Wi-Fi Indoor Cube Network Camera Instructions

Model: CW22.1

V1.0 Dec 2023

Table of Contents

1. Camera Overview:

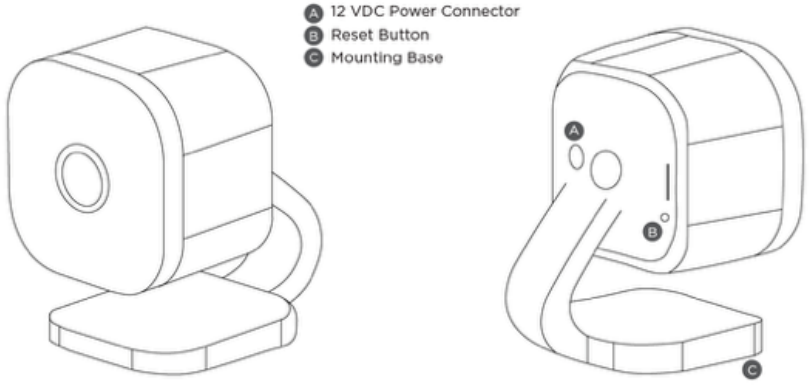
General Camera Description

The CW22.1 Indoor Cube Camera is a 2 Megapixel indoor 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

- Wi-Fi Network Camera
- 12V DC Power Supply
- Mounting Template
- Screw & Anchor Kit
- Security grade microSD memory card (pre-inserted)

Camera Overview



Powering the Camera

Standard Power Connection
Connect the included 12 VDC Power Supply to the camera power connector.

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. Remove the mounting base from the camera.
4. Install the camera base on the wall or ceiling with the supplied screws.
5. Press the camera into the mounting base. The camera will click into place.
    - **Note**: The mounting surface must be capable of holding five times the camera's weight.

Adjust the Camera

1. Adjust the tilt angle by gently pushing the camera lens forwards and backwards. The camera lens will tilt on the neck of the attached base.
2. Adjust the panel angle by turning the entire camera unit to your desired position on the magnetic mounting plate.

2. Requirements

- A Windows, Mac or Linux PC or laptop
- A nearby 110V mains power outlet
- An accessible local Wi-Fi network. Network credentials required

3. Onboarding - Logging into the camera

CCTV Mobile Demo App Install

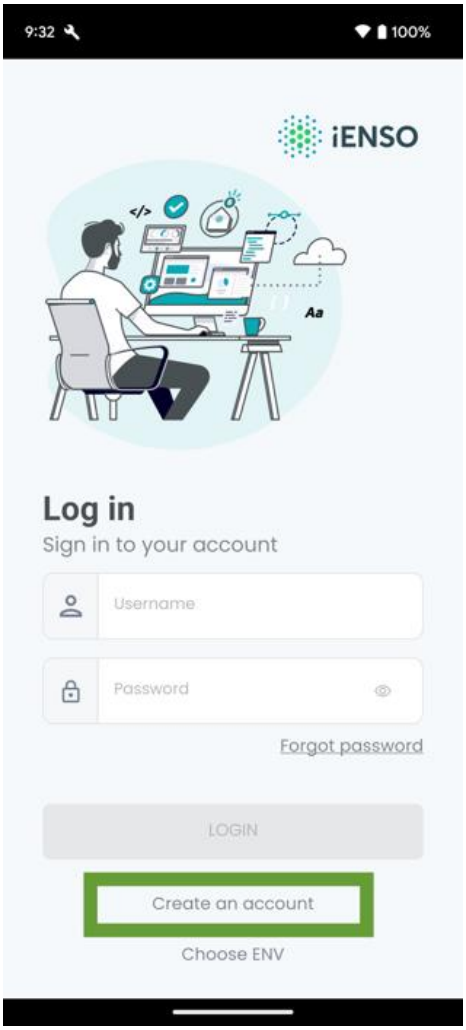
1. Drag the provided Android APK application (*.APK) onto a directory on the phone or tablet.
2. Click on the file to install it.
3. Confirm the application has installed. You will see the App icon:

Cloud Account Setup:

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

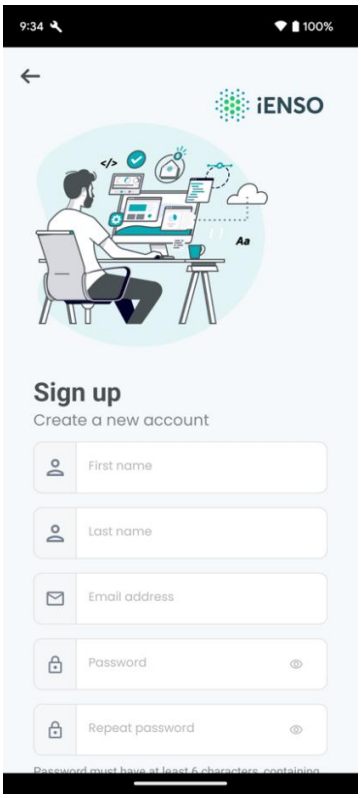
1. Open up the iENSO CCTV Mobile App.

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

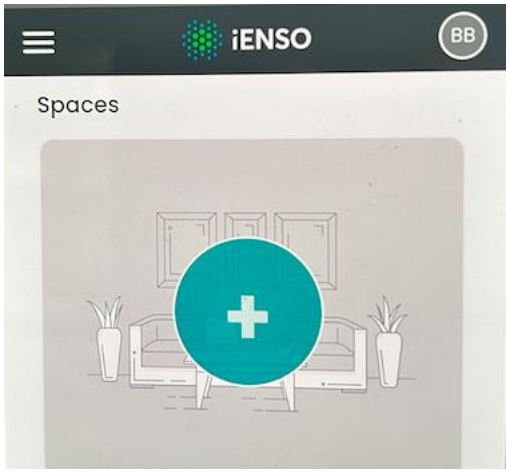


3. Enter account setup details on the **Sign-Up** page and press ‘**Next**’ to complete setup. Make sure to note down the password you entered. Your demo account is now setup.

   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 show in the below image



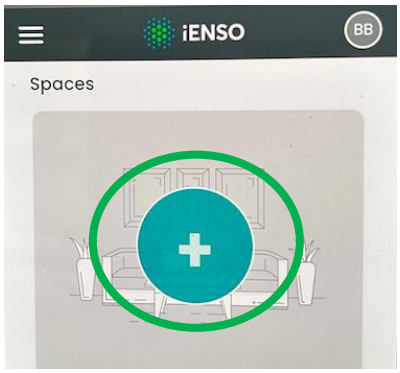
Camera Setup:

IMPORTANT:

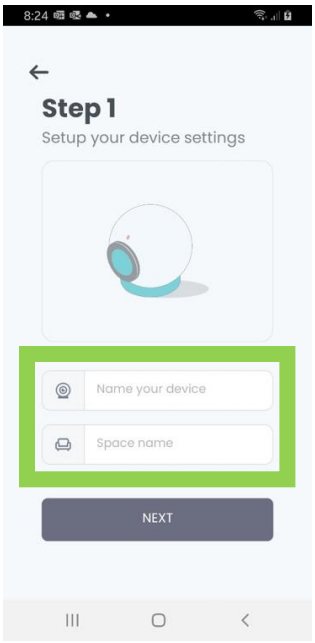
- Make sure you connect to a **2.4GHz/5G network** for this demo
- Make sure you have good signal strength with the router to properly demonstrate the low latency performance.

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

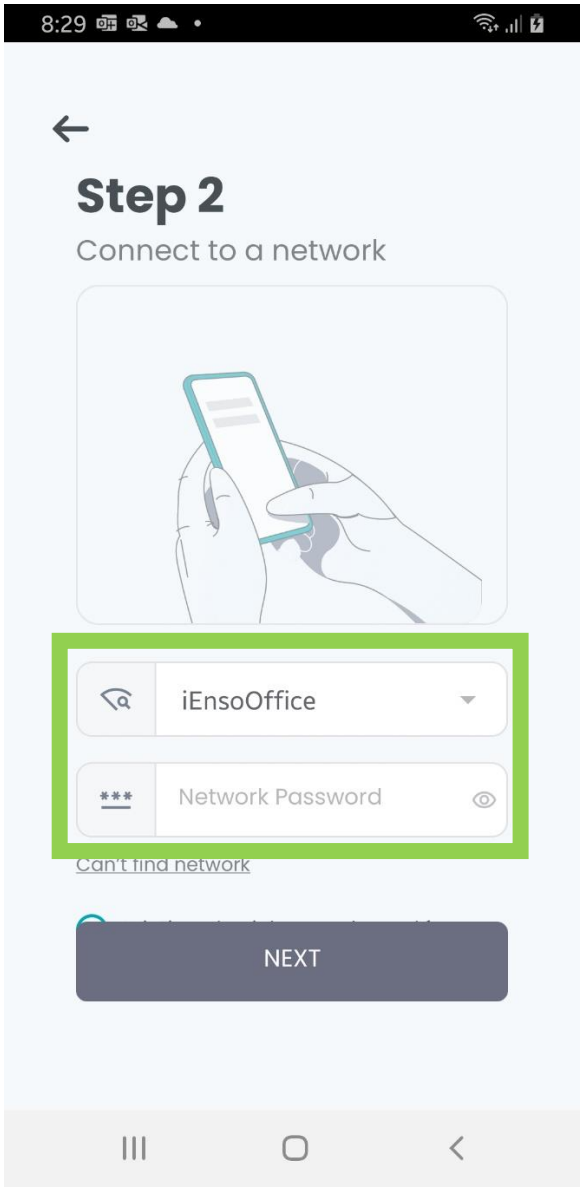
1. Click on the '+' icon to set up a new camera on the account



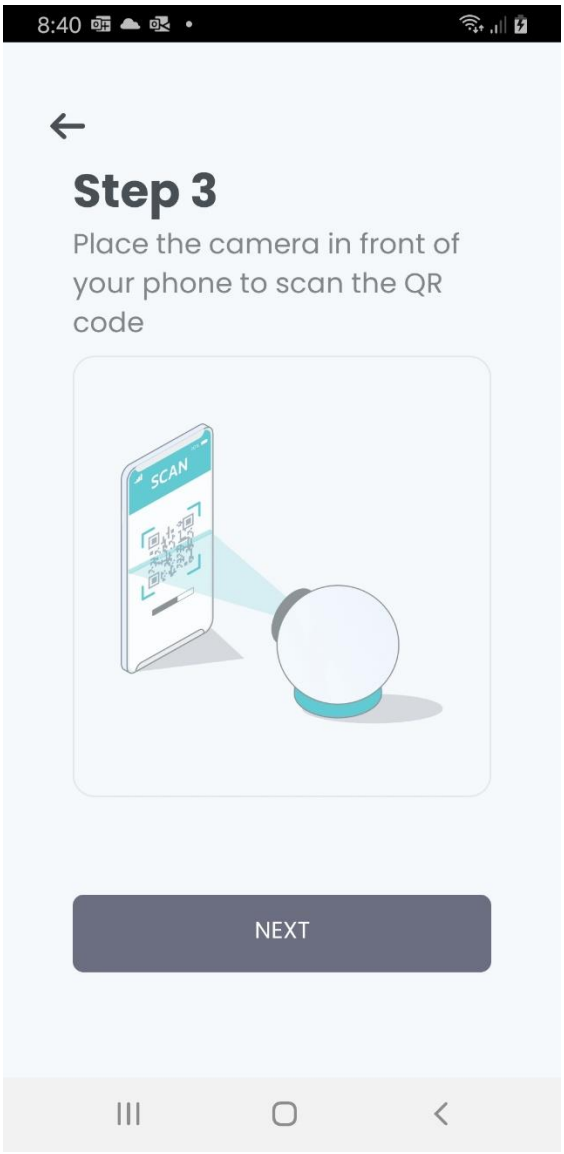
2. Name the device and name the space the camera is located in.



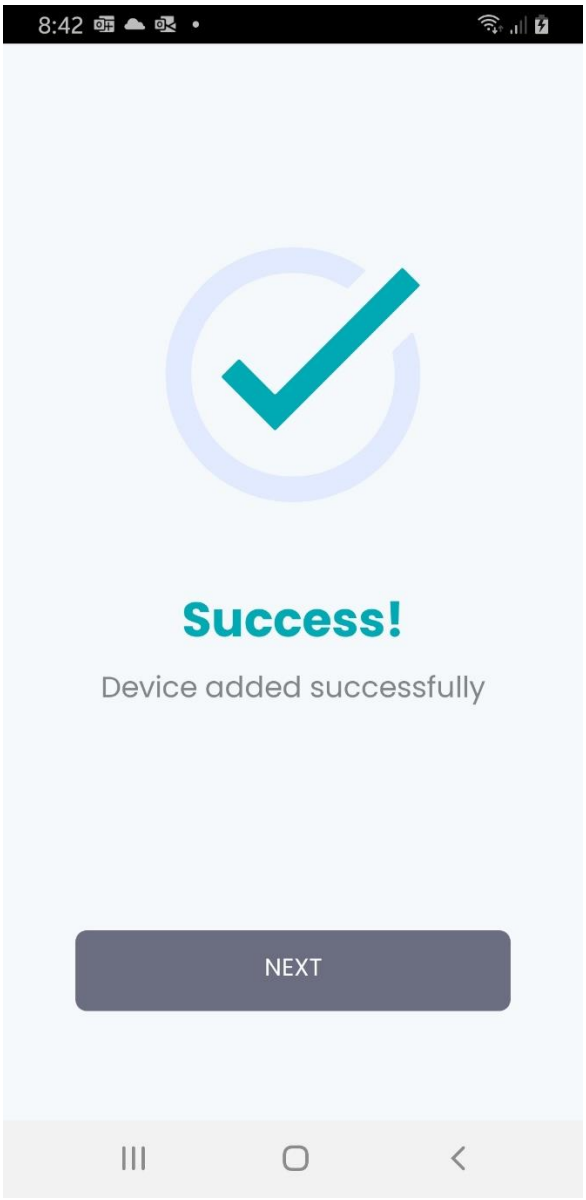
3. Connect the camera to the **same** network the phone/tablet is connected to. **It must be a 2.4GHz network for the purpose of this demo**.



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**”.



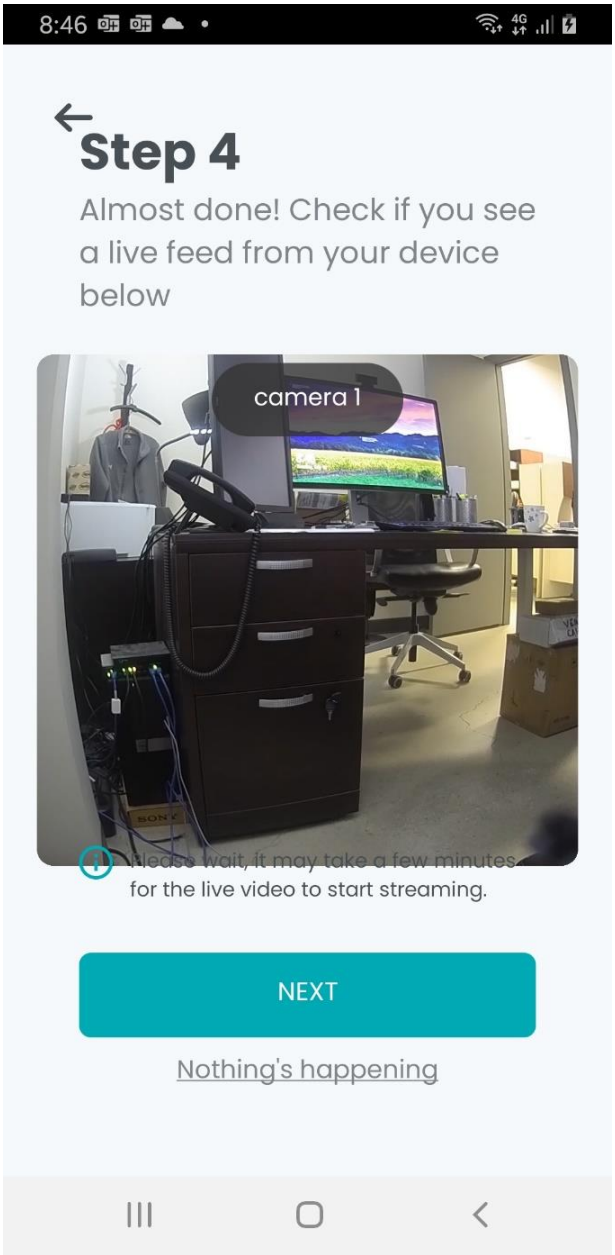
4. Hold the phone/tablet in front of the camera approximately 10cm – 20cm (4”-8”) from the camera so the camera can read the QR code. You will have 60 seconds to scan the QR code. Once the QR code is read successfully and the camera is registered, the App screen will show a “Success!” message. Press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



i. NOTE: it may take a few seconds for the registration is completed so be patient. Move the camera up/down/left/right slightly if required to ensure proper QR code registration.

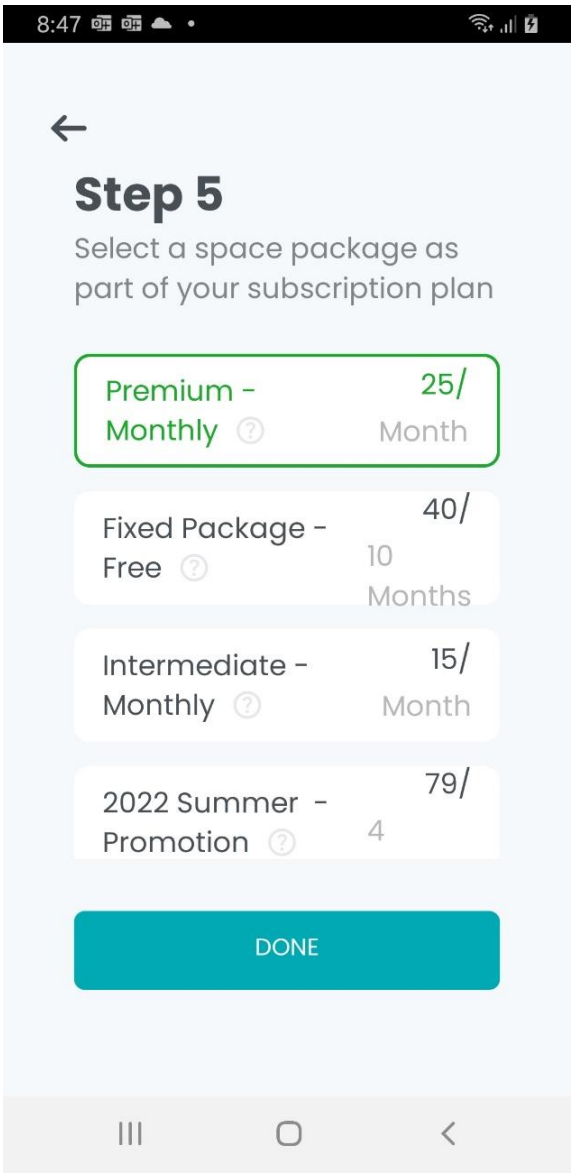
ii. NOTE 2: If 60 seconds pass without a successful scan, please repeat the process by pressing ‘**Try Again**’. Another 60 second session will start.

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



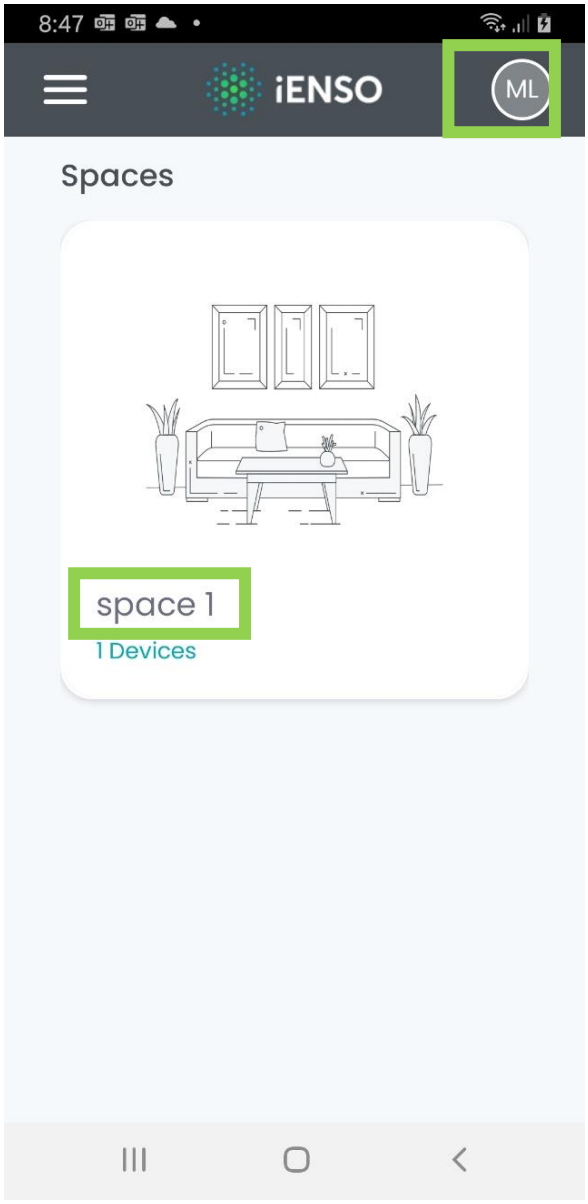
i. NOTE: if you don't see a live preview after a few mins, click on '**Nothing's happening**' to troubleshoot

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



You have successfully finished onboarding the camera onto the iENSO 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 entered during the setup process



4. 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 in the 'Systems' page.

2. Open 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

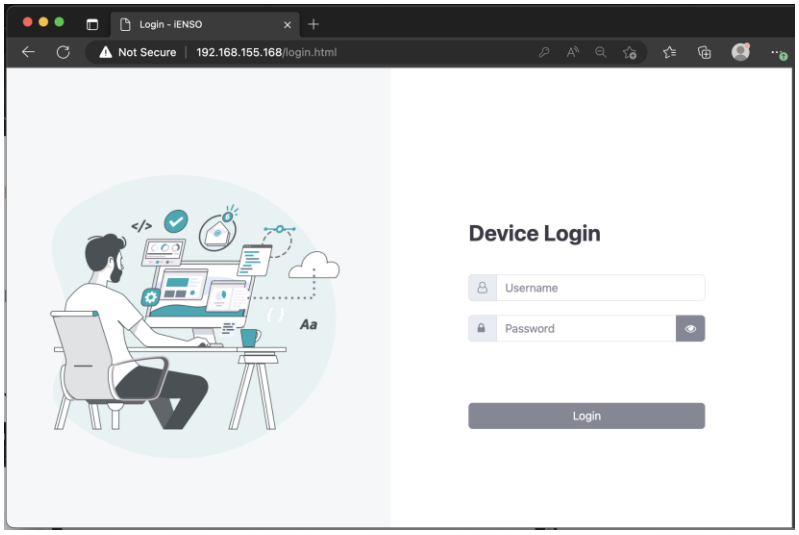


Fig 4.1

Login Credentials:

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

Click "**Login**" to access camera web interface (See Fig. 4.2)

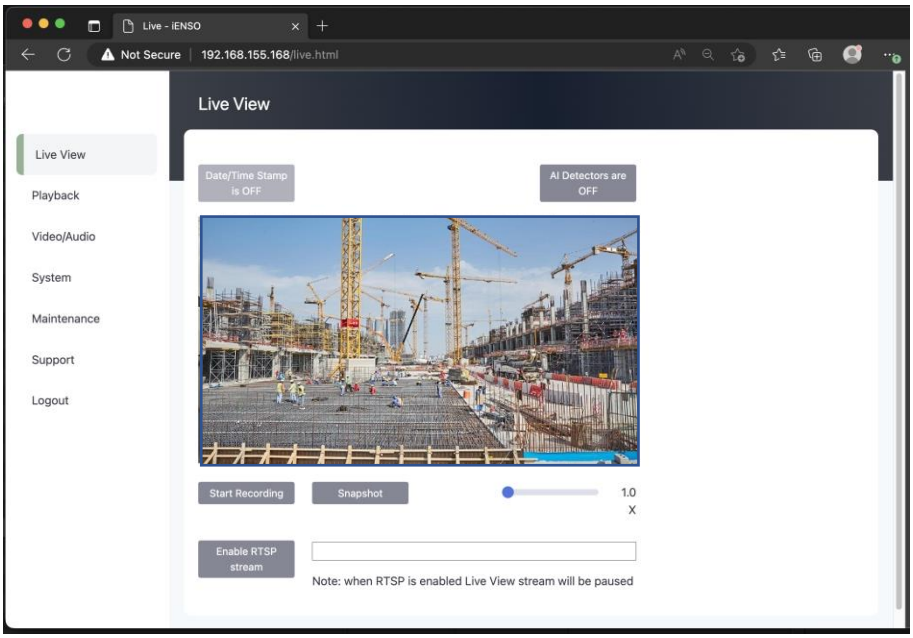


Fig 4.2

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

5. Web Interface Overview

Live View – Get a live feed from the camera, apply pre-integrated AI analytics, take snapshots and video clips
Playback – Review and download snapshots and video clips
Video/Audio – Adjust various camera settings including streaming and image quality parameters
System – Adjust time and network settings
Maintenance – Update login information, update Firmware and reset camera settings and parameters
Support – Access to camera and support information
Logout – Log out of the camera

6.Certifications

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 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 device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator 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, 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 followingmeasures:
-- 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 ID:2BDVC-CW22D1USC01

IC Caution:
This device complies with Industry Canada licence-exempt RSS standard(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 devic e.
This equipment should be installed and operated with minimum distance between 20cm the radiator your body
This Class [B] digital apparatus complies with Canadian ICES-003.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L' exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'u tilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps
Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

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

7.Specifications

Sensor and Lens	
Image Sensor	2 MP, 1/2.9” CMOS
Network	
Protocols	IPv4
Wireless Standards	IEEE 802.11a/b/g/n
Frequency Range	2.412GHz ~ 2.484 GHz 5.15GHz ~ 5.85GHz
Hardware	
Power Consumption	12 VDC, 5W
Weight	0.18 kg
Dimensions	3.62" x 3.58" x 3.44" (9.2cm x 9.1cm x 2.56cm)
Housing Material	PC + ABS
Environmental	
Operating Temperature	32ºF ~ 113ºF (0ºC ~ 45ºC)
Operating Humidity	80% RH or less, non-condensing

Need Support?

Contact us at:

help@ienso.com