ECC100

Cloud Managed AI Outdoor Dome with 256GB Storage (ECC100)

Cam5MP Dome IP67 256GB

Introduction

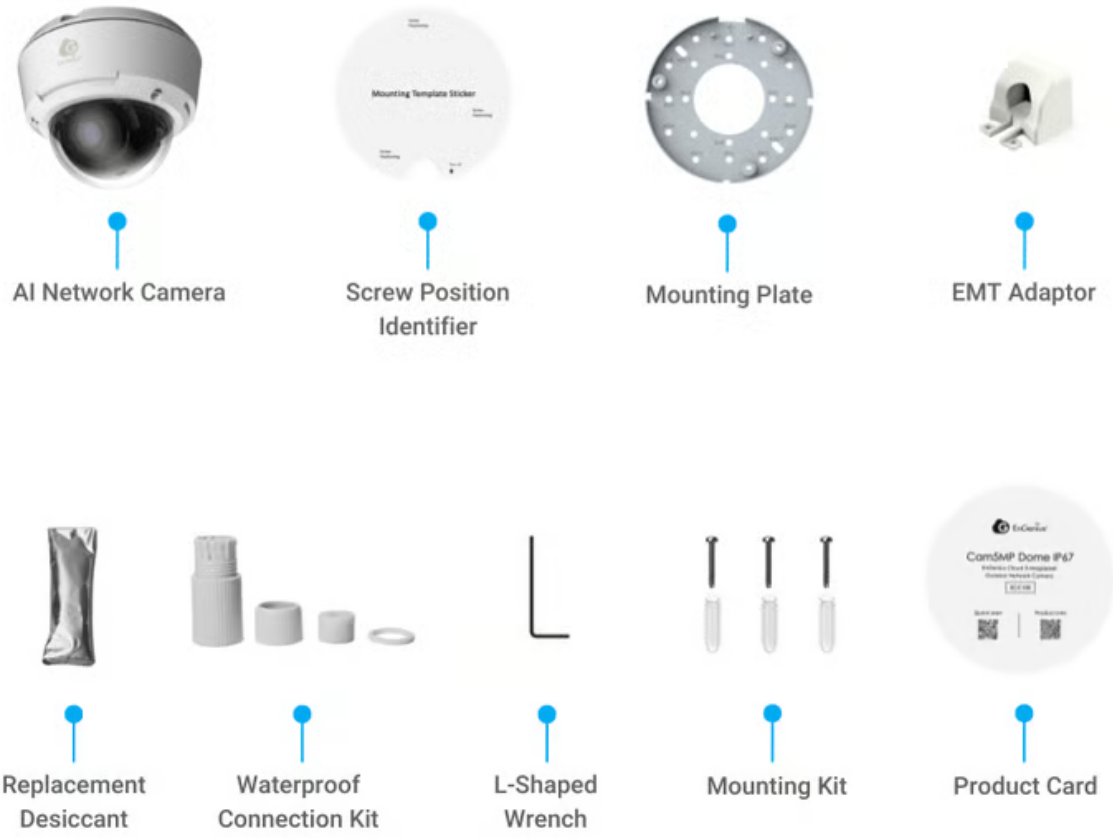
This Quick Start Guide is designed to guide you through the installation of the **Cam5MP Dome IP67 256GB** Camera, model **ECC100**, including hardware mounting and configuration.

> Cam5MP Dome IP67 256GB
>
> ### Cloud-Managed AI Outdoor Dome with 256GB Storage
>
> **Model: ECC100**
>
> - Cloud Dashboard Management and Mobile App monitoring anywhere
> - 5MP Sony Starvis sensor with HDR of crystal clear image quality day and night
> - Wide view angles of 132° and long IR distance of 20m fit complicated environment
> - Camera durable 256GB storage for event and continuous recording 24×7
> - IP67 and IK10 for tough weather and vandal resistant
> - AI NPU of people and vehicle detection for instant alert, search, and statistics

Content Quick Links

- Hardware Overview
- Hardware Mounting
- Configure with EnGenius Cloud

Package Contents



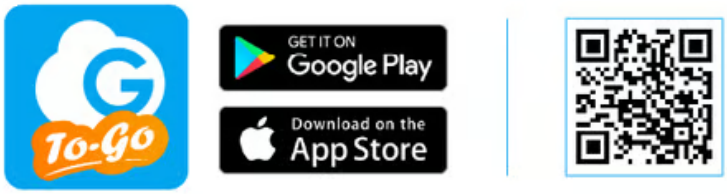
System Requirements

Before signing up for the EnGenius Cloud Service or logging into the EnGenius Cloud Platform to manage your network, ensure that you have downloaded the correct app and are using a supported browser.

Mobile App:

EnGenius Cloud To-Go (iOS/ Android supported)

⬇️ Download the Cloud To-Go mobile app here ↗



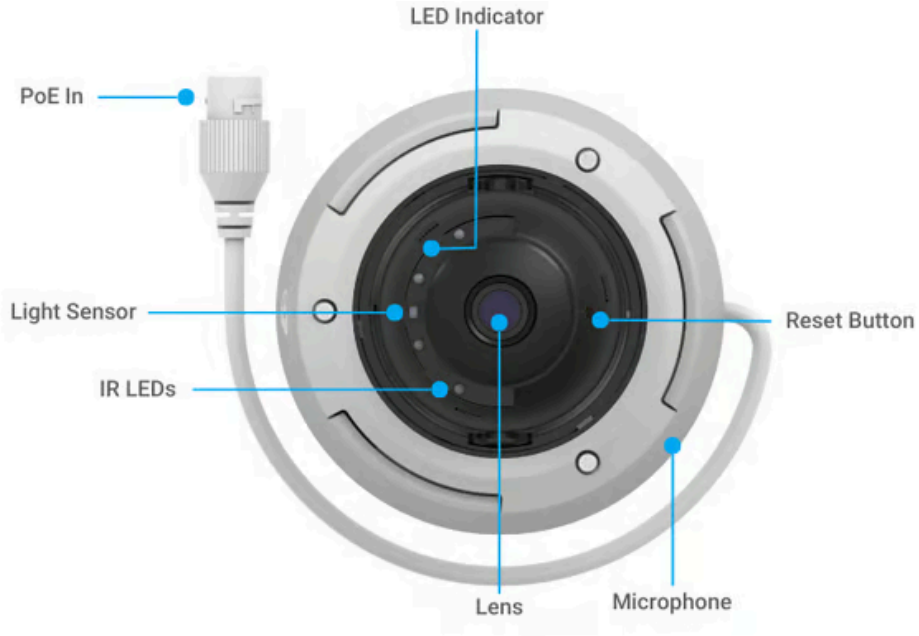
Web Browser:

- Google Chrome (57.0.2987.110 and later)
- Microsoft Edge (80.0.361.103 and later)
- Mozilla Firefox (52.0 and later)

Network Requirements

Before you get started, please make sure your network environment is DHCP-enabled. EnGenius Cloud Camera (ECC series) are default assigned an IP address dynamically by the DHCP server. If you have a firewall, it must allow outgoing connections on specific ports to certain IP addresses. For the firewall rule, please refer to the User Manual ↗. Cameras use the DNS server to resolve EnGenius cloud services to IP addresses to communicate with them. Your DHCP server tells the camera where the DNS server is on the network and the camera communicates with it.

Hardware Overview



Reset Button:

- **Reset to default**: Press and hold the reset button for over **10** seconds, and the **LED(PWR)** will start *Fast Flashing* (0.2 sec). Then, the device will be reset to factory default settings. To delete videos stored on the camera, press and hold the reset button for **15** seconds.

LEDs

Status	LED Color/ Behavior		
Booting up	Green Solid on		
Firmware Upgrading	Green Flashing (0.5 Sec)		
Reset to Default (Push over 10 sec)	Green Fast Flashing (0.2 Sec)		
Reset to Default And Delete All Video (Push over 15 sec)	Red Fast Flashing (0.2 Sec)		
Cloud Connected via Wire	Blue Solid on		
Network Error	Blue Flashing (0.5 Sec)		
Locating	Green Flashing (1.5 Sec On)	<--->	Green Flashing (0.5 Sec Off for 10 Sec)

Hardware Mounting

Precaution

- Before setting up surveillance cameras, plan your system thoroughly and determine the placement and coverage of each camera. Also, decide whether to route cables through walls/ceilings (which involves drilling) or along walls/ceilings using baseboard cable channels.
- To ensure better image quality and extend the lifespan of your cameras, avoid exposing them to direct sunlight.
- Hire qualified technicians for maintenance and repairs. Ensure the equipment is powered off before performing any maintenance tasks.

Important: Only remove the protective cover from the camera's transparent dome after completing the installation to prevent damage and scratches.

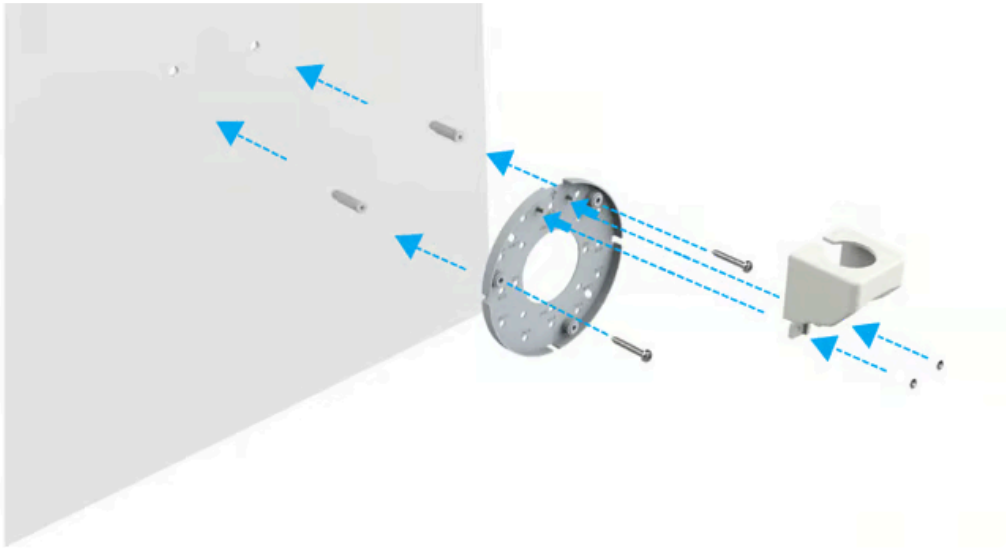
> Before installing the hardware, **ensure that the camera is registered with EnGenius Cloud** (see the Configure with EnGenius Cloud section) and note the **product serial number**, as it will be required during camera registration.

Hardware Installation

The camera can be mounted on the **Ceiling** and **Wall**, and please perform the steps for the appropriate installation:

1. Place the mounting plate on the ceiling or wall and use any pair of opposing holes or slots to mark the drilling positions. When installing, keep in mind the camera's orientation and the position where the cable exits the camera. For details on the orientation and mounting holes, please refer to the detailed diagram of the Mounting Plate Details section.
2. Create holes at the marked spots and secure the mounting plate to the surface using the provided anchors and screws.

3. When using Electrical Mechanical Tubing (EMT), first secure the EMT adapter to the mounting plate with two M3 nuts supplied in the mounting kit. Next, install the ¾″ EMT conduit at the camera location and connect it to the EMT adapter. Finally, use the short screws and anchors to attach the adapter plate to the surface.





You can use the longer screws and anchors to mount the camera body directly to the surface without using the mounting plate.

- Use the Mounting Template Sticker provided with the product, peel it off, and place it on the drilling positions.
- Use the appropriate drill bit to drill two 8.1mm diagrams and 26mm depth holes in the markings.
- Screw the Anchors into the holes until they are flush with the wall.



4. Attach the waterproof connector to the Ethernet cable.
5. Place the O-ring on the camera cable connector and connect it to the Ethernet cable. You can store the cable in the EMT tubing or a hole in the wall or ceiling.



6. Loosen the three cover screws on the camera housing using the L-shaped wrench, but do not remove the protective cover from the top.



7. Unscrew the other three body screws to take out the desiccant inside the camera.

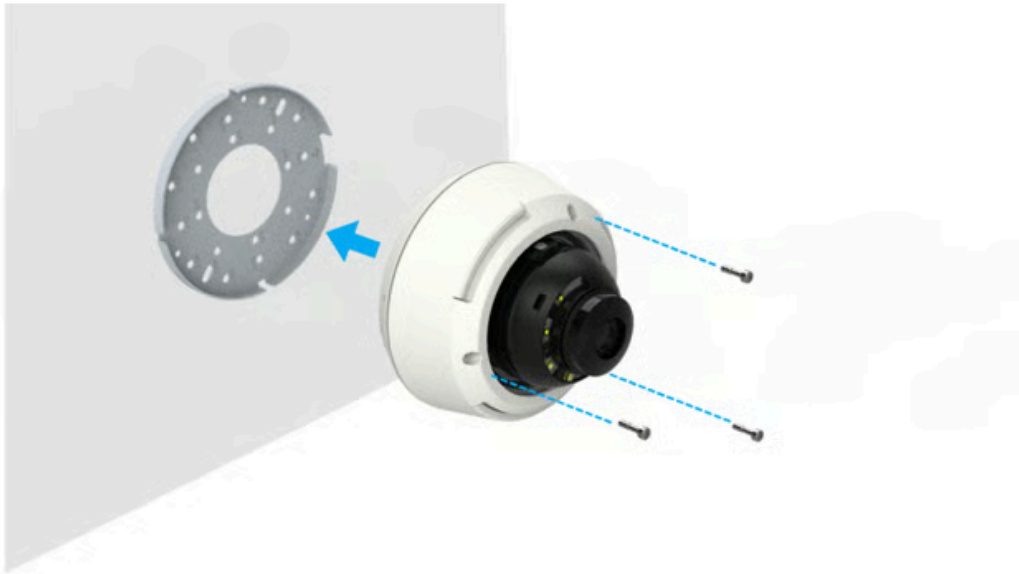


8. Take the new desiccant included in the box. Open and remove the desiccant pack from its protective pouch. Peel the backing from the double-sided tape on the desiccant pack. Place the new desiccant inside the camera. Ensure that no moisture enters the camera.



Be careful not to pull on the internal cables and components of the camera.

9. Attach the camera to the mounting plate by aligning the sockets with the corresponding recesses on the bottom of the camera. Secure the camera using the three machine bolts provided (M4 × 10mm) into the sockets.



10. Adjust the pan, tilt and rotation angle of the camera. You can adjust the camera's monitored image position manually.



Ensure that the light sensor on the camera module is positioned at the top to achieve optimal light sensitivity.



11. Ensure the interior of the dome cover is clean by gently wiping it with a clean, lint-free cloth or blowing away dust and debris. When installing the dome cover, secure the anti-drop wire into the side groove. After installation, remove the protective cover.

Mounting Plate Details

The table below provides details on the different mounting holes on the mounting plate and their respective functions.



Hole	Function
1G-V	1-gang NA junction box, vertical mount
1G-H	1-gang NA junction box, horizontal mount
2G-V	2-gang NA junction box, vertical mount
2G-H	2-gang NA junction box, horizontal mount
4OCT	4″ octagon NA junction box
EUC	EU/UK/China junction box

Configure with EnGenius Cloud

Step1: Register Device and Assign to Network

You can register the device with the **Cloud To-Go mobile app** or the **EnGenius Cloud platform**.

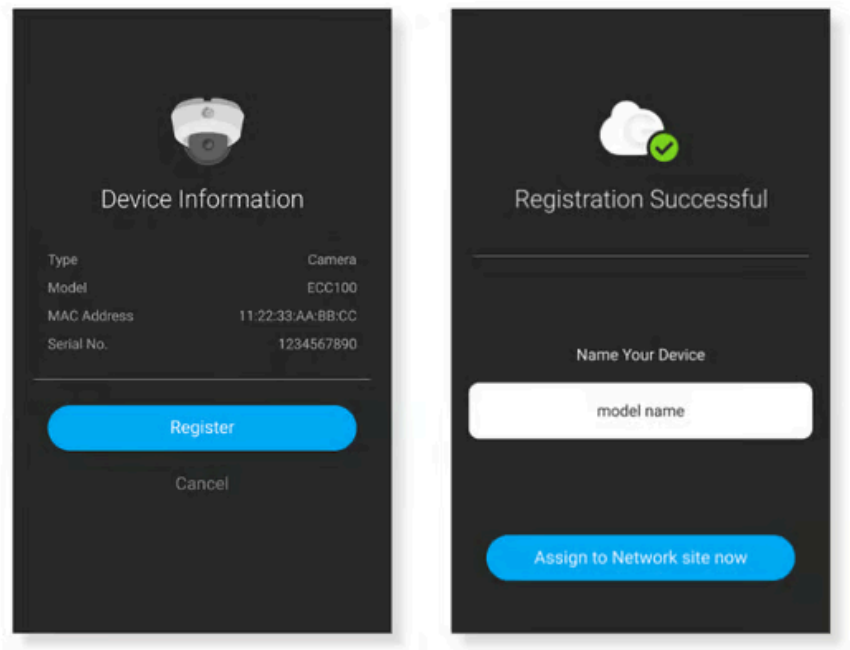
Cloud To-Go Mobile App

1. Open and log in to the **EnGenius Cloud To-Go** mobile app.
2. Scan the QR code on the back of the device via the app.



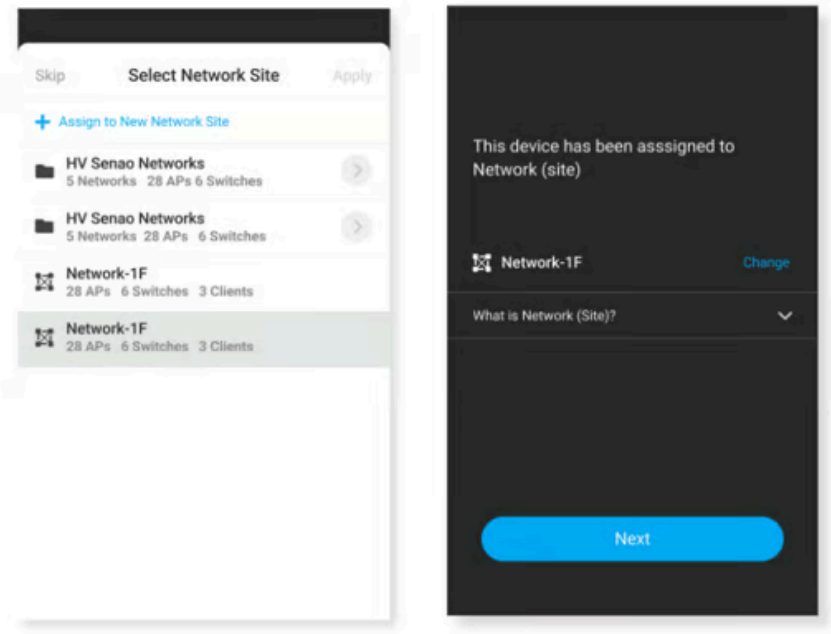
Scan QR-code for device registration

3. If the camera successfully scans a QR code, the app will display the device Information. You could tap "**Register**" to complete the Registration.



Device registration

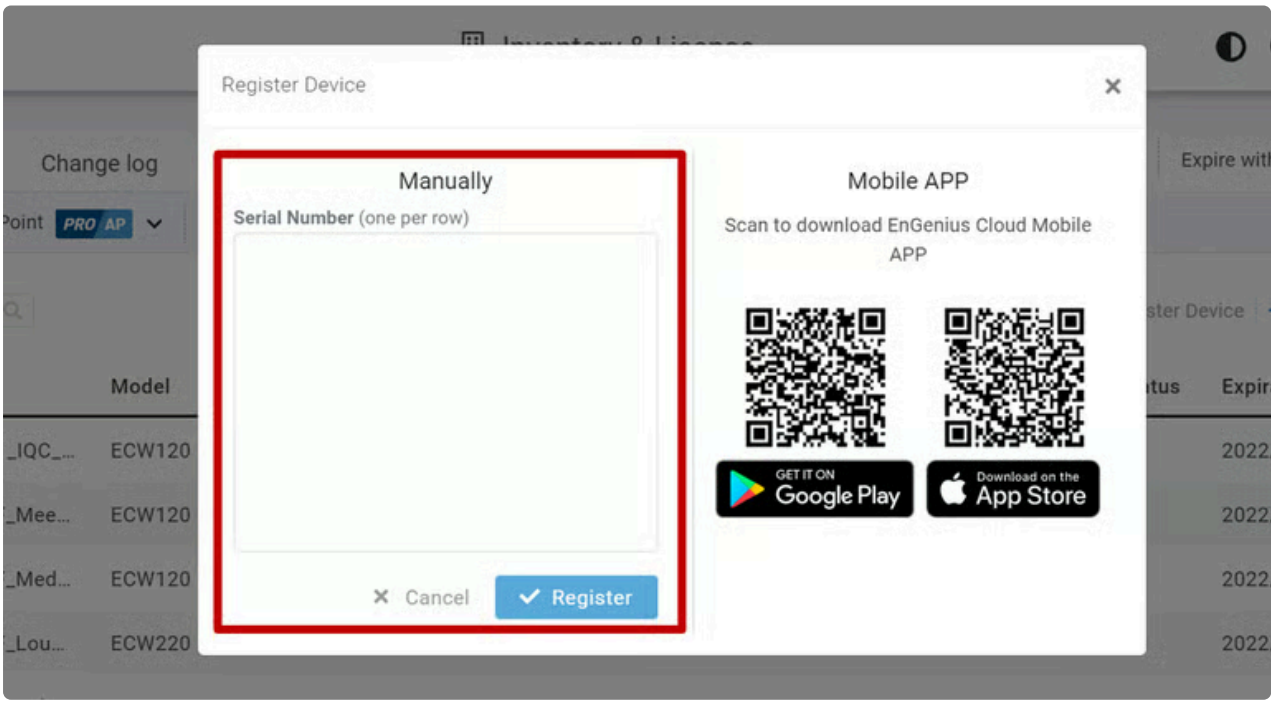
4. Registered devices will be shown on the ***Inventory&License*** page. Slide left on the device and click "**Assign to New Network"** to add the device to your personalized Network.



Assign device to a managed Network

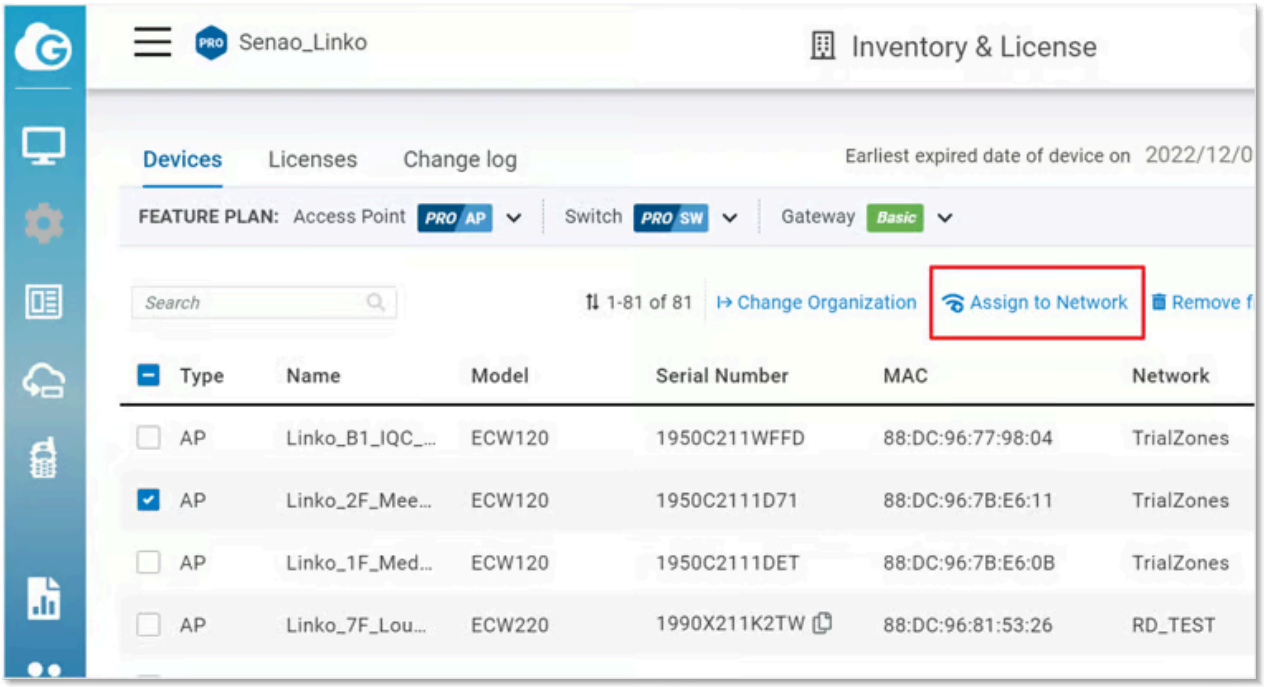
EnGenius Cloud Platform

1. Log in to the **EnGenius Cloud Platform**: https://cloud.engenius.ai/.
2. Go to the ***home > Inventory&License*** page and click "**Register Device**".
3. Enter the **Serial Number** of the device(s) for device registration. Please refer to "User Manual-Registering Devices to Organization".



Register device(s) with device's Serial Number

4. Select the registered device and click "**Assign to Network**" to add the device to your personalized Network.



Assign selected device(s) to a managed Network

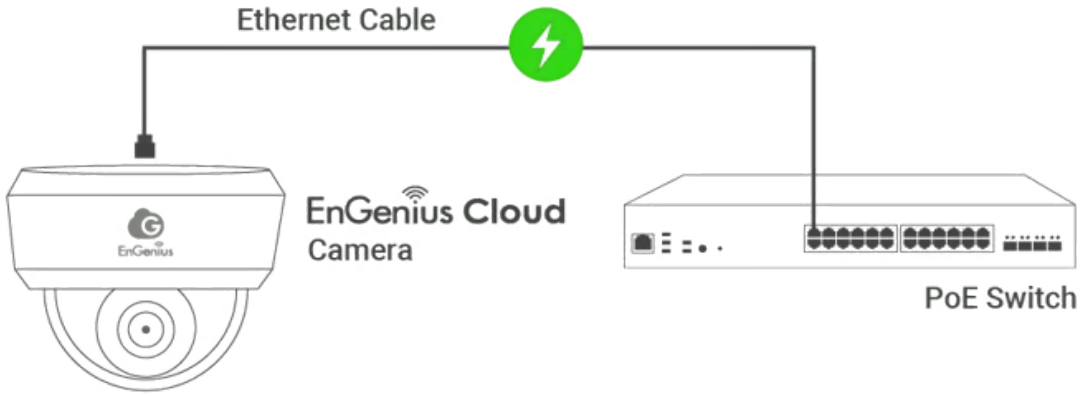
Step2: Power On Device

The ECC100 cloud camera device can be powered by any of the following:

- EnGenius Cloud PoE Switch or 802.3af/ 802.3at PoE+ compliant Switch
- EnGenius PoE adaptor (EPA5006GP/EPA5006GAT)

Connecting to a PoE Switch

Connect the Ethernet cable from the EnGenius Cloud Camera directly to the PoE port of the PoE switch.



Camera is powered by a PoE Switch

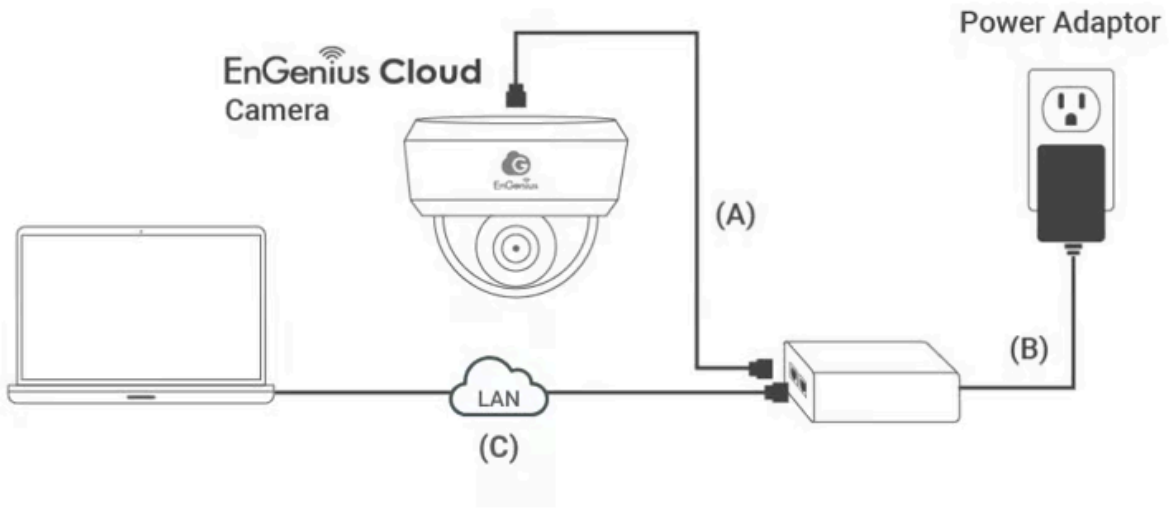
Powered with a PoE Adapter

(A) Connect one end of the Ethernet cable into the LAN (PoE) port of EnGenius Cloud Camera and the other end to the PoE port on the PoE Adapter.

(B) Connect the power cord with the PoE Adapter and plug the other end into an electrical outlet.

(C) Connect the second Ethernet cable to the PoE adapter's LAN port and the other end to the LAN.

Please ensure to use cat5/cat5e UTP/STP RJ45 Ethernet cables.



Camera is powered by a PoE Adapter

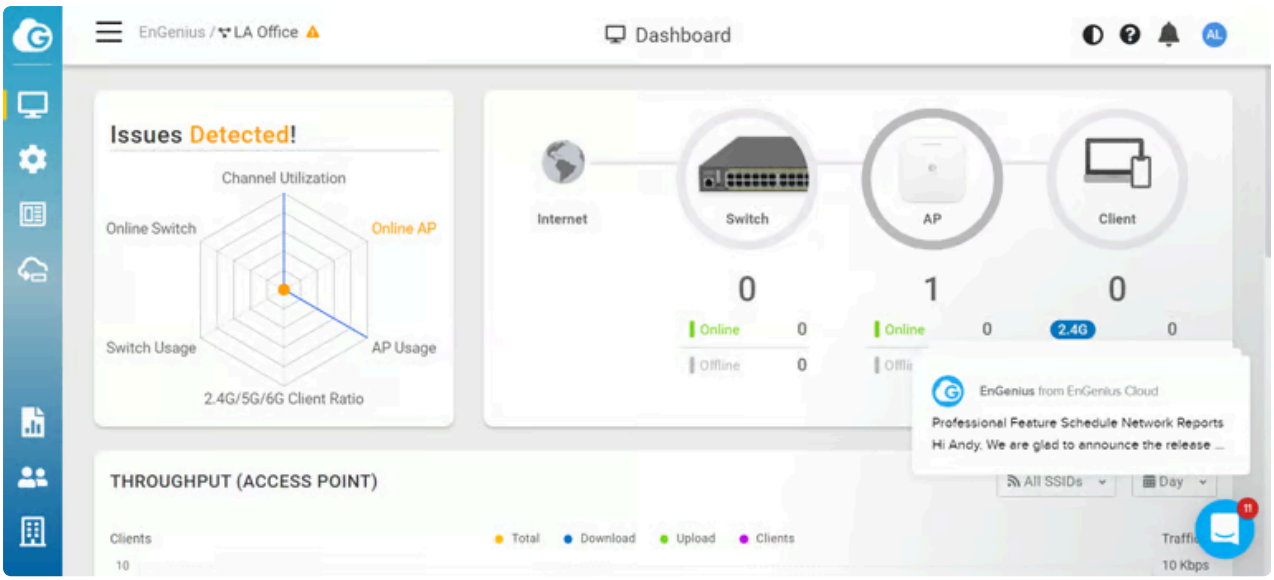
Step3: Connect to the EnGenius Cloud

Once the device is powered on and ready to connect to the Internet, the **LED indicator** will stay *Solid On*, which means the device is now connected to the EnGenius Cloud Platform. It will automatically download the default configuration settings from EnGenius Cloud for automated provisioning.

> When the **Camera** is connected to the EnGenius Cloud Platform for the first time, it will automatically check the latest firmware version available. If the **firmware upgrade** is required, it might take **8~10 minutes** to complete the process. The **LED** indicator will be *Flashing (every 0.5 sec)* till the process is finished.

Step4: Manage with the EnGenius Cloud

Log in to the **EnGenius Cloud ↗ platform** to configure detailed settings. For more information, please refer to the User Manual ↗.



EnGenius Cloud Dashboard

To remove a camera for other uses, you must first **Remove it from the personalized network** ↗ in EnGenius Cloud, **Deregister** ↗ it, and then reset the camera.

Appendix

Technical Support

Country of Purchase	Service Center	Service Information
North America	Los Angeles, USA	cloud.engenius.ai support@engeniustech.com Local: (+1) 714 432 8668
North America	Canada	cloud.engenius.ai support@engeniustech.com Local: (+1) 905 940 8181
Europe	Netherlands	eusupport@engeniustech.com Local: (+31) 40 8200 887
Asia / Oceania / Africa / CIS / Middle East	Singapore	techsupport-sg@engeniustech.com Local: (+65) 6227 1088
Taiwan	Taiwan, R.O.C	support@engeniustech.com.tw Local: (+886) 933 250 628
Japan	Tokyo, Japan	jp.support@engenius.ai Local: (+81) 3 6809 6608
India	Hyderabad, India	indiasupport@engenuistech.com Ph: +91 76740 47729

Security Bulletin

The EnGenius Product Security Team is tasked with researching, analyzing, and responding to security incident reports about EnGenius products. This team serves as the initial point of contact for all security incident reports and collaborates directly with EnGenius customers, security researchers, government agencies, consultants, industry security organizations, and other vendors to detect security issues with EnGenius products. Moreover, the team is responsible for issuing security advisories and communicating with external entities regarding measures to mitigate specific security issues encountered with EnGenius products. Please visit EnGenius PSIRT ↗ for more detailed information.

EnGenius refrains from disclosing details of a vulnerability that could be utilized to create an exploit. To report a security vulnerability, please contact psirt@engenius.ai.

Compliance

FCC

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.

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 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.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

(If device is outdoor AP, please delete it. If device is indoor AP, need to add it.)

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

For mobile device usage (>20cm/low power)

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

CE

The device complies with Directive 2014/53/EU issued by the Commission of the European Community.

Standards:

- ETSI EN 300 328 V2.2.2 (2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05) Final Draft
- ETSI EN 303 687 V0.0.20 (2022-03)
- EN 55032:2015+A1:2020 EN 55035:2017/A11:2020 ETSI
- EN 301489-1 V2.2.3 (2019-11)
- ETSI EN 301 489-17 V3.2.4 (2020-09)
- EN 62368-1:2014+A11: 2017
- EN 62311: 2020

UKCA

The device is in conformity with the relevant legislation of United Kingdom: 2017 (S.I. 2017/1206)/ Regulations 2016 (S.I. 2016/1091)/ Regulations 2016 (S.I. 2016/1101).

Standards:

- EN 300 328 V2.2.2 (2019-07)
- EN 301 893 V2.1.1 (2017-05) Final Draft
- EN 303 687 V0.0.20 (2022-03)
- EN 55032:2015+A1:2020
- EN 55035:2017/A11:2020
- EN 301489-1 V2.2.3 (2019-11)
- EN 301 489-17 V3.2.4 (2020-09)
- EN 62368-1:2014+A11: 2017
- EN 62311: 2020
- IR 2030

IC

This device complies with ISED's license-exempt RSS. 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.

Caution :

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(iv) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

Declaration of Conformity

Hereby, EnGenius Networks declare that this product is in compliance with:

- Directive 2014/53/EU
- Regulations 2017 (S.I. 2017/1206)/ Regulations 2016 (S.I. 2016/1091)/ Regulations 2016 (S.I. 2016/1101)
- RoHS 2015/863
- WEEE 2022
- REACH Regulation

Disclaimer/ Note

- Maximum data rates are based on the IEEE standards. Actual throughput and range may vary depending on many factors including environmental conditions, the distance between devices, radio interference in the operating environment, and the mix of devices in the network.

- Features and specifications are subject to change without notice.
- 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.
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