IPCam

Product Manual

English Translation

Applicable version: 2.1.1

Original document date: September 10, 2026

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About this English edition. This is an English translation of the supplied IPCam Product Manual for version 2.1.1. Original interface screenshots are placed beside the relevant instructions in the main body. The image files have not been retouched, cropped, recolored, or edited; an adjacent English label key explains the visible Chinese controls. Camera scenes, device names, network addresses, and example storage values may differ from your device. In the screenshots, `cam0`, `cam1`, `cam2`, and `cam3` correspond to Cameras 1, 2, 3, and 4 respectively.

Interface language. This manual uses the English names of web-interface controls. If your device is currently set to another language, use the language button at the upper right of the web interface to select English. Labels may vary slightly with the selected language, screen width, camera count, and current view.

Reading guide

1. Connecting and signing in
2. Viewing live video
3. Adjusting the image and detection targets
4. Drawing areas that require attention
5. Configuring alert conditions, sound, and schedules
6. Saving and importing region settings
7. Finding, playing, and downloading recordings
8. Network, account, and everyday settings
9. Updating and restoring the device
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1 Connecting and logging in

1.1 Opening the device web page

1. Power on the device and connect the camera.
2. Connect your computer or phone to the same network as the device.
3. Open a browser and enter the device web address in the address bar.
4. When the login page appears, the device has been found.

- If using a wired network, the factory default address is http://192.168.1.227/.
- If using the device's Wi-Fi hotspot, after connecting to the hotspot usually open http://192.168.50.1/.
- If Direct Ethernet Connection mode is enabled, usually open http://192.168.60.1/.
- See Chapter 8 for configuration of these two connection methods.

1.2 Logging in and remembering login

1. Enter the username and password.
2. Only select "Remember login" on computers or phones you use frequently.

3. Click “Log in” to go to the Preview page.

- The factory default username is admin and the default password is admin. If an installer has already changed them, use the modified credentials. After first use, it is recommended to change the password at Settings → Account.
- “Remember login” reduces repeated logins but does not mean you will never be asked for a password. When the page prompts you to re-login, re-enter the username and password.



图 1 Original login screen; the screenshot pixels are unchanged.

1.3 Understanding the three main pages and the exit entry

Page or entry	What you can do
Preview	View live video, adjust image, select recognition targets, configure regions and alerts
Playback	Find recordings, play, download, and delete recordings
Settings	Manage network, password, time, and device updates
Top-right language button	Switch web interface language
Top-right moon or sun button	Toggle dark/light appearance
Exit	End the current session

When editing regions or settings, first save any content you want to keep.

2 View live video

2.1 View multiple cameras simultaneously

1. Enter “Preview” and click “All cameras” to view all currently connected cameras together.
2. The device can display up to four camera videos simultaneously. The page adjusts available views and split-screen options based on the number of connected cameras; when only one camera is present, there is no need to look for a multi-view button.
3. Colored regions indicate configured areas of interest. Small boxes are detection boxes for targets recognized by the device. The appearance and disappearance of boxes depend on the video, detection settings, and connection state.



图 2 Original All cameras preview; the screenshot pixels are unchanged.

English label key

Top navigation: Preview, Playback, Settings, language menu, Exit.

View selector: All cameras; Camera 1–4.

Right-panel tabs: Region, Image, Detection.

Region controls: All-camera ROI, Draw ROI on Video Stream, Save Configuration, Set Region.

Region names: Alarm and Ignore identify alert and exclusion regions.

2.2 Enlarge a single camera view

1. Click the “Camera 1”, “Camera 2”, etc. buttons above the video to view that camera individually.
2. To return to multi-view, click “All cameras”.
3. For multi-camera devices, when viewing one camera the right panel primarily shows that camera’s region settings. To edit alert rules that span multiple cameras or import a full set of region settings, return to “All cameras” first.

2.3 Split-screen layouts and position assignment

1. In the “All cameras” view, use the layout icons above the video to choose a split-screen layout. Available options depend on the number of cameras.
2. Click the adjustment icon next to the layout to open position settings. In each dropdown, select the camera to assign to that position to change which camera appears where. This adjusts only the current web view.
3. You can also drag video tiles with the mouse to reorder them.

2.4 Fullscreen viewing

1. Click the expand corners icon at the video top-right to make the video occupy a larger portion of the screen. Exit by clicking the collapse icon or pressing Esc on a computer.

2. In fullscreen some controls will hide after inactivity. Move the mouse or tap the video to reveal controls again. Whether mobile browsers allow true fullscreen depends on the browser.
3. Quick actions in the fullscreen top-right:

Button	Function
Button to show MSE or MJPEG	Switch viewing mode without exiting fullscreen
Eye icon	Temporarily show or hide region markers on the webpage; does not delete regions or disable alerts
Aspect ratio icon	Switch between “Fit to screen”, “16:9”, and “Stretch”

4. Choose “Fit to screen” to see the full image while keeping its original shape. “Stretch” will fill the screen but may make people and objects appear wider or taller.

2.5 Adjust the right operations panel width

1. On a computer, drag the divider between the video and the right operations panel.
    1. Drag left: enlarge the Settings area to make it easier to read long text and edit rules.
    2. Drag right: increase the video size.
    3. Double-click the divider: restore the default ratio.
2. If the right panel content is long, scroll inside the right panel to view lower options.

2.6 Choose the streaming mode

1. Entry: Settings → Preview mode.

Page name	Suitable use
MJPEG · Low Latency	Use when you want more immediate response from the video, or try if the other mode cannot play correctly
MSE · High Quality	Use when you want a balance of clear image and transmission efficiency

2. Click the desired option; the page will remember the choice. A brief reload when switching is normal. After selecting, return to “Preview” to see the effect; you can also switch in fullscreen on the preview page.

2.7 View device status

1. The bottom of the page shows version, continuous uptime, recording status, and connection status.
2. “Online” means the web page can still contact the device; “Recording” means the device is currently recording. To determine whether a specific camera is functioning, check whether that camera’s video is continuously updating and review its status message.
3. If the page indicates detection connection is recovering, wait for recovery. If prompted to re-login, log in again via the entry. If you see video but no detection boxes, check detection settings in Chapter 10.

3 Adjust image and detection targets

3.1 Adjust brightness and contrast

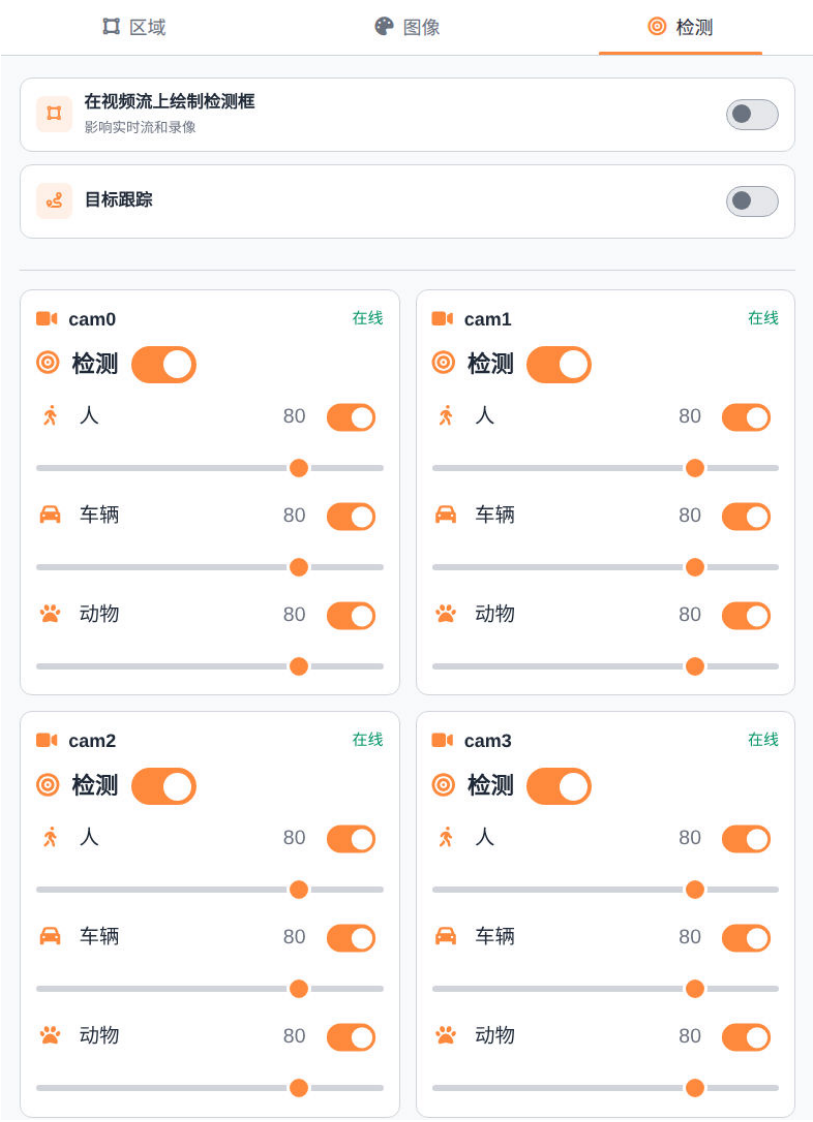
1. Entry: Preview → right-side “Image”.
2. Brightness: move right if the image is too dark; move left if the image is too bright.
3. Contrast: adjust the difference between bright and dark areas so object contours are easier to see.
4. Reset arrow: restores the corresponding item to the middle value 50.

Small adjustments while watching the image are sufficient. These items save automatically; you do not need to go to the region panel and click “Save Configuration”. This panel belongs to global image settings, not a separate copy saved per camera channel.

3.2 Choose the image color style

1. The row of color bars under “Pseudocolor” changes how the image colors are displayed. Click different bars to select the style that makes targets easiest for you to recognize.
2. You can choose between black-and-white, inverse black-and-white, and multiple color styles. Selecting a red-emphasis style reveals an extra slider to adjust at what brightness red begins to appear.

This feature only changes image appearance. Do not infer actual temperature from color alone; the current web page does not provide temperature readings.



English label key

Tabs: Region, Image, Detection.

Global controls: Draw Detection Boxes on Video Stream; affects live view and recordings; Target Tracking.

Per-camera status: Online.

Detection targets: Person, Vehicle, Animal.

Values beside the sliders are sensitivity settings.

图 3　Original Detection settings screen; the screenshot pixels are unchanged.

3.3 Select detected people, vehicles, and animals

1. Entry: Preview → right-side “Detection”.
2. Locate the camera card you want to configure.
3. Turn on the “Detection” switch for that channel.
4. Turn on the switches next to “Person”, “Vehicle”, and “Animal” as required.
5. Turn off any categories you do not want detected.

Each channel is configured independently. cam0 is camera 1; subsequent channels increment from there. Switch changes save automatically; if an error message appears, resolve the connection issue first and then confirm the switch saved successfully.

3.4 Adjust detection sensitivity

1. Each detection category has a numeric value and a slider with a range of 10–100.
2. Increase the number: makes detection easier but may increase false positives.

3. Decrease the number: makes detection stricter but may miss faint targets.

Keep the default values at first and observe the scene. Then make small adjustments to one category at a time. Settings save automatically when you release the slider.

3.5 Target tracking and embedding detection boxes into the video

1. “Target tracking” continuously follows the same target as it moves across the image. When enabled, the web UI can display related markers based on tracking results.
2. “Draw Detection Boxes on Video Stream” determines whether detection boxes are embedded into the device’s output image. This switch affects both live view and recordings. Boxes already written into recorded video cannot be removed during Playback.

These switches serve a different purpose than the detection-category switches below: one set controls display, the other controls which targets are detected. Changes save automatically.

4 Draw the regions to monitor

4.1 Recognizing the Region Editor

Path: Preview ⟶ Region ⟶ Region Editor.

1. Use this page to draw regions to monitor and regions to ignore on the image.
2. The page sometimes labels these regions as “ROI” — ROI stands for Region of Interest (ROI) and here means a user-drawn region.
3. Each channel can have up to 8 regions.
4. In multi-view, select the correct camera first, then draw or edit.
5. The region list on the right helps you find existing regions.



图 4　Original single-camera Region Editor; the screenshot pixels are unchanged.

English label key

Top navigation: Preview, Playback, Settings, language menu, Exit.

View selector: All cameras; Camera 1–4.

Right panel: Region Editor.

Tabs: Region, Image, Detection.

Main actions: Save Configuration; Draw ROI on Video Stream.

Region names: Alarm and Ignore.

4.2 Drawing rectangles, ellipses, and polygons

Tool icon	Operation
Arrow	Select an existing region, then move or resize it
Rectangle	After selecting, click and drag on the image; release to form a rectangle

Tool icon	Operation
Ellipse	After selecting, click and drag on the image; release to form an ellipse
Polygon	Click points along the boundary in order; after at least three points, finish with the completion button, double-click, or by clicking the starting point

1. When drawing a polygon, after at least three points appear you can finish with the completion button, double-click the left mouse button, or click the starting point to complete the polygon.
2. Before completing, you can continue to inspect each point to ensure it follows the desired boundary.
3. After drawing, verify the boundary is correctly placed, then click “Save Configuration”. Drawing alone does not save the region to the device.

4.3 Modify name, color, and area

1. Click a region in the list to open “Region Properties”.
2. Change the name to something descriptive, for example “Main gate entrance” or “Parking area”.
3. Choose the alert region color to distinguish multiple regions.
4. Use the Arrow tool on the image to move or resize the region.
5. Click “Save Configuration”.
6. If “Discard Edits” and unsaved prompts appear, decide whether to save or revert your changes.
7. The position and size numbers in the properties area are for reference only; you do not need to calculate them manually to draw a region.

4.4 Alert regions and ignore regions

1. Alert regions are areas that participate in alert detection. After drawing an alert region, go to Alert Rules to check whether this region is included in the rules and which targets to monitor.
2. Ignore regions exclude targets inside that area and are suitable for locations you do not want repeated alerts from.
3. Example: set the inside of the main gate as an alert region; set a fixed non-important activity spot in the scene as an ignore region. Do not mistakenly set areas that need protection as ignore regions.
4. After changing a region type, click “Save Configuration”.

4.5 Delete a region and clear the current channel’s regions

1. Delete a single region: select it and click the trash icon in the toolbar or on the right of the list.
2. Clear all regions for the current camera: use the reset icon in the toolbar and carefully confirm the prompt.
3. These changes require clicking “Save Configuration” to commit. If you made a mistake but have not saved, use “Discard Edits” to revert.
4. After deleting an alert region, check the associated Alert Rules.

4.6 Save, discard, and lock

Button	When to use
“Save Configuration”	Use after confirming the current regions, rules, and alert schedule are correct
“Discard Edits”	Use when you do not want to keep the current unsaved region, rule, schedule, or text changes
Lock icon	Lock after setup to reduce accidental changes; unlock when you need to modify

1. If you click the lock icon while there are unsaved changes, the page will require you to handle the modifications first. Follow the prompts to save and lock, or return to editing.
2. “Discard Edits” will not undo switches that were automatically saved (for example sound or alert output toggles).
3. On save failure, read the error message first. Unsaved content can be further modified or discarded; do not assume a click of “Save Configuration” means the save succeeded.

4.7 Write region boundaries into live view and recordings

1. Drawing an ROI on the video stream means embedding the region lines directly into the device’s output.
2. When enabled, this affects the live view and any recordings made afterwards; the switch auto-saves.
3. Turning it off does not delete regions and does not disable region alerts; the editing interface may still display regions for continued adjustment.
4. If region lines have already been written into a recording, those lines cannot be removed from the recorded video during playback.

5 Settings — Alert conditions, sound and time

5.1 Determine what situations require alerts

Entry: Preview ⟶ Region ⟶ Alert Rules. For multi-channel cameras, first select “All cameras”.
To complete an alert setup, follow this order:

1. Draw the alert regions in the Region Editor.
2. Add those regions in Alert Rules.
3. Select the targets to watch: “Person”, “Vehicle”, or “Animal”.
4. Decide whether any single condition triggers an alert, or multiple conditions must be met together.
5. Configure alert sound and allowed alert times.
6. Click “Save Configuration” at the top, then observe actual behavior.

Drawing regions only, enabling sound only, or enabling detection only does not constitute a complete alert configuration.

5.2 Add region conditions and select target categories

1. Click the “+” to the right of a rule, select the regions to add, then click “Add”. You may check multiple regions at once.

2. After adding regions, select “Person”, “Vehicle”, or “Animal” on the corresponding entry. Lit items indicate selection. Camera numbers before region names distinguish regions with the same name in different views.
3. Regions already added usually do not reappear in the addable list. If the list shows no selectable regions, check whether you have drawn regions of type “alert” and whether the corresponding camera still exists.

The “Any”/“All”/“At least” setting determines how different target categories within a region relate to each other.

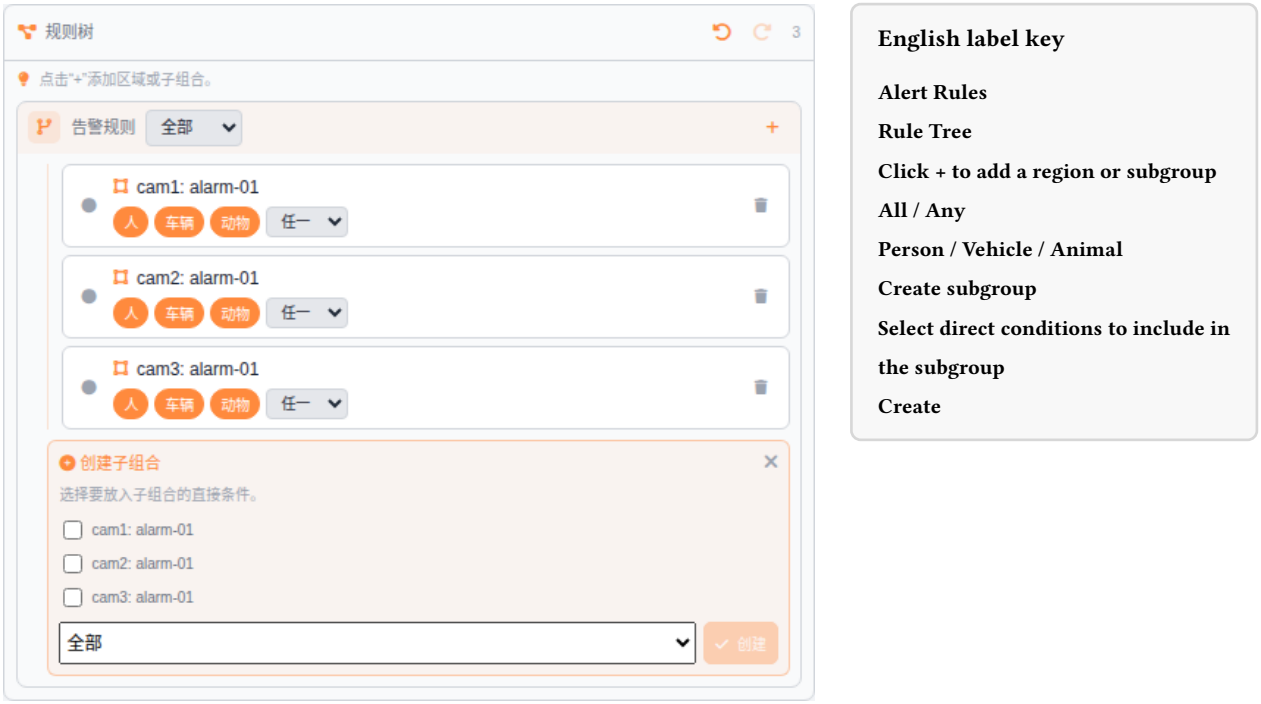


图 5　Original Alert Rules screen; the screenshot pixels are unchanged.

5.3 “Any”, “All”, “At least” selection

Selection	Plain-language explanation	Example
Any	Satisfied when any one condition is met	Any target found at the main gate or parking area
All	Satisfied only when every condition is met	Targets found at both the main gate and the parking area
At least	Satisfied when a specified number of conditions are met	At least two of three regions detect targets

The “Any/All” option in a region entry selects the relationship between different target categories inside that region. For example, if you check both Person and Vehicle and then choose “All”, that region requires both categories to be present simultaneously.

For normal use, start with “Any” and review results before adding more complex conditions. After editing, click “Save Configuration”.

5.4 Combined conditions, undo and redo

When you need more complex logic, open the expanded panel with “+” and create a combination group, place existing conditions into the group, then set “Any”, “All”, or “At least” for that group.
Example: “Main gate has a person” and “(parking area has a vehicle) OR (side gate has a person)”. Put the parking/side conditions into a group, then combine that group with the main gate condition.
The curved arrows at the top right of the rules area are Undo and Redo for rule edits. The dissolve icon on a group removes that grouping level; the trash icon removes the corresponding condition. Finally, click “Save Configuration”.

5.5 Read the rule relationship diagram

The connection-lines icon at the top of the rules panel shows or hides the relationship diagram. It helps you see how regions on the video connect to alert rules.
The diagram is a visual aid only, not an additional alert switch. To change alert requirements, modify the options in the rules on the right and save. If the diagram obscures the video, hide it and open it later to verify rules.

5.6 Time window for multi-view joint decisions

When multiple cameras are judged together, “Cross-camera match time window” determines how far apart results from different channels can be and still be considered together.
The page unit is milliseconds; 1000 milliseconds equals 1 second. Different camera streams may not arrive simultaneously; if unsure, keep the existing value. Single-channel devices that do not require cross-camera judgment may not display this item. After modification, click “Save Configuration”.

5.7 Check rules with simulated detection

In “real-time simulated detection”, click “Person”, “Vehicle”, or “Animal” corresponding to a region to simulate that a target of that type appears there.
Observe the top display for “Triggered” or “Not triggered” to verify whether the combination matches your expectation. Click again to cancel the simulated target.
This only rehearses rules in the web page; it does not create real targets on site and does not actually drive alerts. To verify sounds, wired output devices, and on-site recognition performance, test those separately.

5.8 Keep alerts for a short time

If an alert stops immediately after a target disappears, sounds or external alert devices may toggle repeatedly.
Enable “Enable alert de-bounce hold” — think of it as “keep the alert for a short time after triggering”. The hold duration can be set to 1–10 seconds.
When alert conditions stop being met, the device maintains the alert for the configured duration. This group belongs to alert output settings and is saved automatically.

5.9 External alert devices, device sound, and web prompt sound

Page item	Actual effect
GPIO physical output	Send control signal to connected external alert devices, e.g., warning lights
Device board sound	Play sound from speakers connected to the device
Browser / client prompt sound	Play prompt sound on the computer, phone, or head-unit where the current web page is open

You can enable the three methods separately. Sound items can also have independent volume controls; device volume is not the same as web prompt volume.
These switches and volumes are saved automatically. Web prompt sound is also affected by the computer or phone's mute and media volume settings; browsers may require a click on the page before playing sound.

5.10 Replace prompt sound, preview, and restore default sound

1. Click "Upload WAV" and select the prepared sound file. The file must be .wav and 0.1–30 seconds long; the page will indicate if it does not meet requirements.
2. Use "Test device sound" to check the device speaker.
3. Use "Test web sound" to check whether the current computer or phone can play the prompt.
4. After using a custom sound, the page provides an entry to restore the factory sound.

After upload, verify that the current audio shows as a custom sound. Changing and restoring sounds take effect immediately and do not require clicking "Save Configuration" for regions.
Previewing actually plays sound; set volume to a safe level first.

5.11 Choose always armed, paused, or time-based arming

Scroll down to "Alert arming time". On the page, "Armed" means "allow alerts according to rules"; "Disarmed" means "temporarily do not follow rules".

Arming mode	Meaning
Always armed	Allow alerts whenever rules are met
Always disarmed	Pause alerts
Per weekly schedule	Allow alerts only during scheduled time periods

After choosing, click "Save Configuration" at the top. The "Armed/Disarmed" indicator above shows the current actual state; do not judge only by unsaved selections in the dropdown.



English label key

Alert arming time; Armed; Arm mode

Per weekly schedule; Temporary manual control

Arm now; Disarm now

Weekly schedule; Copy Monday to all

Monday through Sunday

Add time period; All day

Special dates; Add special date

Special dates take priority over the weekly schedule.

图 6　Original alert arming schedule; the screenshot pixels are unchanged.

5.12 Set weekly alert times

After selecting “Per weekly schedule”:

1. Find the day (Monday–Sunday) you want to set.
2. Click “Add time period” and enter start and end times, for example 08:00 to 18:00.
3. You may add multiple periods on the same day.
4. Click “All day” to enable alerts for the entire day.
5. If days are identical, configure Monday first, then click “Copy Monday to all”.
6. Click “Save Configuration” at the top.

A day with no time periods means alerts are paused that day. A period ends at its end time; for example, 08:00–18:00 ends at 18:00.

Cross-midnight schedules can be split into two days: for example Monday 22:00–24:00 and Tuesday 00:00–06:00. Verify time zone and display time in Settings first.

5.13 Special date arrangements

For holidays or temporary events, click “Add special date” in Special dates.

1. Enter a recognizable name.
2. Select start date and end date.
3. Add time periods as needed, or select “All day”.
4. Ensure the special date entry is enabled.
5. Click “Save Configuration” at the top.

Special dates have priority over the weekly schedule. If you want alerts paused for those days, keep the date entry but do not add time periods.

5.14 Temporarily arm or disarm immediately

To temporarily take over current state, use “Arm now” or “Disarm now”. For example, staff entering the area can temporarily disarm.

These buttons submit immediately and do not require “Save Configuration” at the top. If a “Restore automatic” entry appears, use it to return to automatic control.

After operation, check the “Armed/Disarmed” status indicators. Temporary control does not replace long-term weekly schedule settings; restore desired alert state after operations end.

6 Saving and importing region settings

6.0.1 Save regions and rules to a file

Entrance: Preview → Region → JSON. The “JSON” page is the region settings file page; normal use does not require reading the textbox contents.

1. Click “Download JSON” to save the current regions and alert rules to a file.
2. Click “Copy JSON” to copy these contents to the clipboard.

If you want to back up settings that are already active on the device, confirm there are no unsaved modifications before downloading. Downloading while editing may include the current draft.

This is not a full device backup. Do not expect network, account, or other device settings to be restored from this file.

6.0.2 Restore region settings from a file

Enter the “JSON” page and click the import button.

1. Click the import button.
2. Select the previously saved region settings file.
3. Return to the Region Editor or Alert Rules page and verify the on-screen regions and conditions.
4. If everything is correct, click the top “Save Configuration”.

The preview after import is not the same as having saved to the device. If the camera has been replaced or the view angle changed, pay special attention to whether the regions still align with the original positions.

6.0.3 Apply text drafts and discard edits

If an installer provides a block of configuration text, paste it into the textbox and click “Apply JSON Draft” to preview the effect, then click “Save Configuration”.

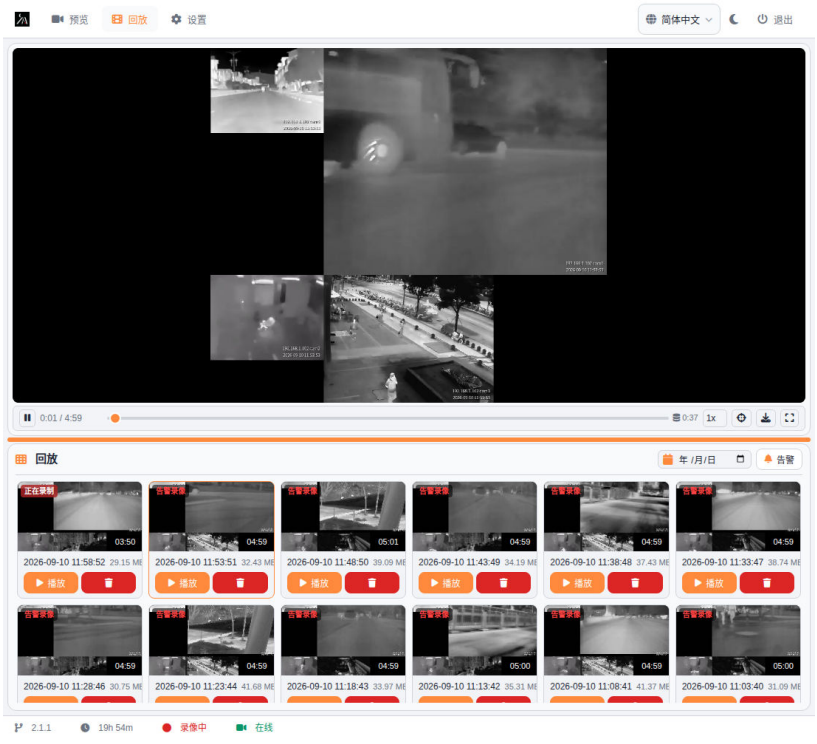
Pasting text into the textbox alone does not apply or save it. The page will show an error if the text is invalid.

If you do not want to keep the changes, click “Discard Edits”. This also withdraws any unapplied text modifications. Typical users can simply use the download and import file workflow and do not need to edit the text manually.

7 Find, playback and download recordings

7.1 Browse recording list

1. Click the top “Playback”.
2. Each card corresponds to a recording and shows a thumbnail, start time, duration, and file size.
3. Click a card or the “Play” button to start viewing. When there are many recordings, scroll down to load more.
4. If the player first shows “No recordings” but recording cards are visible below, select one of the cards. If the entire page has no recordings, check the storage card and the recording status.



English label key

Top navigation: Preview, Playback, Settings, language menu, Exit.

Playback controls: play/pause, timeline, speed, settings, download, fullscreen.

Filters: Year / Month / Day; Alert.

Recording states: Recording; Alert recording.

Card actions: Play; Delete.

图 7　Original Playback screen; the screenshot pixels are unchanged.

7.2 Filter by date, time, and alerts

1. Above the recording list, select the date you want to search.
2. After selecting a date, enter a start time and end time to narrow the range.
3. Click “Alert” to view only recordings marked as alert.

4. Click “All” to clear filters and view all results.

Note: The “Alert” tag is only an aid for searching; you must still open recordings to confirm the actual situation.

7.3 Understand recording card statuses

1. Recording in progress: This recording is still being written; duration and file size may continue to change.
2. Alert recording: This recording is marked as an alert.
3. Regular recording: A normal recording segment.

Important recordings should be downloaded and saved after recording finishes. The page shows recordings stored on the device; closing the browser does not copy these files to your computer automatically.

7.4 Pause, seek, and playback speed

Control	Usage
Play/pause	Pause to inspect details, then click again to resume
Time progress bar	Drag to the position you want to view
0.5x	Half speed for closer observation
1x	Normal speed
2x, 4x	Faster playback for quick review
Fullscreen icon	Enlarge the view

After seeking to a new position, the player may need a moment to load the frame.

On a PC you can also drag the horizontal splitter between the player and the recording list to allocate more space to the video or the list; double-click the splitter to restore the default.

7.5 Show detection overlays in recordings

Recordings that contain detection data display a “Detection” icon in the player toolbar. Click it to show or hide detection boxes and related overlays during playback.

Recordings without such data may not have this button. The button cannot remove text, detection boxes, or region boundaries that were directly written into the recording image at the time of capture.

7.6 Download important recordings

1. Open the recording you want to keep.
2. Click the download icon on the right side of the player.
3. Wait for the browser to complete the download.
4. Find the file in the browser download history or in your computer/phone download folder.
5. Open the downloaded file and confirm it plays properly.

For important content, copy the file to other reliable storage locations. Do not rely solely on long-term storage on the device.

7.7 Delete unneeded recordings

1. Click the red trash icon on the corresponding recording card.
2. Confirm the prompt before deleting.

Deletion removes the recording from the device and cannot be undone via the web interface. If you are not sure you still need a recording, download and save it first. Do not confuse the “All” button that clears the date filter with deleting recordings.

8 Network, accounts and daily settings

8.0.1 Settings screen name and time

Path: “Settings → OSD Settings”.

You can understand this as the setting for text shown on the video.

1. Find the corresponding camera.
2. Enter a name, for example “Front door” or “Garage”. If left blank, the page will display the default name as described on the page.
3. Choose whether to show the camera name and time.
4. Click “Save” under this block.

These texts may appear in the live video and in recordings. Changing the name does not rename or replace the overlay text in already recorded history.

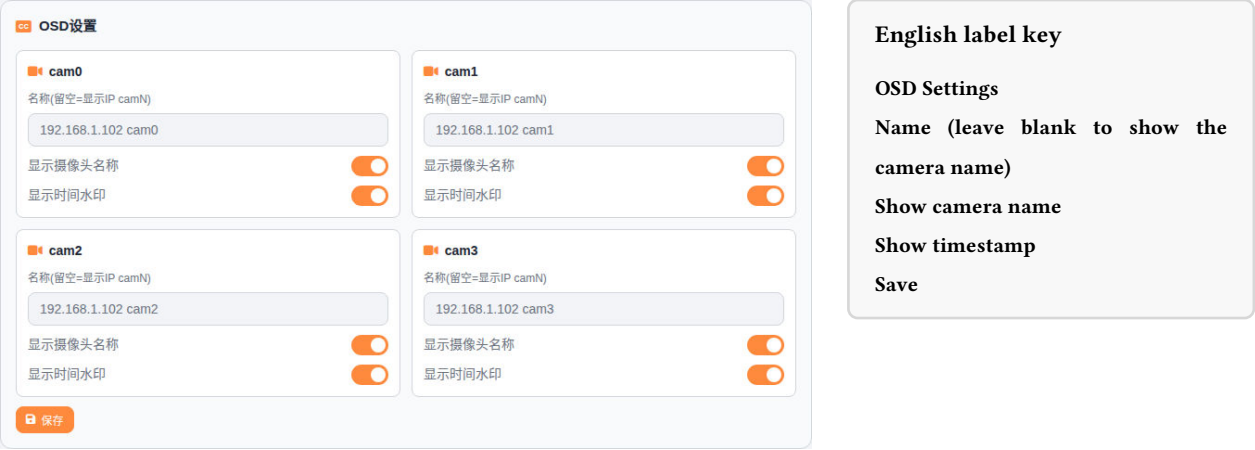


图 8　Original OSD Settings screen; the screenshot pixels are unchanged.

8.0.2 Obtain wired address automatically or use a static address

Path: “Settings → Wired Network”.

Page option	Meaning
DHCP	Address assigned automatically by the router; normally you do not need to enter an address.
Static IP	Always use the fixed address you enter; the installer must provide correct values.

1. Fill address, subnet mask, gateway and other items exactly as provided by the installer; you do not need to calculate them yourself.
2. After entering, click “Save” on this card.

After changing the address, the current page may disconnect. Note the new address, wait for the device to apply the settings, then reconnect using the new address.

This address acquisition method applies only to the wired Ethernet port. When the device is connected to an existing Wi-Fi, that wireless network will assign an address automatically.

8.0.3 Web access port and video port

The “HTTP port” is for web access; the “RTSP port” is for other video viewing software. Ordinary users generally keep the values set by the installer.

1. Example: if you change the web port to 8080, access must be written as http://device-address:8080/. If the page warns a port is unavailable, choose an allowed value.
2. Saving port changes may not take effect immediately. The page displays the currently used settings and the settings that are pending and will take effect after the next restart. When the page prompts to apply the new port, follow the instructions and wait for the device to become available again.

8.0.4 Choose whether the Ethernet port connects to a router or directly to a phone/head-unit

Path: “Settings → Network port connection mode”.

1. “Connect to router”: the device Ethernet cable is connected to a normal home or office network.
2. “Phone / Head-Unit Direct Connection”: use a compatible USB Ethernet adapter and cable to connect the device directly to a phone or head unit.

This selection affects only the wired connection and does not provide internet sharing. Direct Ethernet Connection does not let the phone use it for internet access.

After choosing, click “Save Configuration”, then read the confirmation window. Changing the drop-down alone does not switch the device.

8.0.5 Confirm direct connection switch and reconnect

1. Before switching, the page displays an important notice and waits 5 seconds before allowing confirmation. If you are not ready, click “Cancel”.
2. After enabling direct connect, you can normally open http://192.168.60.1/ in the browser of the connected phone or head unit. If the web port has been changed, access using the actual port.
3. After enabling direct connect, do not plug that Ethernet port back into a router’s normal network, to avoid affecting other devices’ address allocation. After disabling direct connect, the device restores the previously saved normal wired settings; reconnect to the original network.
4. Direct connect mode is persistent and will not be automatically disabled by reboot. When you can access the web interface, you can turn it off here. If you cannot access the device and need a full restore using the physical button, other device settings will be cleared; read Chapter 9 first.



图 9　Original Direct Connection confirmation; the screenshot pixels are unchanged.

English label key

Network page: Gateway; HTTP port; RTSP port; Save; Network port connection mode; Phone/head-unit direct connection.

Wi-Fi controls: Device hotspot; Connect to existing Wi-Fi; Scan nearby Wi-Fi.

Dialog title: Direct Connection Mode.

Dialog meaning: A phone or head unit receives an address. Use a compatible USB Ethernet adapter and cable. Do not reconnect the port to a router after activation. The mode persists after restart; a full factory reset clears other device settings.

Dialog actions: Cancel; Confirm enable (5s).

8.0.6 Connect to home or office Wi-Fi

Path: “Settings → Wi-Fi → Connect to existing Wi-Fi”.

1. Click “Scan nearby Wi-Fi”, or enter the wireless network name directly.
2. Select the correct security type; home networks usually use a password-protected type.
3. Enter the Wi-Fi password.
4. Click “Connect this Wi-Fi”.
5. Wait until the status shows “Connected”, then note the Wi-Fi address displayed on the page.

Your computer or phone must also be able to connect to that network to use the new address. Keeping an available wired management connection during setup is more convenient.

For networks where the password is already remembered, leaving the password box empty may allow direct connection as prompted on the page; entering new content updates the password. Click “Forget network” to clear the saved connection information for that network.

8.0.7 Use the device’s own Wi-Fi hotspot

Path: “Settings → Device hotspot”.

1. Note the hotspot name displayed on the page.
2. Click “Enable device hotspot” and wait for the switch to complete.
3. Connect that hotspot from your computer or phone Wi-Fi list.
4. Open http://192.168.50.1/ to access the device web interface.

The factory default hotspot password is lmd12345 as shown on the page; if it has been changed, use the modified password. After connecting to the device hotspot, a phone may warn “This network has no internet”; this is not necessarily an error because the hotspot is primarily for accessing the device.

8.0.8 Modify hotspot name and password

1. Under “Device hotspot”, expand “Hotspot advanced settings”.
2. Modify the hotspot name and password using the page fields, then use “Enable” or “Save” as shown to apply the changes.

After modifying, the previous wireless connection may disconnect; reselect the new hotspot on your computer or phone and enter the new password. The meaning of an empty password field follows the page prompt.

If the wireless switch fails, the device will try to restore the hotspot. If the new address is inaccessible, recheck the hotspot list or use an available wired connection.

8.0.9 View accessible addresses

The card lists the device’s currently available access addresses. Multiple addresses may correspond to wired and wireless connections.

1. Click an address to try to enter the device from the corresponding network; your current computer or phone must be able to reach that network. Not all listed addresses are reachable from every location.
2. When the page shows “Connected” but an old address no longer works, first verify the new address shown here; do not repeatedly try an already invalid old address.

8.0.10 Control whether other video software requires a password

Path: “Settings → Security → Allow Anonymous RTSP Streaming”.

This setting can be understood as “allow other video software to view without entering an account and password”.

1. Open: compatible viewers can connect without providing username/password.
2. Closed: such software must provide username and password.

This does not remove the web login password. Before changing this setting, if an NVR or other viewing software is already using the device stream, have the installer confirm whether to update account information. The switch auto-saves.

8.0.11 Change web login password

Path: “Settings → Account”.

1. Enter the current password.
2. Enter the new password.
3. Enter the new password again.
4. Click “Change password”.

The username is as shown on the page; the current administrator account is admin. The two new password entries must match and meet the page’s requirements.

If you do not want to continue, use “Discard Changes” to clear the current input. After a successful change, follow the page prompt to re-login and safely store the new password.

8.0.12 Set timezone and verify time

Path: “Settings → Timezone”.

1. Mainland China normally selects Asia/Shanghai (UTC+8), then click “Save”.

2. Other regions select the appropriate local timezone.

Web login attempts to synchronize device time, so the computer or phone you use to log in should also keep accurate time.

Time affects recording dates and alert schedules. After setting, verify the date and time shown on the Preview, then arrange weekly alert periods.

8.0.13 Switch language and light/dark appearance

1. Click the language button at the top right and choose a familiar language. Available languages: Simplified Chinese, Traditional Chinese, English, Japanese, Korean, Russian, Arabic, German, Spanish, French, and Portuguese.
2. Click the moon or sun icon to toggle dark or light theme. Use a darker interface at night and a light interface during daytime.

These actions do not change camera mounting orientation or Region positions.

8.0.14 View storage card and recording status

Path: “Settings ⟶ Storage”.

1. Check whether the storage card is recognized by the device, the remaining space, and whether recording is currently active.
2. If there is no storage card, the card is not writable, or the remaining space is abnormal, first check the card and device status. Being able to view live video in the web interface does not guarantee successful recording.

Important recordings should be downloaded regularly rather than kept only on the device. The storage card will automatically clear old recordings when remaining space falls below 500MB.

8.0.15 View product information

The “Device” card displays product version and serial number. When contacting after-sales support, provide a screenshot of this page and describe the fault symptoms and their occurrence time.

9 Update and restore device

9.0.1 Update the device via web

Entry: Settings ⟶ Firmware Update

1. Obtain the .ipcam update file for this device from the device supplier. Confirm stable power and Save Configuration for any settings you are editing.
2. Click “Select firmware package” and choose the update file (.ipcam).
3. Click “Start update”.
4. Wait for the page to display the completion result. Do not power off the device and do not click the update button repeatedly during this process.
5. After the update completes, refresh the page or re-login as prompted.
6. Go to the Settings page to verify the firmware version and check the live Preview and recording status.
7. If the page indicates the update failed, retain the failure message and contact the supplier. Do not repeatedly attempt update files from unknown sources.

9.0.2 Reboot system

1. “Reboot system” restarts the entire device. Current connections and video will be temporarily interrupted; existing configurations are preserved.
2. Click the reboot option, read the confirmation prompt, and then decide whether to continue.
3. During the operation, wait for the device to finish restarting before reopening the original address. If the address is assigned by a router, verify whether the address has changed.
4. If there are unsaved settings or important recordings being downloaded, complete those tasks before rebooting.

9.0.3 Restore settings and keep network

1. Choose “Restore settings and keep network” when you need to reset device settings but wish to retain the current network connection.
2. This operation restores device settings and the administrator password while keeping Wired Network, Wi-Fi configuration and connection records, and service ports. It only restarts the device software.
3. This is not limited to clearing the single currently open setting. Region and Alert Rules configurations must be rechecked after the operation.
4. Enabled Direct Ethernet Connection mode is considered a retained network setting and will not be disabled by this operation.

9.0.4 Factory reset

1. “Factory reset” restores device settings and the administrator password, resets the Wired Network and access ports, and clears Wi-Fi configuration and connection records.
2. Direct Ethernet Connection settings will also be returned to default.
3. After execution you will typically need to reconnect to the device; the original web address may no longer be valid. Record the reconnection method and back up any Region configurations you need to keep before proceeding.
4. Read the confirmation prompt before executing. Do not treat a factory reset as a routine refresh or a reconnect action.
5. Neither “Restore settings and keep network” nor “Factory reset” should be used to delete recordings on a storage card. Manage recordings using file operations in Playback.

10 Common issues

1. Web page won’t open
    1. Check the device power, Ethernet cable, or Wi-Fi, and verify your computer or phone is on a network that can reach the device.
    2. If you changed the device address or port, use the new address.
    3. When switching to Direct Connection or the device hotspot, reconnect using the corresponding method.
    4. Refer to “Network Settings” for detailed steps.
2. Can log in, but one channel has no video
    1. Verify the camera for that channel is properly connected.
3. No detection box in the video
    1. Confirm Detection is enabled for that channel.

2. Confirm the corresponding person, vehicle, or animal target type is enabled.
3. Verify there is an actually detectable target in the scene.
4. Check for any ignored regions that might block detection.
5. If the web page shows a detection connection restored message or a re-login prompt, follow the on-screen instructions.

4. Drew a region but no alert
   1. Confirm the Region type is set to “alert”.
   2. Confirm the Region is included in the Alert Rules.
   3. Check which target types are selected and whether any compound conditions are satisfied.
   4. Confirm the device is currently armed.
   5. Make sure your changes were saved successfully.
   6. Finally, check that required sound output or external alert output is enabled.
5. Alerts are too frequent
   1. Verify the Region isn’t drawn too large or covering unwanted areas.
   2. Check the selected target categories and sensitivity.
   3. Use “Simulate detection” to verify rules, then make small adjustments based on real footage.
6. No sound from the web page
   1. Check the web page sound toggle and volume.
   2. Verify your computer or phone is not muted and the media volume is sufficiently high.
   3. Click “Test web sound” and confirm the browser allows the current page to play audio.
7. Unsure whether changes were saved
   1. Check whether the current settings block shows “Save”, “Save Configuration”, or an unsaved indicator.
   2. Regions, rules, alert schedules, network, on-screen text, and timezone require using their respective save entry.
   3. Images, Detection, and some alert toggles are saved automatically.
   4. If you see a failure prompt, do not assume the change took effect.
8. Can’t find recordings
   1. Click “All” to clear the date, time, and alert filters, then check the storage card status.
   2. When the device has just started, the recording list may need time to populate; press the retry button if shown.
   3. If necessary, restart the system or reinsert the storage card.
   4. Recordings occur only when a storage card is inserted.
9. Downloaded file cannot be found
   1. Open your browser’s download history or the device’s download folder on the computer or phone you used.
   2. Files downloaded via the web interface are saved on the computer or phone that initiated the download and will not appear automatically on other devices.
10. The web interface looks slightly different from this manual
11. The number of cameras, access method, screen width, language, and the currently selected view affect which buttons are visible.
12. Verify the version is 2.1.1 and confirm whether you are in “All cameras” or a single-camera view.
13. Narrow mobile screens may replace some text with icons.

Glossary

DHCP – **Dynamic Host Configuration Protocol**: A method by which a router automatically assigns an IP address to the device.

GPIO – **General-Purpose Input/Output**: The device's physical output used to control connected external alert equipment.

MJPEG – **Motion JPEG**: A low-latency browser viewing mode that delivers individual JPEG frames.

MSE – **Media Source Extensions**: A browser viewing mode intended to balance image quality and transmission efficiency.

OSD – **On-Screen Display**: Text such as a camera name or time that may appear on live video and recordings.

ROI – **Region of Interest**: A user-drawn area in the image that is used for attention, alert evaluation, or exclusion.

RTSP – **Real Time Streaming Protocol**: A protocol used by other video viewing applications to access the device video stream.