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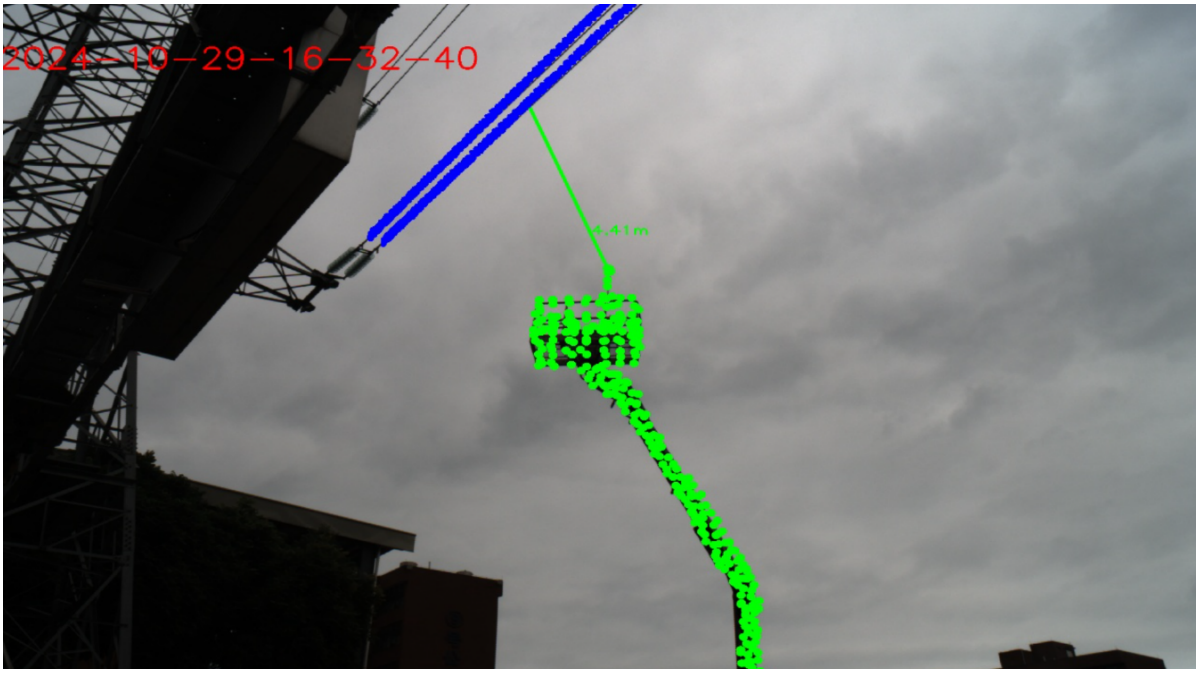
LiMonitor

System Overview

LiMonitor G1 is an external-damage-prevention device for safety monitoring and early warning in operations near energized lines. It integrates LiDAR and a visible-light camera for multimodal data collection, includes built-in edge computing for efficient real-time data processing, supports 4G/Wi-Fi communication for stable and flexible transmission, and features a compact, highly integrated structure. Based on 3D point cloud and image fusion technology, it performs real-time monitoring, accurate identification, and graded early warning for construction areas and surrounding power facilities, effectively preventing external damage and ensuring the safe operation of power infrastructure.

LiMonitor Server is a software platform for safety monitoring in operations near energized lines. Built on a B/S architecture, it supports Windows PCs and tablets. Users can view front-end data in real time, receive alert information, and manage devices intelligently through a web interface. When used together with LiMonitor G1 hardware, it can efficiently warn of external damage and intrusion risks, accurately monitor safe working distances, and comprehensively support safe and efficient construction operations.



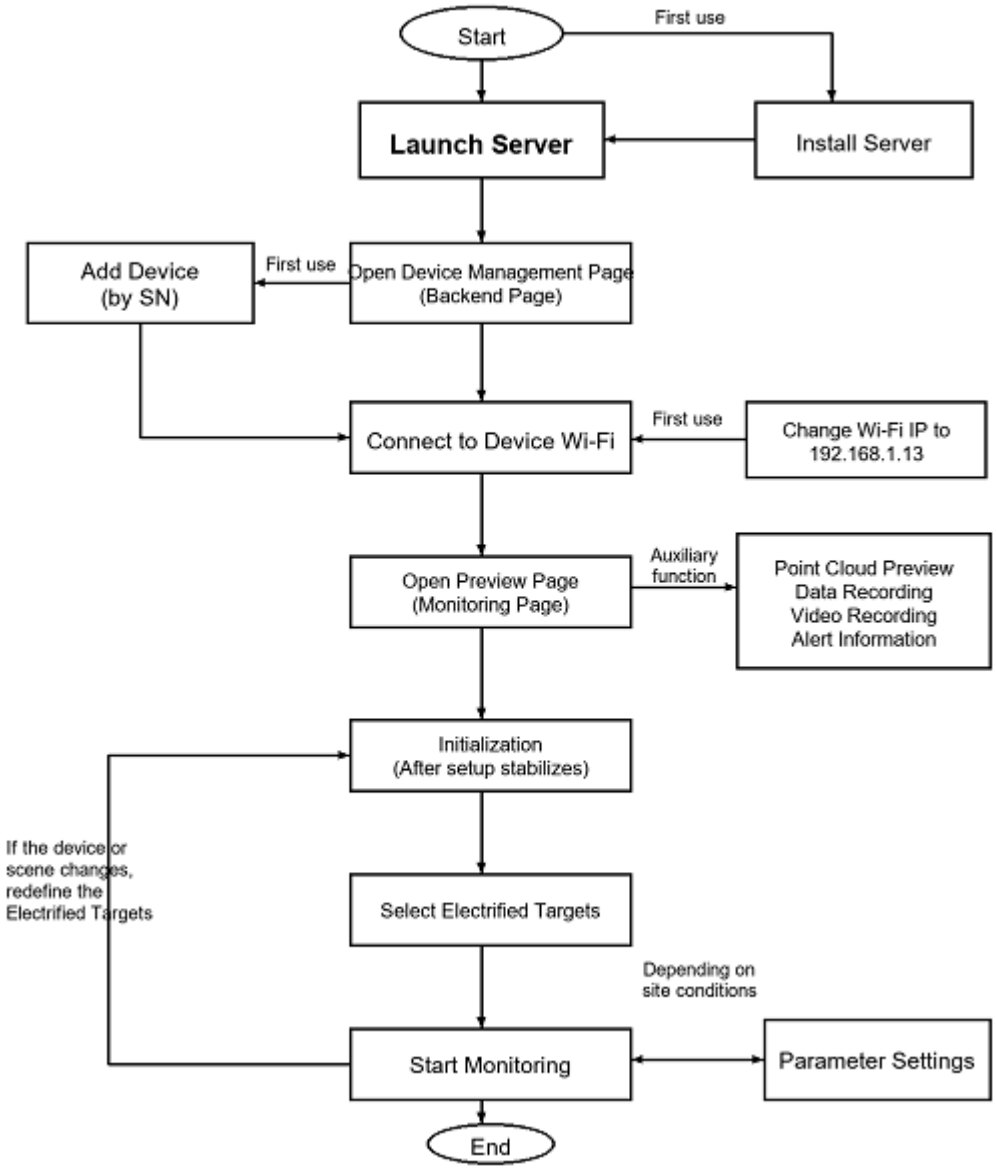
System Parameters

Main Parameters

Device Parameters			
Main Unit Dimensions (mm)	276x163x164	**Power Supply**	DC power supply (10-19V DC)
Main Unit Weight	3.16 kg	**Communication**	4G / Wi-Fi / LAN
Protection Rating	IP66	**Ambient Temperature**	-20 to 50°C
Operating Temperature	-20 to 65°C	**Storage Temperature**	-30 to 80°C
Storage Capacity	512G	**Installation Method**	Mobile deployment on tripod
LiDAR Parameters			
LiDAR Scan Rate	240000 points / second	**LiDAR Field of View**	70.4° (horizontal) × 77.2° (vertical)
LiDAR Range	450 m @ 80% reflectivity	**LiDAR Update Rate**	10 Hz
Camera Parameters			
Camera Resolution	8 MP	**Camera Field of View**	87.5° (horizontal) × 44.4° (vertical)
Image Resolution	3072x2048, 1920x1080	**Camera Frame Rate**	10 FPS
System Parameters			
Supported OS	Windows 10 and later	**Firmware Upgrade**	Online OTA
Data Storage	30 days by default (adjustable)	**Battery Power**	4 h (single battery)
Visual Alert	Real-time video + voice	**Video Latency**	<1.0 s
Voice Alert	Intercom (wireless)	**Voice Latency**	<0.5 s
Ranging Accuracy	±10 cm	**Operating Range**	1-100 m

Operating Procedure

This chapter describes the regular operating procedure during system use. The main monitoring workflow is shown in the diagram below.



Hardware Operation

- Power on the device
  - **Power adapter**: Connect power directly.
  - **Portable battery**: **Press once, then press and hold the battery button** until the indicator flashes.
  - **Soft shutdown state**: When the power cable is connected and the device is in soft shutdown, **press the power button once** to power it on.
- Power off the device

    - **Soft shutdown**: **Press and hold the power button** until the power indicator flashes [Recommended].
    - **Hot unplug**: Disconnect the power directly.

- Intercom
    - Ready to use by default after power-on.
    - You can also adjust the intercom channel in Parameter Settings, and set the intercom to the same channel.

Software Operation

- Software Installation
- Device Management
- Parameter Settings
- Real-Time Monitoring
- Uninstall the software

  Uninstall the software in Windows.

OTA Upgrade

- Software Upgrade
- Firmware Upgrade

Software Installation

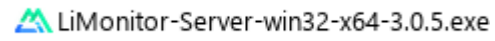
Operating Environment

A high-performance workstation is recommended. The configuration requirements are as follows:

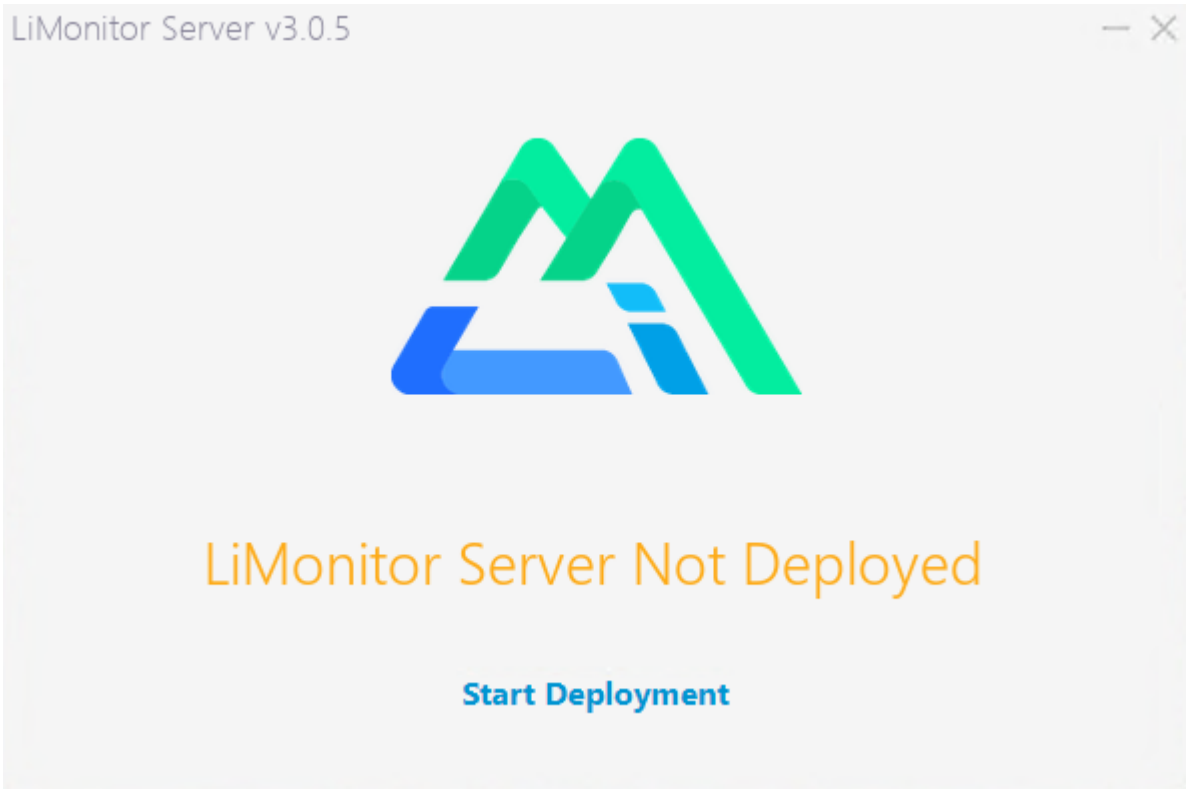
- **Memory (RAM)**: 16 GB or above.
- **CPU**: Intel® Core™ i5/i7 is recommended; an 8-core, 16-thread processor with single-core performance of 4 GHz or above.
- **Storage**: An SSD is recommended for the data processing drive, with 512 GB or more storage space and a transfer speed of 100 MB/s or above.
- **Operating System**: Microsoft Windows 10 (64-bit), Microsoft Windows 11 (64-bit), or Windows Server 2012 and later.

First-Time Installation

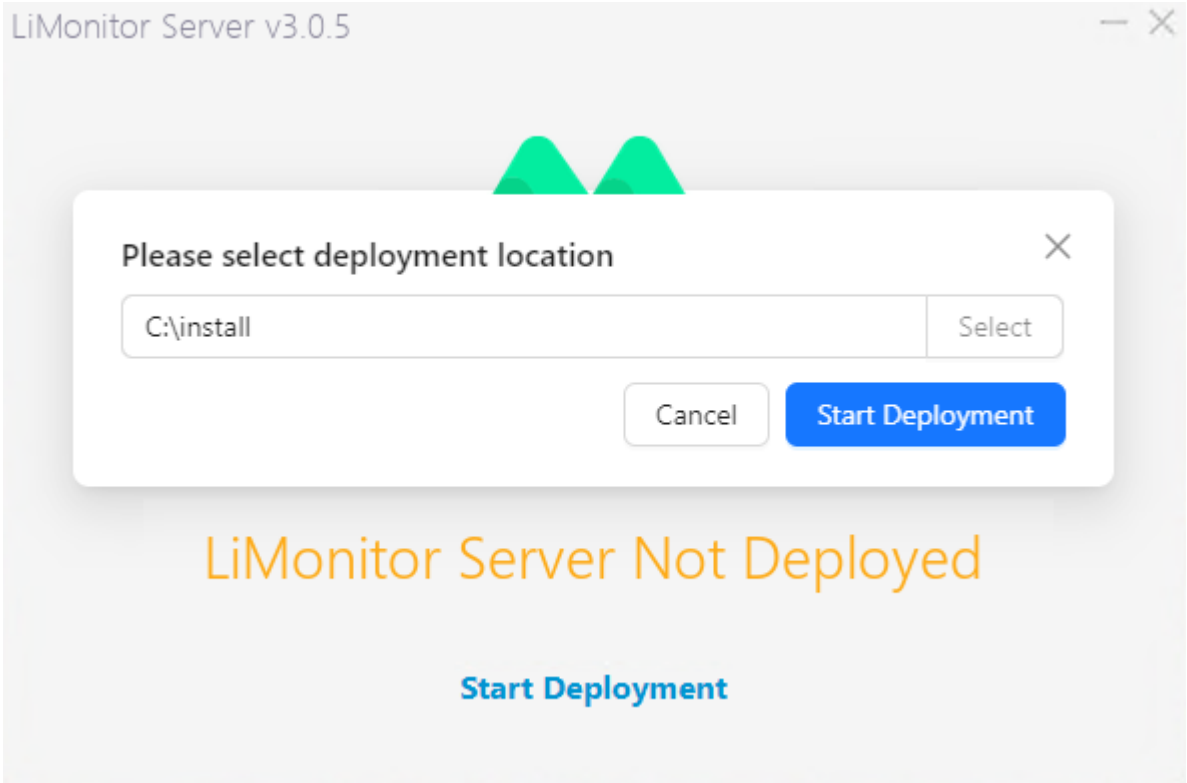
- Double-click the standalone LiMonitor Server installer.



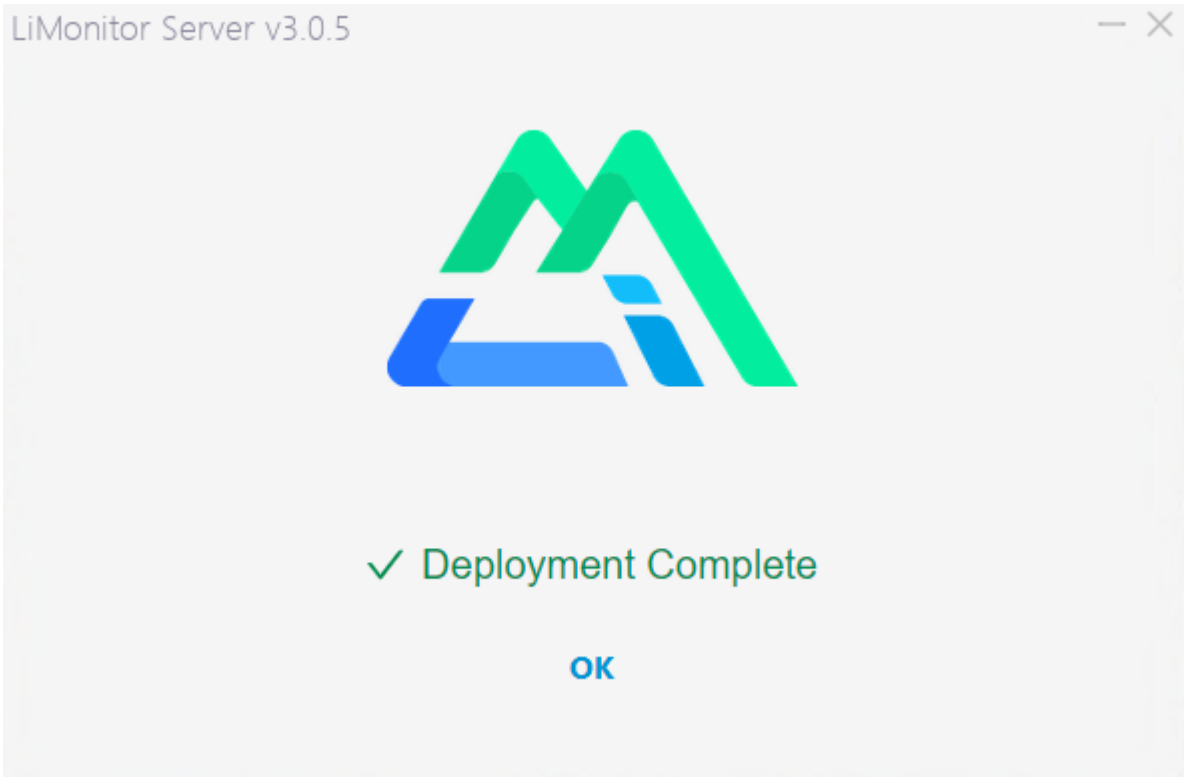
- When the deployment window appears, click **Start Deployment**.



- Select the deployment location. The path must not contain Chinese characters or spaces. Click **Start Deployment** to continue, and then click **Confirm** in the prompt dialog.



- After deployment is complete, click **Confirm** and wait for the service to start.



- Note: If the optional device package includes a **built-in Pad**, the software is already preinstalled and no installation is required.

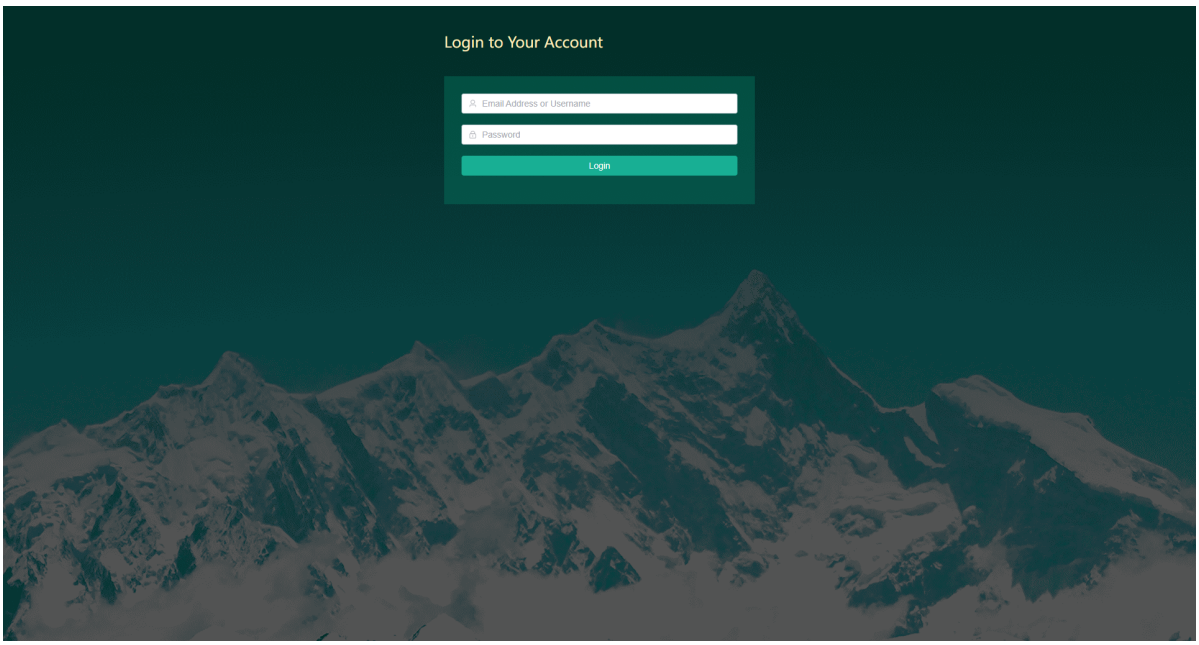
Upgrade Installation

When the software version is updated, upgrade the software as follows:

- When the platform is connected to the internet, the software automatically detects new versions. If a new version is available, an upgrade prompt appears automatically. Click **Upgrade Now** or double-click the higher-version installer.
- After the software detects the version upgrade information and deployment location, click **Yes** to enter the upgrade page and wait for the upgrade to complete.
- After the upgrade is complete, click **Confirm** and wait for the service to start.
- Note: You can also uninstall the software first and then reinstall it.

Basic Operations

- **Restart Service**: Restarts the entire server. Use this when the software service is not running or when functions are abnormal.
- **Deployment Location**: Opens the server deployment directory.
- **Start Using**: Opens the software platform and displays the platform login page in the default browser.
- Default username/password: **administrator/123456789**



Hardware Installation

Unpacking the Device

Open the transport case and take out the device.

Device Setup

- Set up the tripod.
- Install the main unit.
    - The main unit comes with a **quick-release plate** that matches the 2D pan-tilt head.
- Loosen the **locking knob** of the quick-release plate on the side of the pan-tilt head, then slide the quick-release plate on the bottom of the device into the pan-tilt rail until it is fully seated.
    - Turn the **locking knob** clockwise to lock the quick-release plate firmly onto the pan-tilt head, and gently shake the device to confirm that it is secure.
- The **small red button** is an anti-drop safety latch. To remove the device, loosen the **locking knob**, press and hold the **red button**, and then pull the device out.



- Adjust the installation position and angle according to actual monitoring requirements.

Powering On the Device

Connect the device using the **power adapter** or **portable battery**.

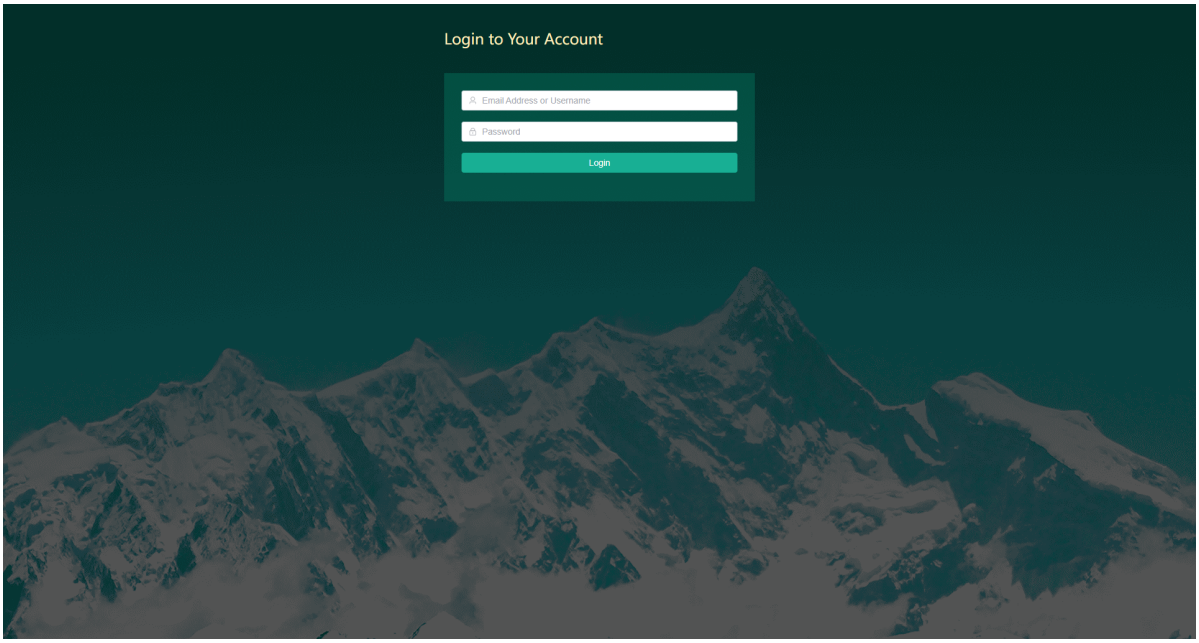
Platform Overview

As shown below, the platform overview includes the following functions:

- Login Page
- Backend Page
- Monitoring Page
- System Settings

Login Page

Login Screen



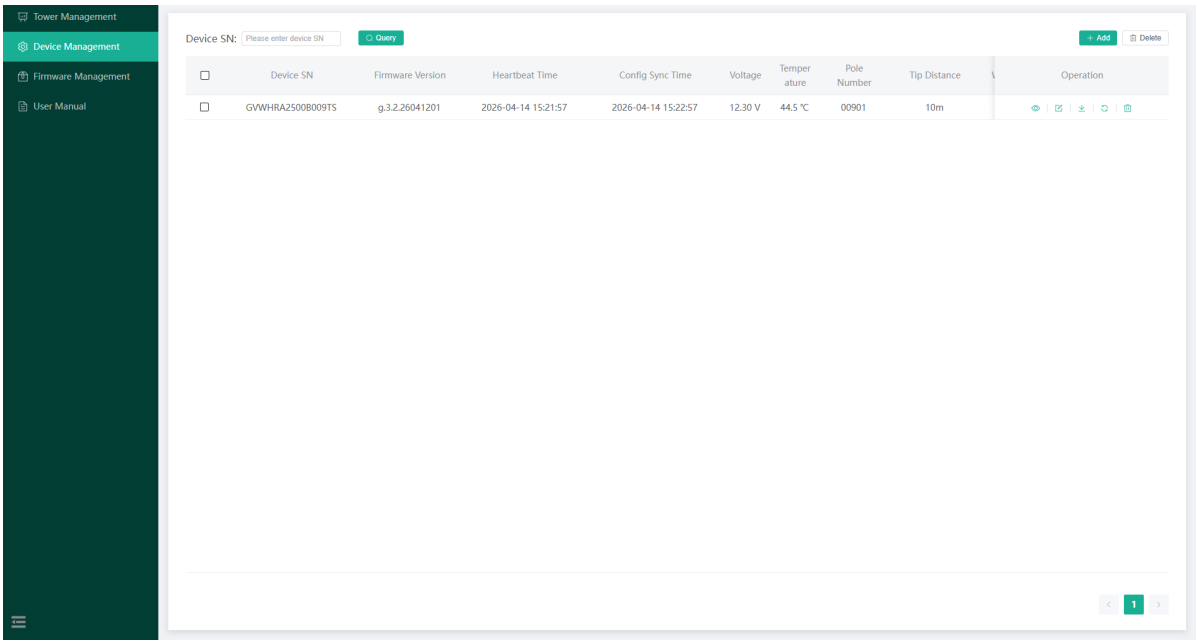
Default Credentials

- **Username**: `administrator`
- **Password**: `123456789`

Backend Page

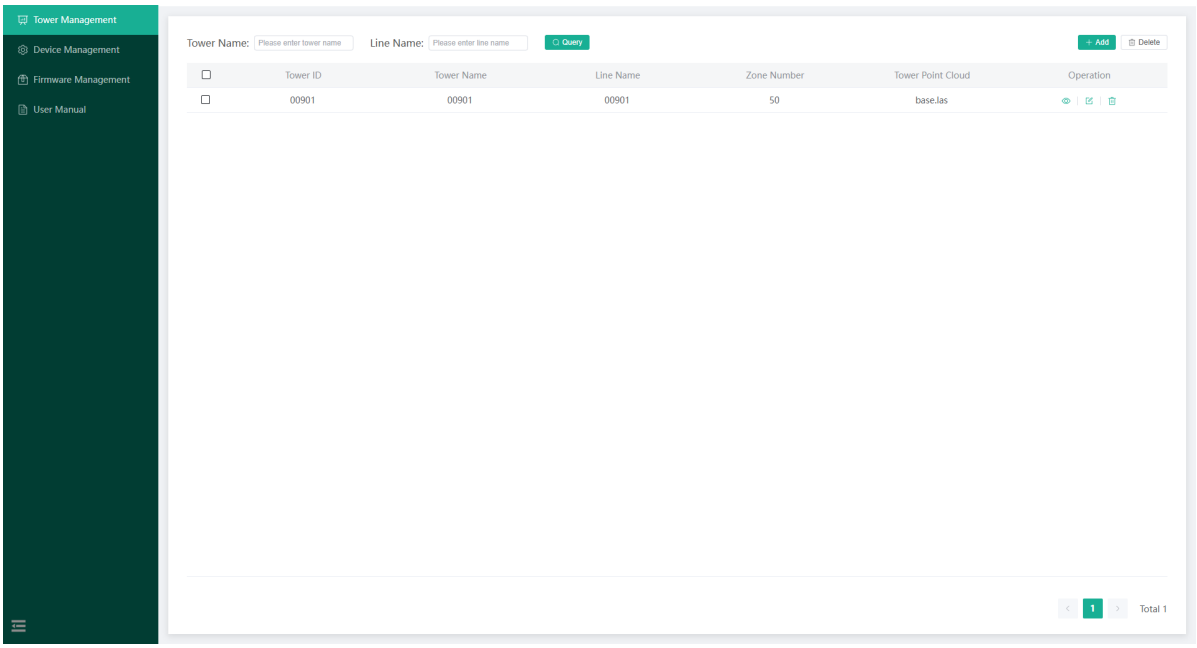
As shown below, the backend page includes the following functions:

- Tower Management
- Device Management
- Firmware Management



Tower Management

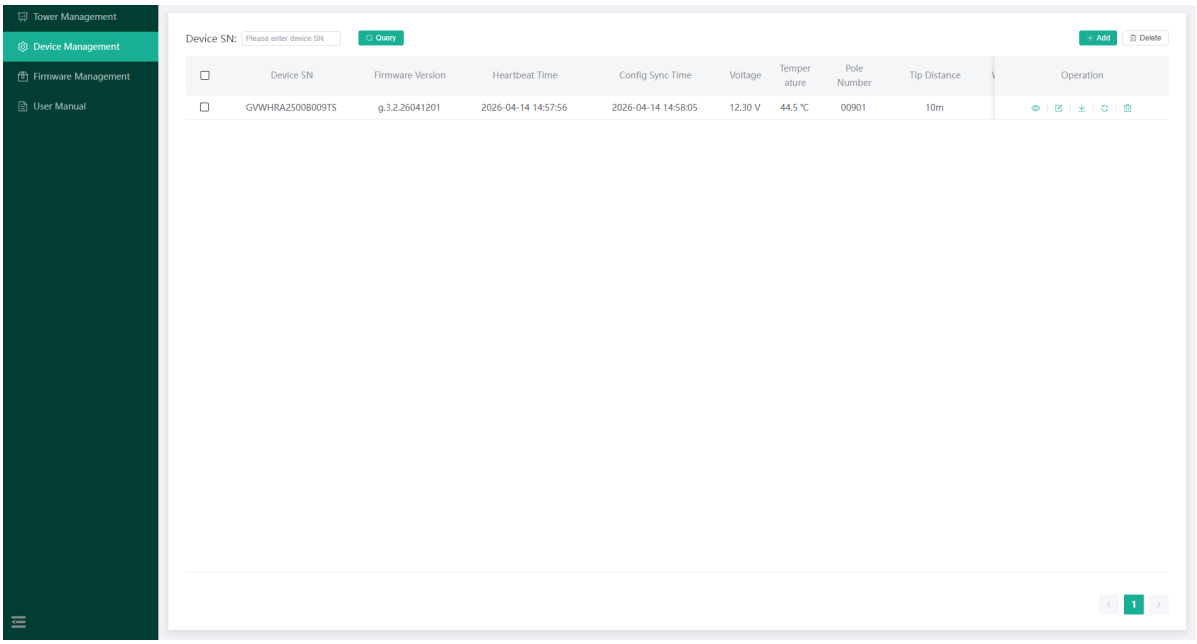
- Tower **001** is already included by default in the software for device use. Select it when adding a device.
- Multiple devices can use the same tower, and additional towers can also be added.
- Adding, editing, and deleting towers are supported.



Device Management

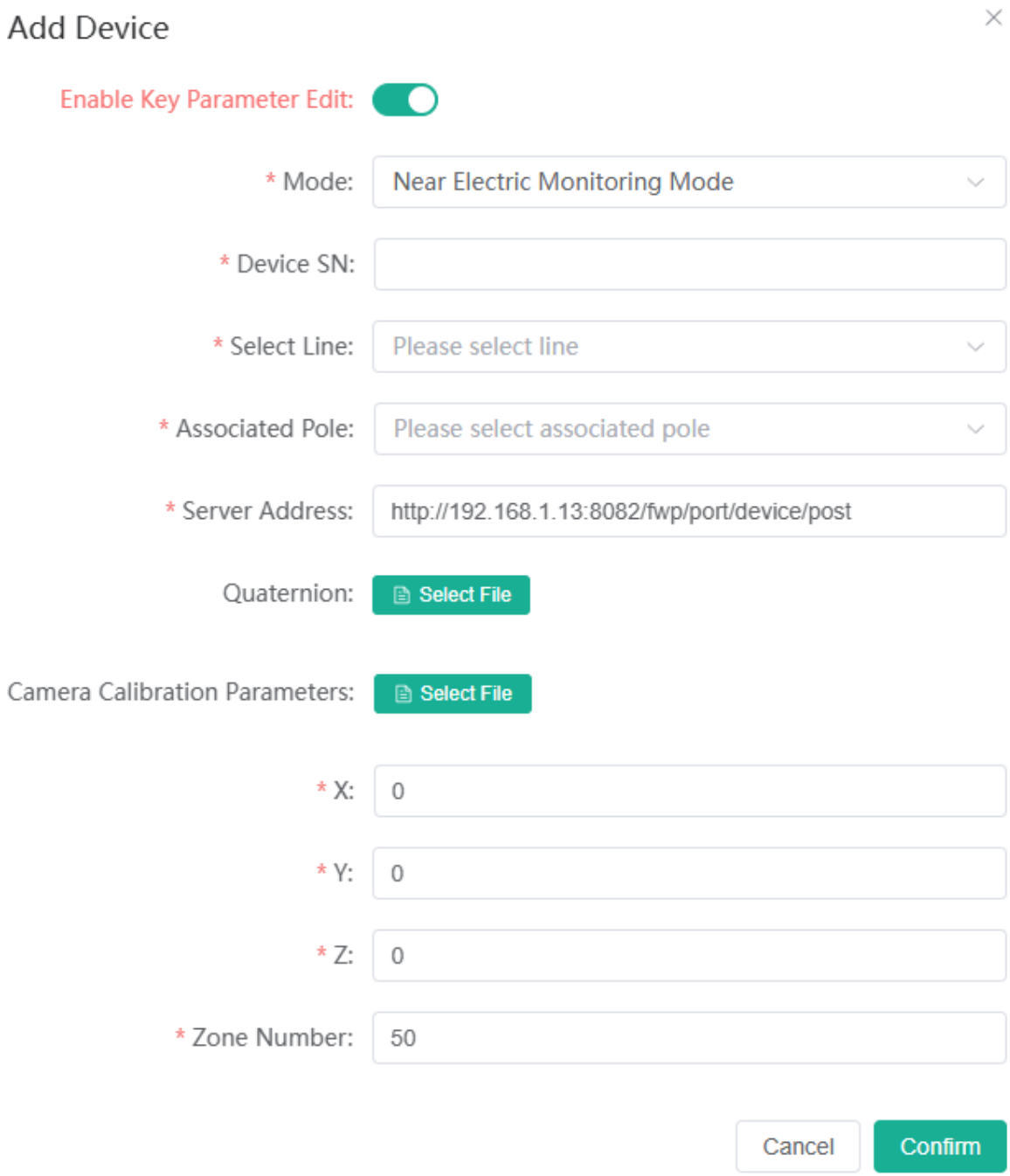
As shown below, Device Management includes the following functions:

- Add Device
- Connect Device
- Preview Device
- Auxiliary Tools



Add Device

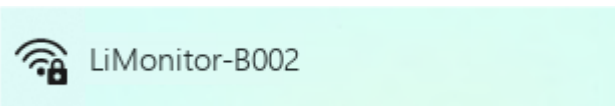
- Click **Add**.
- In the pop-up window, configure the information for the new device:
  - **Select Line**: Select the default line `001`.
  - **Associated Pole**: Select the default pole `001`.
  - **Device SN**: The device SN, which can be found on the rear side of the device body. Example: **GVWHRA26001001**.
  - **Camera Calibration Parameters**
    - **Get Online**: If the computer can access the internet at this time, the corresponding camera calibration file will be fetched automatically.
    - **Manual Upload**: If the computer cannot access the internet at this time, you can manually upload the camera calibration file.
    - Each device has its own camera calibration file and they cannot be used interchangeably.
  - Click **Confirm**.



Connect Device

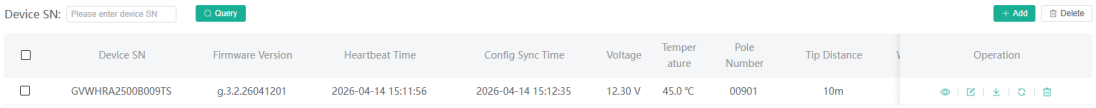
- Connect to the device Wi-Fi.

  The Wi-Fi name is in the format **LiMonitor_XXX**, and the default Wi-Fi password is **123456789**.

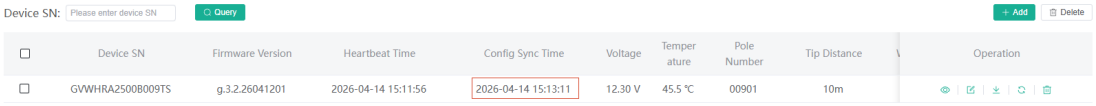


- IP Address Settings

- Query device information to verify whether the connection is successful.
  - Click **Query**. You can click it multiple times.

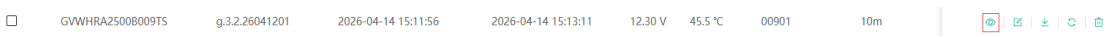


  - If the current **Firmware Version** or **Config Sync Time** of the newly added device is updated, the connection is successful.

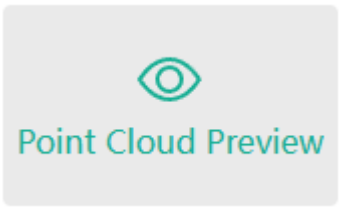


Preview Device

- Click the **Preview** icon on the right side of the device information bar.



- Click the **Point Cloud Preview** button on the main page.

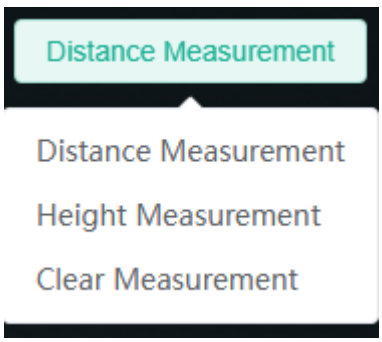


- Click **Open Data Request**. The preview page returns real-time point cloud and image data.
- Click **Close Data Request** to stop the real-time data request and reduce bandwidth usage.

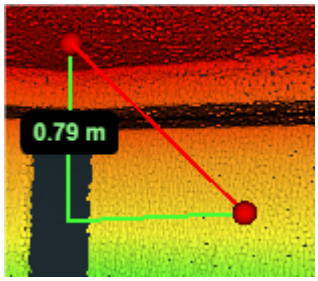
Measurement Tool

The Measurement Tool can measure two-point distance and height in the point cloud during preview device.

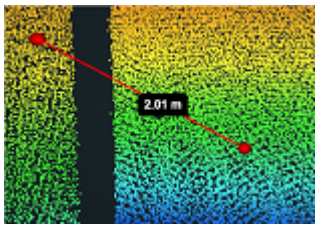
- Click **Measurement Tool** to show or hide its menu list.



- Click **Height Measurement**, then left-click two points in the point cloud to display the height information.



- Click **Distance Measurement**, then left-click two points in the point cloud to display the distance information.



- Click **Clear Measurement** to clear the height and distance measurement results drawn on the point cloud.

Firmware Management

As shown below, the firmware management page includes the following functions:

- Fetch Firmware
- Upload Firmware
- Upgrade Firmware
- Delete Firmware

Fetch Firmware

When the platform can access the internet, it will **automatically fetch new firmware versions**.

Upload Firmware

The platform also supports manually uploading firmware:

- Click **Upload Version File** on the firmware management page.
- In the pop-up upload window, click **Select File**.
- Locate the firmware file to upload, select it, and click **Open**.
- Click **Confirm** to complete the firmware upload.

Upgrade Firmware

The device automatically detects firmware versions. When a new firmware version is detected, an **Update** button appears in the device information on the **Device Management** page.

- Click the **Update** button in the device row to open the firmware upgrade window.
- Click **Confirm** to complete the firmware upgrade.
- After the firmware upgrade is complete, the device automatically restarts. The entire process takes several minutes.

Delete Firmware

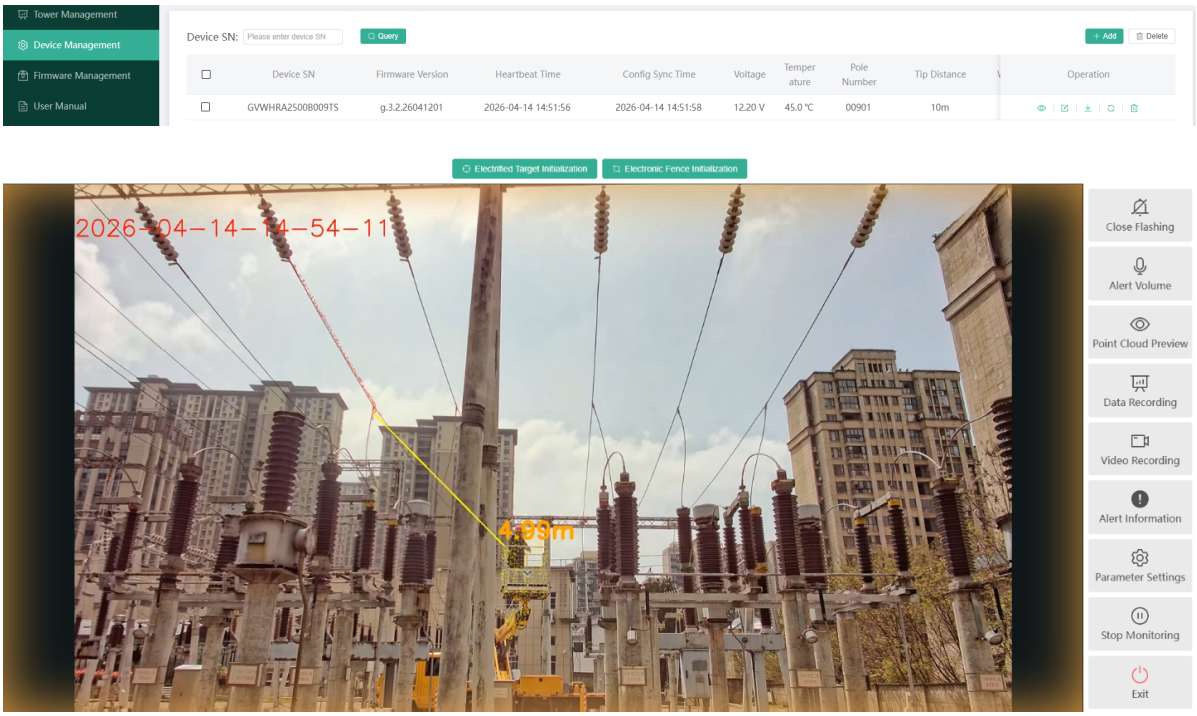
- On the **Firmware Management** page, click the **Delete** button at the end of the row containing the firmware file to be deleted.

- In the pop-up delete window, click **Confirm** to delete the firmware.

Monitoring Page

The monitoring page is used for monitoring object initialization, starting and stopping real-time monitoring, parameter tuning, and viewing and retaining monitoring data.

Click the **Preview** button on the right side of the device list on the **Device Management** page to enter the monitoring page of the current device.



Function Overview

Area	Core Function	Purpose	Related Notes
Top operation area	**Electrified Target Initialization**	Supports target point selection, box selection, undo, delete, save settings, exit, and other operations	Initialization
	Electronic Fence Initialization	Supports fence drawing, undo, delete, save settings, exit, and other operations	Initialization
Main display area	**Default Function**	Displays the real-time monitoring video	
	Auxiliary Function	Displays the initialization interface, point cloud preview, alert detail viewing, video playback, and other content	
Right-side function area	**Core Operations**	Provides **Parameter Settings**, **Start Monitoring / Stop Monitoring**, and **Exit Page** operations	Parameter Settings
	Auxiliary Operations	Provides quick actions such as **Flashing Control**, **Alert Volume**, **Point Cloud Preview**, **Data Recording**, **Video Recording**, and **Alert Information**	Auxiliary Functions
Left-side panel	**Data List**	Switches to display lists and details such as **Data Recording**, **Video Recording**, and **Alert Information** through the quick buttons on the right side	Auxiliary Functions

Workflow

1. According to the monitoring requirements, choose **Electrified Target Initialization** or **Electronic Fence Initialization**.
2. After completing target selection or fence drawing, click **Save Settings** to save the current monitoring configuration.
3. Open **Parameter Settings** and adjust the monitoring parameters as needed.
4. Click **Start Monitoring** to enter the real-time monitoring state.
5. During monitoring, you can use functions such as **Point Cloud Preview**, **Data Recording**, **Video Recording**, and **Alert Information** for viewing, playback, and retention.

Initialization

Based on actual monitoring requirements, use initialization to set **Electrified Targets** or an **Electronic Fence**.

Electrified Target Initialization

After the device position is fixed, click **Electrified Target Initialization** to obtain the radar and camera data of the current scene.



- After initialization, click **Electrified Target Selection** and choose **Point Mode** or **Box Mode**.
  - **Point Mode**: Click the electrified target in the image.
  - **Box Mode**: Click and drag on the image to form a rectangular box and select the electrified target.
  - **Note**: After selecting one target, you must click **Complete** before starting the selection of the next target.
- Multiple electrified targets can be selected. After all targets have been selected, click **Save Settings**.

Electrified Target

- After clicking **Electrified Target Selection** or **Intrusion Target Selection**, choose **Point Mode** or **Box Mode** to select the target.

- In **Point Mode**, left-click the target in the image to select it.



  - Multiple clicks on the same target are supported, as long as the two selections overlap.
  - After completing one target, click **Complete** to save the currently selected target.
  - Multiple electrified targets are supported.
  - The same color indicates the same target, while different colors indicate different targets.
- In **Box Mode**, hold the left mouse button and drag to select the target. Different targets are displayed in different colors.



- Click **Undo** to cancel the last selected target.
- Click **Delete** to remove all selected targets.
- Click **Save Settings** to complete **Electrified Target Selection**. This step is required, otherwise the selected electrified targets cannot be saved.

Intrusion Target (Optional)

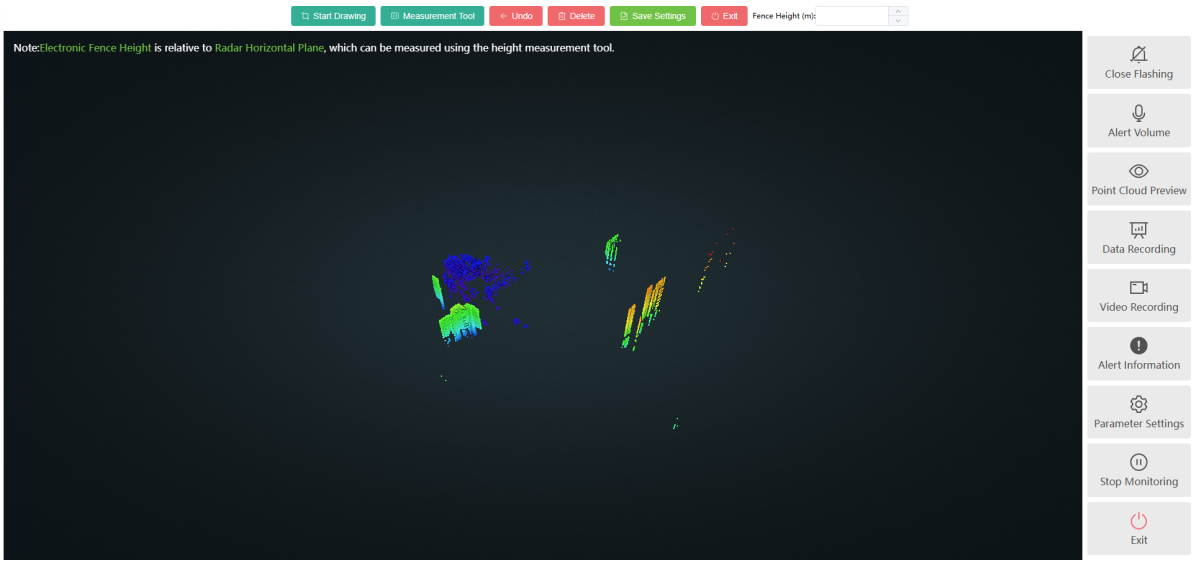
- Click **Intrusion Target Selection**, choose **Point Mode** or **Box Mode** to select the target, and then click **Complete**.
- Note: During electrified target initialization, if there are intrusion targets in the scene that need to be monitored:
  - If you **do** use intrusion target selection to select these targets, they will trigger alerts during monitoring whether they are stationary or moving.
  - If you **do not** use intrusion target selection to select these targets, they will not trigger alerts when stationary, but they will trigger alerts when moving.

Save Settings

- After target selection is complete, click **Save Settings** to save the target data.

Electronic Fence Initialization

After the device position is fixed, click **Electronic Fence Initialization** to obtain the radar data of the current scene.



Electronic Fence Definition

- The area inside the fence is the protected area.
  - Within 3 m: Tip
  - Within 1 m: Warning
  - Touching the fence: Danger
- Arbitrary polygon drawing and fence height configuration are supported.
- Multiple electronic fences are supported.

Electronic Fence Drawing

- Start Drawing
  - Click at least 3 points to form a polygon electronic fence.
  - Set the fence height. The default height is the highest point in the point cloud.
- Finish Drawing
  - Complete the drawing of one electronic fence.
- Undo
  - Undo the last drawn fence.
- Delete
  - Delete all drawn fences.
- Exit
  - Exit the drawing operation.
- Note: On the **PC side**, left-click to select points, right-click to complete the drawing, and use the middle mouse button to zoom the point cloud or hold the middle mouse button and move the mouse to pan the

point cloud. On the **tablet side**, tap with one finger to select points, then click the toolbar above to finish drawing one electronic fence.

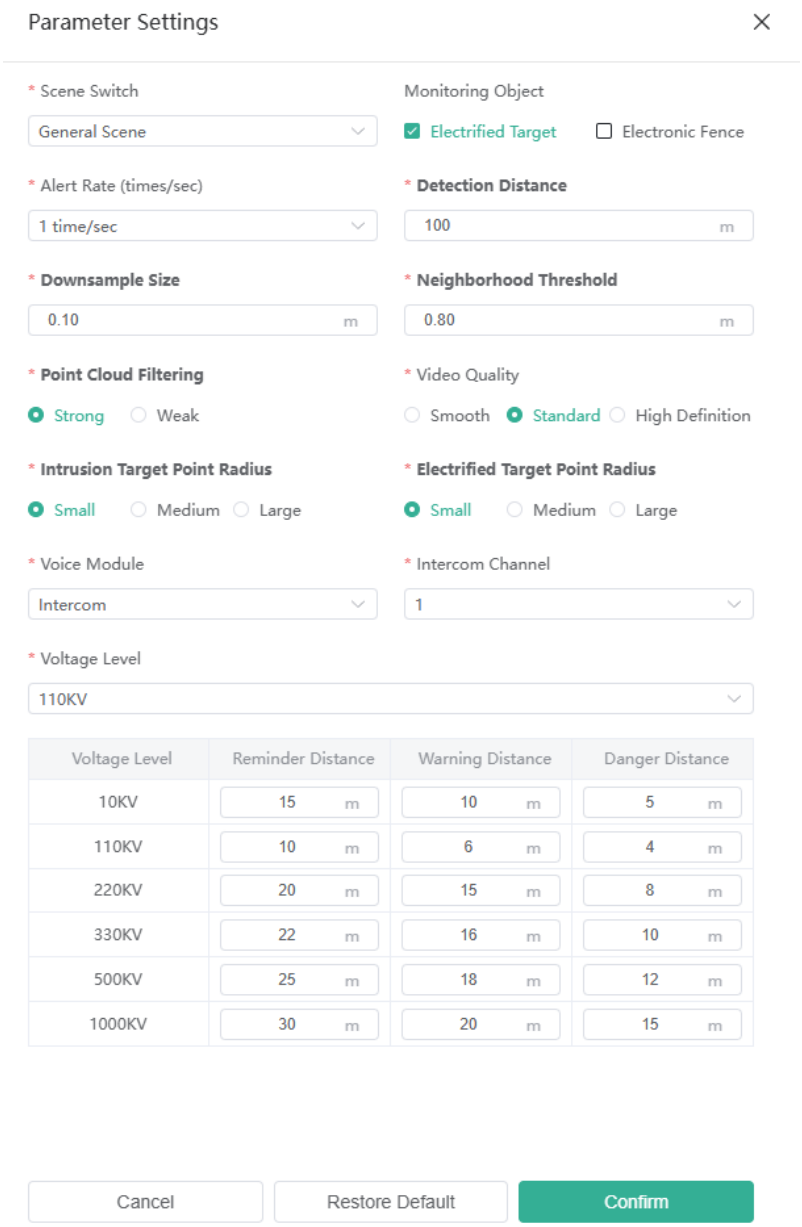
Save Electronic Fence Settings

- After all electronic fences are completed, click **Save Settings** to save them.



Parameter Settings

During monitoring, click **Parameter Settings** on the monitoring page, customize the settings in the pop-up dialog, and click **Save** to apply adjustments such as alert distance changes.



Parameter Description

Hover the mouse over a parameter name to display its meaning and usage.

Parameter Category	Parameter Name	Description / Range
Scene Switch	General Scene	Monitors all intrusion targets
	Human & Vehicle Scene	Monitors people and ordinary vehicles
	Work Vehicle Scene	Monitors large work vehicles
Monitoring Object	Electrified Target	Uses the selected electrified target as the reference object to monitor intrusion targets
	Electronic Fence	Uses the area defined by the electronic fence as the reference object to monitor intrusion targets
Basic Parameters	Alert Rate	Refresh rate of the historical alert list, default: 1 time / second
	Detection Distance	Monitoring range from the laser origin: **3-100 m**
	Downsample Size	Point cloud downsampling parameter: **0.01-0.5 m**
	Neighborhood Threshold	Distance threshold between different targets: **0.3-2 m**, and it must not be smaller than the downsample size
	Point Cloud Filtering	Filtering intensity. The default is strong. If work machinery has black rods or similar structures, set it to weak.
Display / Marking	Video Quality	Adjusts video clarity
	Intrusion Target Point Radius	Size of the marker points for intrusion targets in images / videos
	Electrified Target Point Radius	Size of the marker points for electrified targets in images / videos
Voice Alert	Voice Module	Hardware module used for alert voice broadcasting. Default: **Intercom**
	Intercom Channel	When the voice module is set to intercom, configures the intercom channel: **1-20**
Electrified Safety Configuration	Voltage Level	Sets the voltage level of the electrified target
	Alert Distance	Alert distance between the intrusion target and the electrified target, matched to the voltage level. Rule: reminder distance > warning distance > danger distance

Auxiliary Functions

In addition to real-time monitoring, the system also provides auxiliary functions to help users better perform operation monitoring and management. The auxiliary functions include:

- Audio-Visual Alert
- Point Cloud Preview
- Data Recording
- Video Recording
- Alert Information

Audio-Visual Alert

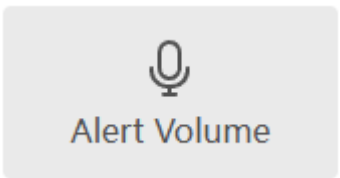
After monitoring starts, when an intrusion target is detected, the video monitoring page displays a flashing alert, and the platform speaker also plays the alert at the same time.

- You can use the flashing control button on the right side of the video monitoring page to control the flashing effect.

  The flashing effects for different alert levels are as follows:

  - Tip: No flashing
  - Warning: Yellow flashing
  - Danger: Red flashing
- You can use the volume control button on the right side of the video monitoring page to adjust the volume.

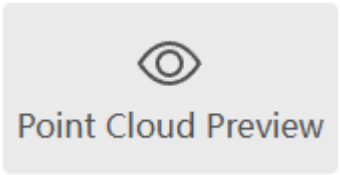
  The sound effects for different alert levels are as follows:

  - Tip: No sound
  - Warning: Slow prompt tone
  - Danger: Fast prompt tone

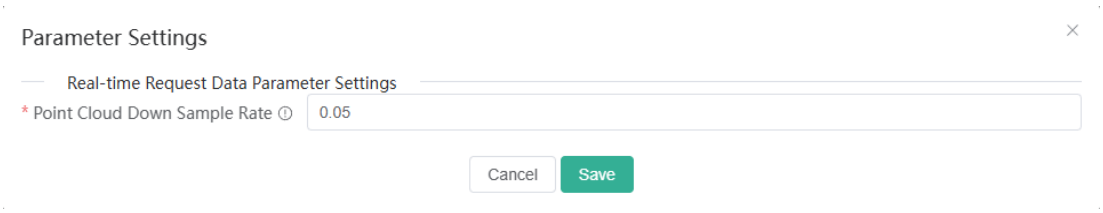
Point Cloud Preview

This function provides a real-time preview of point cloud data to help users understand the 3D structure of the current environment.

- Click the **Point Cloud Preview** button on the right side of the monitoring page to enter the point cloud preview interface.



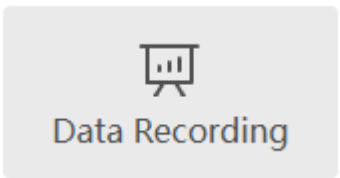
- The point cloud preview interface mainly consists of the following parts:
  - **Point Cloud Display Area**: Displays a 3D view of the real-time point cloud data. The view can be rotated, zoomed, and panned with the mouse.
  - **Toolbar**: Provides **Data Request** and **3D Distance** functions.
- **Data Request**:
  - Click **Open Data Request** to obtain the latest point cloud and image data and update the display.
  - Click **Close Data Request** to stop data acquisition.
  - Click **Parameter Settings** to open the settings dialog, where you can configure the **Point Cloud Down Sample Rate**. The smaller the down sample rate, the denser the point cloud. After the parameter is updated, reopen data request.



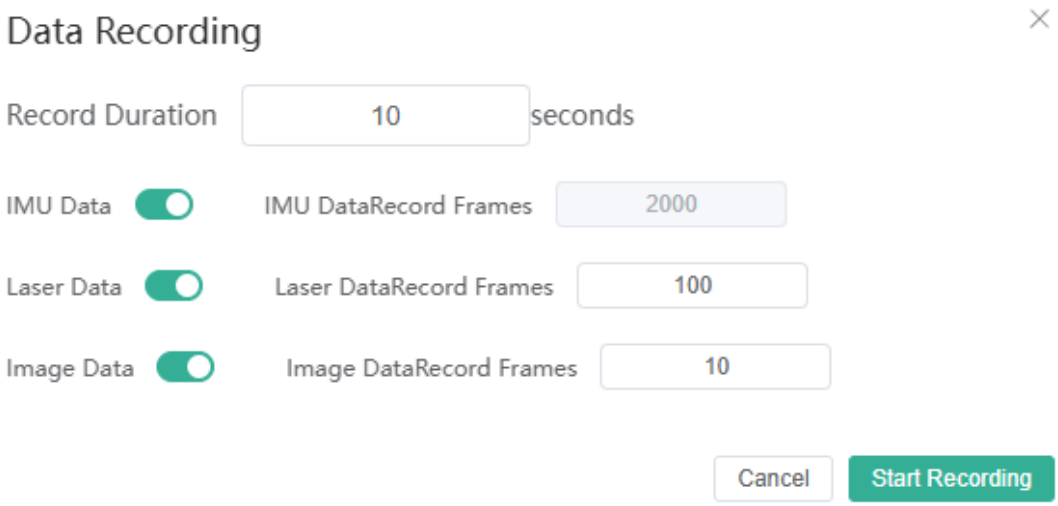
Data Recording

Users can choose to record raw sensor data.

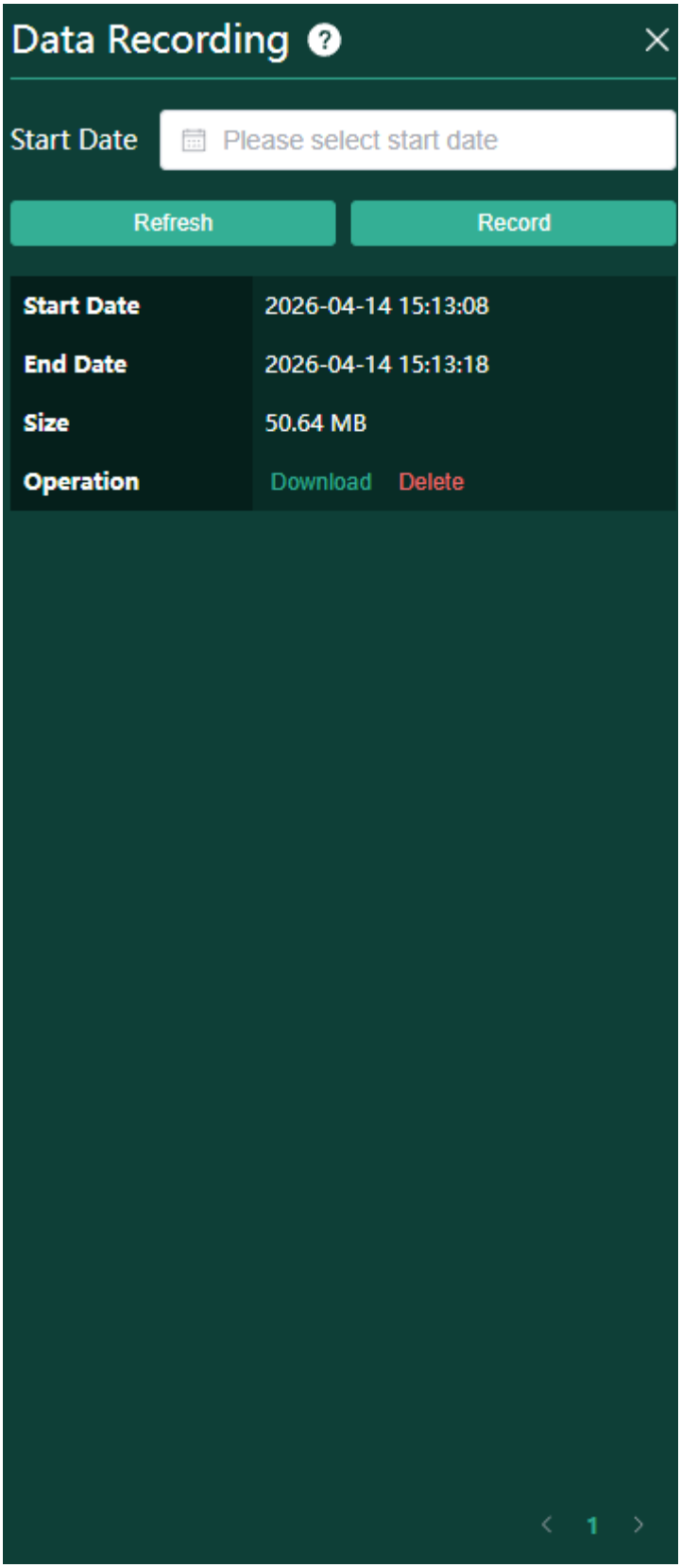
- Open the data recording interface
  - Click the **Data Recording** button on the right side of the monitoring page to open the data recording interface.



- Record data
  - Click **Record** to configure data recording. If there are no special requirements, keep the default configuration and click **Start Recording**.



- After waiting for a few minutes, you can view the data information in the data recording interface.



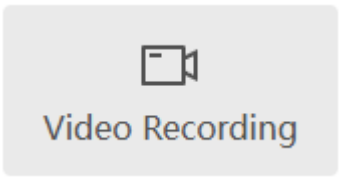
- Manage data recording files
  - Refresh
    Click the **Refresh** button in the data recording interface to refresh the data recording list.

- Download and Delete
  Click **Download** to download the data recording result file. Click **Delete** to delete the data recording result file.

Video Recording

Users can choose to record monitoring videos for later analysis and playback.

- Open the video recording interface
  - Click the **Video Recording** button on the right side of the monitoring page to open the video recording interface.



- Record video
  - Manual Mode
    Click **Start Recording** to start video recording, and click **Stop Recording** to end it. A single video can be recorded for up to 10 minutes.
  - Auto Record Mode
    No manual start or stop is required. The system automatically starts recording when an alert occurs and automatically stops recording after the alert ends. A single video can be recorded for up to 10

minutes.



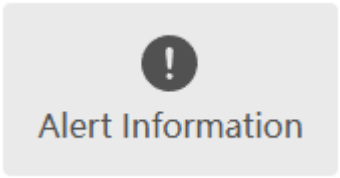
- Manage video recording files
  - Refresh
    Click the **Refresh** button in the video recording interface to refresh the video recording list.

- Play, Download, and Delete
  Click **Play** to play the recorded video file.
  Click **Download** to download the video file. Click **Delete** to delete the video file.

Alert Information

View, filter, download, and delete historical alert data for easier alert management.

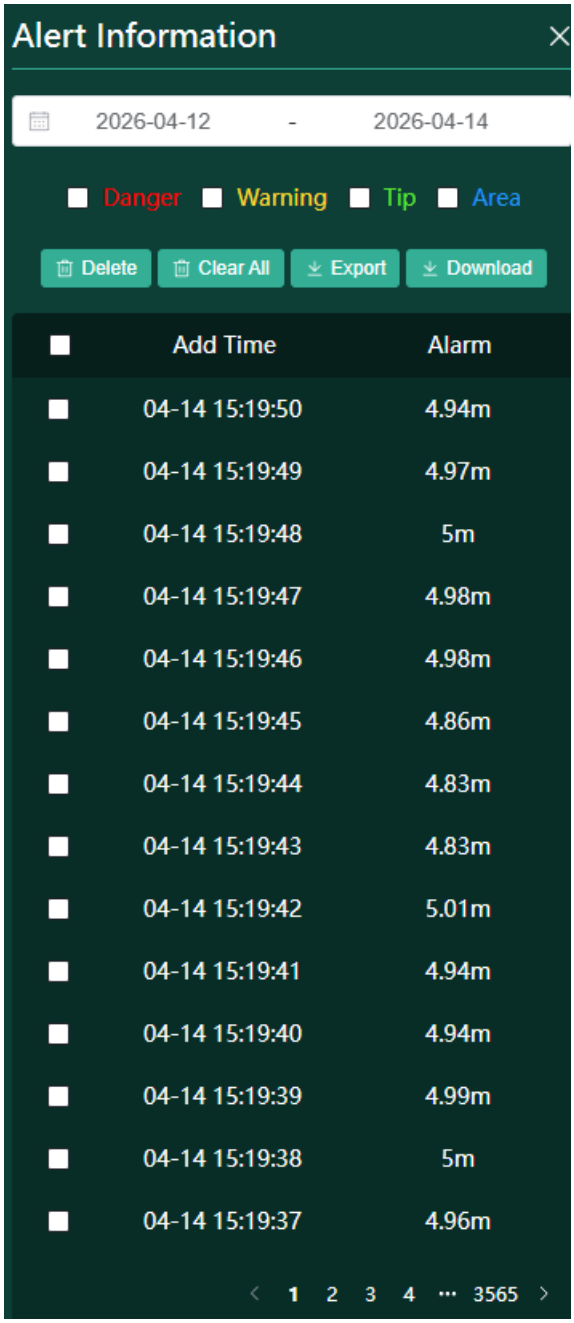
- Open the alert information interface
  - Click the **Alert Information** button on the right side of the monitoring page to open the alert information interface.



- View historical alert data
  - On the Alert Information page, click any row in the list on the left to view the corresponding alert point cloud and image.



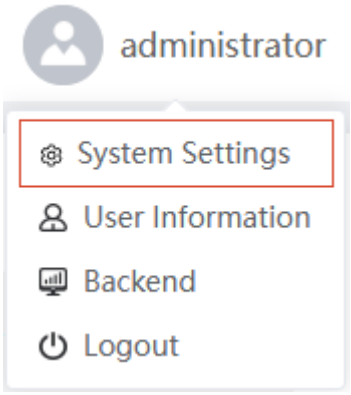
- Filter historical alert data
  - Click the **Date** fields to select the start date and end date. The list will then display only the alerts within that time period.
  - Select **Danger**, and the list will show only danger alerts.
  - Select **Warning**, and the list will show only warning alerts.
  - Select **Tip**, and the list will show only tip alerts.
  - Select **Area**, and the list will show only area alerts.
  - If none are selected, the list displays all alert types by default.

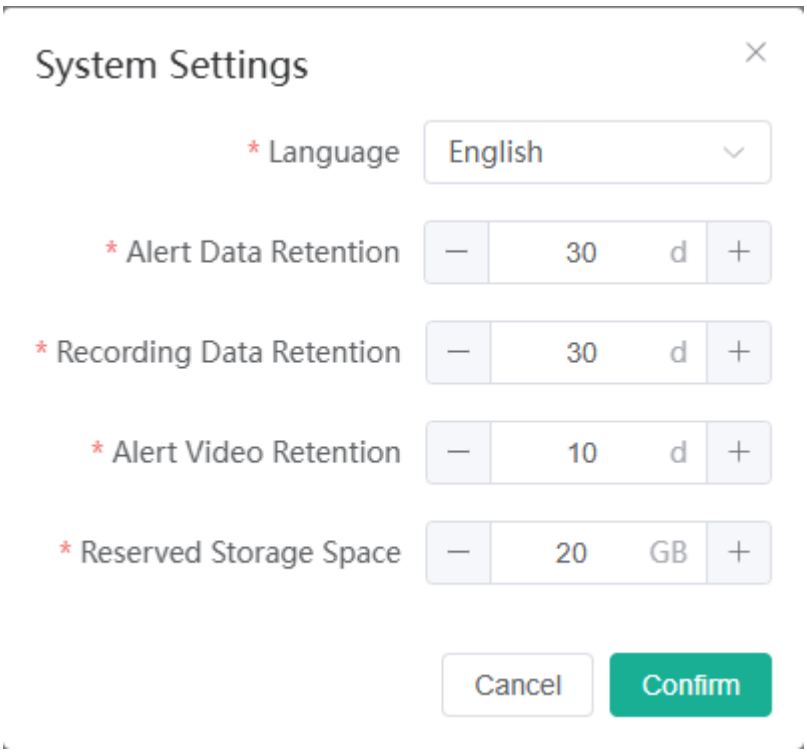


- Download historical alert data
    - In the list on the left side of the alert preview page, first select the checkboxes for the alerts to be downloaded.
    - Click **Download** to download them.
    - Click **Export** to export all alert distance information.
- Delete historical alert data
    - Select the data to be deleted first, and then click **Delete** to delete the selected data.
    - Select the alert categories first, and then click **Clear All** to delete all data in the selected categories.

System Settings

This section is used to configure the core system parameters for managing data storage, alert behavior, and system resources.





Parameter Configuration

The following parameters control the data lifecycle and core system behavior.

Parameter	Description and Configuration Advice
Language	Supports switching between **Chinese** and **English**. The default is **Auto**, which automatically matches the system language.
Alert Data Retention	Sets the retention period for alert records of all devices in the system. **Unit: days**
Recording Data Retention	Sets the retention period for recorded device point cloud data and image data. **Unit: days**
Alert Video Retention	Sets the retention period for recorded videos. **Unit: days**
Reserved Storage Space	The system monitors the remaining space on the deployment disk. When the remaining space falls below this threshold, data will be deleted automatically in chronological order from oldest to newest, including snapshots, alerts, logs, and videos, to free up space. **Unit: GB**

FAQ

Software-Related Issues

Supported Platforms

- Currently, LiMonitor Server supports only Windows systems, Windows 10 and later.
- PCs and tablets are supported.

Installer Reports a File-in-Use Error

- First try uninstalling the previous software or temporarily disabling antivirus software, then reinstall. If installation still fails, restart the computer and reinstall.

Installer Reports a Port-in-Use Error

- Try restarting the computer or temporarily disabling antivirus software, then reinstall. If installation still fails, contact technical support.

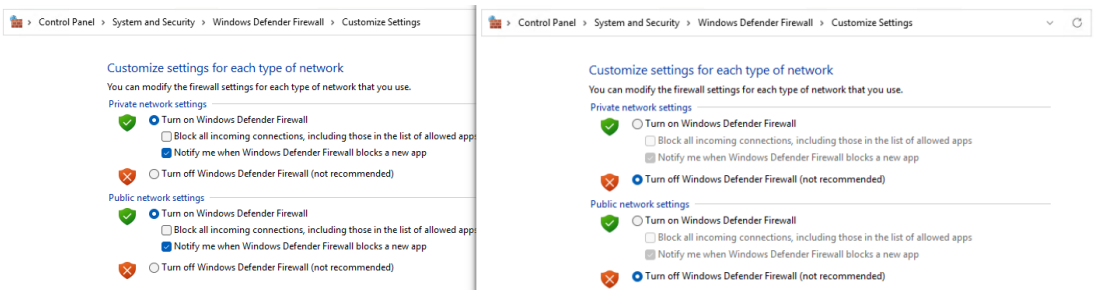
Software Uninstallation Takes a Long Time

- If software uninstallation takes a long time, it may be caused by excessive data in the database.

Platform-Related Issues

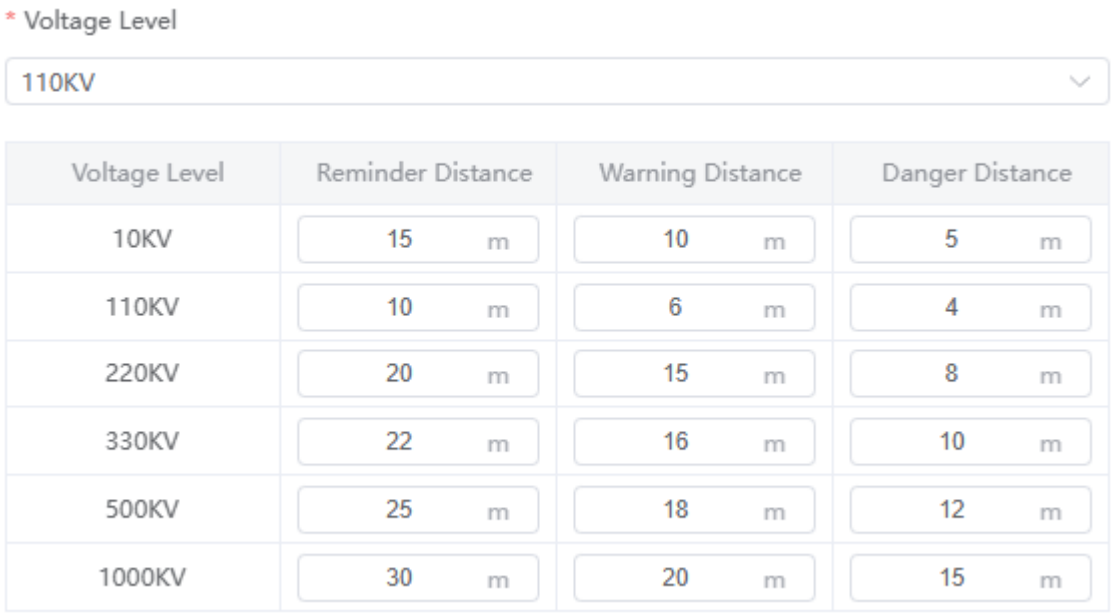
No Response When Requesting Data

- Confirm whether the computer is properly connected to **LiMonitor WiFi**.
- Confirm whether the **IP address** has been modified, or restore automatic IP assignment and then reset the static IP address to **192.168.1.13**.
- If both items above are normal but no data is returned, adjust the computer firewall settings:
    - In Windows, open **Control Panel** -> **System and Security** -> **Windows Defender Firewall**. Click **Turn Windows Defender Firewall on or off** on the left to enter the settings page.
    - Set one of the following two options, then click **OK** to save the firewall settings.



No Video Alert in Intrusion Detection Mode

- Is the intrusion target within the alert distance? In **Parameter Settings** on the video monitoring page, appropriately increase the alert distance for the corresponding voltage level.



Distant Targets Are Not Rendered Clearly in the Video

- In **Parameter Settings** on the video monitoring page, increase the **Intrusion Target Point Radius** parameter and save it.



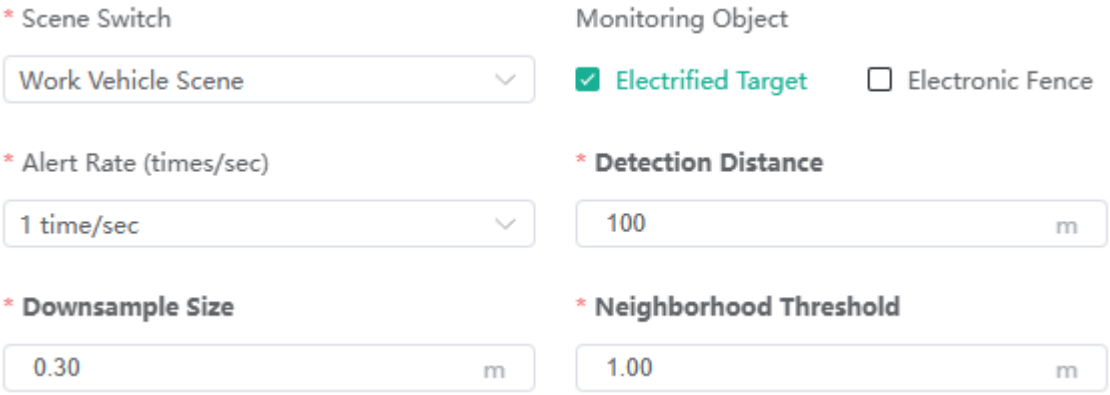
Unable to Select the Target Correctly During Point Selection

- Open **Parameter Settings** on the preview page and reduce the **Point Cloud Down Sample Rate** parameter (**0 < down sample rate <= 0.5**). Then perform initialization again and select the target by point or box selection.

Multiple Alerts Appear on a Large Vehicle

- In **Parameter Settings** on the video monitoring page, switch the scene to **Work Vehicle Scene**.

- You can also increase the **Neighborhood Threshold** parameter value.

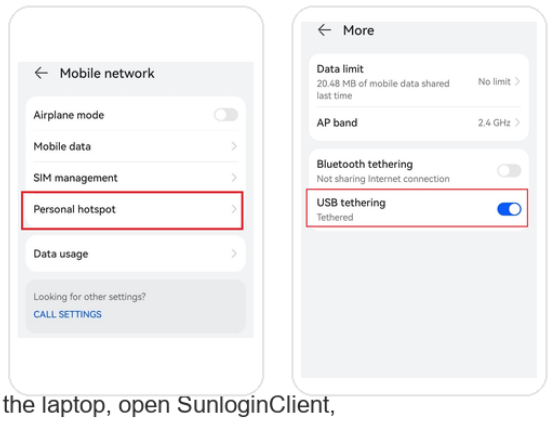


Device-Related Issues

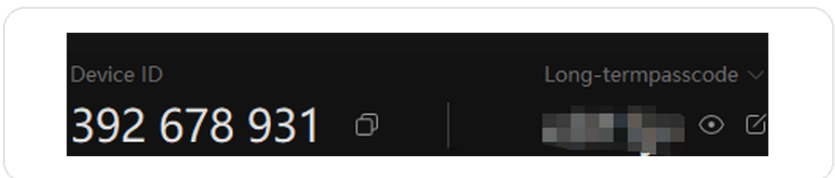
What Should I Do When Remote Debugging Is Required?

- Prepare an Android phone.
- Use a data cable to connect the Android phone to the on-site laptop.
- In **Settings** on the phone, select **Mobile Network > Personal Hotspot > More Sharing Settings > USB Tethering** and turn it on.

① Prepare an Android phone.
② Use a data cable to connect the Android phone to the on-site laptop.
③ On the phone, open Settings > Mobile network > Personal hotspot > More > USB tethering, then turn it on.



④ On the laptop, open SunloginClient, then send the Device ID and long-term passcode to the remote support engineer.

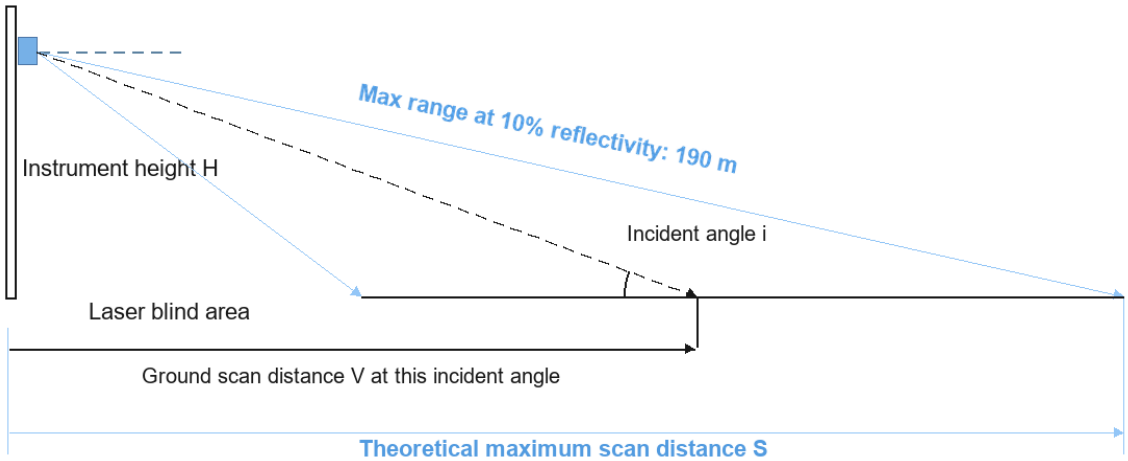


The Radar Cannot Scan Thin Power Lines

- Laser ranging is related to the reflectivity and incident angle of the target. Lower reflectivity reduces the ranging distance, and the smaller the laser incident angle, the fewer points are reflected back.

Range (@ 100 klx)	190 m @ 10% reflectivity
	230 m @ 20% reflectivity
	320 m @ 80% reflectivity
Range (@ 0 klx)	190 m @ 10% reflectivity
	260 m @ 20% reflectivity
	450 m @ 80% reflectivity

- When the external-damage-prevention product scans the ground, the farther the distance, the smaller the incident angle of the laser beam. Therefore, ground point clouds beyond 150 m are often difficult to return.
- When the external-damage-prevention product scans power lines, the scanning direction is basically consistent with the natural sag direction of thin power lines, so only a small number of power line point clouds are usually returned.



Appendix

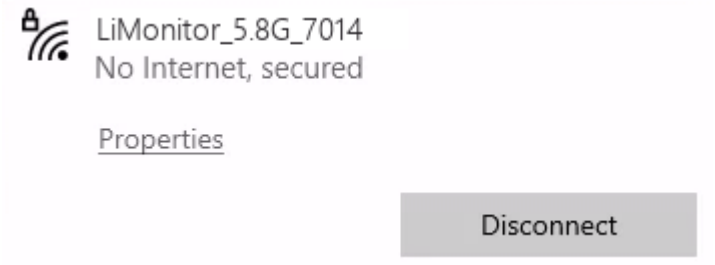
This chapter introduces the appendices of the user manual.

- Modify IP Address

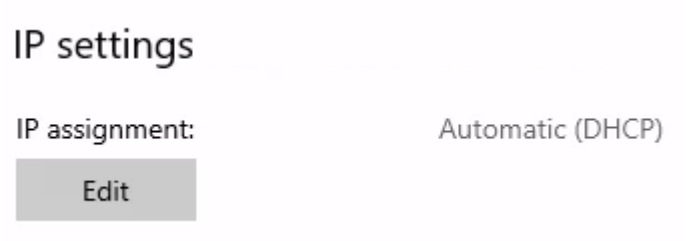
IP Settings

Change the IP Address of the Corresponding Wi-Fi Connection in Windows 10

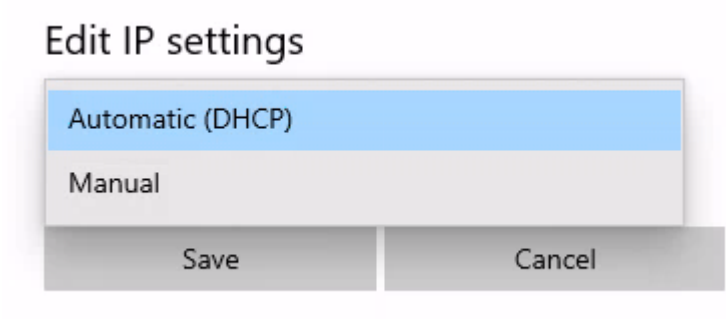
- Click **Properties**.



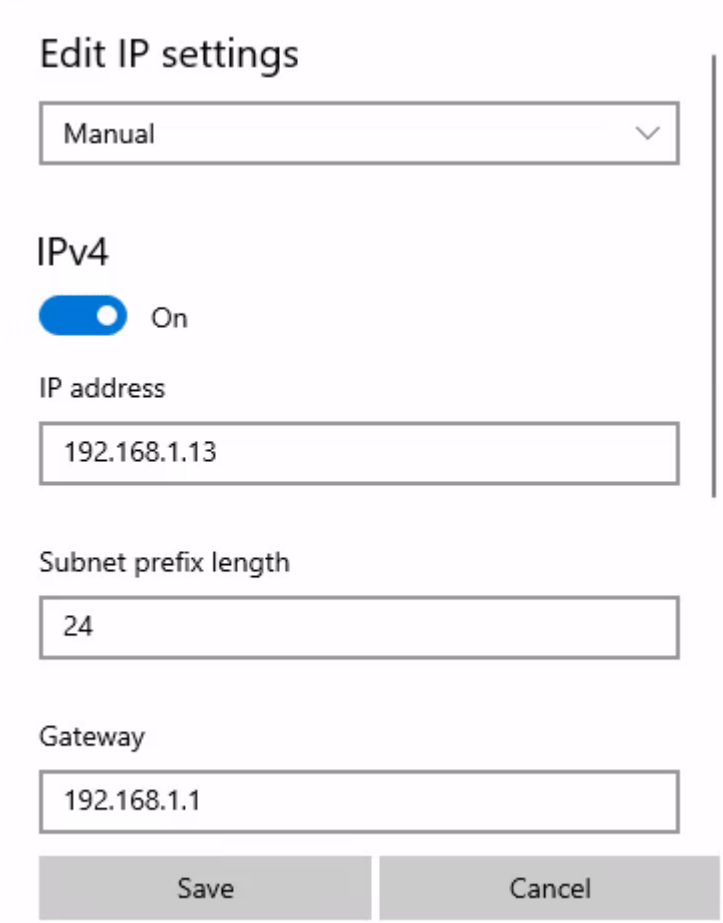
- Scroll down and click **Edit** under IP settings.



- Select **Manual**.



- Turn on IPv4. Set the IP address to **192.168.1.13**, the subnet prefix length to **24**, and the gateway to

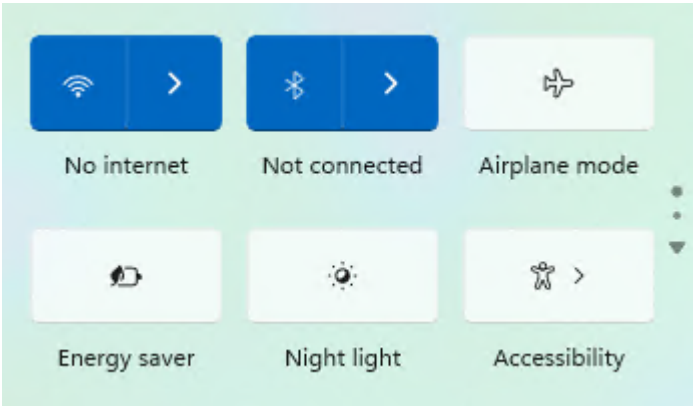


192.168.1.1.

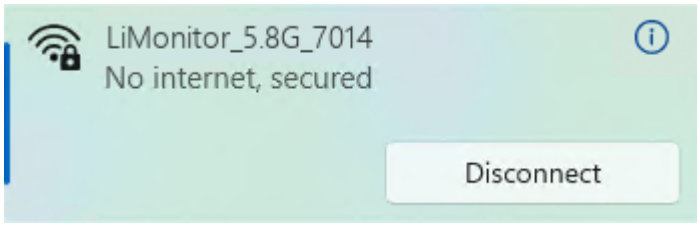
- Click **Save**.

Change the IP Address of the Corresponding Wi-Fi Connection in Windows 11

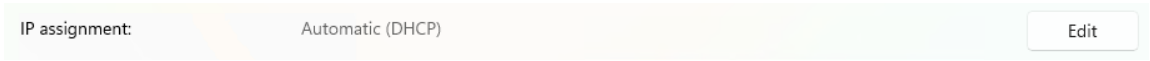
- Click the **>** icon to the right of the Wi-Fi icon.



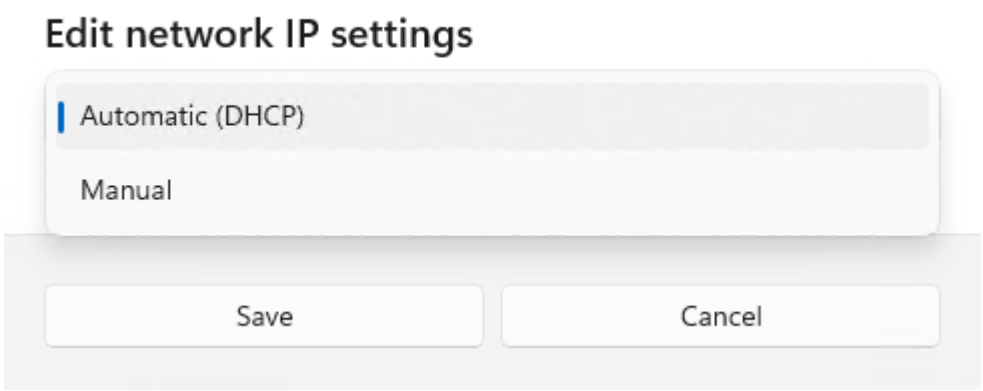
- Click the **Properties** icon. 



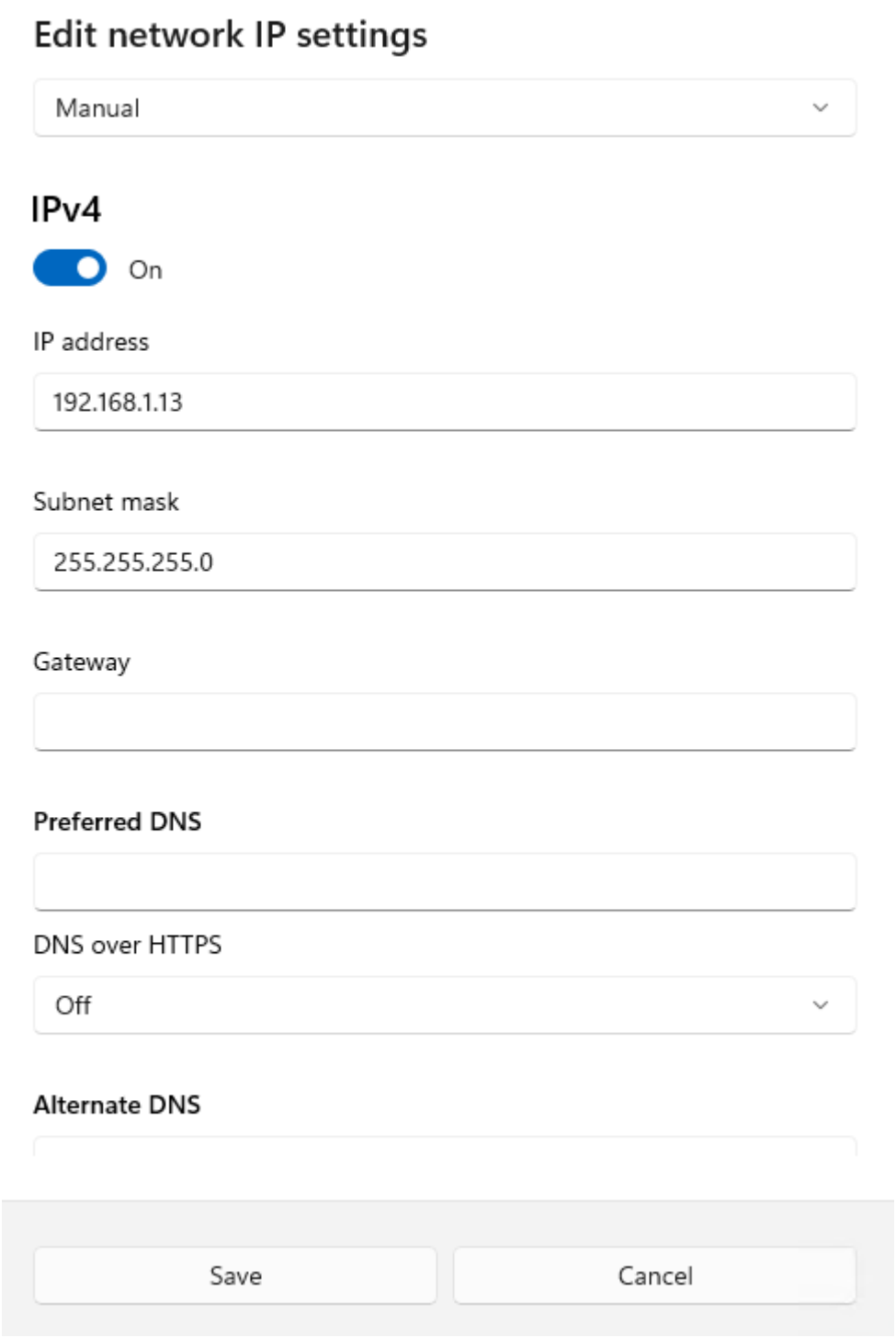
- Scroll down and click **Edit** next to IP assignment.



- Select **Manual**.



- Turn on IPv4. Set the IP address to **192.168.1.13** and the subnet mask to **255.255.255.0**.



- Click **Save**.