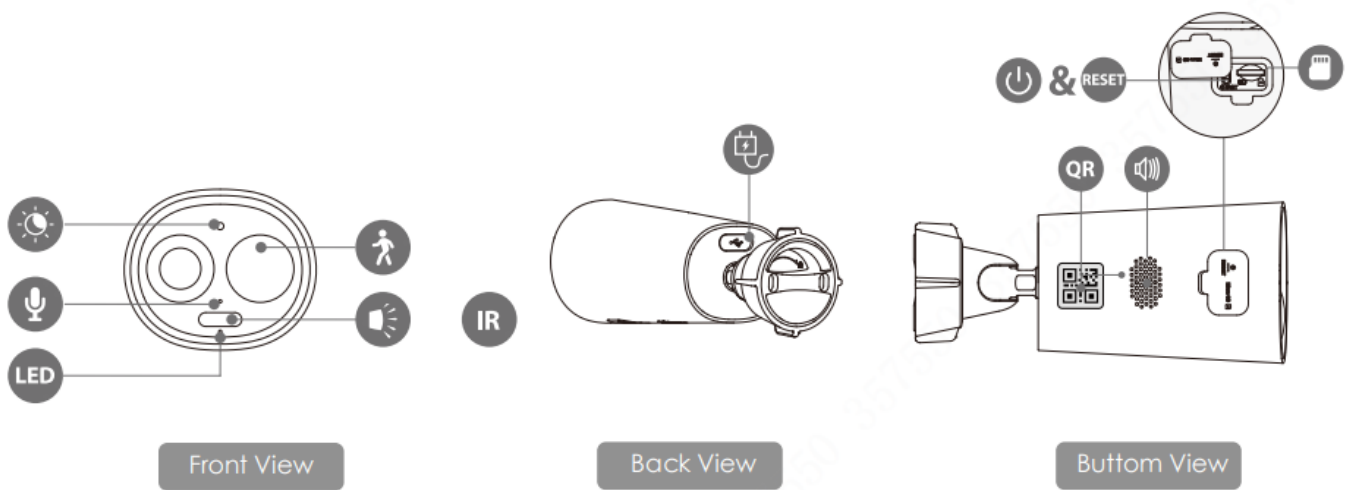
General

DC 5V 2A Power / Imou Solar Panel Supply
Power Consumption:<3W
Operating Temperature:-20°C~+50°C (-4°F~122°F)
Charging Temperature:-0°C~+45°C (32°F~112°F)
Camera Dimensions: 168.1 × 72.2 × 60.6mm (6.61 × 2.83 × 2.4inch)
Camera Weight: 267g (0.59lb)
Package Dimensions: 191 × 126 × 120mm (7.52 × 4.96 × 4.72inch)
Package Weight: 848g (1.87lb)
MSDS、 CE、 Alexa

2. Function and use of the product

2.1 Appearance

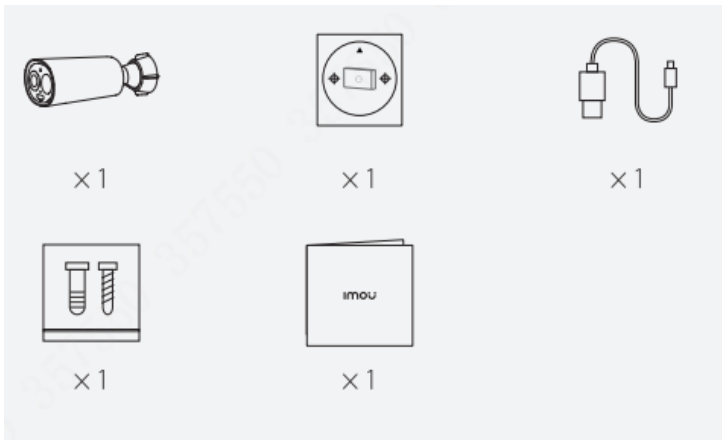




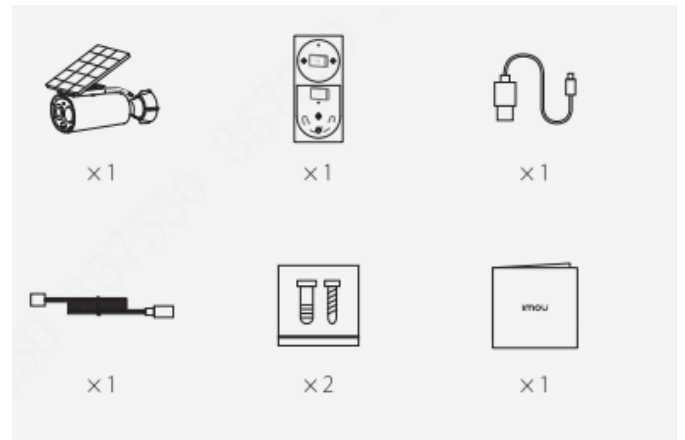
2.2 Indicator Light and Device Status

LED Status		Device Status
Blue	Flashing slowly	Charging
	Solid	Fully charged
Green	Flashing slowly	Ready to set up the device
	Flashing fast	Connecting to the router
	Solid	Booting Working properly
Red	Flashing slowly	Disconnected from the router
	Solid	Device malfunction
Red & Green	Alternating	Updating firmware (keep battery enough)

2.3 What's in the Box



Cell 3/3C

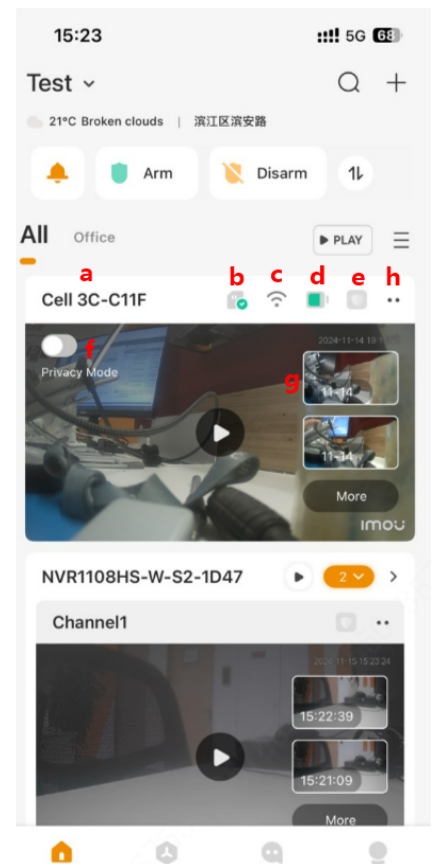


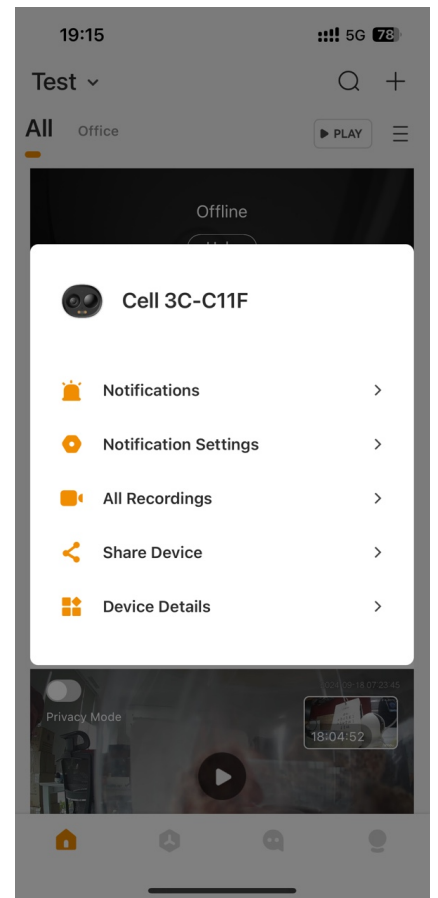
Cell 3C All In One (3W solar panel)

2.4 How to use

2.4.1 Home page

1. Do Not Disturb Mode
2. Product Card:
 - a. Custom name
 - b. Local storage
 - c. Wi-Fi signal strength
 - d. Battery level
 - e. Imou Protect
 - f. Privacy mode
 - g. Alarm thumbnail
 - h. More:
 - i. Notification
 - ii. Notification Settings
 - iii. All recordings
 - iv. Share device
 - v. Device details

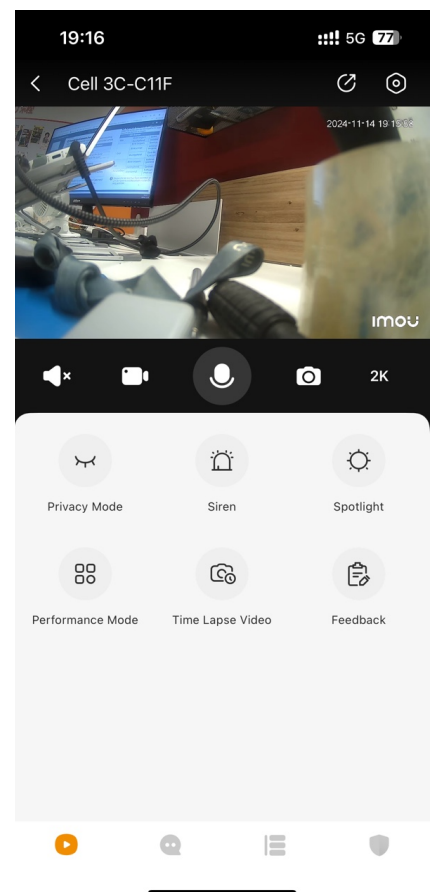




2.4.2 Live preview page

2.4.2.1 Live View

- a. Share device
- b. Device details
- c. Sound switch for real-time view
- d. Real-time view recording switch:
- e. Microphone switch: two-way talk when turned on
- f. screenshots: You can find and download screenshots in local files
- g. resolution: 3K, 2K, 720p
- l. Features: You can enable some features by one-click
 - Privacy mode: Turn privacy mode on/off
 - siren: The siren can be enabled or disabled by clicking it.
 - spotlight: You can turn the spotlight on or off manually.
 - Privacy mode: Turn privacy mode on/off



Performance Mode: working mode, including: standard mode, high-performance mode, Ultra power-saving mode, continuous recording mode, custom mode

Time Lapse Video: Time lapse video will take a series of images at

regular intervals over a period of time and combining them into a short video and photo album.

Feedback

k. Live View Page

l. Notification page: check the notification from triggered detection

m. Recording: You can check the recordings

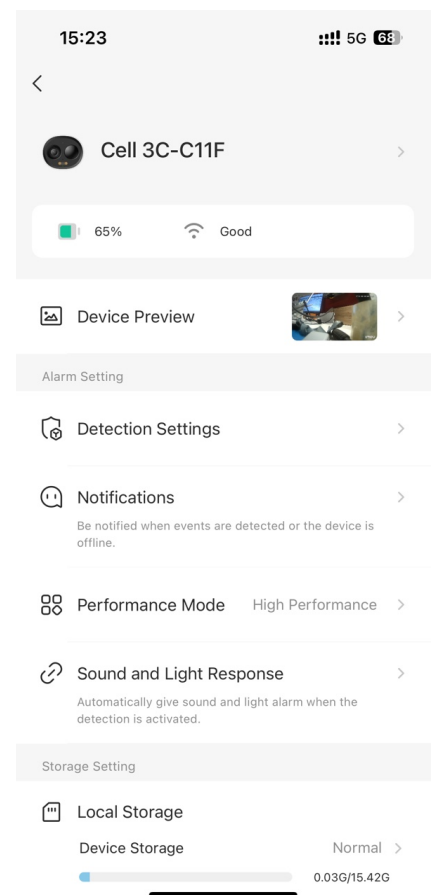
a. Cloud and SD card recordings

b. Cloud storage only saves the event. If you need to view the full video, you can view it on local storage

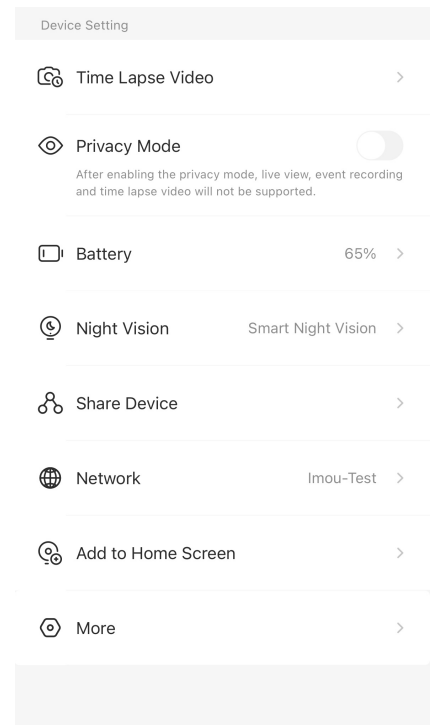
n. Imou Protect

2.4.3 Device details page

1. Device basic information: View device name, serial number , device label (QR code), firmware version and other basic information; modify device name and device password; user feedback.
2. Device environment information: battery level, Wi-Fi signal strength
3. Device preview: auto snapshot;custom
4. Detection settings: set motion detection, human detection, detection parameters (range, sensitivity , activity zone, detection schedule.)
5. Notification: enable notification button; push notification with thumbnails; device offline
6. Performance mode settings: standard mode, high-performance mode, Ultra power-saving mode, continuous recording; custom mode
7. Sound and light response settings: custom alarm sound and spotlight status



8. Storage settings: it will show the status of the SD card and the space.
9. Time Lapse Video: Time lapse video will take a series of images at regular intervals over a period of time and combining them into a short video and photo album.
10. Privacy mode: Turn the privacy mode on or off
11. Battery: Check battery level
12. Night vision mode: Set four different night vision modes as needed
13. Share Device
14. Network settings: When the device is online, you can directly modify the connected network through this entrance.
15. Add to Home Screen
16. More: More (indicator lights, sleep mode countdown, audio recording, HDR, Image Rotation, TLS encryption, date format, restart device)
17. Delete



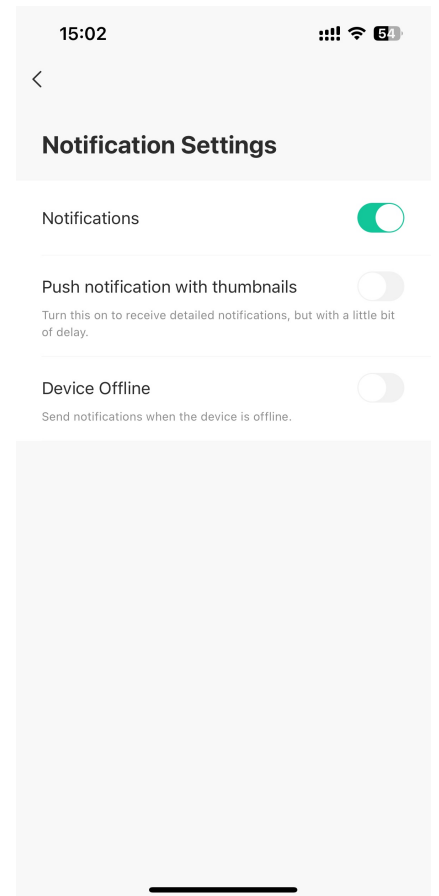
Delete

2.4.4 Detection settings

1. Detection switch: After turning on, start detection
 - a. Motion detection: When motion is detected, an alarm will be triggered (strong light, car exhaust, shaking leaves can all affect the accuracy of event detection and unnecessarily consume battery life).
 - b. Human detection: Advanced humanoid filtering based on PIR detection generates alarm events and videos only when humanoid events are triggered.
 - c. Vehicle detection
2. Detection sensitivity: can be set for low, medium, and high
3. Detection range: can be set near, medium, far
4. Detection zone: The orange part is the detection area
5. Detection time: Set the detection time by time period.

2.4.5 Notification

1. Switch for notifications ; no longer receive alarm messages from this device when turned off, turned on by default.
2. Push notification with thumbnails: When enabled, the push message will be accompanied by photos
3. Device offline: When enabled, it will push when the device is offline. It is turned off by default.



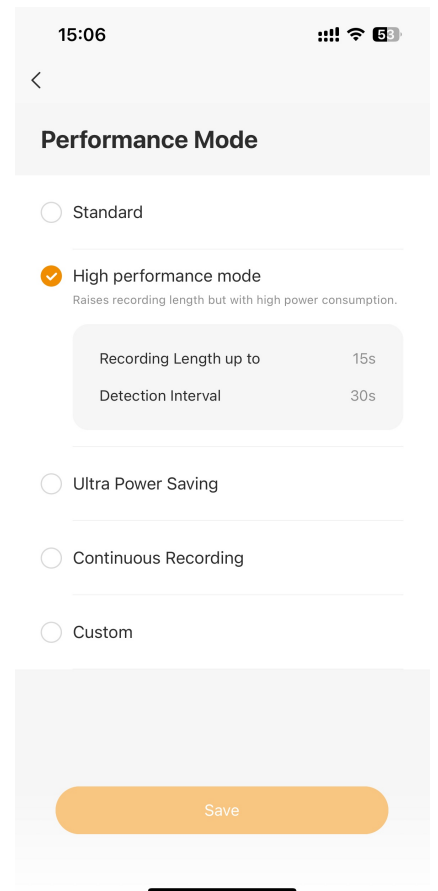
2.4.6 Performance mode

Adjust the recording duration and (twice) detection interval according to user request. There are five modes: standard, high performance, Ultra power saving, continuous recording , custom

1. Standard mode
 - a. Recording length up to 8s.
 - b. Detection interval is 60s
2. High performance mode
 - a. Recording length up to 15s.
 - b. The detection interval is 30s.
3. Ultra power saving mode
 - a. Only preview, no message notification or recording
4. Continuous recording mode
 - a. For uninterrupted recording, it is recommended to connect the camera to a power adapter or Imou solar panel.

5. Custom mode

- a. You can set the recording duration and detection interval by yourself.



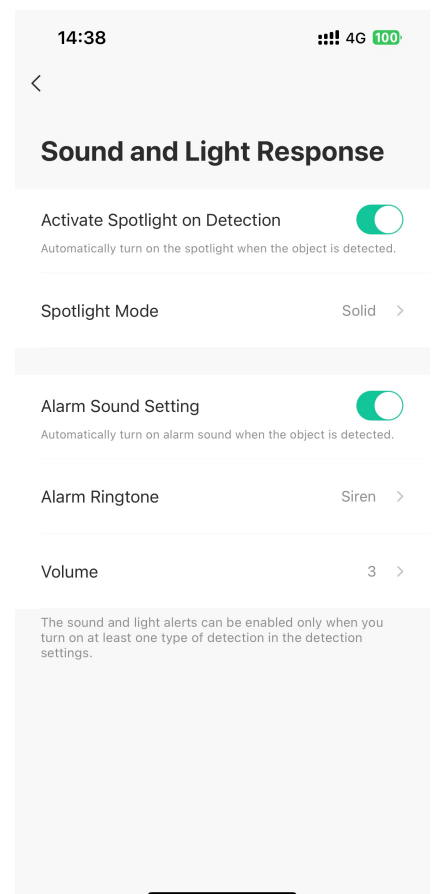
2.4.7 Sound and Light Response

1. Active spotlight on Detection: When the motion detection is triggered after being turned on, the device's spotlight will automatically turn on.

light mode: Solid/flashing

2. Alarm sound setting: When the motion detection is triggered after being turned on, the device will emit an alarm sound.

Customizable alarm ringtone (1 built-in, can add 3 10s custom ringtones) and adjust the volume.



2.4.8 Time-lapse Video

Time lapse video will take a series of images at regular intervals over a period of time and combining them into a short video and photo

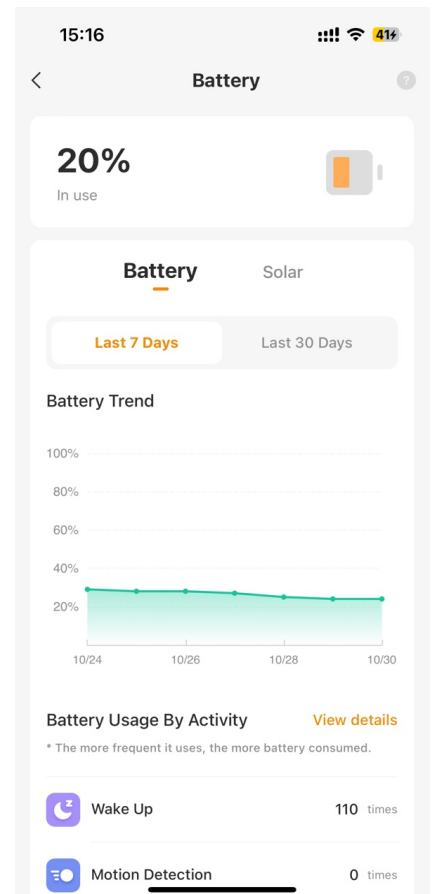
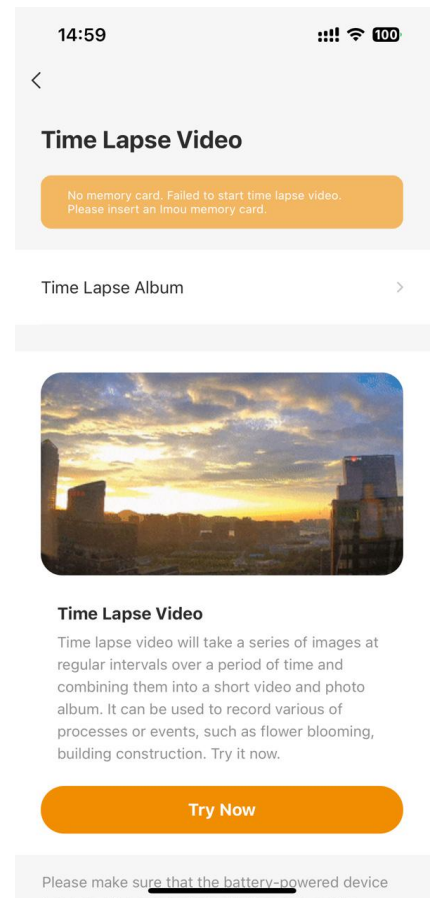
album. It can be used to record various processes or events, such as flower blooming, building construction. Try it now.

2.4.9 Battery Level

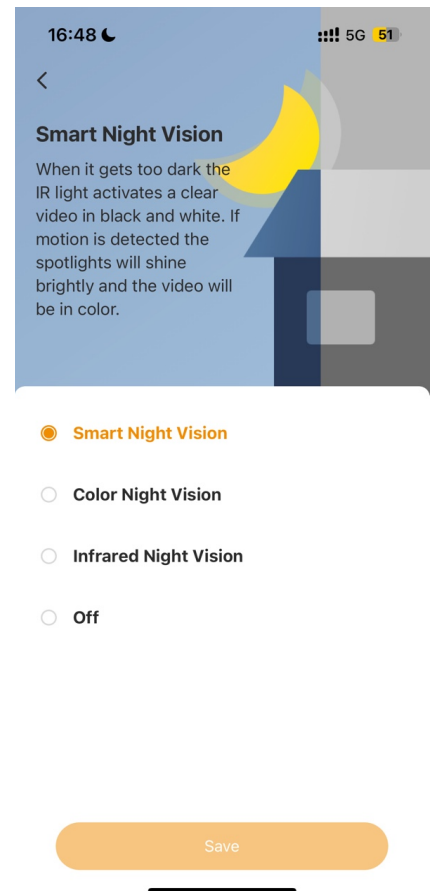
About charging method:

- Connect the charging cable to the device charging port (interface TYPE C, power 5V2A)
- Imou official matching solar panels
- Adopt power bank (5V2A) power supply

2.4.10 Night Vision Mode Settings



1. Smart night vision: color night vision/infrared night vision automatically switches according to the environment. The infrared light will automatically turn on when the ambient light is dim; when the camera detects object movement in the picture, the spotlight will turn on
2. Color night vision: Spotlight automatically turns on and stays on at night, while infrared lights remain off
3. Infrared night vision: Infrared night vision automatically turns on at night, and the image is black and white
4. Turn off night vision: turn off infrared and spotlight at night, and the video effect will depend on ambient light



2.4.11 Network

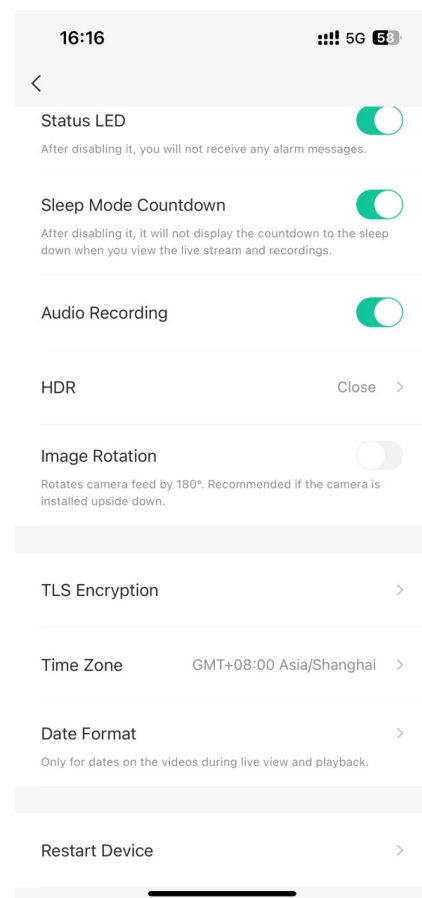
1. Network (Wi-Fi)

Reconfigure Wi-Fi information into the camera.

2.4.12 More

1. Status LED: Device indicator light switch
2. Sleep mode countdown: When turned off, the countdown to entering sleep mode will not be displayed when you view previews or recordings
3. Audio recording switch
4. HDR: It is recommended to turn on in backlit scenes with strong contrast on both sides of the screen; for example, when the device is installed indoors facing a bright door or window, Wide Dynamic defaults to turning off.
5. Image Flip: Rotate the image 180 °
6. TLS encryption
 - a. The devices involved in Lechange Cloud will encrypt all media stream data by default, regardless of whether TLS is enabled or not.

- b. TLS encryption is only the encryption of the transmission channel, further ensuring data security
 - c. When enabled, audio & video media data will be transmitted through encrypted channels, which may affect device performance
7. Time zone settings
 8. Date format: The date format is only suitable for previewing and playing the time on the screen
 9. Restart device: click it, the device will reboot.



2.5 Set up the camera

1. Get the Imou Life App: Scan the QR code on the box or search for "Imou Life" to download and install the app. Create an account and log in.
2. Power on the camera: Hold down the power button for 3 s to turn on the camera. The LED lights up in green when the camera is booting. If the LED flashes red twice and then turns off, the camera is out of battery. Please charge it with a 5VDC 2A power adapter or a solar panel (each sold separately).
3. Set up the camera: Open the Imou Life App and scan the QR code on the body of the device or on the cover of this guide with the app, and then follow on-screen instructions to complete the setup.

If you failed to Connect to WiFi During Initial Setup Process

Please check the indicator light of the device when it pairs unsuccessfully.

- a. If the light is flashing green, it means the camera can't be connected to your router. Please check if your Wi-Fi is 2.4GHz and you have entered the correct wifi password. If your router is dual-band, you can log in to the router settings on the web, turn off the 5G Wi-Fi switch, and only keep 2.4G Wi-Fi for connection. After the connection is successful, turn on 5G Wi-Fi again.
- b. If it has the same problem, you can try to connect the camera to the hotspot of another phone.

2.6 Device installation

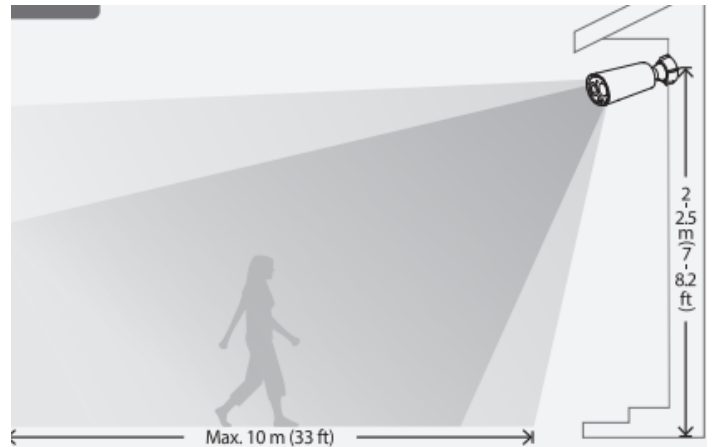
2.6.1 Installation Position

Installation height: 2-2.5 m (7-8.2ft)

Monitoring distance: <10m (<33ft)

Installation angle: the angle between the camera and the vertical wall is between

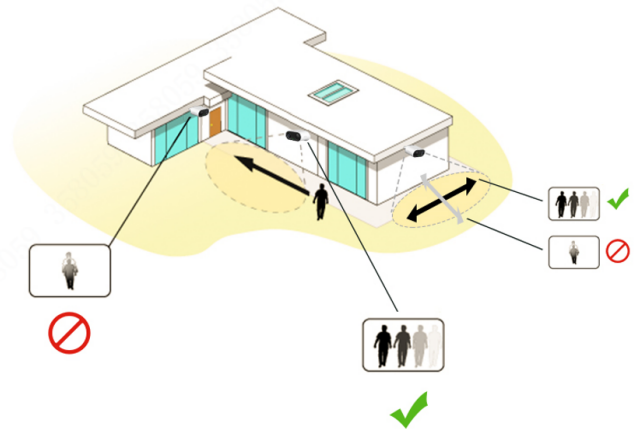
30°~60°



Camera Installation Precautions

To ensure cameras perform better, please...

1. Avoid pointing the camera at any heat sources, such as automobile exhaust and more.
2. Avoid installing near air conditioners.
3. Avoid pointing the camera to the mirror.
4. Avoid pointing the camera to walls or lawns.
5. Avoid installing the camera vertically (the bottom of the camera should not be perpendicular to the ground).

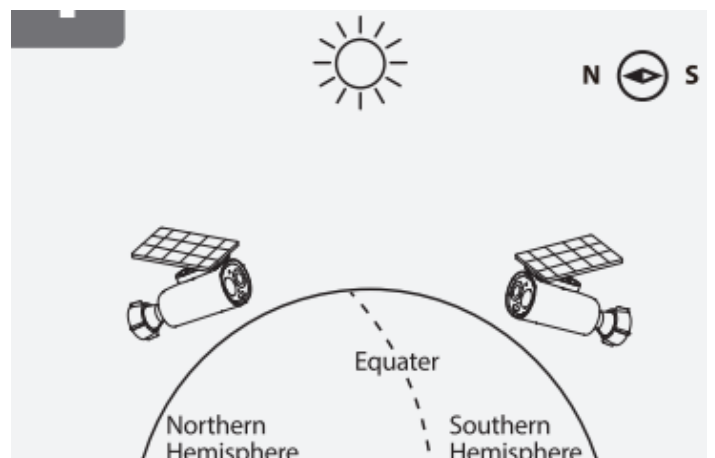


※You can refer to the image on the right.

2.6.2 For the solar panel

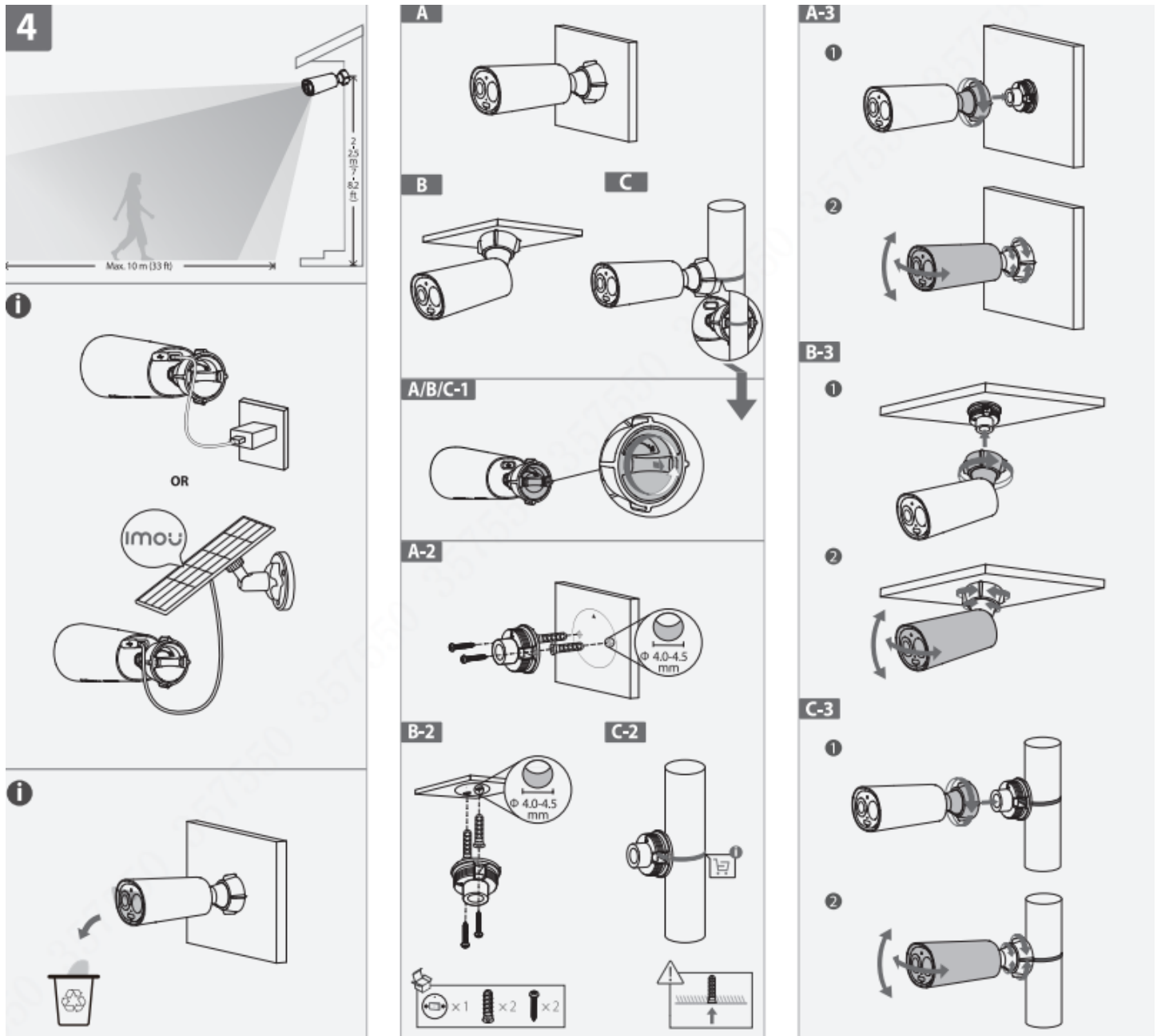
Select a location that receives the most sunlight throughout the year for the solar panel.

Position the solar panel southern facing (in the Northern Hemisphere) or northern facing (in the Southern Hemisphere), and tilt the panel at the same angle as the latitude of your geographical location.



2.6.3 Installation method

For Cell 3/3C , cell 3/3C Kit



For Cell 3C All In One

