IENSO CB22.2 Ethernet PoE Wi-Fi Bullet Network Camera Instructions

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IENSO CB22.2 Ethernet PoE Wi-Fi Bullet Network Camera

Specifications

- Sensor and Lens
- Image Sensor
- Network PoE Protocols
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- Frequency Range

Product Information

Camera Overview
The CB22.2 Bullet Camera is a 2 2-megapixel video camera that features on-edge analytics, including person detection. Users can view live and recorded HD video clips, define video actions, and receive push notifications of real events in real-time.

Package Content
The package includes the CB22.2 Bullet Camera.

Powering the Camera
To power the camera, connect it to a PoE (Power over Ethernet) switch or use a compatible power adapter.

Mounting the Camera
To mount the camera:

1. Place the mounting template at the desired location.
2. Drill holes according to the template.
3. Adjust the camera angle using the adjustment screw at the base.
4. Securely mount the camera base to a wall or ceiling using the provided screws and anchors.
5. Lock the camera in place by tightening the adjustment screw.

Product Usage Instructions

Requirements
Wi-Fi Only Onboarding – Logging into the camera

CCTV Mobile Demo App Install

1. Transfer the provided Android APK application to your phone or tablet.
2. Install the application by clicking on the file.
3. Confirm successful installation by locating the App icon.

Cloud Account Setup

1. Ensure the iENSO CCTV Mobile App is installed on your Android device.
2. Open the app and enter account setup details on the Sign-Up page.
3. Create a password with numbers and letters (at least 8 characters long).
4. Complete setup by pressing ‘Next.’

Logging into the Camera

Finding IP Address:

1. Use an IP finder tool with the Hostname ‘IVS-CV28PV2’ to locate the camera.
2. Access the login page by entering the IP address in a browser.

Login Credentials:

- **Username:** admin
- **Password**: Embeddedv1si@n

Camera Overview:

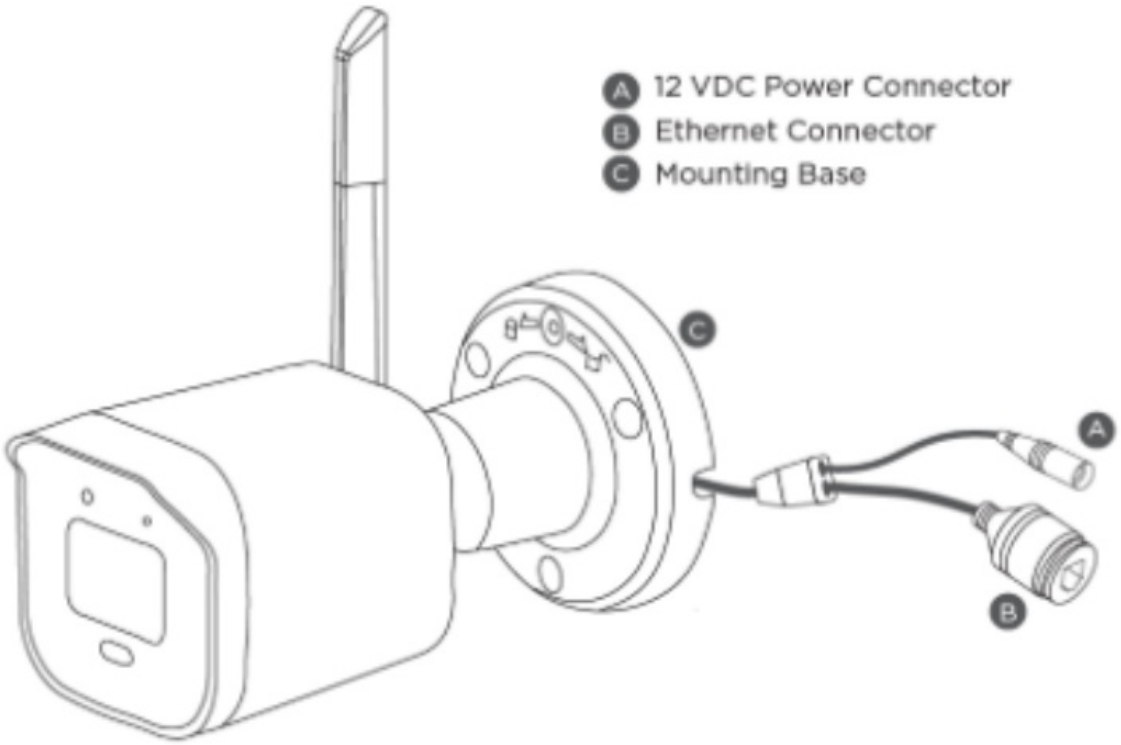
General Camera Description
The CB22.2 Bullet Camera is a 2 2-megapixel video camera that features on-edge analytics, including person . Users can view live and recorded HD video clips, define video actions, and receive push notifications of real events in real-time.

Package Content

- Ethernet / PoE / Wi-Fi Network Camera

- Mounting Template
- Weatherproofing Cap Kit
- Screw & Anchor Kit
- 2 x Allen Key
- SMA Antenna (not pre-attached)
- Security grade microSD memory card (pre-inserted)

Camera Overview



Powering the Camera
Before connecting the Ethernet cable, install the waterproof Ethernet cap if desired. Refer to the connection options below.

1. **Option One: Standard Power Connection (NOTE: when used as a Wi-Fi camera)**
   Connect a compatible 12 VDC Power Supply to the camera power connector. Connect a network cable to the camera Ethernet connector.
2. **Option Two: PoE Connection**
   Connect a network cable from the camera's Ethernet connector to a Power over Ethernet (PoE) switch or injector.

Note: For bench setup of PoE cameras (NOTE: not supported if using the camera as a Wi-Fi camera), the camera does not need to be removed from the box. Open the box to expose the cable connection ends and begin the onboarding process. To avoid overheating during bench setup, do not leave the camera powered on for more than 2 hours continuously while inside the packaging.

Mount the Camera
Standard Wall or Ceiling Mount

1. Place the mounting template at the location you want to mount the camera.

2. Drill holes into the mounting template.
3. Unscrew the adjustment screw at the camera base to change the camera angle.
4. Use the included screws and wall anchors to mount the camera base to a wall or ceiling.
5. Screw in the adjustment screw at the camera base to lock the camera in place.

Note: The mounting surface must be capable of holding five times the camera's weight.

Adjust the Camera

1. Unscrew the adjustment screw at the camera base. There will be a lock icon and an unlock icon on either side.
2. Adjust the pan, tilt, and camera rotation angle as needed.
3. Screw in the adjustment screw at the camera base to lock the camera in place.

Requirements

- A Windows, Mac, or Linux PC or laptop
- Power + Communications Requirements:
- Available Ethernet Port on local network and mains power OR
- PoE Port on the local network (PoE standard 802.3af or higher)
- Wi-Fi only – an accessible local Wi-Fi network. Network credentials required

Wi-Fi Only Onboarding – Logging into the camera

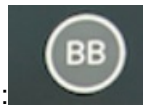
CCTV Mobile Demo App Install

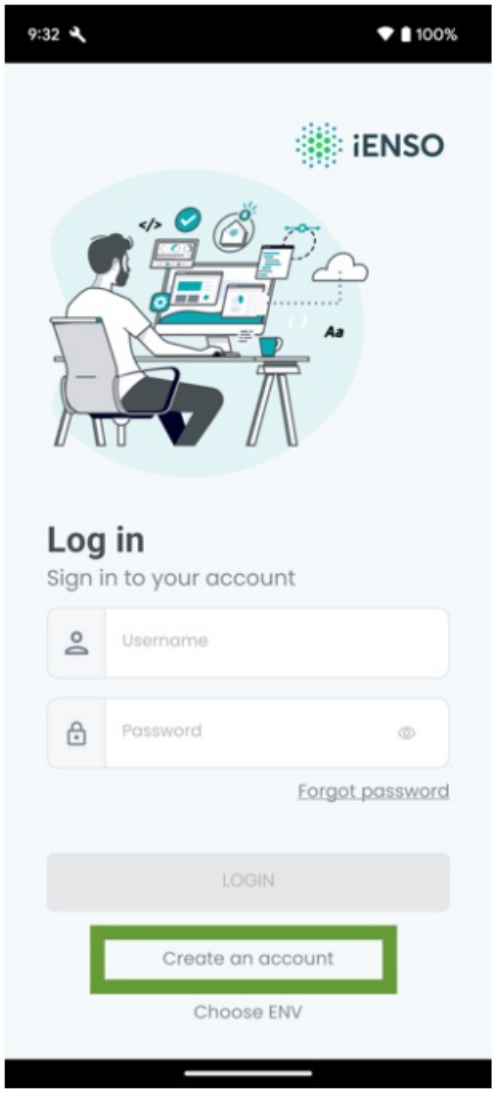
1. Drag the provided Android APK application (*.APK) onto a directory on the phone or tablet.
2. Click on the file to install it.
3. Confirm the application has been installed. You will see the App icon:

Cloud Account Setup:
NOTE: ensure iENSO CCTV Mobile App is installed on an Android mobile phone or tablet.

1. Open up the iENSO CCTV Mobile App.

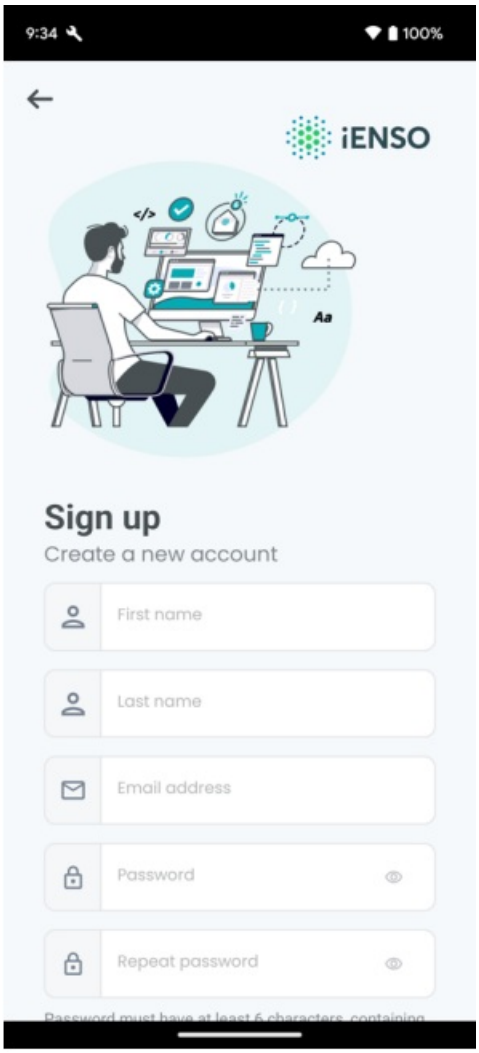
2. Press on “Create an account” at the bottom of the page to create a Cloud account for the camera to connect to. Note down the username and password. If you do not see the screen below, click on the circle icon at the top right corner of the page. It looks like this (it may say ‘OO’):



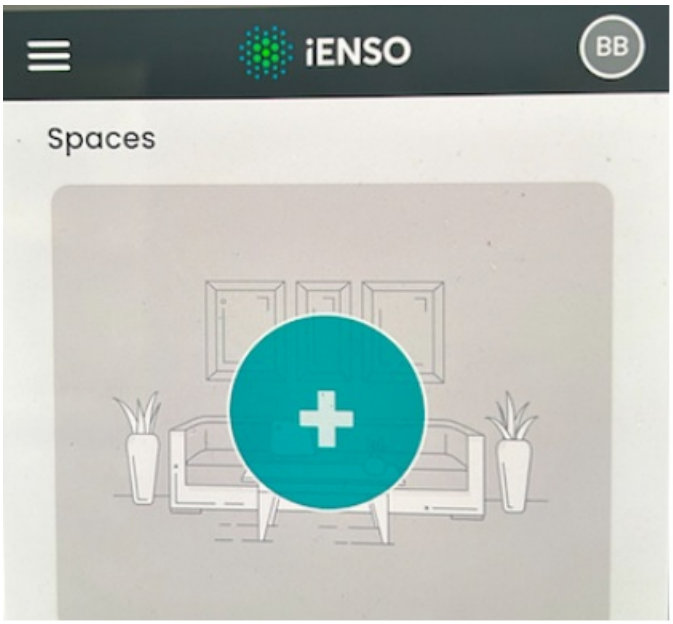


3. Enter account setup details on the Sign-Up page and press ‘Next’ to complete the setup. Make sure to note down the password you entered. Your demo account is now set up.

   NOTE: Password should contain numbers and letters and be at least 8 characters long



You should now be logged into the App and see the screen shown in the below image



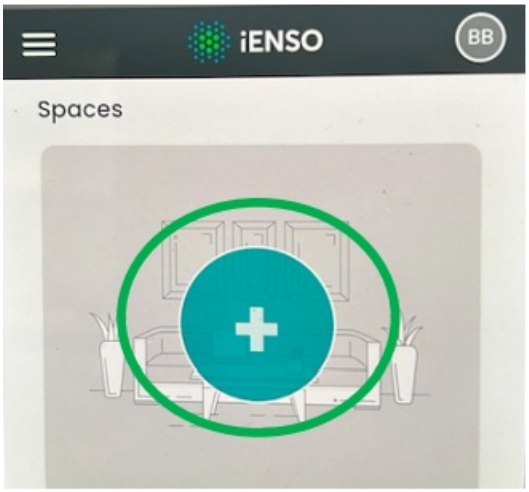
Camera Setup:

IMPORTANT:

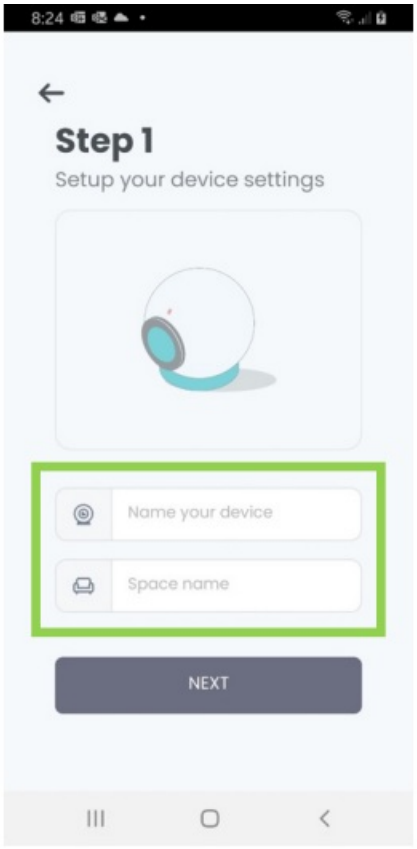
- Make sure you connect to a 2.4GHz network / 5GHz network for this demo
- Make sure you have good signal strength with the router to properly demonstrate the low latency performance.

Suggestion. If your mobile phone has a strong signal, use it as a hotspot and have the camera connect to the hotspot to test latency performance.

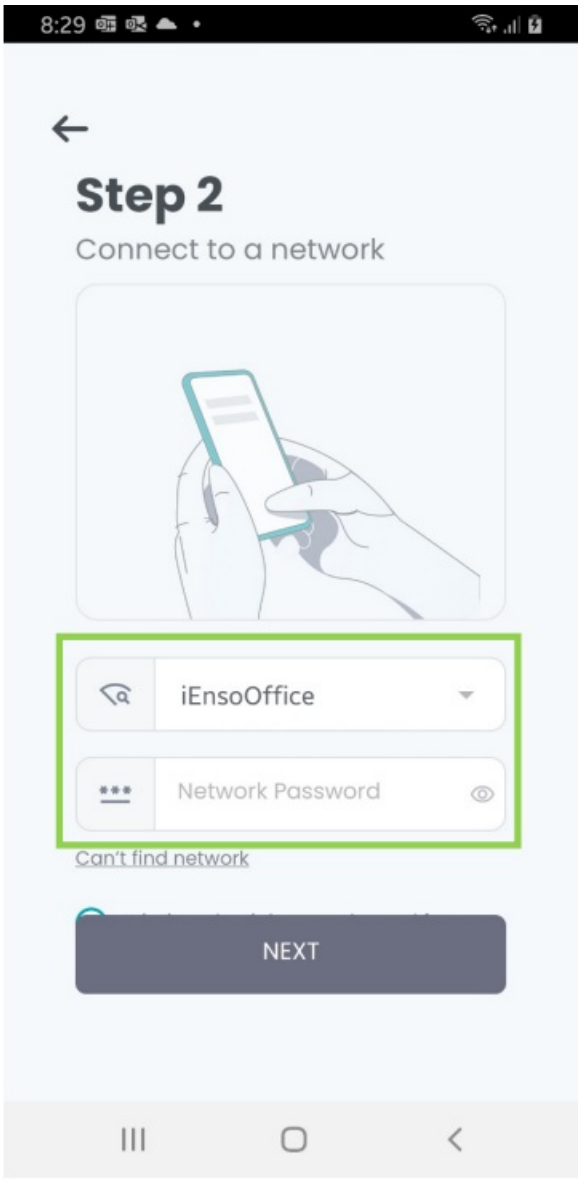
1. Click on the '+' icon to set up a new camera on the account



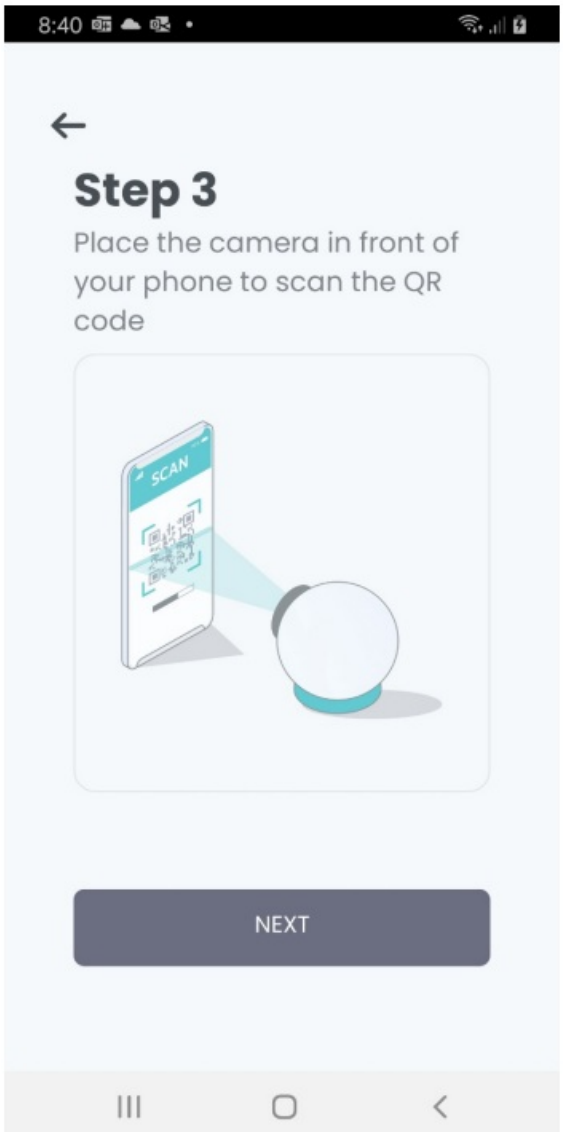
2. Name the device and name the space the camera is located in.



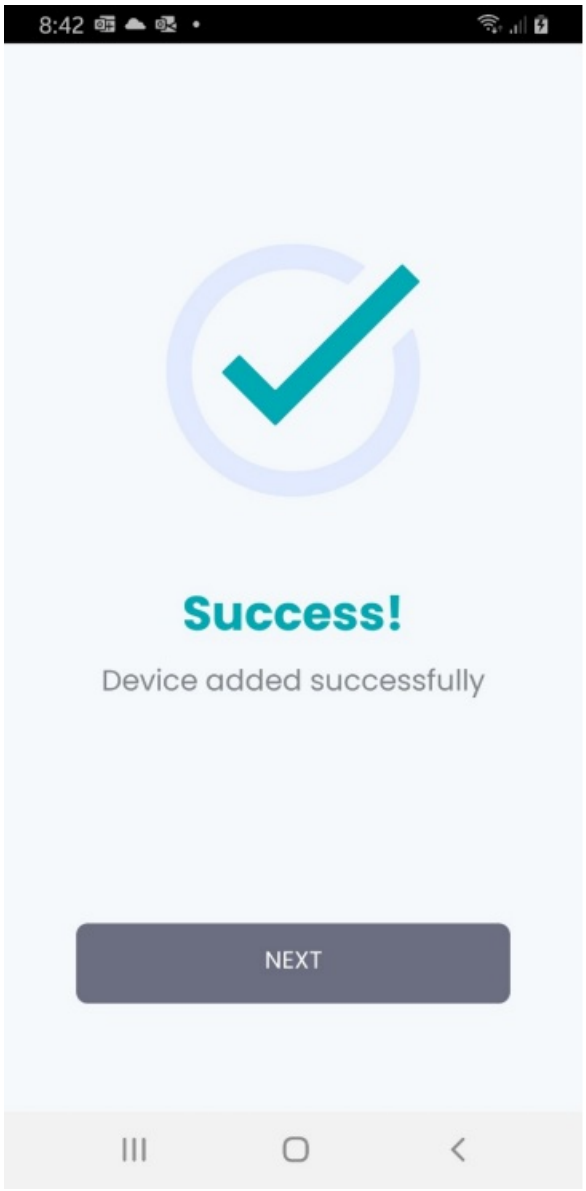
3. Connect the camera to the same network the phone/tablet is connected to. It must be a 2.4GHz network for this demo.



The onboarding process is now ready to start. Click “Next”. You will need to place the camera in front of the QR Code that is displayed after hitting “Next.

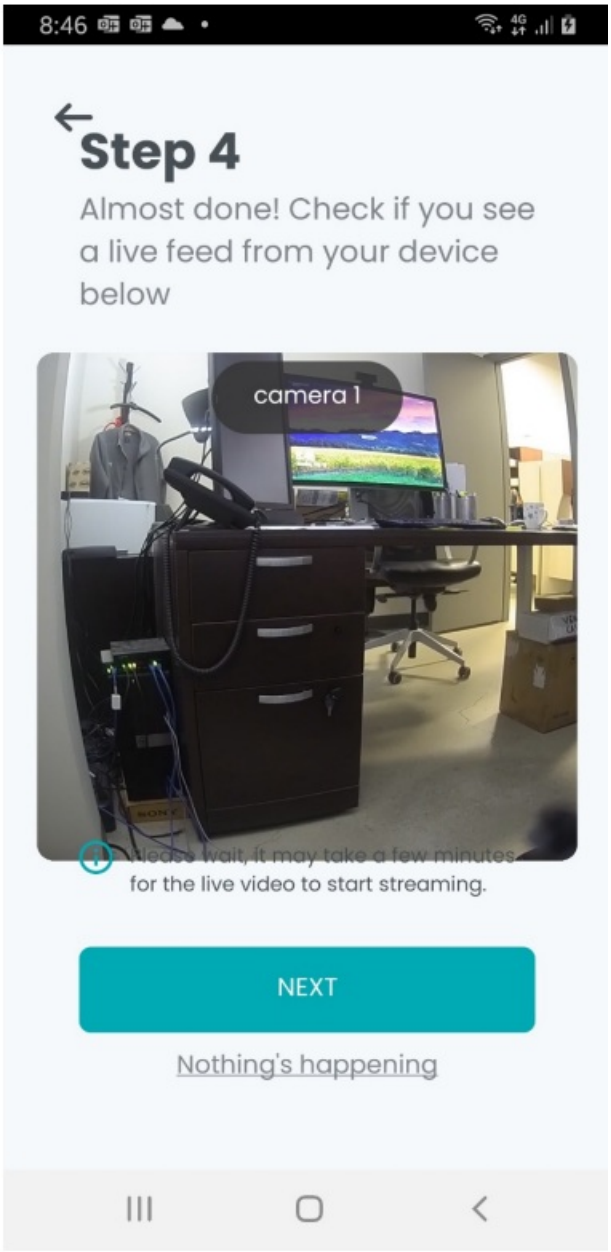


4. Hold the phone/tablet in front of the camera approximately 10cm – 20cm (4”-8”) from the camera so the camera can read the QR code. You will have 60 seconds to scan the QR code. Once the QR code is read successfully and the camera is registered, the App screen will show a “Success!” message. Press ‘Next’



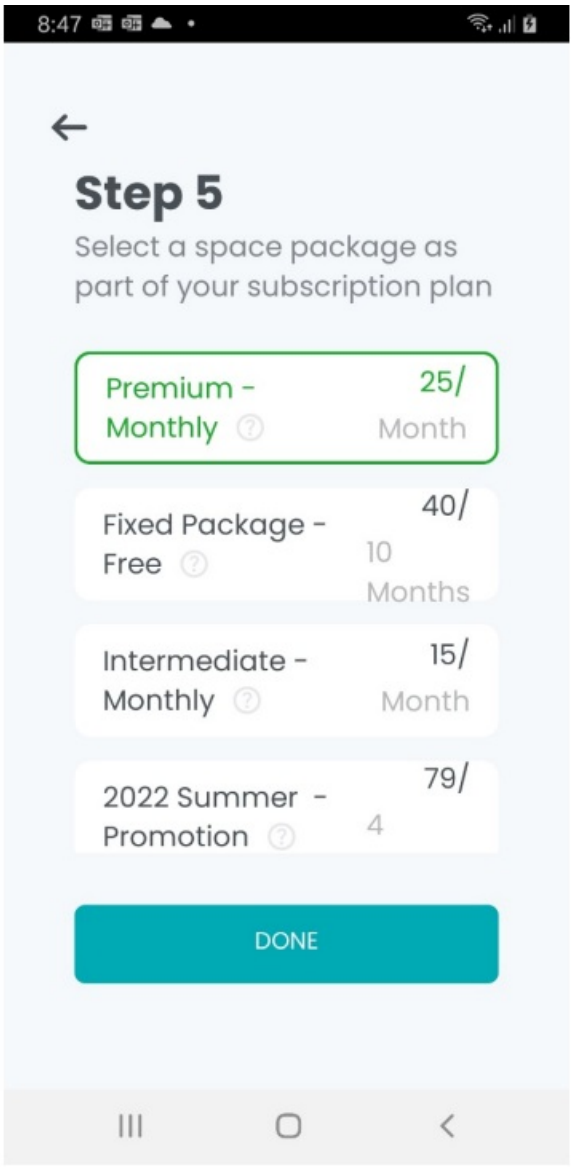
1. **NOTE 1:** it may take a few seconds for the registration to be completed so be patient. Move the camera up/down/left/right slightly if required to ensure proper QR code registration.
2. **NOTE 2:** If 60 seconds pass without a successful scan, please repeat the process by pressing ‘Try Again’. Another 60-second session will start.

5. After successful registration, a Live Feed screen will appear to verify the camera is streaming video correctly. Press ‘Next’



1. **NOTE**: if you don't see a live preview after a few minutes, click on 'Nothing's happening' to troubleshoot

6. A simulated step appears to select a subscription. Any can be selected as the subscriptions are for demos only. Press "Done" to continue and complete the onboarding process.



You have successfully finished onboarding the camera onto the ENSO Cloud. Congratulations!
You will be returned to the main ‘Spaces’ window in the App. You will see

1. Your initials based on the user’s name entered during the account sign-up process in the top right corner
2. The named space that the camera is located in is entered during the setup process

Logging into the camera

NOTE: Computer and camera should be on the same network

Finding IP Address:

1. Use an IP finder tool to find the camera with Hostname ‘IVS-CV28PV2’
   TIP: If you plan on accessing the camera frequently, we recommend setting a static IP address for the camera on the ‘Systems’ page.
2. Open the browser and copy over the IP address to access the login page (See fig. 4.1)
   NOTE: Not all browsers will work properly. MS Edge or Google Chrome browsers recommended

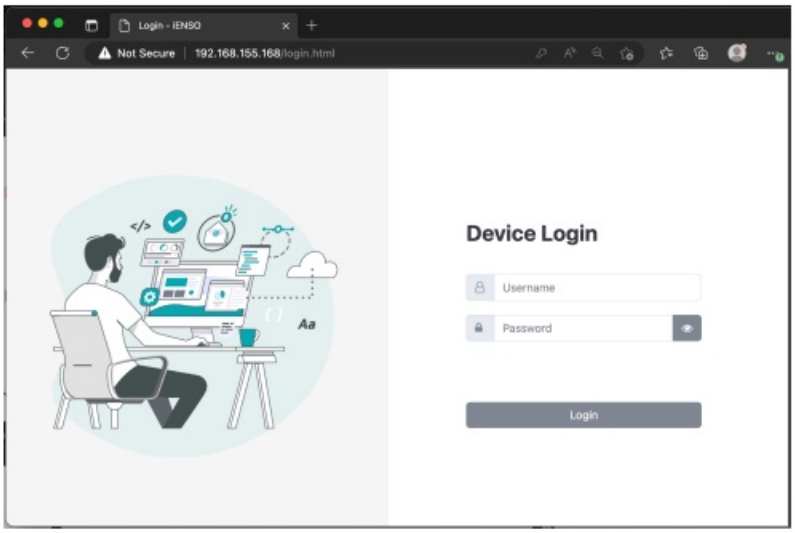


Fig 4.1

Login Credentials:

- **Username**: admin
- **Password**: Embeddedv1si@n

Click “Login” to access the camera web interface (See Fig. 4.2)

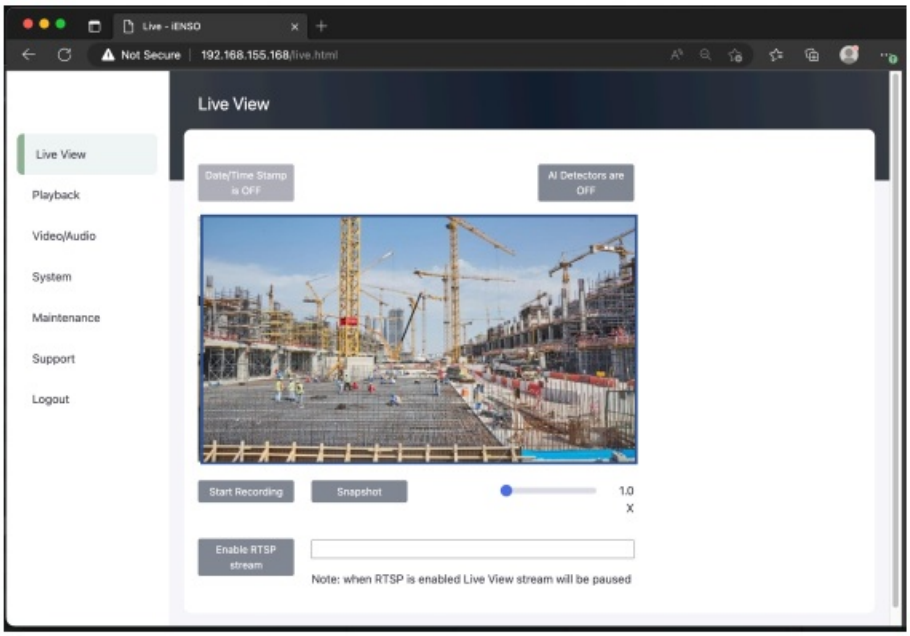


Fig 4.2

NOTE: The lens can be adjusted by turning it to account for different focus distances

Web Interface Overview

- **Live View** – Get a live feed from the camera, apply pre-integrated AI analyses, take snapshots and video clips
- **Playback** – Review and download snapshots and video clips
- **Video/Audio –** Adjust various camera se@ngs including streaming and image quality parameters
- **System –** Adjust 9me and network se@ngs
- **Maintenance** – Update login information, update Firmware, and reset camera se@ngs and parameters
- **Support –** Access to camera and support information

- **Logout –** Log out of the camera

Certifications

FCC Caution: Any changes or modifica9ons not expressly approved by the party responsible for compliance could
void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Opera9on 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 opera9on.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmiter. To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with a minimum distance between 20cm of the radiator and your body: Use only the supplied antenna.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, under Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residen9al installa9on. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used by the instructors, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a par9cular installation. If this equipment does cause harmful interference to radio or television recep9on, 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 the receiver.
- Connect the equipment to 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 ID: 2BDVC-CB22D2USC01

IC Caution:
This device complies with Industry Canada license-exempt RSS standard(s). Opera9on 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 opera9on of the device.

This equipment should be installed and operated with a minimum distance between 20cm of the radiator and your body This Class [B] digital apparatus complies with Canadian ICES-003.

Caution:
Operating Frequency Range band 5150-5250 MHz "for indoor use only."

Specifications

Sensor and Lens	
Image Sensor	2 MP, 1/2.9” CMOS
Network	
PoE	802.3af Compliant
Protocols	IPv4
IP Ra9ng	IP66
Wireless Standards	IEEE 802.11a/b/g/n
Frequency Range	2402-2480MHz for BT 2412-2462MHz for WIFI 2.4G 5150-5850MHz for WIFI 5G
Hardware	
Power Consump9on	12 VDC, 7.5W
Weight	Without Antenna 0.65 kg With Antenna 0.67 kg
Dimensions	Without Antenna
	3.15″ x 6.42″ x 3.15″ (8.0cm x 16.4cm x 8.0cm) With Antenna 3.15″ x 6.42″ x 5.95″ (8.0cm x 16.3cm x 15.1cm)
Housing Material	Aluminum
Environmental	
Opera9ng Temperature	-4°F ~ 122°F (-20°C ~ -50°C)
Opera9ng Humidity	90% RH or less, non-condensing

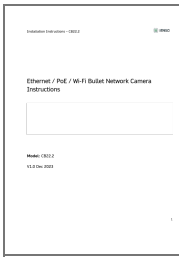
Need Support?
Contact us at: help@ienso.com

FAQ

Q: How can I adjust the focus of the camera lens?

A: The lens can be adjusted by turning it to account for different focus distances. Refer to Fig 4.2 for guidance.

Documents / Resources

	IENSO CB22.2 Ethernet PoE Wi-Fi Bullet Network Camera [pdf] Instructions CB22.2 Ethernet PoE Wi-Fi Bullet Network Camera, CB22.2, Ethernet PoE Wi-Fi Bullet Network Camera, PoE Wi-Fi Bullet Network Camera, Bullet Network Camera, Network Camera, Camera

References

- User Manual