Weather Camera installation notes

Website: https://airportweathercams.com

Email: info@airportweathercams.com

Introduction

Thank you for your purchase of this high-definition aviation weather camara. This camera has the potential to be one of the best safety related purchases you'll ever make and in some cases, may actually save lives.

These instructions will help you get your new camera up and running as quickly as possible. We've worked hard to make sure that it's literally plug-and-play.

We have one important request though, before you get started:

DO NOT PRESS THE RESET BUTTON ON THE WHITE CAMERA CABLE - IT IS NOT REQUIRED! If you do this for any reason, you'll need to schedule some time with us to re-program the camera.

We've given you everything you'll need EXCEPT for a suitable length of Cat5/6e cable to go between your router/network and the weather camera mounting location. These are obtainable from most computer shops, EBay or many online stores. Just select the length that you'll need.

High-level steps to follow

1. If you haven't already done so, you will need to register your camera(s) using the serial number on top of the box, at https://airportweathercams.com You'll receive a confirmation email usually within 24 hours.

2. Plug the PoE adapter into the 110v power AND your Internet enabled router / network, then plug your custom length cable from the PoE port of the PoE injector to your camera cable plug.

3. Check the https://airportweathercams.com interactive map and see your images update every 6 minutes

4. Mount your cameras and let us know the direction they are facing if you haven't already done so when you registered and then tell all your flying friends about the website

That's it!

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Just in case you need a little extra help.

Detailed hardware setup - For POE camera installation

You will need the following:

- Your weather camera(s)
- A source of internet – a 4G router, cable connection, satellite, Starlink or otherwise
- A short Cat5/6 network cable or similar (supplied)
- A PoE adapter/injector (supplied, or use your own)
- A long network cable to run from the PoE injector to the mounting location of the camera(s)

Setup steps:

- Plug the PoE adapter/injector box into 110v *(or disregard if you already have a PoE switch)*
- Plug a **short network cable** into the LAN port of the PoE adaptor
- Plug the other end of this short network cable into the back of your router so it's connected to the internet (the correct port on the back of your router is often yellow but not always, and it will be labelled LAN, **NOT the WAN port**)
- Using a long network cable to suit your site requirements, plug the camera into the network cable via the white network plug (on the white camera cable), and the other end into the PoE port of the PoE injector
- Mount the camera and safely run and secure the network cable(s). If you're mounting outdoors, the network cable plug on the camera white cable needs to be protected from the elements.

That completes the hardware installation component for PoE cameras.

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Your camera is actually also WiFi capable!

Hardware setup - For WiFi Cameras

You will need the following:

- Your weather camera(s)
- A source of internet – WiFi Internet via a 4G router, cable connection, satellite or otherwise
- The 110v power adapter (supplied)
- Temporarily, a short Cat5/6 network cable or similar (supplied)

Setup steps:

- Plug the camera into the 110v power adapter or 12v plugs *(if supplied)* via the white cable
- Now use the a short network cable *(if supplied – or you can use any network cable of your own)* to temporarily plug the network port of your camera into your router, using the yellow/orange (usually they are this colour, but not always) network port on the back of the router
- You now need to connect your WiFI camera to the WiFi. Refer to the CamHi section below
- Once complete, you can remove the short network cable as you won't need it again. (You will need it again if the password is ever changed on your router

Mandatory for Wifi installations - Installing CamHi

On your iPhone, iPad or Android device, download CamHi *(not the pro version)*

- When you open CamHi, accept any prompts for it to access your microphone, camera, network access and photos
- You need to scan in the QR code underneath your camera(s)
- To add your camera(s), select "Add Camera"
- Enter a name in for your camera, eg. Camera1
- Click on "Scan QR code add UID"
- Use your phone, iPad or device camera to scan in the QR code located on the bottom of your weather camera
- For the password, leave as it is for a moment. The default is "admin"
- Press DONE once you've entered a camera name
- Do this for each of your cameras.
  (Don't name them as the directions you're going to install them as, as this will get confusing for you later when you are mounting them)
- Once you click on the newly added camera, you may be prompted to change the password
  - *Follow the logical steps to change the password including a capital and a number*
  - *Please record this password as you may need to give it to us later to support you*

If your camera is plugged into the live WiFi with access to the Internet, it will show up as online.

Note: If your router does not yet have internet access, you can connect your Phone/device to the WiFI for this next part

To view your camera live, you can now simply press on the camera and the image will show.

To close the live image, tap once on the live image in the middle and the little icons will appear and you'll see a power button at the top right. Press that – *Note: This doesn't power down the camera, it just closes the image.*

See next page for remaining steps.

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For WiFi cameras only – do this to connect your cameras to your WiFi

Click on the **COG** in CamHi next to your camera

- Click "WiFi setting"
- Click the blue "Wi-Fi manager" button *(colour may be different on Android phones)*
- Select your WiFi access point and enter in your WiFi password as required. If you get the password wrong, it will say that there is an error. Enter the password twice.
- Once you've connected to your WiFi, you can **now remove the network cable** and move the camera anywhere within WiFi range and on 240v. You'll need a solid 45%+ signal strength. You can see the signal strength from within the WiFi manager. External camera aerial are available if there is marginal signal strength.

Important note: If your WiFi password changes later on *(on your router),* you will need to complete this step again. To make this step easier you can use a long network cable in the future, or take your router outside, near the camera and plug it in.

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Final steps

You can use the CamHi app to view your images live and align your cameras the way you want them, usually around 60% sky, 40% ground, email us at registrations@airportweathercams.com and advise your location and that they are ready (if you haven't already done this via the registration page). If you're not sure that you've got the cameras set up correctly, based on the serial numbers and the directions, we recommend screen capturing the CamHi page and advising via email as to which camera is facing in which direction.

Warranty

We require a photo of the camera installation if they are to be exposed to snow *(see warranty details in FAQ's).*

Blanking/Masking of images

If you purchased the advertising or blanking/masking service from our website for sensitive areas, please provide a description of which areas in your images that you need to be masked and we will start that process; eg. Please block the house on the left of the Eastern image. info@airportweathercams.com

Advertising on images

If you purchased advertising, please send us your logos and any information you want and we will draft up a proof for your review.

Terms and Conditions

By configuring and activating your cameras, you are agreeing that Aus Web Cams retains shared copyright ownership of the uploaded images for use and display as required on any of ours or third-party platforms. Images are held for 3-7 days and should you wish to download them, we can provide you with the necessary connection details to do this yourself. We will not provide your images to any authorities such as FAA, NTSB, Police or otherwise, without your express written consent being provided. Activating your cameras also indicates official to us that you have sought the appropriate permissions from the airport/land owner, you are legally entitled to install the cameras and display the images on the internet and in any applications. You are confirming that installation of these cameras meets with any state or federal privacy laws. We provide an image masking service that can be used to blank-out aircraft and vehicle parking areas, sensitive buildings, areas with people or any other area.

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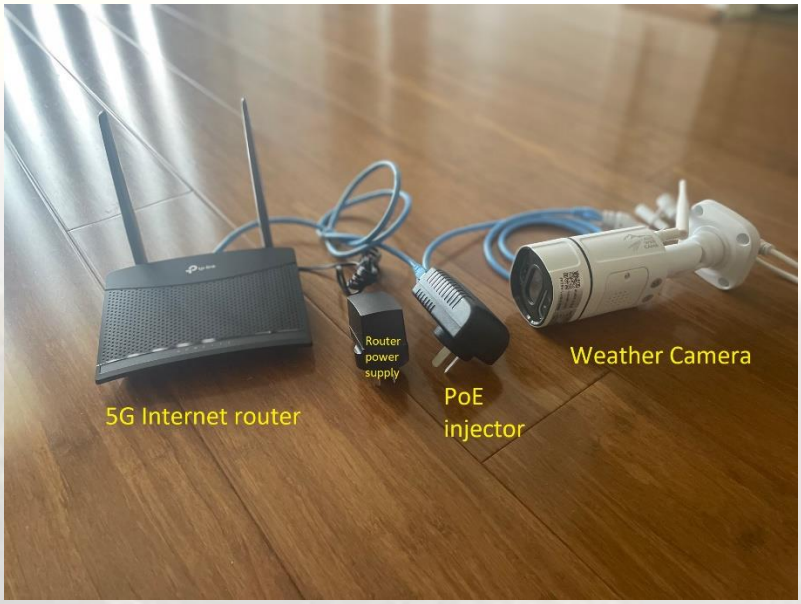
Set-up images to help with your decision-making

Power over Internet (PoE) configuration

The following image depicts a PoE powered camera, attached to a WiFi 5G router.

The cable from the router is plugged into (in this case) the grey LAN port on the rear of the router (usually these are yellow or orange in colour). This cable then plugs into the LAN port of the PoE injector. The camera plugs into the PoE port of the PoE injector. In this scenario, the camera derives its network AND power signal from the network cable, of a length of your choosing up to 50 metres.



The PoE injector has a PoE and a LAN port on it.

- The LAN port cable runs to the router

- The PoE port cable runs to the camera (up to 50 metres)

The camera network port has a green light on it that flashes to indicate that there is a wired network connection when the power is on to the camera.

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WiFi configuration

The following image depicts a WiFi powered weather camera, attached via WiFi, to a 5G router.

Once the camera is connected to the WiFi router using the instructions provided (using the temporary network cable and CamHi software), the camera will connect over WiFi with WiFi range of the router. The range of the camera should be about the same or better than a mobile phone connecting to a home-style internet router.

Weather Camera installation notes

FAQ's

Q. Can I buy my own cameras and use them on your weather camera network

A. Yes and No. IMPORTANT NOTE: It is unlikely that any cameras from Walmart, Bass Pro, Target or similar, will function on any camera network of this style as they are generally consumer grade models built for limited home security scenarios, that are tied to a specific smartphone application. They are not designed to do timed FTP uploads which is a key requirements of this system. HikVision, Dahua, VIPVision, ProVision, REOLink and many more are compatible.

Q. How long will it take to get this system up and running?

A. From the time you receive your cameras, register them and install them, usually around 1-3 business days. It's them up to you to mount them.

Q. How are the cameras powered?

A. For WiFi use - The cameras operate on a 110v power adapter, so will require a power point outside, or the cable can pass through a wall, under eaves etc.

For Power over Ethernet (PoE) use, the camera derives it's power and network signal from the network cable.

Q. Do you sell other types/brands/models of cameras.

A. We don't sell them direct in the USA, but we can guide you as to the most suitable models to purchase.

Q. I'm technology illiterate, will you help me set them up?

A. If you visit our product registration page and purchase our configuration option, we will help you to remotely connect the cameras to your existing Internet connection and from there it's just a matter of mounting them outside.

Q. Can I add my aeroclub or business logo to the images?

A. Sure, we can help you with this. Please choose this option from our product registration page.

Q. Are the cameras water resistant?

A. Yes, they are water resistant and will operate in all weather, but must be covered in snowy conditions. (See warranty info below)

Q. How often are the images uploaded and how much Internet data is required?

A. Images are uploaded every 6 minutes and Internet bandwidth is quite low, at less than 25gb per camera, per year. Please factor this in if choosing a 5g plan

Q. I already have cameras at my airport, can I use them on the network?

A. Maybe. If the cameras are capable of a scheduled FTP file upload into a compatible folder structure, our website should be able to use those images.

Q. How long does it take for my images to appear in my EFB or the airportweathercams.com website?

A. Once you advise us that the cameras are mounted and provide us with the directions, usually within a day.

Q. What is the WiFi range of the camera?

A. Approximately the same as a mobile phone to your home router, or slightly further.

Q. My WiFi may not be strong enough, is there anything I can do?

A. Sure, you can add a WiFi extender and we can help you to choose the most appropriate one.

Q. Do your cameras come with a warranty?

A. Yes, the warranty period is for 2 years.

For warranty purposes in locations where it will snow during winter, we require the camera to be under cover, be that under eaves or a small custom aluminium cover or similar. For cameras to be warranted for 12 months, we in snowy conditions, we require a photo of the final installation to be sent to info@auswebcams.com Otherwise, we recommend placing under cover for longevity of operation, however it's not required for warranty purposes in milder climates.

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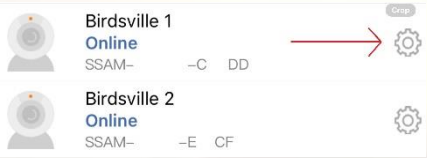
Advanced configuration and troubleshooting steps

This section covers the following scenarios:

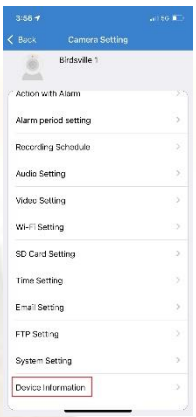
- You pressed the reset button on the camera cable
- You need to change the frequency of image uploads
- Your images aren't being uploaded
- You want to use the camera as a security camera too, by using an SD card
- You've changed your WiFi password on your router and now the camera won't connect any more

For most of these scenarios above, you will need to log into the camera using your iPhone, iPad or computer to access the advanced configuration. To do this, you'll need your laptop or device to be connected to the same WiFi or network as the camera.

- Open CamHi and locate the camera that has been scanned in via the QR code. If you haven't done this yet, refer to the CamHi component earlier in these instructions.
- Press the COG icon next to the camera that you wish to modify (camera must show as online)



Select "device information"



- Note down the "IP Address"
- In this case it's **192.168.15.69**
- Commonly it will be 10.0.0.21 *(or similar)*

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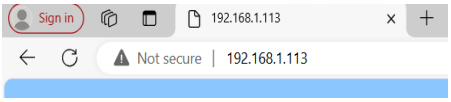
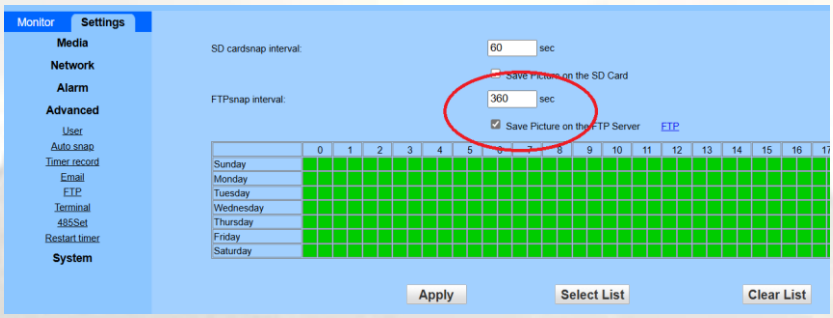
Connect to the camera from your laptop or device



- Open a browser on your laptop, iPad, iPhone, Android device.
- Enter in the IP address of the camera that you just noted down.
- Select “PC view”

- To change the recording schedule, select Advanced and then Autosnap
- Make sure that the lower checkbox is selected and the time set to 360 seconds. You must not put a lower number than this unless it has been pre-approved by airportweathercams.com

THIS IS IMPORTANT IF YOU PRESSED THE RESET BUTTON – YOU WILL NEED TO SET THIS VALUE AND TICK THE CHECKBOX, otherwise the camera will not upload every 6 minutes.



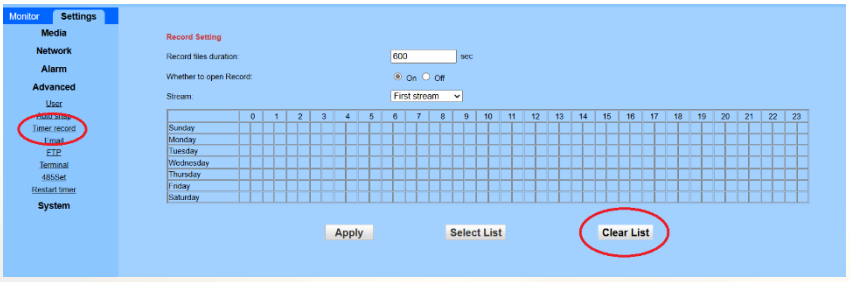
- If you want to change the recording schedule, for example you don’t want to use data at night, or if you have limited data, you can select or de-select the green boxes corresponding to the time of day. The cameras should use approximately 25 GB of data per camera per year with this setting. If you change it to daylight hours only and perhaps every 400 seconds, it will likely use around 16gb, per camera per year.

Weather Camera installation notes

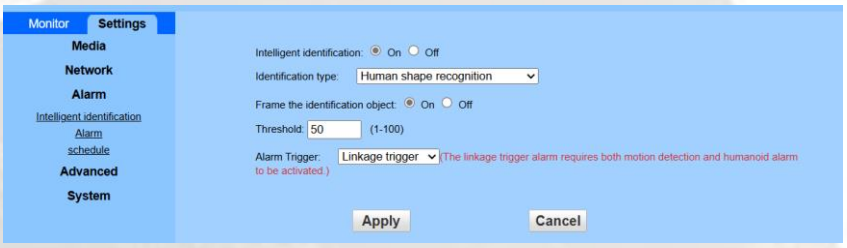
Using the camera as a security camera that records video

Install SD card

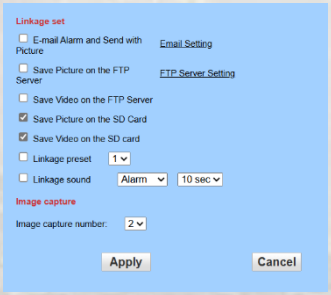
- You can use these cameras as a reliable security camera
- They can accept a Micro-SD card
- To insert an SD card, turn the camera over, remove the 2 screws holding in the speaker, insert your card so that it clicks in and replace the 2 screws
- Once logged in as per the above instructions, perform the following –
    - Open timer record and select clear list so that the green boxes are all removed
        - This will stop the camera from saving videos 24x7 and filling up your SD card



Under “Alarm” and “Intelligent identification” ensure that human shape recognition is turned on



Under “Alarm” and then “Alarm” make sure video and picture saving to the SD card is enabled.



To view the videos that are recorded open CamHi on your Phone or tables and press video:

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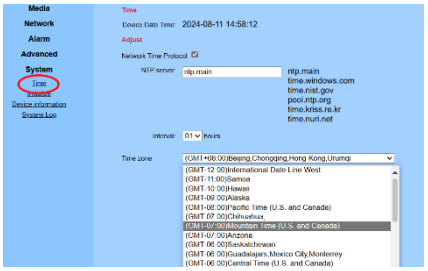
Set timezone if required using this setting as shown. Make sure you press “Sync with PC time” as well as choosing the timezone for your region.

Alternatively, you can set the timezone through the CamHi app by pressing on the COG icon.



Note: *If you are using the cameras as PoE, you DO NOT NEED TO USE THE CAMERA POWER SUPPLY.*