



JARNEX JN-OL4A – 2K LANTERN OUTDOOR CAMERA

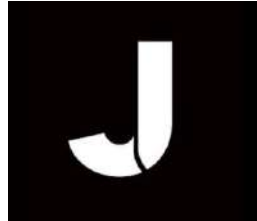
By Jarnex

JARNEX 2K LANTERN CAMERA W HUMAN DETECTION, DUSK TO DAWN, 2-WAY AUDIO, CLOUD/SD RECORDING

Thank you for choosing our Jarnex Integrated Wall Lantern and Surveillance Camera. This device seamlessly blends architectural outdoor lighting with professional-grade security, featuring 2K HD video, AI human tracking, and full-color night vision. Designed for reliable performance with dual-band Wi-Fi and anti-rust construction, our lantern offers complete control through mobile app integration—from customized lighting modes to real-time two-way audio. Please read this manual carefully to ensure proper installation and optimal operation.

Rev. 2.1 - 2/2/2026

Jarnex JN-OL4A 2K Outdoor Wall Lantern Camera Owner's Manual



Introduction

Thank you for choosing the Jarnex **JN-OL4A** Outdoor Wall Lantern Camera. This guide will help you install, set up, and utilize the advanced features of your new security camera.

⚠ IMPORTANT SAFETY WARNING! Prior to starting installation, please verify that the necessary electrical wiring is in place. If existing wiring is not available at your desired location, **contact a licensed electrician** to install wiring certified for outdoor use. Improper installation, a lack of electrical expertise, or the use of incorrect tools can result in severe bodily injury or death. Please strictly adhere to all local electrical codes and safety regulations. If you are uncertain about any step of this process, prioritize your safety and consult a qualified professional.

Guide Chapter Contents

Chapter 1: Specifications

- Quick Specification Overview
- What's included in the box
- Storage Compatibility
- Cloud Storage Pricing Table

Chapter 2: Safety and Physical Installation

- Important safety warnings, Safety 1st
- Jarnex lantern installation
- Wiring Connection
- Final assembly, light bulb information
- SD Card and Installation

Chapter 3: Jarnex Mobile App and Initial Setup

- Jarnex Mobile App Specifications
- Downloading Jarnex app and creating an account
- Power initialization and understanding pairing mode indicator lights
- Adding device to the Jarnex mobile app
- Room and Home management

Chapter 4: Daily Operation and Notifications

- Live view user interface
- Main Application Features
- Remote Panning Controls
- Security and Alerts
- Notifications (motion detection, Sound detection)

Chapter 5: Storage Management

- Storage
- Cloud and Local Storage
- Event based recordings Vs. Continuous recording
- Using an SD Card
- Cloud Recording
- Cloud recording management

Chapter 6: Playback

- Playback
- Playing back on SD Card
- Backing Up Footage
- The Jarnex Timeline

Chapter 7: Smart Home Integration (Amazon Alexa, Google Home)

- Prerequisites
- Amazon Alexa App
- Adding your Jarnex Device

Chapter 8: ONVIF and Static Addressing

- What is ONVIF
- What is a Static IP Address
- Setting up your Jarnex Device with a Static IP

Chapter 9: Technical Support information

- Jarnex Technical Support Team
- Jarnex Contact Information
- Support and Contact Information

Chapter 1

Specifications

In this chapter, we detail the device's technical specifications to provide you with a comprehensive understanding of its true capabilities and operational limits.

Quick Specification List

- ❖ 2K High-Definition image sensor, full quad HD image
- ❖ WDR (Wide Dynamic Range)
- ❖ 120-degree wide field of view
- ❖ Cloud recording, local recording*
- ❖ Dusk-to-dawn, Nighttime IR with enhanced color night vision
- ❖ Pan control (Left/Right) through Jarnex mobile app
- ❖ Private Mode
- ❖ Real-Time 2-way audio communication
- ❖ Noise cancelling speaker
- ❖ A.I Motion alerts, (human, animal, vehicle)

The Jarnex Lantern device was engineered to be used in porch areas where the device is safe from the elements such as rain and excessive sunshine. This device is meant for outdoors but not for direct sunlight or direct rain. The device is IP51 Rated and will withstand light rain, light dust and light sunlight.

Note

The Jarnex Lantern Camera only has a Horizontal X-Axis (left and right)

Because of how the device is engineered physically, the device is not capable of performing automatic tilt, however, you are able to adjust the lens tilt from 90 to 45-degree angle. This is especially useful if the Jarnex lantern camera is installed at a higher level.

What's Included in the box

Package Contents



1x - Lantern Camera

1x - Mounting Metal Bracket

1x - Wiring Nuts

Mounting Screws:

- **2x - #12, 1" Screws**
- **2x - #12, ¾" Screws**
- **2x - #10, 1" Screws**
- **2x - #10, ¾" Screws**
- **2x - Hex Nuts**
- **1x - Ground Screw**
- **1x - Ground Screw Washer**

Please note: Extra hardware might be included

Storage Compatibility

Cloud

The Jarnex lantern has the capability to record to local SD card storage and cloud storage. You can use either storage options to record to.

SD Card

SD Card- If you'd like to use an SD card, the following brands have been tested on our labs to work consistently. Using any other brands may result in different experiences. Please use other brands at your own risk.

Known Tested SD Card Brands

- Jarnex
- Kingston
- SanDisk
- PNY
- Samsung
- Amazon Basics
- Lexar

Cloud Storage and Pricing

The JARNEX mobile app offers various subscription tiers to suit your security needs. Please refer to the table below for plan details and pricing*.

Device Count	Video Retention	Billing Cycle	Rate*
1	30 Days	Year	\$59.99
1	7 Days	Year	\$29.99
2	7 Days	Monthly	\$4.99
2	7 Days	Year	\$49.99
3	7 Days	Monthly	\$6.99

**Please note: Due to economic factors, prices are not final and are always prone to change.*

Chapter 2

Safety and Physical Installation

Safety First

⚠ IMPORTANT: *Before commencing any phase of the installation process, it is strictly mandatory to **de-energize the circuit** by switching the power off at the primary fuse box or circuit breaker panel. Verification that electrical flow has been completely terminated is the most essential step in ensuring a safe working environment.*

Risk Assessment

Failure to isolate the power source before beginning work poses extreme risks:

- **Life-Threatening Hazard:** Working on energized equipment can result in severe electrical shock, permanent physical injury, or fatality.
- **Arc Flash Potential:** Improper handling of live wires can trigger an arc flash, leading to extreme thermal burns and equipment destruction.
- **Property Damage:** Accidental short circuits may cause irreparable damage to the device being installed or the building's electrical infrastructure.

Strict Compliance Required: Electrical current must be treated with the utmost professional respect. If you are unsure of how to identify the correct breaker or lack the tools to test for "dead" wires, please cease operations immediately and consult a licensed electrician. **Always prioritize safety protocols over project speed!**

⚠ IMPORTANT: *To ensure the integrity of your hardware and the safety of all personnel, it is imperative to **utilize the appropriate tools** specifically engineered for each task. The use of improper or poorly maintained equipment—such as wire cutters with dull or damaged blades—introduces significant risks*

Jarnex Lantern Installation

Mounting this lantern camera is designed to be easy. The lantern comes with a versatile wall plate that can be screwed onto most sturdy standard wall materials, including:

- Stucco, Plywood, or Wood
- Gypsum board / Drywall
- Concrete board (e.g., Hardi-Backer, Durock Sheet, WonderBoard,)
- Vinyl Siding, Sheet Metal, Metal, Aluminum, Fiberglass, Foam, Fiber Cement, Brick Veneer, and Stone

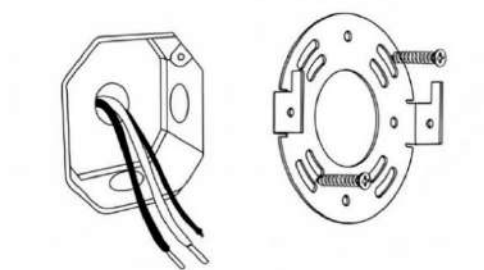
Mount the backplate horizontally to the wall or junction box

- You can use a junction box, or use the plate directly to the wall
- If using the plate directly to the wall, use the supplied anchors and screws for installation
- Please use a level to make sure the plate is aligned straight

⚠ IMPORTANT: *The mounting plate must be anchored directly into a wall stud or a structural joist to ensure long-term stability. If the mounting surface is behind drywall, use a stud finder to accurately locate a support member before drilling.*

**Mount the backplate horizontally.
Connect the wires:**

■ Phase (Live) Wire □ Neutral Wire
■ Ground Wire

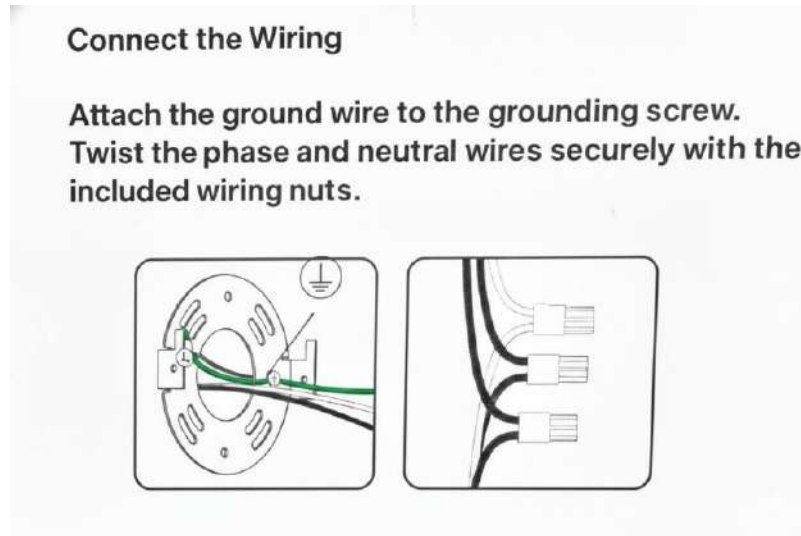


Secure the camera mounting plate to the wall surface using the included hardware. This plate serves as the permanent foundation for the device.

⚠ IMPORTANT SAFETY WARNING! *Ensure your wiring is ready before starting. If you do not have existing electrical wiring at the desired location, please **CONTACT A LOCAL ELECTRICIAN** to run and install wiring suitable for outdoor usage*

Wiring Connection

Secure the ground conductor to the designated grounding screw. Utilizing the provided wire nuts, terminate the phase and neutral connections, ensuring a firm and secure fit.



Wiring Color Guide

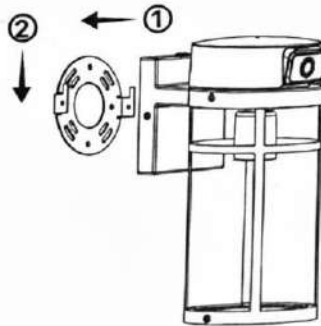
- **Black:** Phase (Live) Wire
- **White:** Neutral Wire
- **Green/Yellow:** Ground Wire

Once the wiring has been properly routed to the installation site, utilize the provided wire nuts to secure all four conductors together. Ensure all connections are firm and insulated to prevent electrical interference or shorts.

Final Assembly

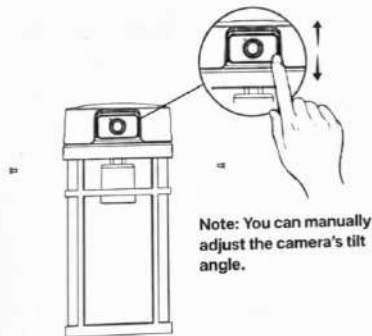
Align the camera body with the mounting plate and secure it according to the locking mechanism (Align camera with plate mounts and slide down onto mounts). Once physically mounted, verify that the unit is receiving power and the status indicator is active. Install set screw once completed.

Align the wall plate and secure the lantern camera to the backplate using the provided screws.



Align the wall plate with the Jarnex lantern and secure the camera to the back plate by sliding lantern down onto the back plate's double arms

Ensure the light fixture is firmly in place.

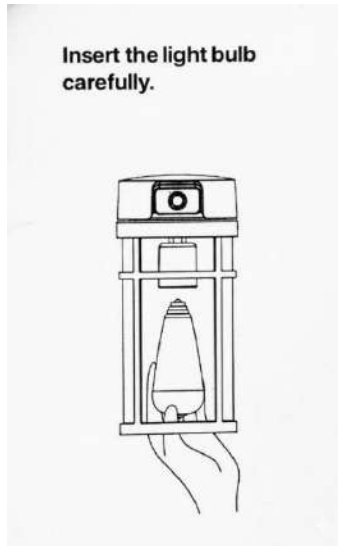


Note: You can manually adjust the camera's tilt angle.

Once the device is wired and installed, use the plate screws to keep the device locked securely into the backplate. Use your finger to manually adjust lens angle (Max: 35° down)

Insert Light Bulb Carefully

Twist Light Bulb Carefully onto the light fixture twisting slowly clockwise. Please make sure to use a compatible light bulb.



Bulb Compatibility Guidelines

Please install a light bulb with an **E26** Standard Medium base. For optimal performance, the bulb should produce approximately **1100** Lumens.

Recommended: **11W** L.E.D (75W Equivalent)

Alternative: **75W** Incandescent Light Bulb

Maximum Wattage Light Bulb: **100W**

⚠ CAUTION: *Exceeding the specified wattage rating or using a different light bulb size is not recommended and poses a significant fire hazard. Operation of this fixture outside of recommended specifications is at the user's sole discretion and risk.*

SD Card

The SD card slot is situated opposite the lens and is safeguarded from the elements by a protective rubber cover, which also conceals the reset button. To maintain the camera's weather resistance and prevent moisture ingress, verify that the rubber seal is fully re-seated following installation.

SD Card Installation Instructions

1. Once you have selected your SD card, remove the rubber stopper from the back of the Camera. This can be done with a small flathead screwdriver, or butter knife.



2. Orient the SD card so the branded sticker face is facing down and the gold contact pins are facing up. Gently slide the card into the designated slot and press until you feel it click securely into place. Once the card is fully seated, firmly press the protective rubber cover back over the slot to seal the compartment. **MAKE** sure compartment is fully sealed as this protects the device from the external elements (water, dust, dirt) entering the camera.

⚠ CAUTION: Ensure the rubber cover is completely flush with the camera body. Failure to properly replace the cover may result in mechanical damage to the device during pan and tilt (left/right) operations.

Chapter 3

Jarnex Mobile App and Initial Setup

To begin using your Jarnex device, you will need to download and configure the official Jarnex mobile app. As the primary control hub for your device, this free application is essential for setup and daily operation. It is currently available for both iOS and Android smartphones; however, please note that your mobile device must be a 2019 model or newer to run the software successfully.

Please be aware that Jarnex exclusively supports its official application. We strongly advise against using any third-party apps to connect to your device. Even if an unofficial application appears to function properly, we do not support or recommend its use under any circumstances.

IMPORTANT NOTE ON SOFTWARE COMPATIBILITY

Jarnex devices, including the Jarnex Lantern, are strictly compatible with the Jarnex mobile app only. We do not support or guarantee the performance of any third-party applications, such as Smart Life. Attempting to operate the device through unauthorized applications may lead to system instability, including but not limited to video loss, missing functionality, missing shared users, and impaired functionality, even if the initial connection appears successful. This instruction manual and our customer support services apply only to the official Jarnex mobile app.

Jarnex Mobile App Specifications and Network Prerequisites

The Jarnex mobile app serves as the primary interface for configuring and operating your lantern device. The majority of device management and functionality is accessed directly through this application.

Key Capabilities:

- **Centralized Management:** Add and manage multiple Jarnex devices from a single account without any capacity limitations.
- **Custom Organization:** Group specific devices into custom rooms for streamlined control and easy access.
- **Global Remote Access:** Monitor and control your registered devices from anywhere in the world with an active internet connection.
- **Simplified Networking:** Utilizing P2P cloud-based networking, the app eliminates the need for complex network configurations such as port forwarding.
- **Platform Compatibility:** The Jarnex mobile app is available for download on both Apple (iOS) and Android platforms.

Network Prerequisites

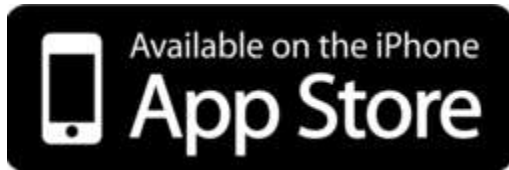
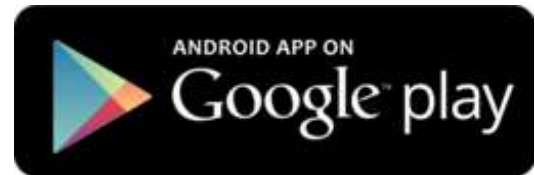
Before beginning, ensure your Wi-Fi network supports **2.4GHz and 5Ghz** network. This camera requires a 2.4GHz or a 5GHz network to connect as WIFI 6 is unsupported at this time. Consult your router's manual if you are unsure.

1. Download and install the **Jarnex App** on your mobile phone by using Google Play Store (Android) or Apple App Store (Apple iPhone)
2. Create a Jarnex account by first choosing your Country, then using a valid E-mail address to create your Jarnex account
3. After inputting your E-mail address, click on the "I Agree to Policy" checkbox.
4. Click **GET VERIFICATION CODE**. A code will be sent to your email address you used on step 2.
5. After you input the Verification Code, click Next
6. You will then be logged into the Jarnex mobile app and ready to add devices.

Mobile App Setup

Downloading The Jarnex Mobile App

You can download the Jarnex mobile app from the Apple App Store, or From the Android Google Play Store.



Note on Tablet Compatibility: *Currently, there is no dedicated Jarnex application for tablets. While the mobile app can be installed and used on a tablet, we highly recommend using a smartphone for the best experience. Using the mobile app on a tablet may result in minor display or functional inconsistencies.*

Account Creation and App Setup

Please follow these steps to create your Jarnex account

1. **Launch the App:** Open the Jarnex mobile app. On the initial welcome screen, tap **Sign Up**.
2. **Select Region:** Choose your current country or region from the list.
3. **Enter Email:** Input your preferred email address.
4. **Accept Terms:** Check the box to agree to the **Privacy Policy** and **User Agreement**.
5. **Request Code:** Tap the **Get Verification Code** button.

 **NOTE:** A 6-digit verification code will be sent to the email address you registered with. If you do not see the email in your inbox within a few minutes, please check your Spam or Junk folder.

6. **Verify Email Code:** Enter the 6-digit verification code into the app when prompted.
7. **Create Password:** Set up a secure password for your account. Passwords must be 6 to 20 characters long and include a mix of both letters and numbers.
8. **Set Data Permissions:** The app will ask you to review and select your preferences for two data requests:
 - a. **Service Maintenance & Improvement Activity:** Allowing this lets us collect product usage data to optimize your experience. If declined, basic device functionality will still be available, but experience optimization features will be disabled.

- b. Personalized Recommendations:** Allowing this lets us send you tailored content, including scene linkages and best-usage advice for your devices. If declined, you will no longer receive these personalized suggestions.
- 9. Enter the App:** After confirming your data preferences, tap **Go to App**.
- 10. Add Your Device:** You will immediately be routed to the device homepage. To begin setting up your camera, tap **Add Device** in the center of the screen.

Once you have created your Jarnex account, you are now ready to add devices to your mobile app

Before you Begin...

Before you begin adding your devices, please make sure of the following:

a. Make Sure Your Device Is Powered On

Ensure the lantern camera is connected to a stable power source. If the device was professionally installed, please verify with your installer that the unit is receiving consistent power.

b. Put Your Device On Pairing Mode

Upon initial power-up or following a factory reset, the device will enter Pairing Mode automatically. Please take a look at the status indicator light schedule below to see the camera's status.



Status Indicator Light

Status Indicator: Locate the LED on the camera lens.

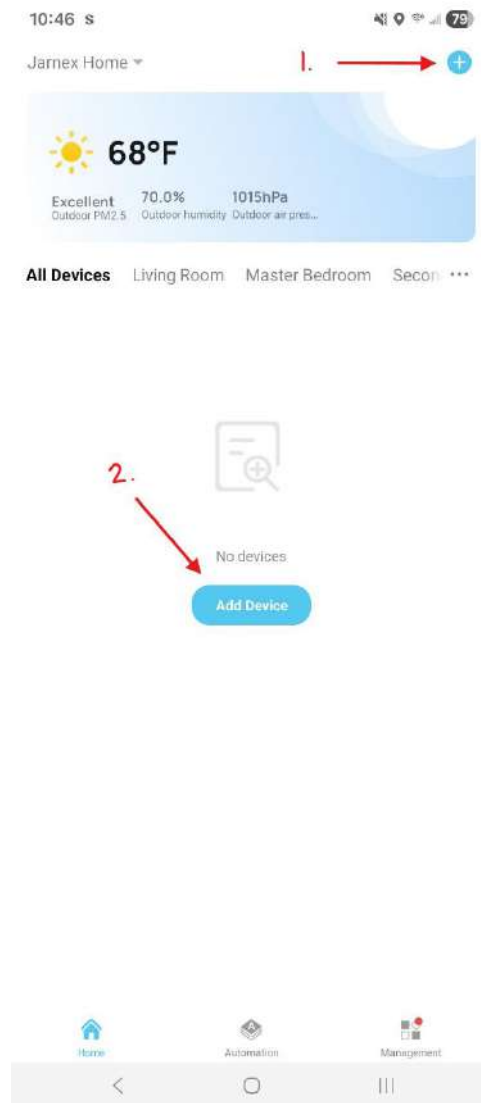
- a. **High Flashing Blue:** The camera is connecting to the network
- b. **Low Flashing Blue:** The camera is in connecting mode
- c. **Light OFF:** The camera is successfully connected

Adding Jarnex device to mobile app

To begin adding devices to the mobile app, please follow these steps

Initiate Connection in the App

Open the JARNEX mobile app on your smartphone. 1. Tap the "+" icon in the top-right corner of the dashboard and 2. select **"Add Device."**



Device Discovery

The Jarnex Lantern should appear automatically under the **"Searching for Devices"** section within a few seconds.



Select Your Device

Once the Lantern icon appears, tap it to begin the integration process.

Enter Network Information

On this next screen, enter your network Wi-Fi information

1. SSID
2. SSID Password (Wi-Fi Password)

Please Note: If your mobile phone is already connected to your Wi-Fi, the credentials will automatically populate

10:46 67% S

Enter Wi-Fi Information

Choose Wi-Fi and enter password

1. Select Wi-Fi

2.

Next

Network Configuration

When prompted, enter your Wi-Fi credentials to connect the camera to your local network. Ensure you are using a 2.4GHz/5GHz network if required by your specific model. If you are unsure about your Wi-Fi settings, please log in to your router and confirm the settings, or contact your local I.T installer, or ISP for assistance with your wireless network.

Device Successfully Added

Once you have added your Jarnex lantern camera to the app, you can then edit the name of the camera by clicking on the “Pencil” icon (Blue Arrow) on the right side. Once satisfied and finished, you can then click on “Done” to complete the process.



The Mobile App Will Go To Live View Once Completed

Once the adding process is completed, the mobile app will then show the live view of the Jarnex Lantern Device.



Device Organization: Homes and Rooms

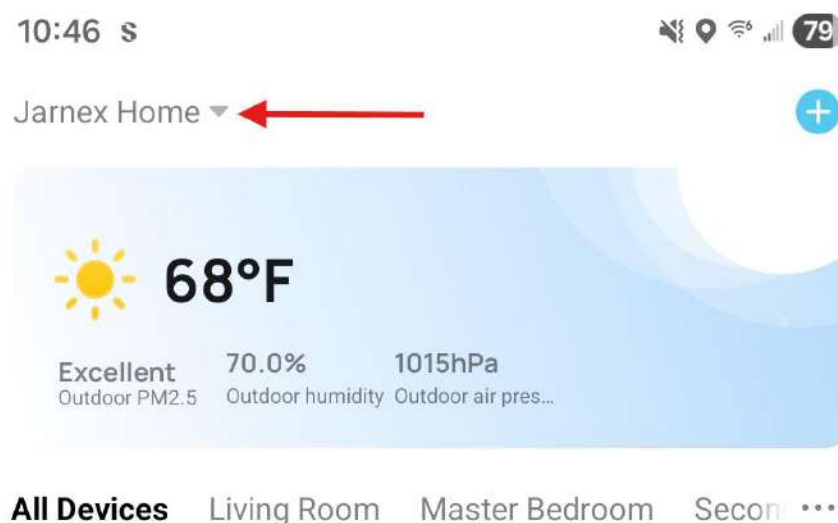
The JARNEX mobile application utilizes a straightforward, hierarchical structure to help you intuitively organize, filter, and navigate your devices.

- **Homes (Locations):** Create distinct profiles for different physical sites, such as your "Primary Residence," "Office," or "Vacation Property." This allows you to easily switch between different properties and filter your overall camera feeds.
- **Rooms (Placements):** Within each Home, categorize individual devices by their specific placement, such as the "Living Room," "Front Porch," or "Garage."

Creating homes and rooms will make managing your Jarnex devices much easier, especially if you have multiple devices and locations.

How to create a Home location

To create a home location, start off by opening up your Jarnex mobile application. Select the drop-down menu (Jarnex Home by default)

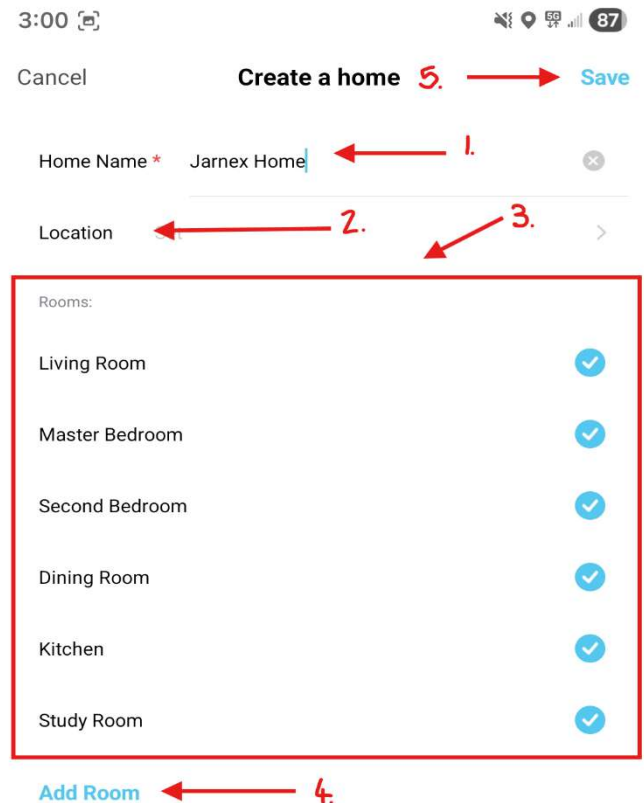


On the menu, select Create a home

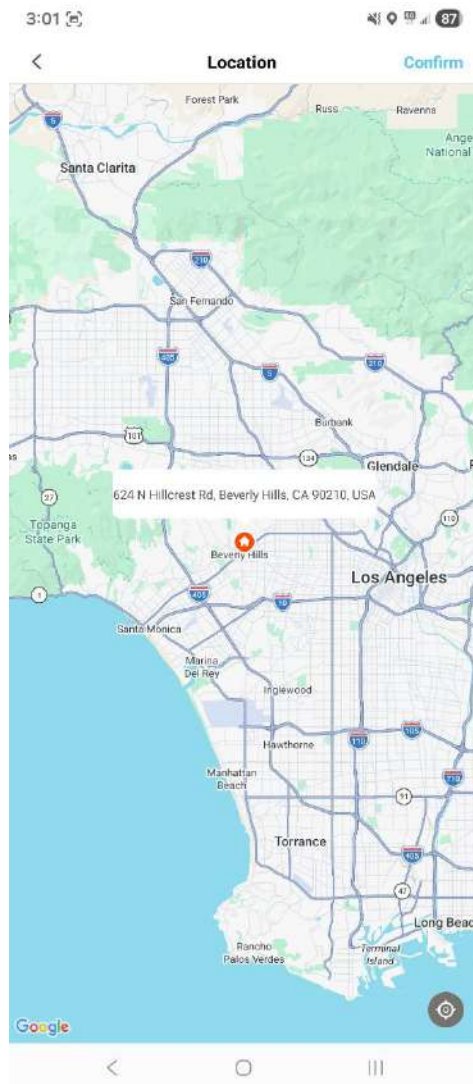


Next, Input the following information

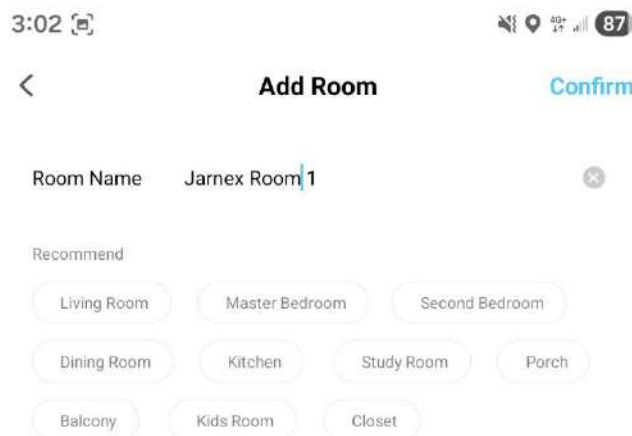
1. Home Name
2. Location
3. Select your Rooms (Default Shown)
4. Add Room
5. Save



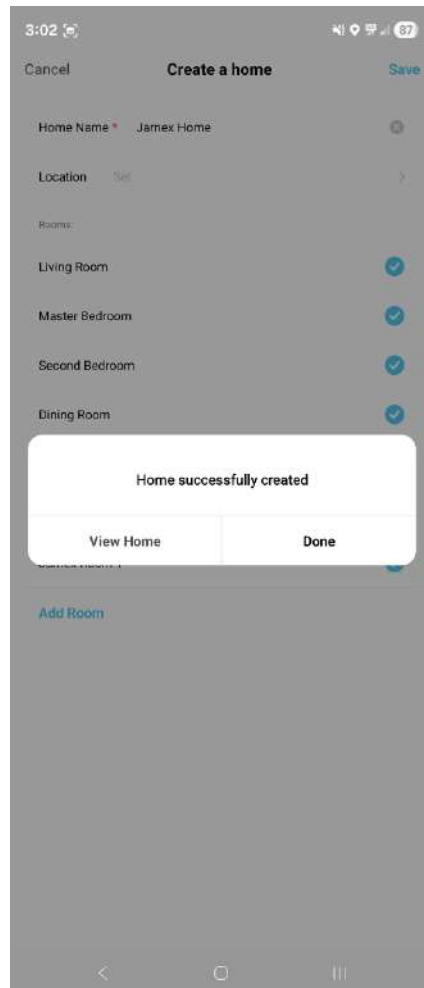
Location: Location lets you select the actual location of your Jarnex device for accurate results and for better organization.



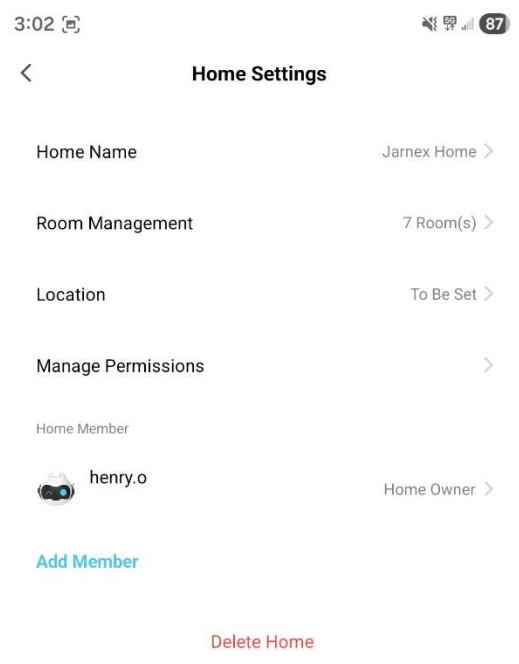
Add Room: You can select Add Room if you wish to add more rooms to your Home



Once you have completed adding rooms to your Home, click Done.



On this same screen, you can edit your Home and rooms.



Chapter 4

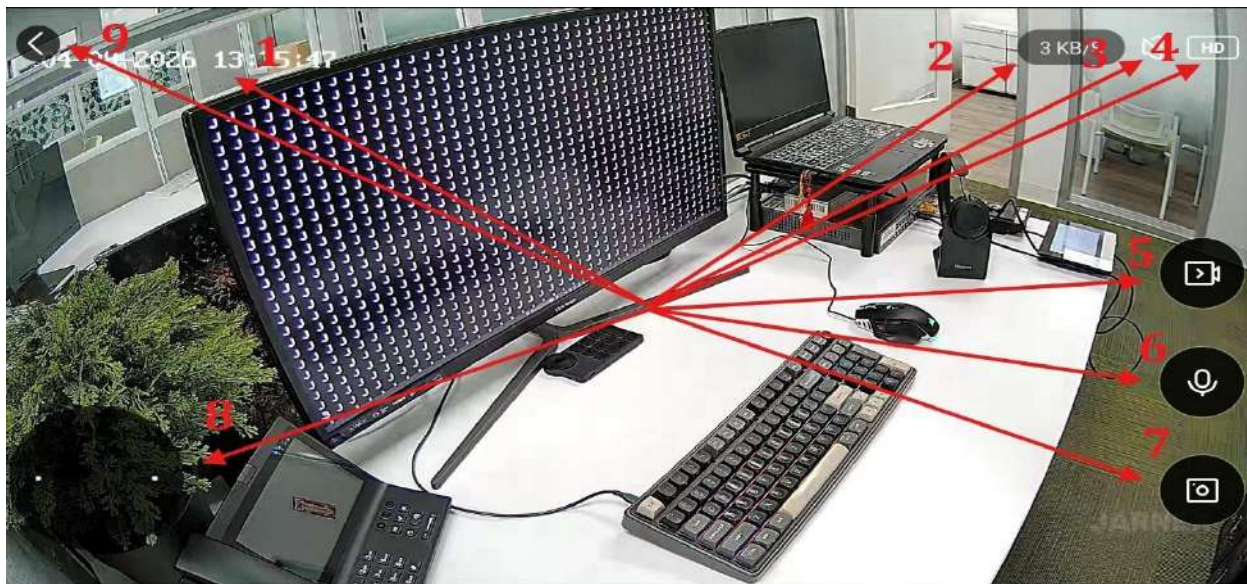
Daily Operation and Notifications

This chapter provides a comprehensive guide to the daily operation of your JARNEX devices, detailing how to effectively utilize the mobile application's control interface. It covers essential functions—from navigating the live dashboard to leveraging advanced software features—ensuring you can maximize the utility and security of your hardware on a day-to-day basis.

Live View

To view your camera's live view, open the Jarnex app and tap the Jarnex lantern icon. This will take you immediately to the **Live Feed**.

Live View U.I (User Interface)

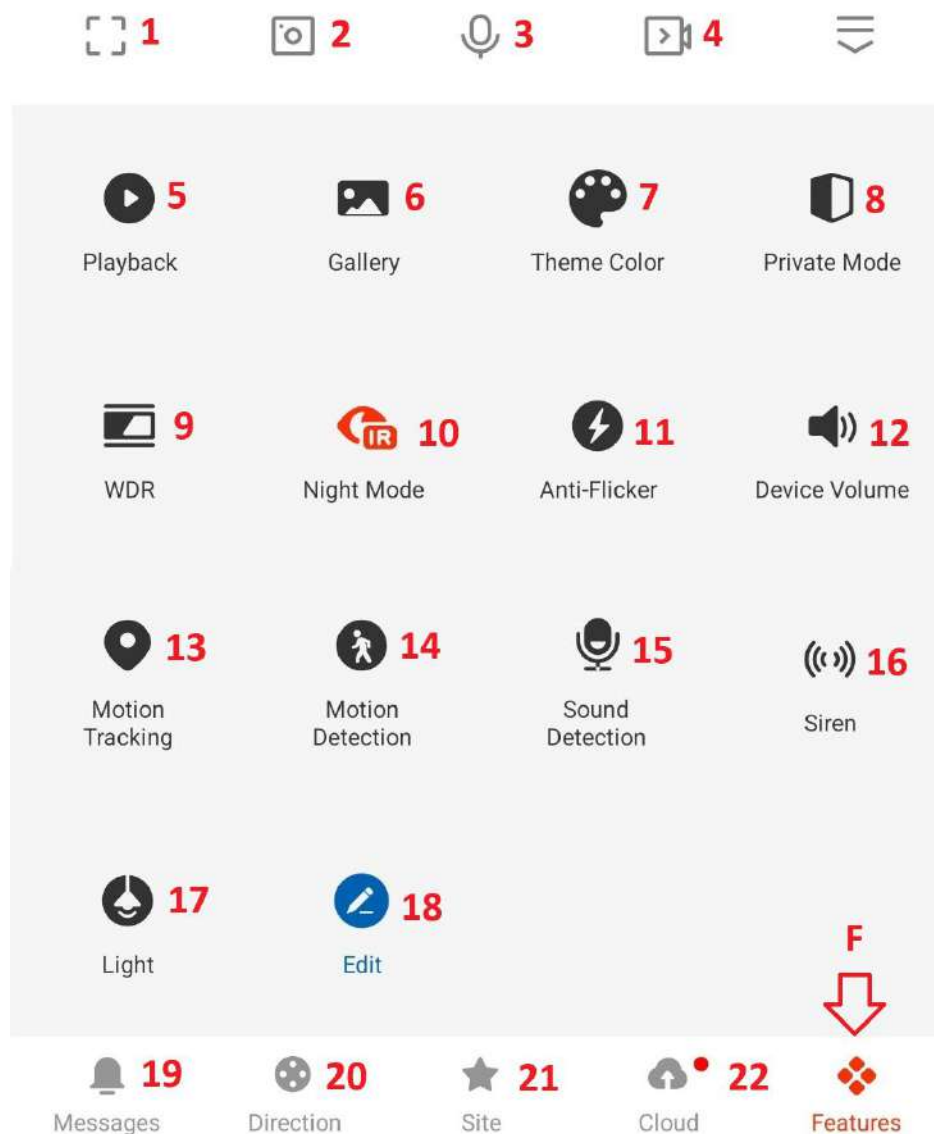


1. **System Clock** – Displays the current time and date for accurate monitoring.
2. **Bitrate Status** – Real time data transmission speed (Primarily for technical diagnostics).
3. **Audio Toggle** – Click the Speaker Icon to enable or mute live audio.
4. **Display Quality:** Switch between HD (High Definition) for maximum clarity and SD (Standard Definition) for reduced data usage.
5. **Video Clip Capture** – Records a short video segment of the live feed and saves it directly to your gallery.
6. **Two-Way Audio** – Press and hold the Microphone icon to speak through the device.
7. **Snapshot** – Capture a still image of the current view and saves it to your gallery.
8. **Pan Control** – Remotely adjust the camera lens to the left or right.
9. **Exit** – Select the back button to close the live view and return to the main menu.

Jarnex Main Application Features

This section provides a detailed breakdown of the JARNEX application's interface and functional capabilities. For ease of navigation, the features are categorized by their primary utility: **Live View Toolbar**, **Features Menu**, and **Advanced Features**.

Main Application Features



Live View Toolbar (Primary Controls)

- 1. Full Screen** – Rotates the display to landscape mode for a larger view
- 2. Snapshot** - Capture a still image of the current view and saves it to your gallery.
- 3. Two-Way Audio** – Press and hold the Microphone icon to speak through the device.

4. **Video Clip Capture** – Records a short video segment of the live feed and saves it directly to your gallery

Features Menu (System Settings)

5. **Playback** – Access video history stored on your SD card or Cloud account.
6. **Gallery** – View images and videos saved locally within the Jarnex app.
7. **Theme Color** – Switch between **Light** and **Dark** modes for better visibility.
8. **Private Mode** – Disables the lens, microphone, and recording for total privacy. Tap "Turn on Camera" to resume.
9. **WDR** – Wide Dynamic Range, Balances lighting in high-contrast environments to prevent images from being too dark or washed out.
10. **Night Mode Settings**
 - a. **Smart Mode:** Security lights activate only when motion is detected.
 - b. **D2D (Dusk-to-Dawn)** - Lights automatically turn on at sunset and off at sunrise.
11. **Anti-Flicker** – Adjusts the frequency (50Hz or 60Hz) to eliminate strobing caused by nearby fluorescent lights.
12. **Device Volume** – Adjusts the output level for the live audio stream.
13. **Motion Tracking** – Automatically pans left and right to physically follow human movement
14. **Motion Detection** – Identifies movement within the cameras field of view and automatically triggers recording
15. **Sound Detection** – Utilizes built-in microphone to detect audio events and initiate recording
16. **Siren** – A built-in 90dB alarm that can be activated manually or triggered automatically upon detecting motion or sound.
17. **Light** – Integrated illumination that can be toggled manually or set to activate automatically when motion is detected.
18. **Edit** – Customize your interface by rearranging icons to prioritize your most frequently used controls.

Advanced Features (Monitoring and Storage)

19. **Messages** – Review a log of triggered events and motion detection alerts.
20. **Direction** - Remotely pan the camera lens to adjust your field of view.
21. **Site Presets** – Save and jump to your favorite camera angles (up to 6 presets)
22. **Cloud Storage:** View and manage subscription plans for secure off-site recording.
23. **F – (features)** – Returns you to the main features control panel.

Remote Panning Controls

You can easily adjust your camera's horizontal field of view directly from your smartphone. To do this, tap the **DIRECTION** icon within the mobile app. A virtual joystick will appear on your screen. Simply drag the joystick left or right to physically pan the camera in real-time.

Note: Camera is only limited to pan left and right. Tilting camera down can be achieved manually

Tilting Camera Lens Down

The camera can manually be tilted up to 45 degrees (**DOWN ONLY**) using your finger directly on the lantern lens bezel. Please see (fig. 2.1) on how to properly tilt lens.



Fig. 2.1

Alerts and Notifications

The Jarnex app can alert you when certain actions have taken place such as motion detection, sound detection, etc. You can configure the app to notify you when these types of events take place.

Real-Time Alerts

The Jarnex mobile app provides comprehensive Real-Time Alerts, allowing you to receive instant notifications for critical events like motion detection, active motion tracking, and sound anomalies. By customizing these alert triggers and integrating the automated siren, you can maintain total situational awareness and instantly deter potential threats as they happen.

- **Motion Tracking:** When enabled, the camera will automatically physically track a subject as long as they are within the camera's range. The normal range for the Jarnex lantern is about 15 feet (many environmental factors can affect this such as bright sunlight, rain, snow, fog, etc.)
- **Motion Detection:** The Jarnex lantern camera can detect motion movement occurring in front of the device. The typical range for motion detection is about 10-15 feet (on a clear, sunny day) Using cloud recording will record 24/7 ONLY and show motion alerts, while using an SD card, you will have the option to record 24/7 OR events. Please see below for more detailed information.
- **Sound Detection:** The Jarnex lantern camera has a built-in microphone that can detect external sound. When sound is detected, the device will start recording up to 15 seconds.
- **Siren:** Manually trigger a 2-second loud siren burst. Useful for scaring away potential threats you see on the live feed.
- **Messages:** View all your notifications, such as Motion Detection and Sound Detection alerts.

How to enable alerts on the Jarnex App

Once you have your SD card or cloud service running and working, you can then set your alerts on. Please follow the instructions below.

Motion Detection

To enable motion detection, make sure the following settings are configured

1. Open you Jarnex mobile app
2. Select the device you would like to set motion detection on
3. Click on the top right 3 mini dots
4. Select DETECTION ALARM SETTINGS
5. Enable MOTION DETECTION ALARM

Human-Only Motion Alerts

The Jarnex lantern camera has a built-in advanced A.I that will alert you of human motion only. This way, other false motion events such as an animal, vehicle, moving brush/trees in the wind don't alert you.

To Enable this feature, configure the following

1. Open the Jarnex Mobile app
2. Select the device you would like to set human motion detection only
3. Click on the top right 3 mini dots
4. Select DETECTION ALARM SETTINGS
5. Enable HUMAN DETECTION (Only Human Events)

Motion/ Activity Alarm Detection Area

The Jarnex mobile app allows you to set a specific area to detect motion alerts. This is useful in case you have a very specific area such as a small porch surrounded by trees/bushes, busy street in the background, etc. The A.I will only notify you of events that are tracked inside this area when enabled. Anything outside of this area, the app will ignore, even if it is right in front of the camera.

To enable this feature, please follow these steps

1. Open the Jarnex Mobile app
2. Select the device you would like to set human motion detection only
3. Click on the top right 3 mini dots
4. Select MOTION DETECTION SETTINGS
5. Select SURVEILLANCE AREA SETTINGS

Anything that is outside the red highlighted area will be ignored and anything inside will be alerted.

Alarm sensitivity settings

The **Alarm Sensitivity** slider allows you to fine-tune how easily your camera's motion detection is triggered, helping you balance optimal security with the prevention of false alarms.

How it works:

High Sensitivity: The camera will detect smaller or more distant movements. This is ideal for maximum security but may trigger false alarms from pets, swaying branches, or passing cars.

Low Sensitivity: The camera will only trigger an alert for larger, more obvious movements closer to the lens, such as a person entering the immediate area.

How to adjust Alarm sensitivity

1. Open the Jarnex Mobile app
2. Select the device you would like to set human motion detection only
3. Click on the top right 3 mini dots
4. Select MOTION DETECTION SETTINGS
5. Select ALARM SENSITIVITY LEVEL

Please Note: You can adjust the sensitivity levels to either LOW, MEDIUM, or HIGH. If you are frequently receiving motion alerts, you can set the level down to either MEDIUM or LOW, where as if you are not receiving enough alerts, you can set the level to HIGH.

Motion Tracking

The **Motion Tracking** feature ensures that a moving subject remains clearly visible at all times by automatically following their movement across the room.

How it works:

Automatic Panning: Utilizing the camera's motorized capabilities, this feature detects a person and automatically pans (swivels left and right) to follow their path.

Continuous Monitoring: By physically moving the camera lens to keep the subject centered, it guarantees that important activity is captured from start to finish, even if the person steps outside the camera's original viewing angle.

Enable Motion Tracking

1. Open the Jarnex Mobile app
2. Select the device you would like to set Motion tracking on
3. Click on the top right 3 mini dots
4. Select MOTION DETECTION SETTINGS
5. Enable MOTION TRACKING

Please note: Motion tracking feature is limited. If the subject constantly moves, is too far away, or there are too many moving objects within the frame, the motion tracking feature will cancel out. The subject will be tracked for approximately 15-20 seconds, then the camera will reset back to its original position for the next motion event.

Smart Frame

The **Smart Frame** feature enhances your live view and video playback by automatically highlighting key subjects, making them effortless to visually track on your screen.

How it works:

Object Recognition: When the camera's AI identifies specific subjects within its field of view—most commonly human figures—it actively locks onto them.

Visual Bounding Box: The camera draws a visible frame (or box) around the recognized subject, tracking their movement continuously across the video feed so you never lose sight of the action.

Enable Smart Frame:

1. Open the Jarnex Mobile app
2. Select the device you would like to set Smart Frame on
3. Click on the top right 3 mini dots
4. Select MOTION DETECTION SETTINGS
5. Click on SMART FRAME, a window will open
6. Enable SMART FRAME

Note: On this page, you may also see “Display Frame”. This setting has no use for now and is intended for future integrations as setting it to either on or off has no effect on Smart Frame.

Trigger Siren

The **Trigger Siren** feature enhances your security by automatically sounding a loud, built-in alarm to deter potential intruders when the camera detects a threat.

How it works:

- **Abnormal Activity:** The siren will automatically activate if the camera's AI detects suspicious or unusual behavior within its field of view.
- **Motion Detection:** You can set the siren to trigger instantly whenever any unexpected movement is detected by the camera's sensors.

Note: For optimal performance and to prevent false alarms, you can adjust the motion detection sensitivity and configure specific siren triggers within the camera's settings menu. You can also enable HUMAN DETECTION to ONLY for the Siren to trigger when only a Human is detected.

Enable Trigger Siren

1. Open the Jarnex Mobile app
2. Select the device you would like to trigger Siren on
3. Click on the top right 3 mini dots
4. Select MOTION DETECTION SETTINGS
5. Enable Trigger Siren

Sound Detection

The **Sound Detection** feature allows your camera to monitor its surroundings for auditory anomalies, adding an extra layer of security beyond visual monitoring.

How it works:

- **Environmental Awareness:** The camera actively listens for sudden or significant changes in the audio environment, such as breaking glass, loud crashes, or alarms.
- **Customizable Sensitivity:** You can finely tune the sound detection settings to accurately identify relevant sound changes while filtering out normal, everyday background noise.

Tip: Adjust the sound sensitivity levels based on the camera's specific location (e.g., lower sensitivity in a busy living area, higher sensitivity in a quiet garage) to ensure accurate alerts and minimize false notifications.

Enable Sound Detection

1. Open Jarnex Mobile App'
2. Select the device you would like to trigger siren on
3. Click on the top right 3 mini dots
4. Scroll down and enable Sound Detection

Motion Detection Alerts (Notifications)

The **Motion Detection Alerts** feature keeps you informed of activity around your property by sending real-time notifications directly to your smartphone.

How it works:

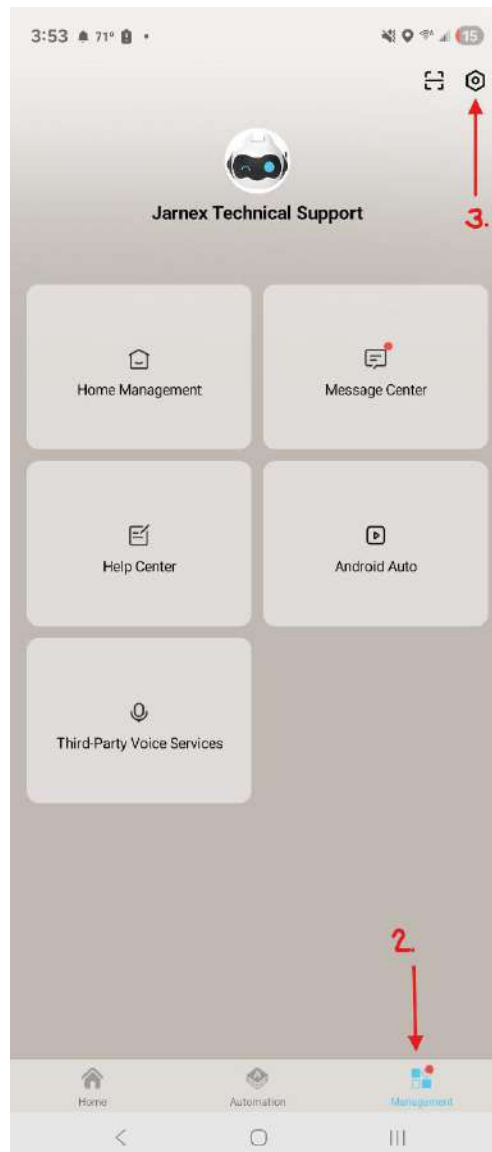
- **Instant Notifications:** The moment your Jarnex device detects movement, it triggers an immediate push notification to the Jarnex companion app.
- **Real-Time Awareness:** You receive these alerts exactly as the activity is happening, allowing you to quickly open the app, check your live feed, and assess the situation.

- **Comprehensive Alerts:** Beyond just motion, the system is designed to keep you updated on various events, meaning you can also receive immediate alerts when features like sound detection are triggered.

Note: To ensure you do not miss any critical updates, please verify that push notifications are fully enabled for the Jarnex app within your smartphone's system settings. Please see your owner's manual for the type of smartphone you are using on how to enable notifications.

Enable Notifications on the Jarnex app

1. Open the Jarnex mobile app
2. On the bottom 3 icons, choose MANAGEMENT
3. Select the upper-right icon in the shape of a hexagonal bolt
4. Select APP NOTIFICATION



On this screen, you can fully customize how and when you receive alerts from your Jarnex device. The settings are divided into the following categories:

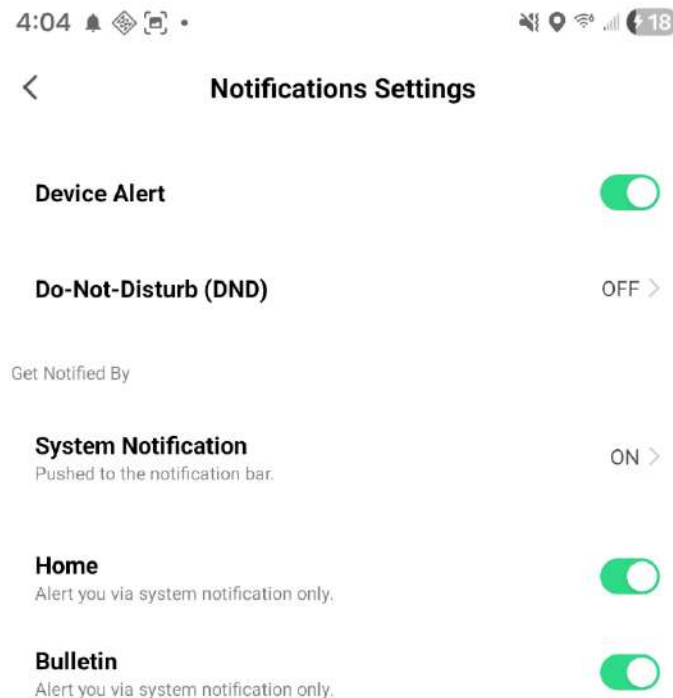
General Alerts

- **Device Alert:** This acts as the master switch to enable or disable all notifications for the Jarnex app.
Note: Enabling this feature will reveal the Do-Not-Disturb option.
- **Do-Not-Disturb (DND):** Turn this on to temporarily silence all notification alerts. This is ideal for when you want uninterrupted quiet time without changing your primary notification preferences.

Get Notified By (Alert Destinations) These options allow you to specify exactly where you want your notifications to appear:

- **System Notification:** Toggle this to ON to receive standard push notifications directly on your smartphone's lock screen and notification banner.
- **Home:** Displays visual alerts directly on the main dashboard of the Jarnex app.
- **Bulletin:** Logs your alerts exclusively in the Message section of the Jarnex app for easy reviewing later.

Tip for Maximum Visibility: If you want to ensure you never miss an event and receive regular motion detection alerts on both your phone's system and throughout the app, please enable **Device Alert, System Notification, Home, and Bulletin.**



Chapter 5

Storage, Recording, and Playback

Cloud and Local Storage Information

The **JARNEX** camera is equipped with integrated motion detection sensors designed to monitor activity within the device's immediate field of view. Under optimal environmental conditions (e.g., clear daylight), the standard motion detection range is approximately **10–15 feet**.

Recording behavior is determined by your chosen storage medium:

- **Cloud Storage:** Supports continuous **24/7 recording** exclusively. When active, the application will provide time-stamped motion alerts within the continuous timeline for easy event identification.
- **Local SD Card Storage:** Offers versatile recording modes. Users may select between **Continuous (24/7) Recording** or **Event-Based Recording**, which captures footage only when motion is detected to conserve storage space. This option is **ONLY** presented when using an SD Card.

Event- Based Recording vs. Continuous (Non-Stop) Recording

Event-Based Recording

Event-Based Recording optimizes storage capacity by capturing footage only when a specific environmental trigger occurs, such as a detected sound or physical movement.

For example, if Motion Detection is enabled alongside this setting, the camera will initiate recording solely upon detecting activity within its field of view. Once the movement ceases, the recording automatically stops and remains on standby until a new event is triggered.

Ideal Use Case: This configuration is highly recommended for locations with minimal continuous foot or vehicle traffic—such as a private residence during standard working hours. By only capturing active events, it conserves storage space and significantly reduces the time required to review pertinent security footage. This will also minimize false motion triggers, as opposed to a camera with motion detection enabled on a busy location.

Continuous (24/7) Recording (Non-Stop Recording)

Continuous Recording provides uninterrupted, 24/7 video capture regardless of environmental triggers. When this mode is active, the camera will record constantly, capturing all activity—as well as periods of inactivity—within its field of view.

Ideal Use Case: This configuration is highly recommended for high-traffic environments, such as busy commercial spaces or areas with constant pedestrian and vehicle movement. In scenarios where Event-Based Recording would be triggered constantly, opting for Continuous Recording ensures a complete, gapless timeline for review and prevents the system from being overwhelmed by individual alerts. More traffic increases the risk of an important event happening that involves people, and usually, this event is important enough to be captured in its entirety. Continuous recording will ensure important events are captured as long as they are in front of the camera.

SD Card

Using an SD Card

The SD Card Recording feature provides a secure, localized storage solution, allowing you to save your camera's video footage directly onto the device itself.

How it works:

- **Local Storage:** By inserting a compatible MicroSD card into the camera, your video recordings are stored locally. This ensures your data remains private and easily accessible without the need for a mandatory cloud storage subscription.
- **Flexible Recording Modes:** You can configure the camera to record continuously (24/7) or set it to "Event Recording," which only saves footage when triggered by motion or sound detection, helping to conserve storage space.
- **Loop Recording:** Once the SD card reaches its maximum capacity, the camera will automatically begin overwriting the oldest footage with new recordings, ensuring uninterrupted security monitoring without requiring manual file deletion.

Note: For optimal performance and reliability, we recommend using a Class 10 or higher MicroSD card. Before using the SD card for the first time, please ensure it is formatted directly through the settings menu in the Jarnex app.

SD Card Recording Configuration (SD CARD ONLY)

- 1) Make sure you either have an SD card installed or have subscribed to a cloud storage plan.
- 2) Once you have installed your SD card, you must **FORMAT** your card in order to begin recording to it. To do this, select the device in question, then click on the upper right side (3 dots) to access settings
- 3) Scroll down to **STORAGE SETTINGS**
- 4) Click on the word “**FORMAT**”. You will receive a confirmation window. (NOTE: Formatting the SD card will **ERASE** everything from the card which will be unrecoverable once recording commences)
- 5) The total capacity, used, and remaining capacity will be shown on this screen anytime you would like to view your SD storage status and remaining capacity.
- 6) Exit the **STORAGE SETTINGS** menu, and scroll down to **RECORDING SETTINGS**
- 7) Enable **RECORDING SWITCH**, and select **RECORDING MODE**. You can choose from Event Recording or Non-Stop 24/7 recording.

Cloud Recording

What is Cloud Recording and how to use it

The **Cloud Recording** feature securely uploads and stores your camera's video footage on remote, encrypted servers via your internet connection, providing an off-site backup for your security events.

How it works:

- **Secure Uploads:** When your camera detects motion, sound, or is set to continuous recording, the video files are instantly transmitted over your Wi-Fi network to a secure online server.
 - **Remote Accessibility:** Because the footage is stored in the cloud, you can seamlessly access, download, and share your recorded videos from anywhere in the world using the Jarnex app, as long as you have an internet connection.
-

Cloud Recording vs. SD Card Recording

The primary difference between these two methods is **where** your footage is stored: physically inside the camera (SD Card) or remotely on the internet (Cloud).

Here is a breakdown of the pros and cons to help you choose the best setup for your security needs:

Storage Method	Pros	Cons
Cloud Recording	<ul style="list-style-type: none">• Theft Protection: Footage is safe even if the camera is stolen, damaged, or destroyed.• Accessibility: Easy to view and manage clips from anywhere.• Storage Capacity: Often allows for extended video history (e.g., 30 days) depending on your plan.	<ul style="list-style-type: none">• Internet Reliant: Requires a stable Wi-Fi connection to upload footage.• Ongoing Cost: Typically requires a monthly or annual subscription fee.• Bandwidth: Uploading video can consume internet data.
SD Card Recording	<ul style="list-style-type: none">• Cost-Effective: No recurring monthly subscription fees; just a one-time purchase of the card.• Localized Privacy: You physically possess the storage drive and your data.• Network Independence: Can often continue recording locally even if your internet temporarily goes down.	<ul style="list-style-type: none">• Vulnerability: If an intruder steals or damages the camera, the recorded footage is lost with it.• Finite Space: Limited storage capacity requires loop recording (overwriting old footage).• Maintenance: SD cards can occasionally corrupt over time and may need formatting or replacing.

Cloud Recording

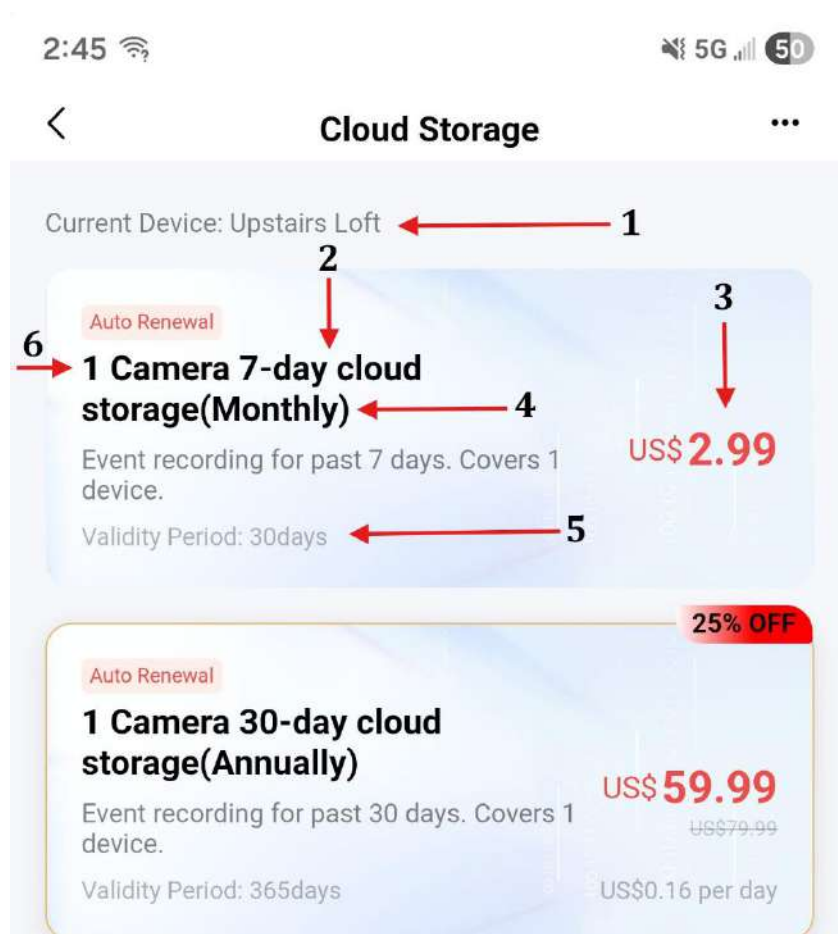
Accessing Cloud Storage Settings

The Cloud settings page provides detailed information regarding your device's cloud recording capabilities, including subscription pricing and data retention periods.

To access the Cloud storage page, please follow these steps:

1. **Select your Device:** Choose your Jarnex device (e.g., Lantern) from the main menu.
2. **Access Features:** Tap on the **Features** icon.
3. **Navigate to Cloud:** Locate the advanced features row at the bottom of the screen and select **Cloud**.
4. **View Subscriptions:** Tap on **Purchase Service**.

Once on this screen, you will see the different tiers of cloud recording packages available for your device. Please refer to the following example to understand how to read the plan details and select the right package for your needs.



Cloud Storage Plan Overview

The Cloud Storage subscription screen allows you to review and select data retention packages for your devices. Use the diagram and the corresponding guide below to understand the breakdown of each subscription plan's features and costs.

Plan Details Guide:

- **1. Selected Device:** Displays the specific camera (e.g., "Upstairs Loft") to which the current cloud storage plan will be applied.
- **2. Retention Time:** Indicates the length of time your recorded video events are stored in the cloud before being overwritten (e.g., a 7-day or 30-day history).
- **3. Subscription Cost:** The price charged for the selected plan per billing period.
- **4. Billing Cycle:** Displays the frequency of the subscription renewal (e.g., Monthly or Annually).
- **5. Validity Period:** Clarifies the exact duration of the active subscription term in days (e.g., 30 days or 365 days).
- **6. Device Quantity:** Specifies the number of cameras covered under this specific package.

Using this information will assist you in choosing the right package for your needs. Please note, there is no refunds for a cloud package once you have selected and paid for it. If you are not satisfied with the cloud service, you can cancel your subscription and it will end once the period is over.

Cloud recording footage is stored on a ultra-secured encrypted server.

Cloud Recording Configuration

- 1) Once you have subscribed to a cloud plan, you will need to attach a device to that plan.
- 2) Select the device in which you'd like to add the cloud service to
- 3) Under the ADVANCED FEATURES toolbar, click CLOUD
- 4) Click PURCHASE SERVICE
- 5) Scroll down, choose the plan that fits your needs the best
- 6) Highlight the package and click on BANK CARD (Credit Card, Debit Card) or PayPal (you must have a PayPal account to use this service)
- 7) If you clicked on Bank Card, you will be taken to the Link transaction page. Here, it will show you information about the plan and also your Jarnex app account information such as your registered e-mail, type of card being used. You can also set a secondary card to be used in case.
- 8) If you do NOT wish to use Link as the merchant, you can always choose "PAY WITHOUT LINK" and the app will bring up a payment form to fill out, powered by Stripe.
- 9) Once you are satisfied with the information filled out, please click "Subscribe" this will attach the cloud package to your Jarnex app account (you can choose which camera to add later)

Managing your cloud recording account

Once you have purchased the cloud service, you can then look and change your cloud account service by following these steps.

1. Under ADVANCED FEATURES, click CLOUD
2. On the upper right-side, click on the 3 horizontal mini dots
3. Click MY ORDERS

On this screen, you can view your current and past orders, even if you are no longer subscribed to them, they will appear here.

Any active subscriptions will be under SUBSCRIPTIONS. On this screen, you can view and change the subscription to a different camera if you'd like by clicking on the actual subscription, which will bring up another screen. On this screen, you can see the cameras that are currently added to your Jarnex mobile app and choose which one you'd like to use the cloud account by simply clicking on the camera.

If you are using an older version of the app.....

If you are using an older version of the Jarnex app, please go through the following steps.

WE RECOMMEND TO ALWAYS KEEP YOUR JARNEX APP UPDATED TO THE LATEST REVISION

- 10) Once you have subscribed to a cloud plan, you will need to attach a device to that plan.
- 11) Select the device in which you'd like to add the cloud service to
- 12) Under the ADVANCED FEATURES toolbar, click CLOUD
- 13) You MIGHT receive a pop-up window that says "ACTION NEEDED: BIND YOUR ACTIVE SERVICE(s) TO A DEVICE. If you did, click on SET-UP NOW
 - a. Click on the word ENABLED DEVICE
 - b. Click on ASSOCIATED DEVICE
 - c. Click on the device you wish to use for the cloud service
 - d. Click "OK"
 - e. Select SAVE when prompted. If Successful, you should get "BOUND" shown on the screen when you clicked on "OK" If you get an error or anything similar, repeat steps a – e.
- 14) If you did NOT get a Pop-Up window, select MY SERVICE
- 15) Follow steps a - e

*Please Note: It is VERY important to understand the difference between SD card usage and Cloud Recording as they both have their differences and limitations, especially if you need to record 24/7. Please scroll up and re-read **WHAT IS CLOUD RECORDING AND HOW TO USE IT** again to fully understand the characteristics of each.*

Chapter 6

Playback and Backing-Up Footage

Playback Recorded Footage

The **Playback** feature allows you to seamlessly review past video recordings from your Jarnex camera, ensuring you can easily find and watch important events after they have occurred.

How it works:

- **Video Timeline:** Access a navigable timeline within the Jarnex app that displays all of your saved footage, whether stored locally on an SD card or remotely via Cloud recording.
- **Easy Navigation:** You can scroll through the timeline by date and time to find specific moments. Color-coded markers often highlight triggered events (like motion or sound detection) so you can skip directly to the action.
- **Review and Export:** While watching playback footage, you can pause, rewind, or fast-forward. You also have the option to record snippets or take snapshots directly from the playback screen to save to your smartphone's camera roll for sharing or evidence.

Tip: If you are looking for a specific incident, use the calendar or date-selection tool within the Playback menu to jump straight to the day in question rather than scrolling manually through hours of footage.

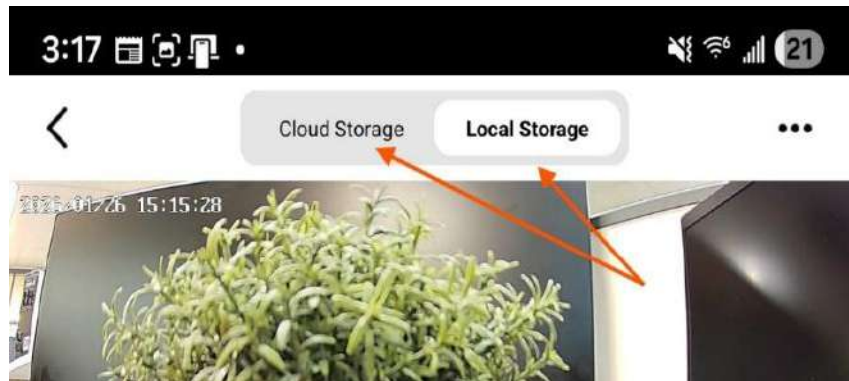
How to playback on SD card

To playback footage saved on the SD card, please follow the following steps.

1. Access the Jarnex application
2. Select your desired Jarnex device
3. Click on the features icon
4. Click on playback
5. You will then enter playback mode

Select your Storage Source

When you click on Playback, you will see CLOUD STORAGE or LOCAL STORAGE (fig 1.2) on top. If you have subscribed to a Jarnex cloud storage account, please select CLOUD STORAGE. If you are using an SD card instead of cloud storage, please select LOCAL STORAGE.

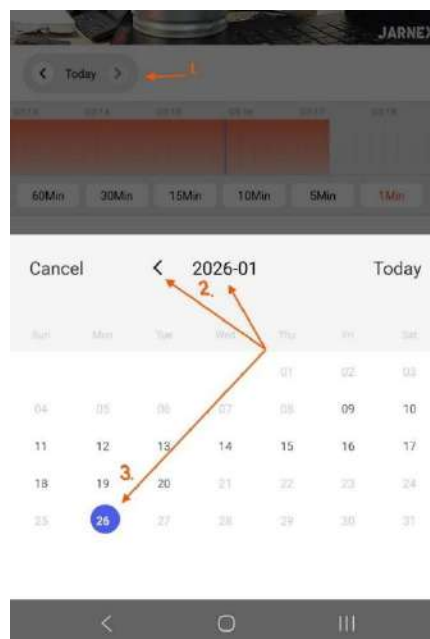


Selecting the Playback Date (Steps 1,2, and 3)

To specify a date for video retrieval, follow these steps:

- a. **Access the Calendar:** Locate the date window in the bottom-left corner of the interface **(1)**
- b. **Open the Interface:** Click directly on the window to display the current month's calendar pop-up.
- c. **Navigate Months:** Use the left and right arrows adjacent to the Year indicator to scroll through different months **(2)**
- d. **Select a Date:** Click the specific day you wish to review to initiate playback **(3)**

Important: Follow these steps in the exact order provided. The playback sequence begins automatically upon date selection.



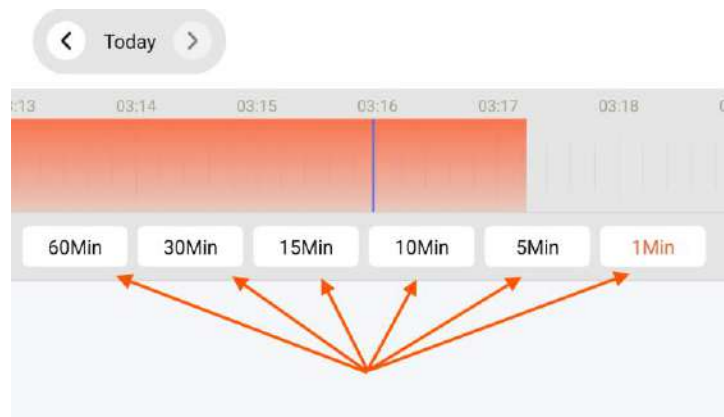
Selecting the playback date

Jarnex Timeline Intervals

The Jarnex application includes a Timeline Interval feature designed to streamline footage retrieval. Rather than manually scanning through extensive recordings, users can adjust the timeline scale to isolate specific incidents more efficiently.

Select from the following time increments to adjust the timeline resolution:

- **60 Minutes**
- **30 Minutes**
- **15 Minutes**
- **10 Minutes**
- **5 Minutes**
- **1 Minute**



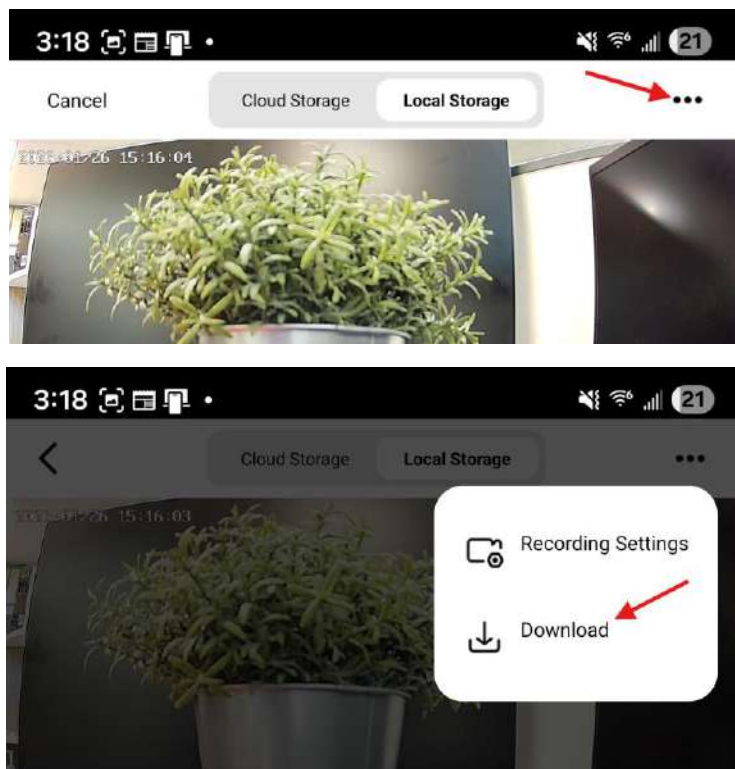
Jarnex Timeline Intervals

Downloading Footage

Jarnex cameras lets the users download footage on to your mobile device from the Jarnex app. Users can download up to 10 minutes at a time using the Jarnex timeline to specify a date and time.

To download footage, please follow the previous instruction on “Playback”

Once you have selected your day and time under Playback, click the 3 dots on the top right corner of the Jarnex app under Playback, and click on “Download”



Footage Selection and Download Limits

Upon selecting your interval, two yellow markers will appear on the playback timeline to define your selection range:

- **Left Marker:** Defines the Start Time.
- **Right Marker:** Defines the End Time.

Adjustment & Constraints: You may adjust each marker independently to isolate the desired footage. Please note that the duration between the markers must not exceed **10** minutes, as this is the maximum allotted limit for a single footage download.

Once you are satisfied with the time selected, click on the download button that is located at the bottom of your screen.

Note: You may receive a message that reads:

Start Download:

If the video you selected include multiple events, they will be merged into one video. During the download process, please keep the app in the front-end.

Cancel | Confirm

What this means: If you are recording on say, Motion Record Only, the camera will only record events that have motion in them. Because of how this works, in a time span of 10 minutes, you may have multiple events (motion detection recordings) that the camera has captured. The camera will combine all of these events in the time selected and merge them as one whole recording.

Chapter 7

Integrating Your Jarnex Device with Amazon Alexa

Prerequisites

Before beginning the integration process, please ensure the following requirements are met:

- **Active Accounts:** You must have a registered Amazon Alexa account and be signed into the Alexa app on your mobile device.
- **Jarnex Configuration:** Your device must be fully installed and configured within the Jarnex mobile app first.
- **Network Dependency:** Because the Alexa integration relies on the Jarnex cloud service, the device will not be discoverable by Alexa until it is successfully linked to your Jarnex account. Please make sure that you are also connected to the internet via Wi-Fi and your router outputs 2.4GHz Wi-Fi for the Jarnex device to connect to. More help can be found by reading the owner's manual titled: *JARNEX JN-OL4A-2K LANTERN OUTDOOR CAMERA* by Jarnex.

Amazon Alexa App

Downloading

Once you have already added your Jarnex 2k Lantern Camera to the Jarnex mobile application, please download the Amazon Alexa App. You can find the mobile app under the Google Play Store / Apple App store.

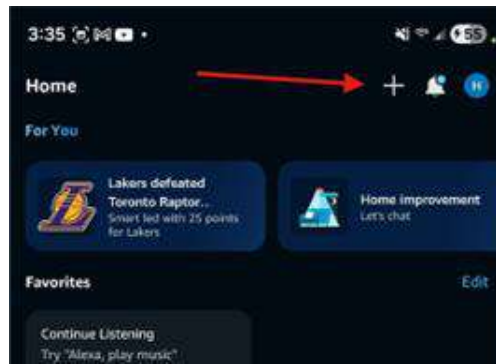
Log-In

After downloading the Alexa mobile app, please login to your Amazon account through the Alexa application. If you are having issues logging in to your account, please seek technical support for the Alexa App by clicking here:

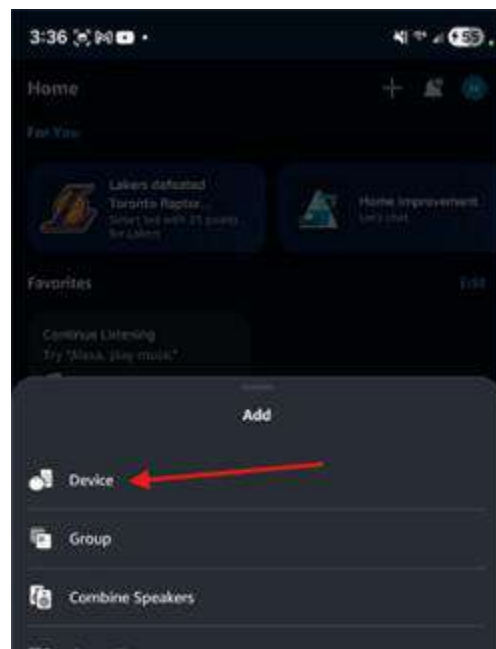
<https://www.amazonforum.com/s/question/0D54P00007IEasoSAD/alexa-app-troubleshooting>. **Note: This is a courtesy link to troubleshoot the Alexa app. If you are still having issues logging in to the Alexa app, please seek the assistance of Technical Support for Alexa.**

Adding your Jarnex device

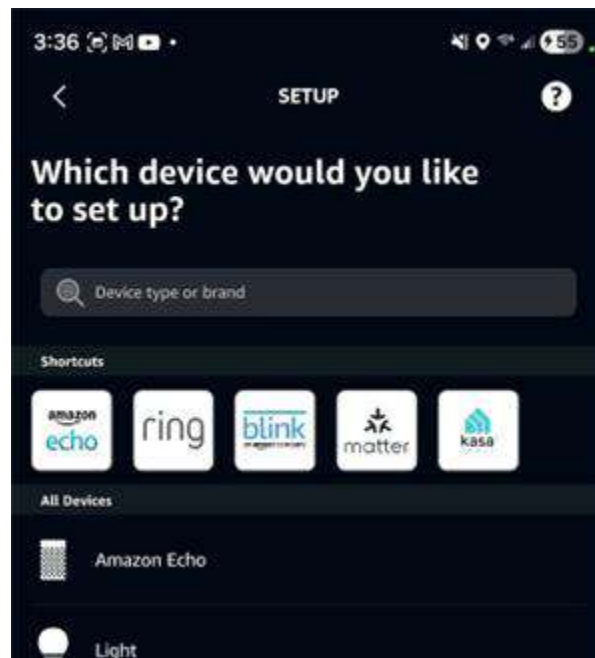
1. Click on the “+” sign on the Alexa App (top right)



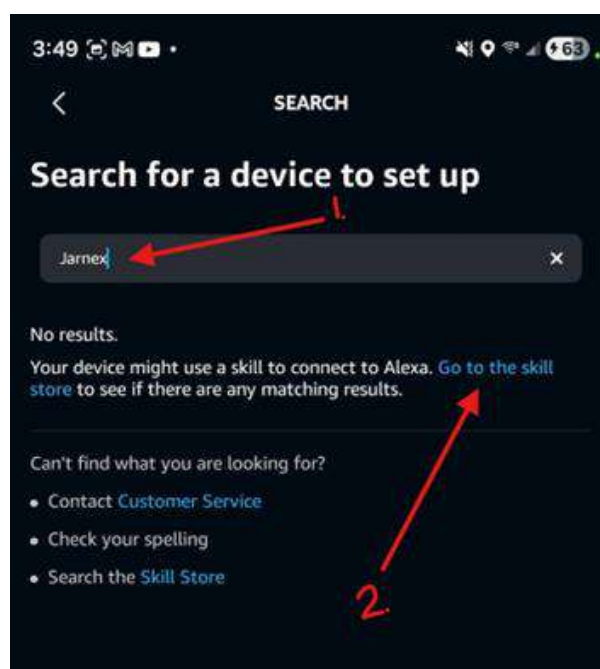
2. Select Device



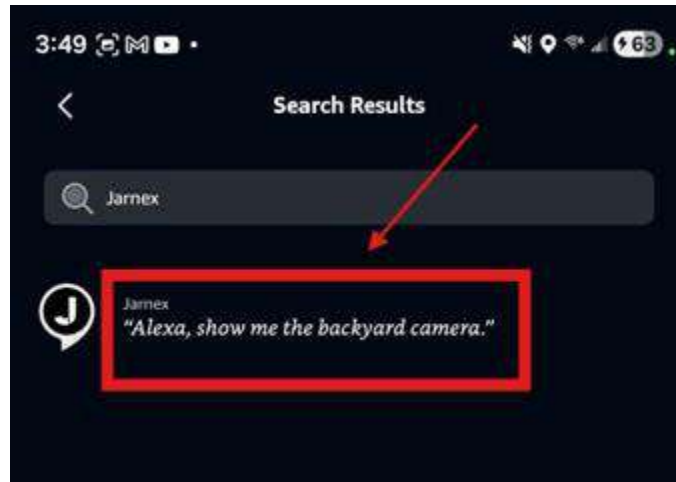
3. Type in Jarnex on “Device type or brand”



4. When you type in Jarnex (“1”), you will not receive any results. Instead, right after you type Jarnex, you are then going to click on the link that says “Go to the skill store” (“2”)



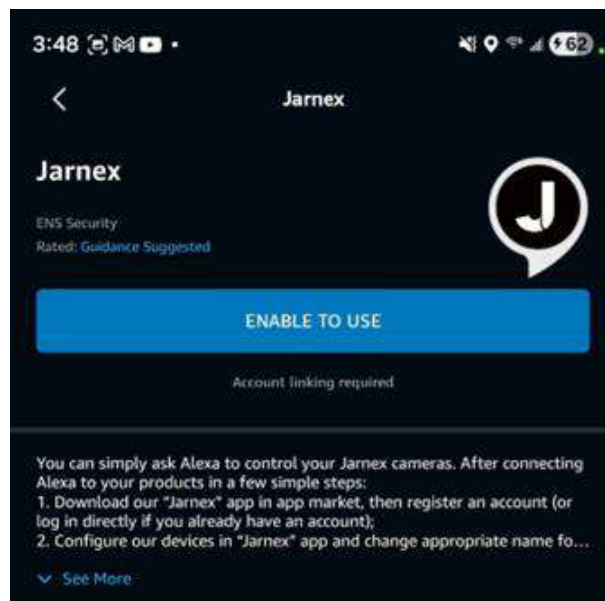
5. Search Results: after searching for the Jarnex skill and clicking on the link, you should then see an example that says something like “Alexa, show me the backyard camera”. Click on the actual sentence to continue.



PLEASE NOTE: The examples provided in this guide are illustrative and represent only a fraction of the mobile app’s capabilities.

PLEASE NOTE: While your specific prompts or device responses may vary—such as requesting to "turn on the kitchen light" or "enable two-way talk"—the underlying configuration remains the same. Regardless of the command used, simply tap the relevant text string to proceed with the setup.

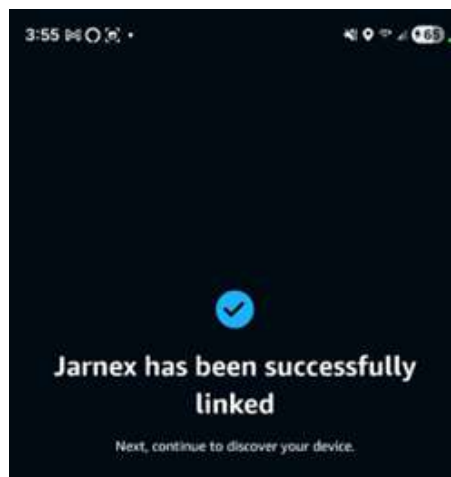
6. When the Alexa app locates the Jarnex skill, it will display it on your screen (fig1) with the big blue button that reads “Enable to Use”. Click on this button to continue the process.



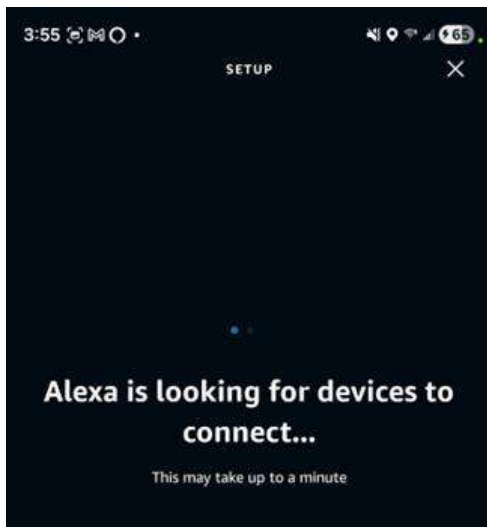
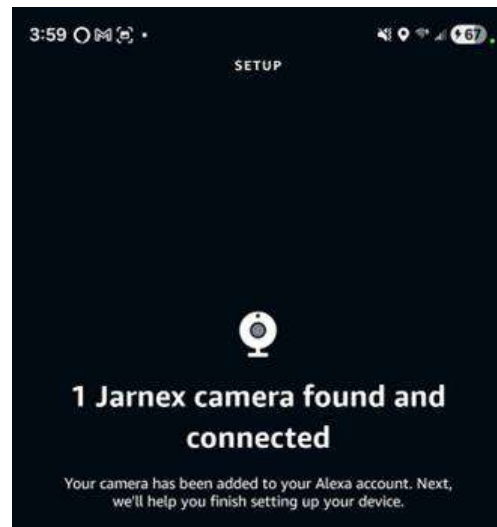
7. On the next screen, Alexa will then open with a window and prompt you to accept the connection along with its permissions needed. Please make sure you accept all permissions that are necessary for the app to function properly.



8. After selecting Agree and Link, you will get a confirmation screen that Alexa and Jarnex are now linked together properly. Press Next.



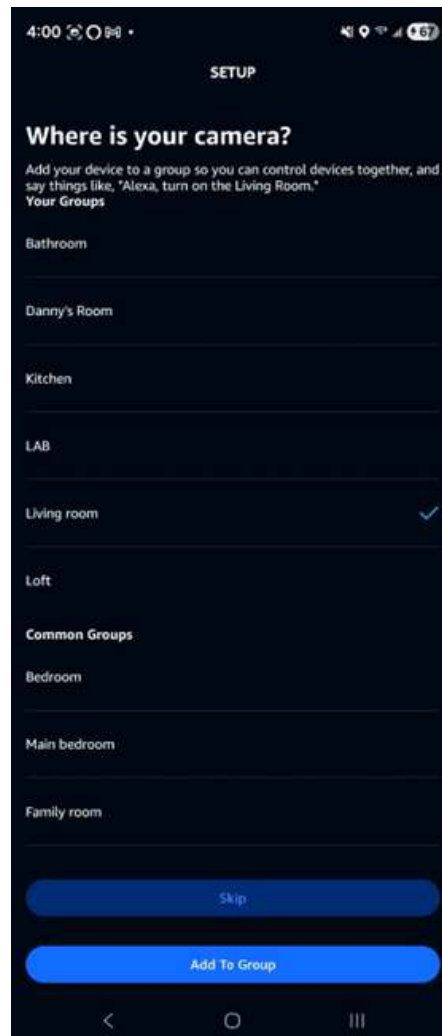
9. After pressing Next, Alexa app will now scan the Jarnex app for Jarnex devices (fig 1.2). If you have a Jarnex devices added to the Jarnex mobile app, Alexa will find them and add them to the app. For example, if you have 2 cameras that have already been added to the Jarnex mobile app Alexa app will grab the 2 cameras and add them to the Alexa App.



10. Now that the application is connected to the Jarnex app, you must now choose which devices to get configured first.



11. When you get to the next screen, Choose the location of your camera. Alexa will ask you to create a group and rooms based on your camera's location. For example, you can create "My Kitchen" and add your camera to Kitchen based on its location. This might sound a little redundant as the Alexa app cannot use rooms created on other apps as its own because of app limitations. Alexa will ask you to create these rooms, and/or groups so that Alexa has its own database that it can use when using say, voice commands EX: *"Alexa, show me MY BEDROOM"*, *"Alexa, playback MY FRONT DOOR from 5:00pm this afternoon"*



12. ***"Kitchen Camera PTZ added to Living room"*** where Kitchen Camera PTZ was created on the Jarnex app and Living Room was created on the Alexa app. Don't let this confuse you as it's just the name of the camera created on the Jarnex app.



13. When fully completed, you will see this screen



This completes the Alexa and Jarnex configuration. As always, Jarnex fully commits to our customers and assist you when needed. If you need Jarnex assistance, technical support, please contact us at:

Chapter 8

ONVIF, RTSP Streaming, and Static Ip Addressing

CAUTION! Advanced configuration ahead. This section is intended for advanced users. If you are unfamiliar with networking concepts like port forwarding or ONVIF, we strongly recommend consulting a professional installer to ensure a secure and stable setup. Incorrect configuration of port forwarding or ONVIF may impact device performance or security.

What is ONVIF? (pronounced ON-VIF)

Think of **ONVIF** as a universal language for security cameras and recording devices.

- **The Problem Before:** In the past, if you bought a camera from "Brand A" and a recorder (like an NVR) from "Brand B," they often couldn't talk to each other. You were locked into buying everything from one company.
- **The ONVIF Solution:** ONVIF is an industry standard that makes sure all compliant devices "speak the same language."

Why This Matters to You:

1. **Flexibility:** Because our Jarnex camera supports ONVIF, you are not locked into our brand for the recording system. You can use our camera with almost any Network Video Recorder (NVR) or third-party monitoring software you already own or prefer.
2. **RTSP Stream:** The fact that we support ONVIF Profile S means the camera is ready to send its live video feed (called an RTSP stream) to those other recording systems. It's like having a standardized video cable built-in, ready to plug into any compatible NVR or streaming platform.

In short, ONVIF gives you the freedom and flexibility to integrate our camera with your chosen security system, regardless of the brand.

What is a STATIC IP Address and what is the difference between a Static IP and a Dynamic (DHCP) address.

Simple Explanation for an End-User: Static IP Address

Think of the internet connection in your home like a neighborhood, and your Jarnex camera as a new house in that neighborhood.

Dynamic IP Address (The Default)

- When you first plug in your camera, your router (which is like the neighborhood post office) gives it an address automatically. This is called a **Dynamic IP Address**.
- The problem is, the router can sometimes change this address without warning. It's like the post office occasionally giving your house a temporary new number.

- If the camera's address changes, it can get lost on the network, especially if you are using advanced features like **ONVIF** (the universal language that lets other devices find the camera).

Static IP Address (The Fix)

- A **Static IP Address** is an address that **never changes**.
- Setting the camera to a Static IP Address is like giving your house a permanent, dedicated street number that the post office (your router) is told to never change.
- This ensures the camera always stays connected and easy to find on your network, which prevents it from losing connectivity and keeps features like ONVIF working reliably.

Why Your Camera Needs a Permanent Address

Every device connected to your home internet needs a unique address, called an **IP Address**, to communicate. Think of this IP Address like a street number for your Jarnex camera.

The Difference Between Static and Dynamic

- **Dynamic IP Address (The Default):** When you first plug in your camera, your router automatically assigns it a temporary address. This is called a **Dynamic IP Address**. The key issue is that this address is not permanent and **can change** without warning. This is like your home being assigned a temporary number that the post office occasionally switches.
- **Static IP Address (The Fix):** A **Static IP Address** is an address that **never changes**.

How to enable ONVIF

To enable ONVIF on your device, please follow these steps

1. Open your JARNEX mobile app
2. Select the ONVIF compatible JARNEX device *(please remember, not all Jarnex devices support ONVIF)*
3. On the live view screen, click on the upper right-hand corner of the screen and select the 3 horizontally lined-up mini dots
4. Scroll down until you see ONVIF. Click on ONVIF.
5. Enable the ONVIF switch option on this screen
6. You will also see a “Mode” and “IP” on this page. If you are going to be using the ONVIF protocol, it is highly suggested to place the JARNEX device on a static Ip address. A Static IP address is an IP Address that will never change unless you manually change it *(see 5.1 what is a static IP address and what is the difference between a static IP and Dynamic IP).*
7. On this screen, you will also see a section that says “Password”. Here, you can set a Password to use the ONVIF protocol, as you will always need a username and password when using the ONVIF protocol. If you do not enter a password, you will not be able to use the ONVIF protocol.
8. The default username for the Jarnex lantern camera is “admin”
9. The RTSP Stream URL for the Jarnex camera is as follows:

Jarnex RTSP Instructions

The following RTSP URL can be used to add your Jarnex camera to a 3rd party NVR or to a streaming platform of your choice.

rtsp://username:password@IP Address/V_ENC_001

We have broken down the RTSP URL to make it easier for you to know what to use

RTSP Example: **rtsp://admin:admin123@192.168.1.108/V_ENC_001**

We are using the following Camera Parameters: *(as an Example, yours will look similar but DIFFERENT)*

ONVIF Username: **admin**

ONVIF Password: **admin123**

JARNEX Camera IP Address: **192.168.1.108**

Jarnex Stream#1: **001**

Jarnex Stream#2: **002**

Using this information, the RTSP stream URL will then look like this:

rtsp://admin:admin123@192.168.1.108/V_ENC_001

You can use this RTSP URL to add camera to a 3rd party NVR, Stream it live to a website, or add the URL to any streaming platform that accepts a RTSP stream.
