Smart Home Security

Premium Battery Camera with Solar

Installation Manual

Installation Support:
(877) 998-1457
AAA.com/SmartHome-Install

Pre-installation checklist

- ADC-V731B camera (included)
- ADC Universal Battery Pack (included)
- Wi-Fi (2.4 or 5 GHz) connection to broadband Internet (Cable, DSL, or Fiber Optic) Internet.
- A computer, tablet, or smartphone with or Wi-Fi is required if the router does not have the Wi-Fi Protected Setup (WPS) feature

  There are two options for connecting the ADC-V731B to the Wi-Fi network: Access Point (AP) mode or Wi-Fi Protected Setup (WPS) mode. AP mode is the recommended method to connect the camera to the network.

  Note: Some Internet Service Providers disable the WPS feature on customer routers.

In the box

- ADC-V731B camera
- ADC Universal Battery Pack
- USB-C Cable
- Installation card
- Wall mount
- Wall plate
- Wall anchors & screws (2)

Pre-Installation

The following steps should be taken prior to the installation steps:

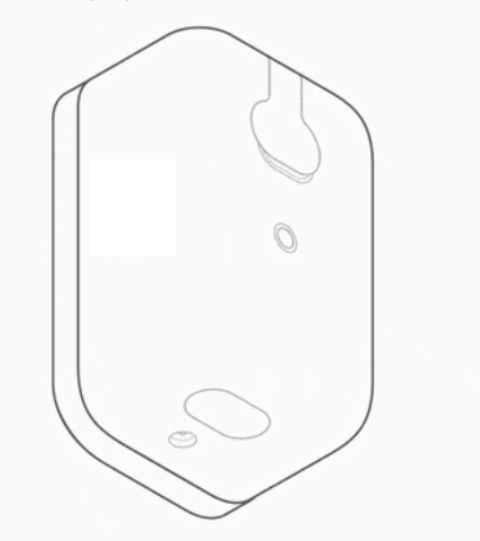
1. Unbox the unit. Carefully remove the battery and all included components from the packaging.

2. To remove the battery pack:

a. Press the oval button located on the bottom of the camera to release the housing.

b. Set the back housing aside and locate the black notch at the bottom of the battery pack.

c. Press the notch inward and slide the battery pack downward to remove it.



3. To reinsert the battery pack:

   a. With the battery pack removed, carefully peel off any protective film covering the battery pack.

   b. Align the battery pack with the cradle and slide it back into place. Make sure you hear the notch click to confirm it is securely inserted.

4. Verify the LED indicator on the front of the device goes into pairing mode (blinking white).

   a. When the camera turns on, it begins blinking red to indicate the device is booting.

   b. If the camera is new or has not been previously associated with a network, the LED should begin blinking white to indicate it has entered pairing mode. If the LED is blinking white, replace the housing by pressing the housing together with the camera body, and proceed to the next section of the guide.

   c. If the LED light does not blink white, press and hold the multi-purpose button located on the side of the device (accessible once the housing is removed) for 3 seconds, or until the LED begins blinking white. Once the LED starts blinking white, release the button and proceed to the next section of the guide.

Connect the camera to the Wi-Fi network

The Premium Battery Camera with Solar can be connected to the Wi-Fi network using AP or WPS modes.

AP mode

To ensure a sufficient Wi-Fi signal, complete the following steps with the camera near its final location but prior to mounting.

1. Power on the camera. The camera's LED will begin to blink white. If the LED is not white after two minutes, press and hold the WPS/Reset button and release when the LED begins to blink white (about 3 seconds).

2. Connect to the camera's Wi-Fi network. On an Internet-enabled device, connect to the Wi-Fi network ADC- V731B (XX:XX:XX) where XX:XX:XX is the last six characters of the ADC-V731B's MAC address, which is located on the camera or on the packaging.

3. Access the camera setup page. On the same device, open a web browser and enter http://v731binstall.com or 192.168.1.1 in the URL field. Follow the on-screen instructions to add the ADC-V731B to the Wi-Fi network. During this process, the LED will briefly turn red before blinking green. The LED will turn solid green once the connection is successfully completed.

4. Once the LED is solid green, enroll the device to the account using the steps in Enroll the camera to the account.

WPS mode

To ensure sufficient Wi-Fi signal, complete these steps with the camera near its final location but prior to mounting.

1. Open the camera's housing. Press the oval button located on the bottom of the device to release the housing.

2. Enter WPS pairing mode. Press and hold the multi-purpose button located on the side of the device (accessible once the housing is removed) for 6 seconds, or until the LED begins blinking blue. Once the LED starts blinking blue, release the button to enter WPS mode.

3. Activate WPS mode on the router. The camera will begin to connect to the Wi-Fi network. The LED will be solid green when the connection is complete.

4. Once the LED is solid green, enroll the device to the account by visiting www.alarm.com/addcamera.

Enroll the camera to the account

To enroll the camera using the A3 Smart Home Mobile App:

1. Log in to the A3 Smart Home Mobile App. The username and password for the accoun t is required to login.
2. Tap ☰
3. Tap **Add Device .**
4. Tap **Video Camera .**
5. Tap **Enter MAC Address**, then enter the camera's MAC address.
6. Tap Install for the camera on the Device Found page.
7. Enter a device name, then tap **Next.**
8. Follow the on-screen instructions to finish adding the camera. The installation progress displays on the screen.

   Once the installation is complete, move the camera to its final location. Prior to installing, verify the received signal strength using the A3 Smart Home Mobile App. Once the signal strength has been verified, install the device with the included hardware.

Camera Mounting Overview

Important: Prior to mounting, verify the received signal strength using the A3 Smart Home Mobile App. Once the strength has been verified, install the device with the included hardware.

The The Premium Battery Camera with Solar features standard ¼" tripod screw threading, allowing compatibility with a variety of mounting options. A wall plate and wall mount are included in the box for flush surface mounting. Alternatively, the camera can be placed directly on a flat surface or used with a variety of third-party mounts and stands.

Follow the instructions below to mount the camera to a flush surface:

1. Choose the mounting location. The camera should be mounted at least 8 feet above the ground on a flat surface (e.g., a wall or ceiling).
2. Verify there are no nearby obstructions that could interfere with the camera's performance, particularly night vision.
3. Verify the location minimizes glare and avoids capturing unwanted motion (e.g., swaying trees or vehicle traffic), as this may negatively impact battery life.
4. Mark and drill mounting holes. Use the included mounting plate to mark the desired locations for the mounting screws.

   If mounting to drywall: Drill two 3/16" holes and insert the included wall anchors.

5. Attach the mounting plate. Align the camera's mounting plate with the drilled holes. Use the included screws to securely fasten the plate to the mounting surface.

6. Secure the mount to the plate. Align the mount with the mounting plate following the printed instructions on the plate. Turn the mount until it clicks securely into place.

7. Attach the camera to the tripod screw.

   a. Remove the optional small security screw from the packaging and insert it into the bottom of the camera to prevent the camera and back housing from separating.

   b. Screw the camera onto the tripod screw threading until it is tight and securely fastened.

8. Adjust the camera angle. Loosen the collar on the mount to adjust the ball joint. Move the camera to point toward the area you want to monitor. Once the camera is positioned correctly, tighten the collar to secure it in place.

LED reference guide

When operating on battery power, the status LED will light up in response to motion or when the camera's state is altered (i.e., button press events, booting on, firmware upgrades, and deterrence responses).

LED pattern	Description
Off	Power off or standby
Solid green	Connected to Alarm.com

LED pattern	Description
Blinking green	Local network connection
Blinking red	Power on, camera booting
Solid red	No local or internet connection
Solid blue	Low battery
Blinking white	Wi-Fi Access Point and Bluetooth Network Association modes (press and hold the button for 3-6 seconds)
Blinking blue	WPS mode (press and hold button for 6-9 seconds)
Blinking yellow	Power cycling (press and hold button for 9-12 seconds)
Blinking red and green	Reverting to factory default settings (press and hold the button for 12-15 seconds)

LED pattern	Description
Blinking green and blue	Firmware updating

Charging

In-unit charging

LED pattern	Description
Blinking yellow and green	Charging
Blinking yellow and blue	Charging failed
Solid green	Charged and connected to Alarm.com

Battery pack charging

LED pattern	Description
Solid red	Charging
Blinking red and blue	Charging failed
Solid blue	Charged and connected to Alarm.com

Troubleshooting

1. If you have issues connecting the camera to the account, power cycle the camera and try again.

2. If issues persist, reset the camera to factory defaults. Press and hold the WPS/Reset button until the LED is flashing green and red (about 12 seconds), then release the button. The camera will reboot to factory default.

   If the camera was previously installed on a different Alarm.com account, it will need to be deleted before it can be installed again.

   Caution: Prolonged exposure to sunlight in extreme conditions may impact the camera's performance. The optimal installation location is in a shaded area such as under an eave.

Regulatory Statements

Operating Temperature: -4°F – 140°F (-20°C – 60°C) Ingress Protection: IP65

FCC Statements

FCC Short Part 15 Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Long Part 15 Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the equipment and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. Please contact intsupport@alarm.com for more information on Canadian RF exposure compliance.

FCC ID

FCC ID: YL6-143V731B

ISED Statements

Condition

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device. The device operating in the 5150–5250 MHz band is intended for indoor use only.

Cet appareil contient des émetteurs/récepteurs sans licence qui sont conformes aux RSS sans licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes :

1. Cet appareil ne doit pas provoquer d'interférences.

2. Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. Le dispositif fonctionnant dans la bande de fréquences 5150–5250 MHz est destiné uniquement à une utilisation intérieure.

RF Exposure

Cet appareil est conforme aux limites d'exposition aux radiofréquences établies par la FCC et l'ISED pour un environnement non contrôlé. Cet appareil doit être installé et utilisé à une distance minimale de 20 centimètres entre l'appareil et votre corps. Cet appareil et son ou ses antennes ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. Veuillez communiquer avec intsupport@alarm.com pour obtenir plus d'information sur la conformité aux exigences canadiennes en matière d'exposition aux radiofréquences.

IC ID

IC: 9111A-143V731B

EU Declaration of Conformity Statement

Hereby, Alarm.com Incorporated declares that the equipment type ADC-V731B is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://www.alarm.com/about/international/eu-red

Compatibility Notice:

Alarm.com does not support third-party solar panels for use with Alarm.com cameras. The Alarm.com Solar Panel (ADC-VACC-SP4W) and ADC-V731B camera are designed to be used together to ensure a weatherproof connection. The full suite of features and functionalities will only work correctly with the official Alarm.com Solar Panel.

The ADC-V731B camera's USB-C connection point is designed to be waterproof when used with the Alarm.com Solar Panel Accessory for V731B Battery Camera (ADC-VACC-SP4W). When attached, the USB-C connector fits snugly against an internal gasket, blocking water from entering. This design has passed outdoor testing to ensure the camera remains safe and functional in any weather.

Optional: Solar Panel Installation

Tools needed

- Drill with 3/16" drill bit (optional for wood mount)
- Screwdriver with #2 Phillips bit

Wall Mount Installation

The solar panel features standard ¼" tripod screw threading, allowing compatibility with a variety of mounting options. A wall mount is included in the box for flush surface mounting. Alternatively, the solar panel can be used with a variety of third- party mounts and stands. Follow the instructions below to mount the solar panel to a flush surface.

Note: It is recommended to mount the camera first, then find a location within 9 feet of the camera that gets 3 or more hours of direct sunlight a day to mount the solar panel. The rest of the instructions assume that the camera is already mounted.

1. Choose the mounting location. The solar panel needs to be mounted within 9 feet of the camera.

2. Verify there are no nearby obstructions that could cause shadows on the solar panel.

3. Mark and drill mounting holes. Use the included mount to mark the desired locations for the mounting screws.

If mounting to drywall, drill two 3/16" holes.

4. Attach the mount. Align the solar panel's mount with the drilled holes. Use the included screws to securely fasten the mount to the mounting surface.

5. Attach the solar panel to the tripod screw.

6. Screw the solar panel onto the tripod screw threading until it is tight and securely fastened.

7. Adjust the solar panel angle. Loosen the collar on the mount to adjust the ball joint. Move the solar panel to align it according to your location below. Once the solar panel is positioned correctly, tighten the collar to secure it in place.

Align the solar panel

The solar panel needs to be in a sunny location that gets three or more hours of direct sunlight per day with no shadows.

Note: A properly oriented solar panel can charge the camera's battery up to twice as fast as a misaligned one.

For the Northern Hemisphere:

The solar panel needs to face south and be tilted to 45 degrees.

For the Southern Hemisphere:

The solar panel needs to face north and be tilted to 45 degrees.

Connect the solar panel to the camera

Stretch the cord from the solar panel to the camera. If there is any excess cable hanging, wrap it around the back side of the solar panel and use the clips to secure it. Once the cord is aligned properly and the extra is wrapped out of the way, locate the USB-C port on the back of the camera. Open the rubber dust cover and firmly insert the USB-C connector into the camera.

Verify the camera is charging

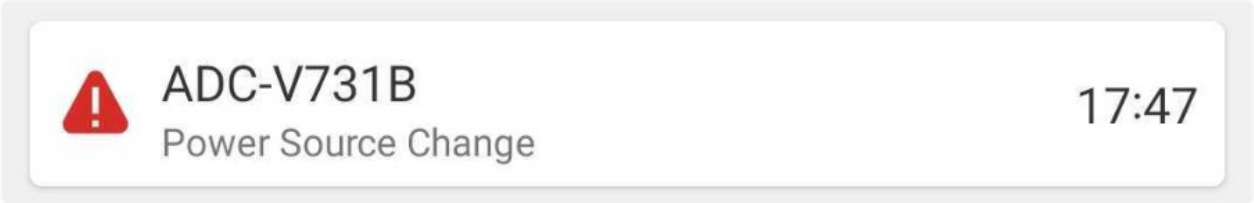
To verify the camera is charging using the A3 Smart Home Mobile App :

1. Log in to the Customer app.

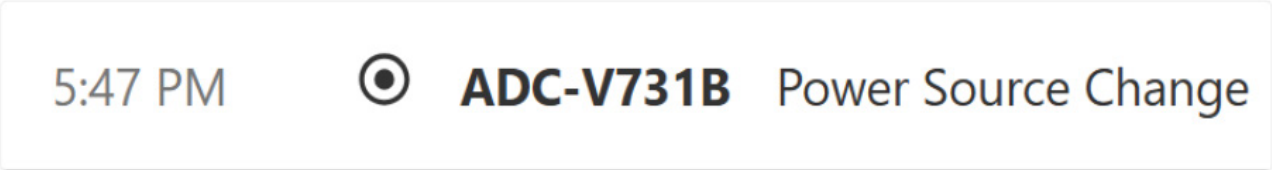
2. Tap .

3. Ta to filter events, if desired.

4. In Activity, verify the camera shows a change in its power source.



Important: The message in the Activity log does not indicate the camera's current charging state (i.e., charging or not charging), only a change in the power source.



Review camera angle

While still logged in to the A3 Smart Home Mobile App, open the camera's live view to verify its Field of View was not unintentionally altered while the solar panel was being installed, and also to check that the solar panel is not in the camera's Field of View.

Regular maintenance

- Review the physical installation location periodically to make sure the solar panel is still aimed correctly.
- If the solar panel has collected dirt or debris, remove any debris and wipe with water and a clean, soft cloth.
- Review expected charging and maximize solar charging by making adjustments to the positioning as needed.

Maximizing battery life

Important: The camera will only charge when its battery is within a safe temperature range of approximately 32°F to 113°F (0°C to 45°C).

- Position the solar panel optimally to maximize charging efficiency.
- The camera will not charge over 80% on solar power to extend the lifetime of the battery.
- The Premium Battery Camera with Solar goes into a low power mode until the PIR sensor detects motion. Once the trigger is activated, the camera comes online and processes the video. The more triggers, the faster the battery will be consumed. When using the solar charging solution, it is recommended that the triggers are tuned to eliminate as many false positives.