

iZeroTM box

Quick Installation Guide



LPR camera

iZero BOX is a camera with built-in OCR for license plate recognition, distinguished by its elegant design. The product is ideal for access control in single-lane entry points where vehicles pass at low speed.**

Part number

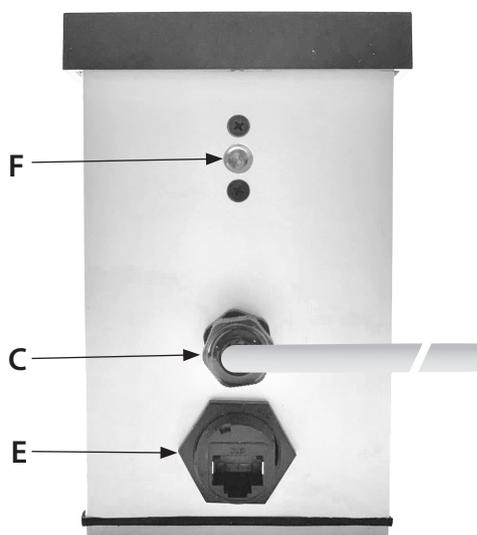
B

Box camera
frontal view



B

Box camera
rear view



A = Mounting Arm for Camera Box

B = Camera Box

C = Power cable output, input and output with a length of 50 cm

D = Locking butterfly for the arm orientation system

E = Ethernet LAN IP68 input. The male connector is provided with a 50 cm length.

F = Mounting hole for the arm

G = Component of the camera orientation adjustment mechanism

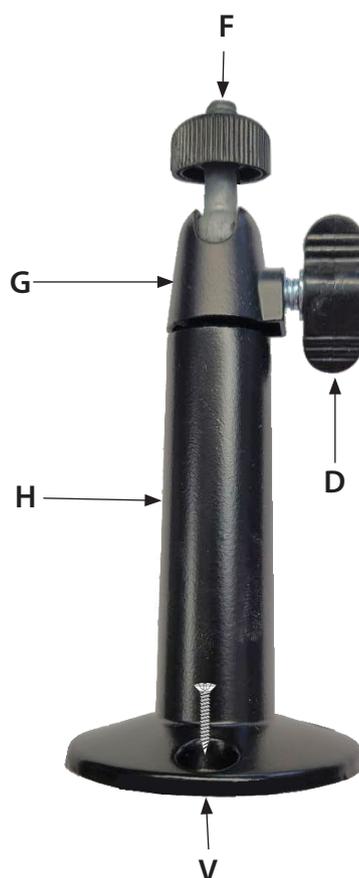
H = Mounting Bracket

V = Screw holes for mounting the bracket

A

Mounting Arm

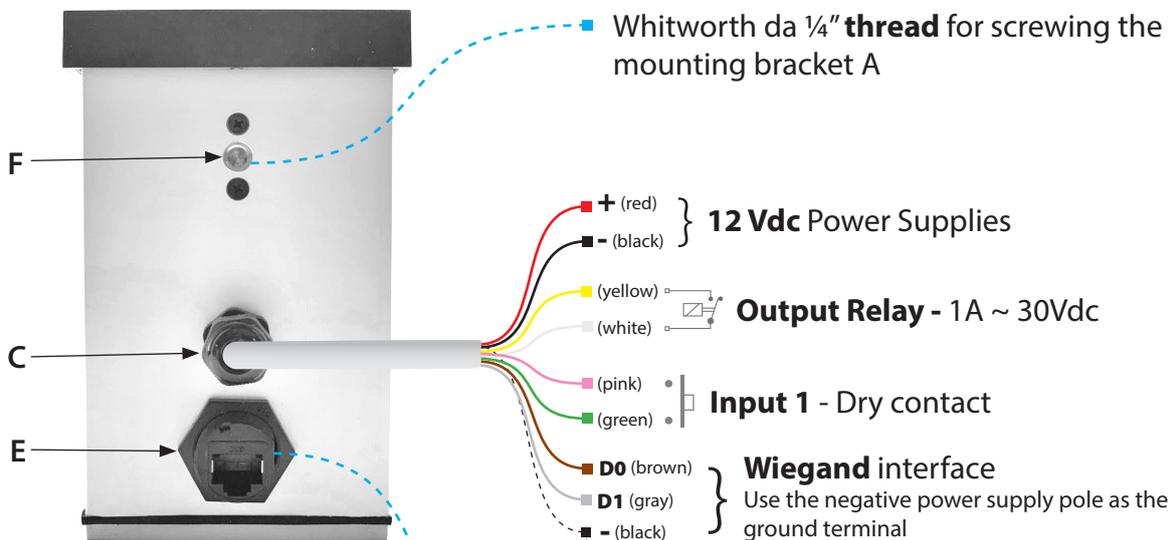
Whitworth 1/4" thread



Connection cables

C

FULL
version



POE
802.3AF

Cable C, 50 cm in length, is provided pre-assembled.

Ethernet LAN Port - The camera also supports power supply via standard 802.3af PoE. The Ethernet LAN connector has an IP68 protection rating. The camera is supplied with a 50 cm male cable.

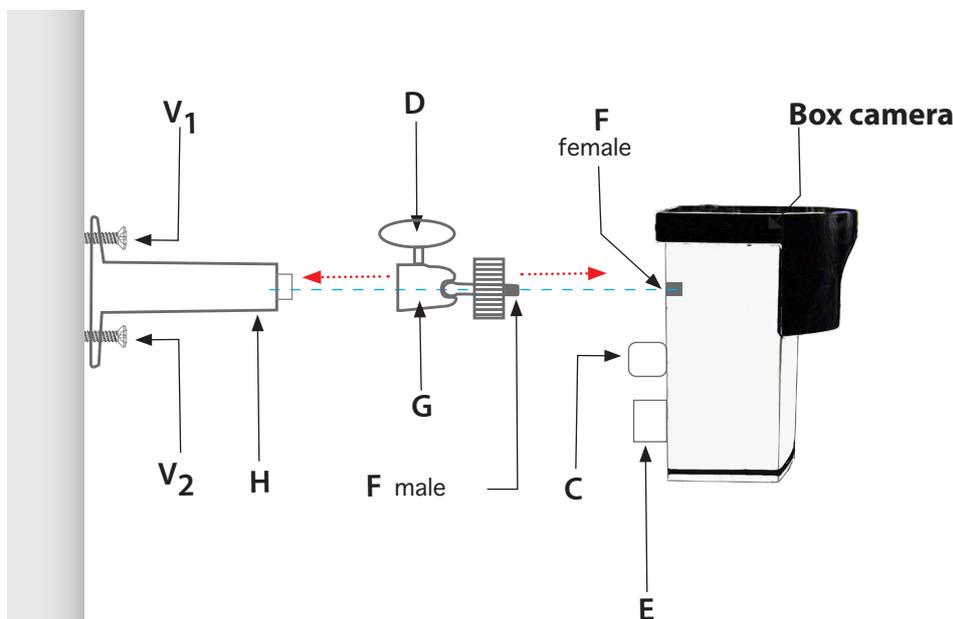
1 MOUNTING

Before connecting and positioning the camera, it is recommended to firmly secure the bracket (A) directly to the support, whether it is a pole or a wall.

Once the bracket is secured, completely loosen the butterfly screw (D) to separate element (G) from the remaining part (H) of the bracket (A). Screw element (G) onto the camera (B) until it reaches the end of the thread, then tighten the toothed wheel against the body of the camera (B).

At this point, reinsert element (G) into the remaining part (H) of the bracket and position the camera in the desired direction, securing its position using the position-locking butterfly screw (D).

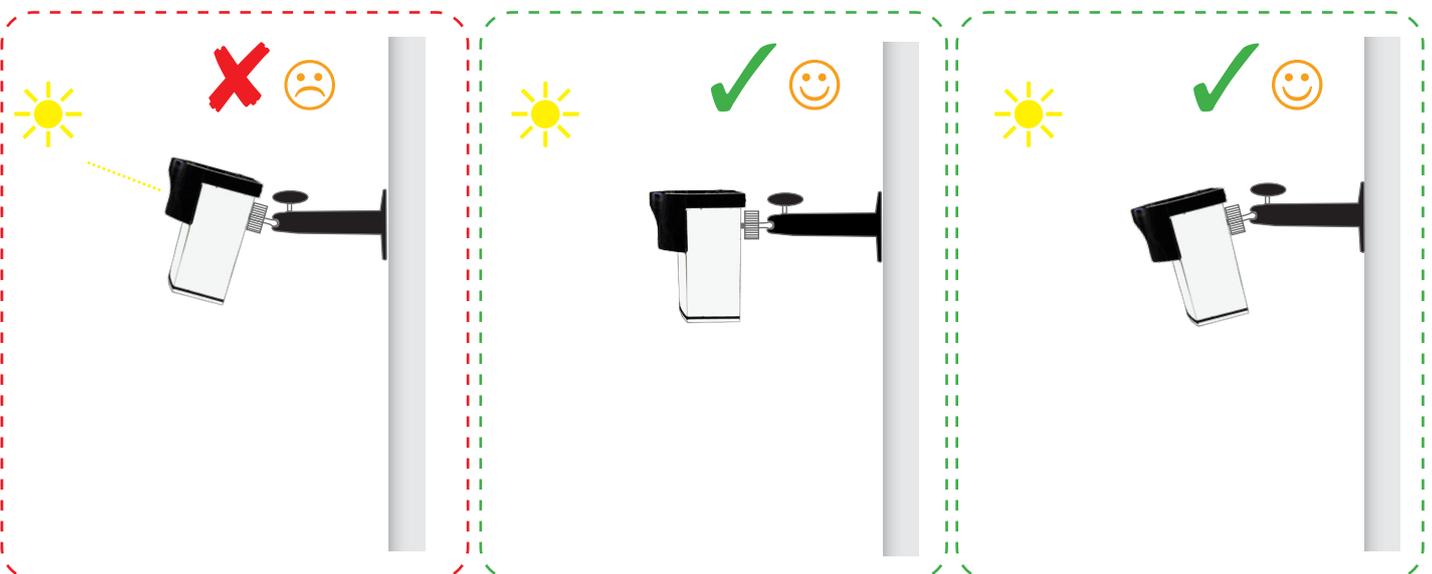
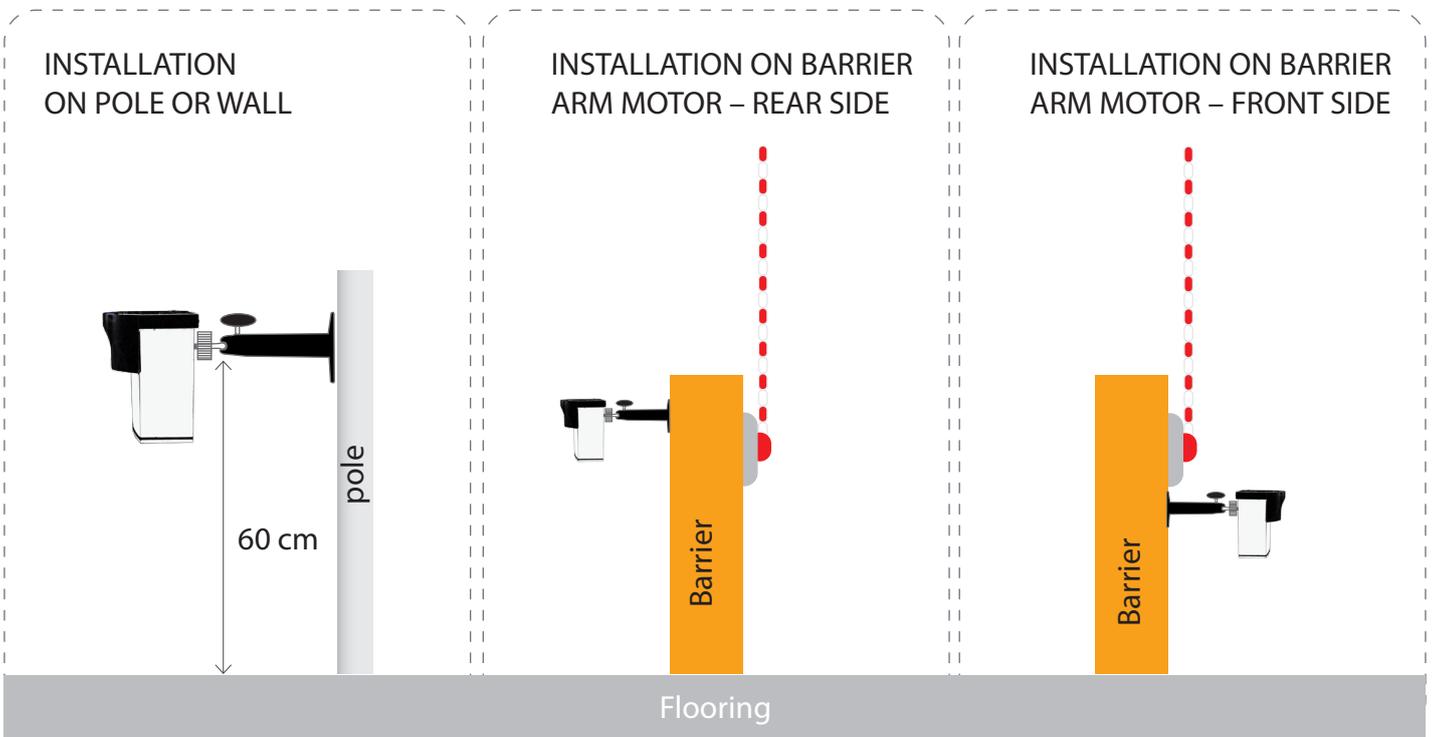
Once the Box camera (B) is screwed and locked onto the bracket (A), proceed to orient it towards the target (the vehicle's license plate) by adjusting the butterfly screw (D) and the ball joint orientation mechanism. Once the camera is properly oriented, proceed with connecting the cables.



- C = Power cable output, input and output.**
- D = Locking butterfly of the camera orientation system.**
- E = Ethernet LAN input, IP68.**
- F = Bracket fixing screws.**
- G = Camera orientation adjustment mechanism.**
- H = Mounting bracket.**
- V = Holes for bracket fixing screws.**

2 INSTALLATION

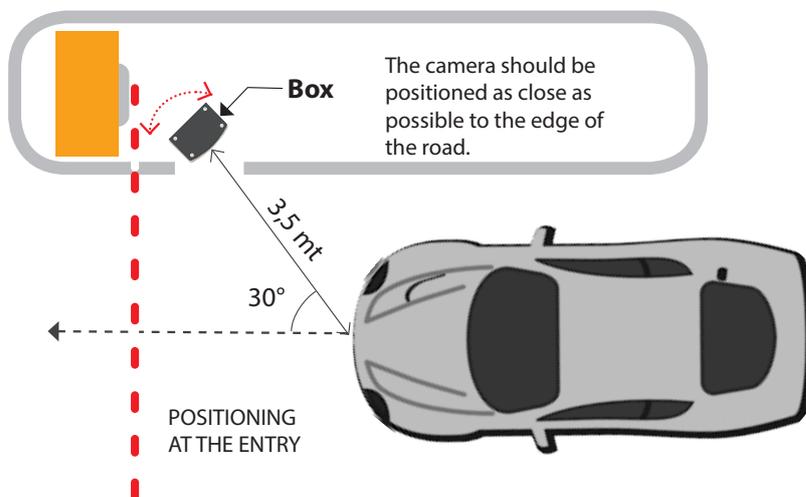
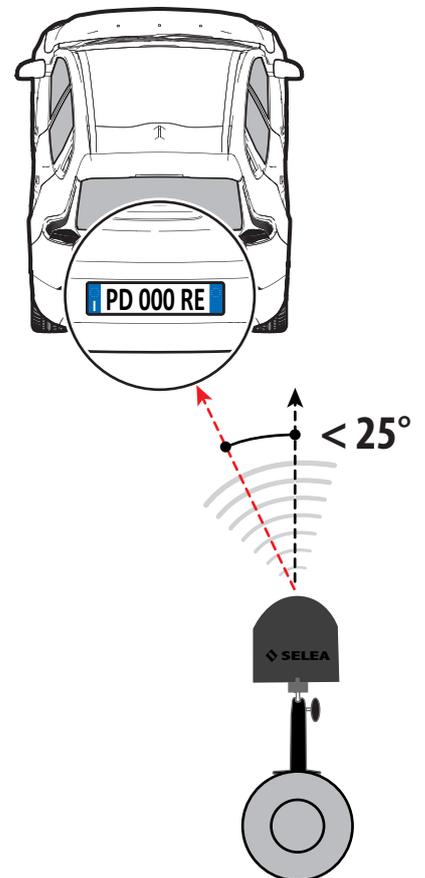
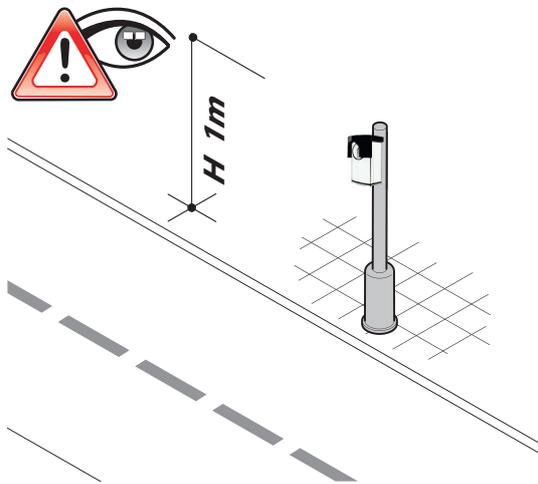
There are two most common installation types for the iZERO Box: on a pole or directly on the barrier's drive motor. In other cases—especially when operating gates—it is also common to install the camera on a wall. Regardless of the installation type, it is recommended to mount the camera at a height below one meter, ensuring that barriers, gates, or other objects do not obstruct the camera's field of view toward the vehicle's license plate. In other words, the visual path between the camera and the license plate must be completely clear of any objects that could interfere with plate recognition.



3 POSITIONING

POSITIONING

Once the iZero Box camera and its bracket are connected and secured, before permanently tightening the butterfly screw (D), the camera must be oriented toward the center of the lane, where it will capture the license plate of the approaching vehicle. It is therefore recommended not to exceed the angles shown in the diagram.



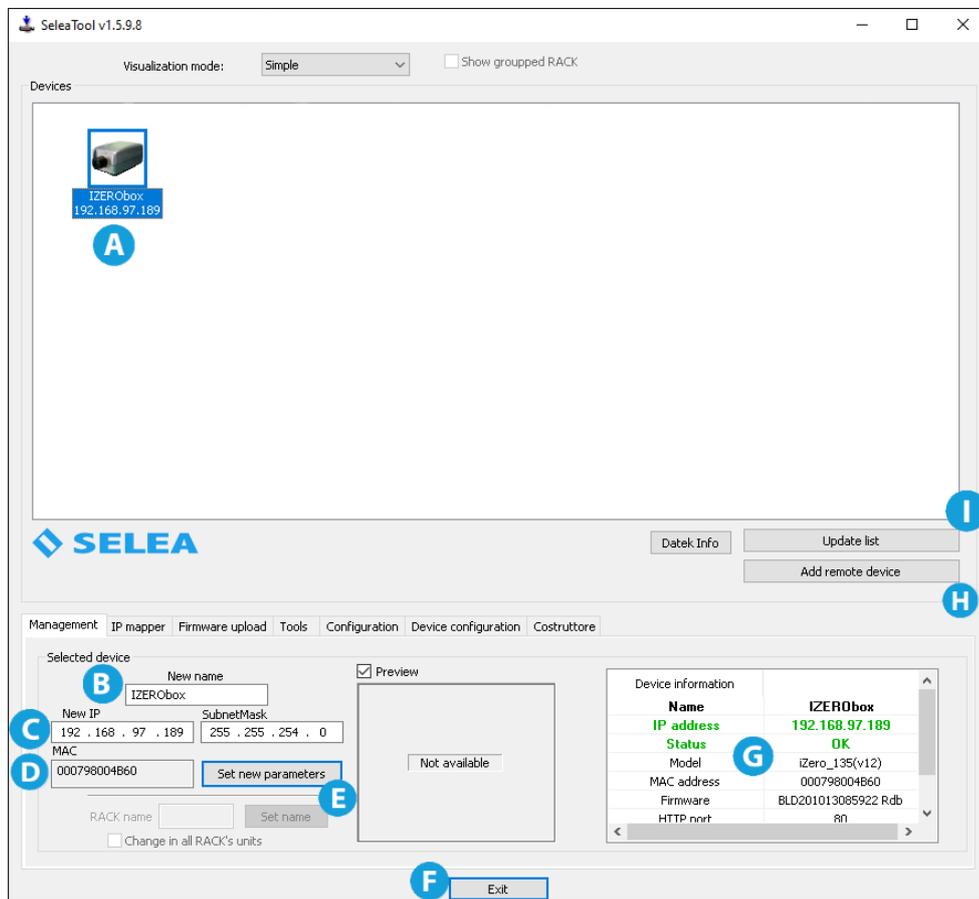
FIRST START-UP

In order to access the **HTTP** screen of the camera, make sure that the computer used is in the same **IP** class of the camera (**default 192.168.0.1** without access credentials). Any updated standard browser may be used. Before connecting and switching on the camera, make sure that the **iZero** default **IP** is not conflicting with other network devices (router, server, NAS, etc.) with the same **IP** address.

If your **IP** class is not compatible with the **iZero** default class, you can reach the camera with the **SeleaTools** software, available for download at the following link: https://dl.selea.com/download/9ekk/file/SeleaTool_1.6.0.2.exe. The camera will be searched by **MAC address**, and by highlighting it in the software it will be possible to assign to it a free **IP** from your network. When the firmware is restarted, it will be possible to access the camera using the Internet browser and continue the product customisation procedure.

Click "**Set new parameters**" to assign the new **IP** address to **iZero**, which at the end of the restart procedure will be shown in **SeleaTool** with a green border.

SeleaTool can also be used to scan the network for free **IP** addresses, to know the **IP** address of your computer, to update the firmware of **Selea** products, and much more. The user manual with full instructions for use is also available online.



- A** Window showing all the cameras of the network in which the software is installed.
- B** Window showing the model of the camera selected for **IP** address assigning purposes.
- C** Field used to assign the new **IP** address.
- D** Shows the own **MAC** address of the selected camera.
- E** Key used to confirm and therefore edit the new **IP** address that will be assigned to the camera.
- F** Key used to exit the software.
- G** General information regarding the selected camera.
- H** Key used to manually add a camera by entering its **IP** address and other network data.
- I** Key used to update the list of network cameras after the addition of a new device.

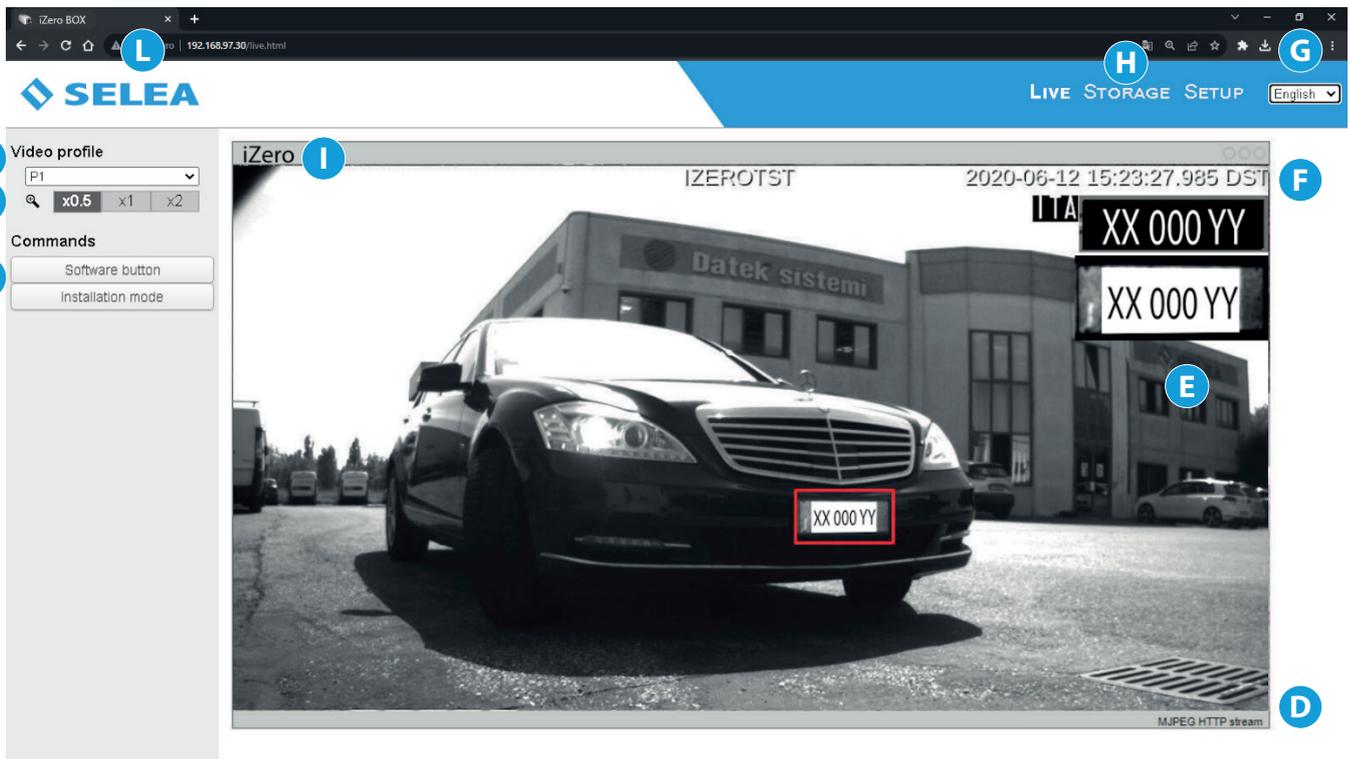
ACCESSING THE CAMERA FROM THE WEB

By entering the **IP** address assigned to the camera in the preferred browser, it is possible to access the home page (**Live page**) of **iZero**, which will immediately show the image currently being captured by the same. Google Chrome offers the best stability results.

The new host has been fully redesigned to make the product more intuitive. Menus are sorted by topics based on the functions and the parameters most used during configuration.

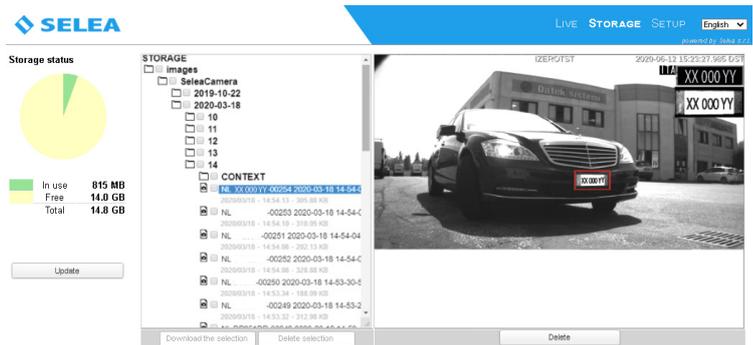
However, in order to make the most of the product, we recommend that you fully read this manual, which provides a clear and practical explanation of how thanks to the flexibility of its host, **iZero** can be suited to several installation solutions.

LIVE MENU

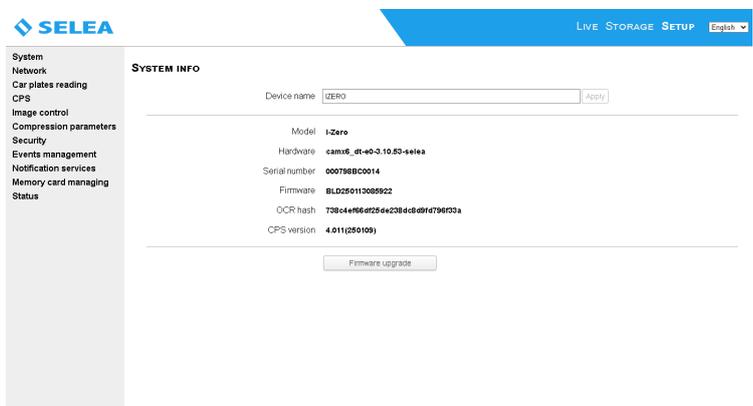


- A** This button will display a drop-down menu for the selection of the video profile; three alternatives are available, based on the camera being used: **Number plate sensor (profile 1)** - **Number plate sensor (profile 2)** - **Context sensor (profile 3)**. The selected alternative will be shown in the **live-view** screen.
- B** The three buttons are used to set the size of the **live-view** area.
- C** Quick selection button: the **"installation mode"** activates the software assistant in **iZero**, to help you with positioning adjustment and the focusing of the optical assembly. To leave this function, reload the camera **IP** screen.
- D** It indicates the video **codec** being used by the computer to decompress the video stream.
- E** **Live-view** screen.
- F** Current date and time.
- G** Button that allows the user to **log out** and return to the initial login page
- H** The three buttons are the main menu controls always visible in all the software screens.

MEMORY menu: it can be used to access information stored in the **MicroSD** memory inside **iZero**: in specific, it makes it possible to display and upload/download snapshots and lists. It is possible to upload to the memory TXT files containing number plate lists (Windows notepad can be used as editor). In this case, it is important to make sure that each number plate has its own row and that no comments or other text are included.



SETUP menu: it can be used to customise many aspects of **iZero** so that it meets your needs as much as possible. As this product has an extremely high number of functions, the amount of items in the setup section is obviously very high, although not all of them will be required. In order to help you to remember their positions inside the setup section, the parameters have been sorted into pages and sub-pages: on the left of the screen are a number of pages, named based on the context in which the parameter is used. When a page is clicked, a drop-down window opens listing the sub-pages relevant for the topic of the page.



- I** This is the name assigned to the camera.
- L** **IP** address entered in the browser to connect to the camera.

DECLARATION OF CONFORMITY



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SELEA Srl with headquarters in
Via Aldo Moro 69 - 46019 Cicognara di Viadana (MN) - Italy

DECLARES

under its own responsibility that its number plate reading products of the Targa,iZero series
comply with the requirements of the following directives:

1) Directive on electromagnetic compatibility 2014/30/UE

- EN 55032 Devices for multimedia technology Features of radio interference
- EN 55035 Devices for multimedia technology Characteristics of immunity.
- EN 61000 Electromagnetic Compatibility (harmonics emitted, flicker, electrostatic discharge, Immunity to radiated radio frequencies, immunity to fast transients, surge tests, conducted interference, Immunity to magnetic fields, immunity to fast interruptions and voltage variations)

2) Low voltage directive 2014/35/EU

- EN 62368-1:2018 / EN 62368-1:2020 (Rev. 3) Inform. technology equip., Equipment security.
- EN 62471:2008 Photobiological Safety (Risk-free group).
- EN 60529 Degree of protection provided by enclosures: (Serie iZero: IP 66 - Serie Targa: IP68).
- EN 62262 Resistance to Impact (Only for series Targa: IK10)
- EN 60068 Resistance in severe environmental conditions (dry heat, wet heat, cold).
- EN 60721 Resistance to Sinusoidal vibrations (Class 3M3).

3) European 2011/65/EU and 2015/863/EU on the limitation to the use of dangerous substances
within electrical and electronic equipment according to the quantities described

- Lead Pb content: < 0.1%;
- Cadmium Cd content: < 0.01%;
- Polybrominated Biphenyl PBB Content <0.1%;
- Mercury Hg content: < 0.1%;
- Chromium Cr content: < 0.1%;
- Polybrominated Diphenyl Ethers PBDE content <0.1%;
- Bis(2Ethylhexyl) Phtalate DEHP content <0.1%;
- Benzil Buthyl Phtalate BBP content <0.1%;
- Dibutyl Phtalate DBP content <0.1%;
- Diisobutyl Phtalate DBP content <0.1%;

The products of the families listed above are therefore compliant with the RoHS directives

Cicognara, March 10 - 2025

Manager

Renato Grassi (R&D director)



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Selea limited warranty declaration

The warranty shall not apply for faults caused by:

- Unauthorised modification or improper use.
- Improper or inadequate product maintenance or wiring.
- Damage caused by external events such as lightning, electric line overvoltage and telephone line fault.
- Fall or improper transport procedures
- Use of inappropriate components or accessories, or components not supplied by Selea.
- Use outside the limits of the environmental conditions of use of the product.
- Improper installation or maintenance.

Selea guarantees the product, the accessories and the supplies against manufacturing defects for a period of one year from the date of purchase (the date of the sale document shall apply). In case of fault notification received by **Selea** within the terms of the warranty, the company shall undertake to repair or replace the defective products. Replacement products may be new or as new.

Selea does not guarantee uninterrupted product operation. Should **Selea** be unable to replace or repair the product, the cost of the product at distribution level shall be reimbursed.

Selea products may contain refurbished parts with performances similar to new components.

Selea shall not issue any expressed warranty, either in writing or verbal. Notwithstanding the provisions of current regulations, implicit sale, quality and specific use suitability guarantees are limited to the duration of this warranty.

Notwithstanding the provisions of current local regulations, the remedies contemplated by this warranty declaration are the only actions for the safeguard of the customer. Notwithstanding what expressly indicated above, and within the provisions of the law, **Selea** rejects all personal responsibility or all responsibility of its suppliers in connection with contract or tort (including negligence) for consequential, indirect, incidental, special or punitive damages of any nature whatsoever, or for loss of income or profit, loss of information or data, or other financial loss resulting or in connection with the sale, installation, maintenance, use, performance, failure or interruption of operation of its products. This shall also apply when **Selea** or the distributor are informed of the possibility of such damage. The responsibility of the company shall be limited to the repair or replacement of the product, or the reimbursement of the price paid, at the full discretion of **Selea**.



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www.selea.com



WHERE TO PURCHASE

We rely on distributors with a nationwide presence, with whom we establish project protection policies and provide direct support.



SUPPORT

TECHNICAL SUPPORT IS AVAILABLE FOR BOTH PRE-SALES AND IMMEDIATE POST-SALES ASSISTANCE.