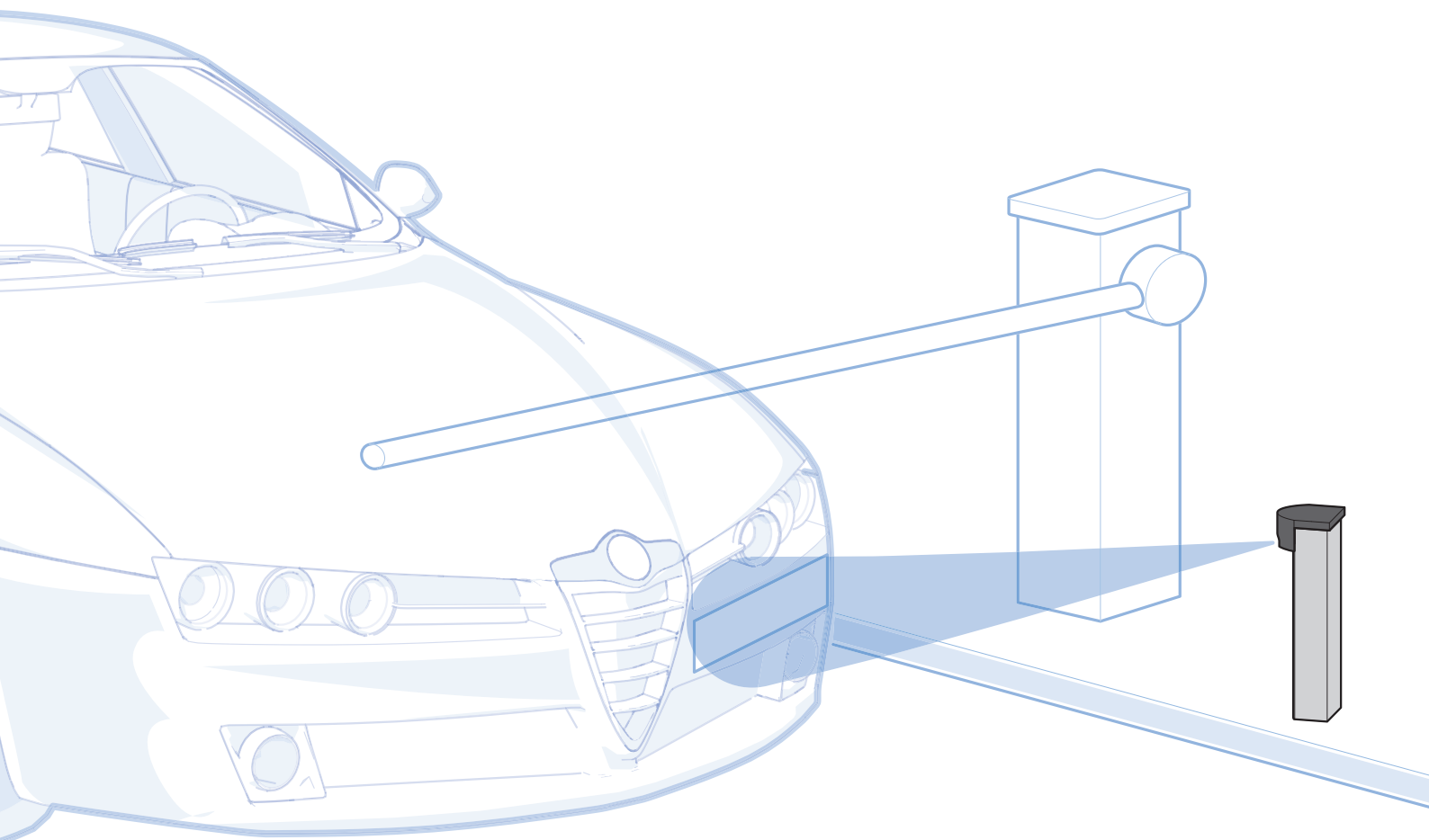




iZero 3

User Manual

This manual contains the instructions for the installation and use of:

Selea iZero 3 in all its possible variations.

This manual is only included for information purposes and its content may be changed without prior notice.

In case of disputes, the original language of the manual is Italian. **Selea** is not liable for any translation/interpretation errors.

Selea pays the utmost maximum attention to the information provided. However, no guarantee can be given on the content of this manual. The company also specifically rejects any guarantees regarding the saleability of the product, or its suitability for specific purposes.

Copyrights

All rights reserved. No part of this manual may be reproduced, forwarded or copied in any shape or form without the specific written consent of Selea.

Selea and **iZero 3** are registered trademarks owned by **Selea**.

Microsoft, Windows, Hyperterminal, and Explorer are registered trademarks owned by Microsoft Corporation.

Java and all Java based trademarks are registered trademarks owned by Sun microsystem.

All other product trademarks mentioned in the documentation are only used for identification purposes, and are the property of the respective owners.

Legal considerations

Video surveillance may be forbidden by local laws. Before carrying out video surveillance activities, check the legal requirements for the country of installation of the camera.

WARNINGS

INTRODUCTION

Thank you for choosing our product.

Our company specialises in the design, development and production of vehicle number plate recognition cameras and software.

The camera discussed in this manual is a very sophisticated product, carefully designed and built to ensure the best performance levels.

This manual contains detailed instructions for the installation and the use of the product.

To ensure the best possible results, CAREFULLY READ THIS MANUAL BEFORE USING THE PRODUCT and store it with care in a safe place for future consultation.

NOTE: Some images in this document are only included for indicative purposes and may not provide a faithful representation of the actual product components.

WARNINGS FOR THE INSTALLER AND THE USER

This manual is an integral part of the product. It must be read in full before installing or using the product. Make sure that it is always with the product. If the product is transferred to a new location or sold/transferred to a new owner, always make sure that it is accompanied by this manual, so that it can be read by the new user, installer or any other authorised individuals.

Installation, use, cleaning or maintenance activities not consistent with the instructions of this manual are considered as improper and could cause damage, injury or even death, and will immediately make the warranty null and void, relieving **Selea** of all responsibility.



Extraordinary maintenance activities must **only be carried out by qualified personnel, authorised by the Distributor or Manufacturer.**



During the whole life of the product, product safety or automatic adjustment components may only be modified by the manufacturer or the supplier.



In case of camera malfunctioning, or functional or structural fault, disconnect the camera from the power supply and contact an approved **technical support centre authorised by the Distributor or Manufacturer.** Never attempt to repair the camera yourself. In case of repairs, always ask for original spare parts to be used, to prevent further problems and to ensure compliance with the terms of the warranty.



All tampering or any replacements not carried out by qualified personnel may be dangerous for the user and will immediately relieve the manufacturer from all civil or criminal responsibility.



When received, the product must be checked for integrity as vibrations and shock during transport can cause the loosening of some components. Check the camera enclosure and the product components for any damage. In case of damage, inform the installer and/or our technical support service.



This product is suitable for use by children 8 years old or over, by people with impaired physical, sensory or mental abilities, or by people without experience or knowledge, provided that they are appropriately supervised, or that they have been correctly trained on the safe use of the product, and are aware of the connected hazards.



The packaging material is potentially dangerous and therefore must be kept away from the reach of children or pets, and disposed of in accordance with local regulations.



In case of enclosure or front glass damage, immediately switch off the camera and send it to a **technical support centre authorised by the Manufacturer or Dealer** for the necessary repairs.



During installation and normal use do not place any objects on the camera, as excessive weight could impair performance.

-  During the installation make sure to handle the product with care, avoiding collision with nearby objects.
-  During the installation the operator must wear all the necessary personal protective equipment as provided for by local legislation. If working in a construction site, it must be ensured that the operator is made aware of all the safety requirements by the appropriate safety personnel.
-  When connecting the product to the electricity network, make sure that all the safety measures are implemented, or seek the assistance of a qualified electrician.
-  We recommend the application of appropriate safety measures to reduce the risk of electric shock and lightning strikes. Carefully read all the instructions in this document.
-  Place or install the product on a stable base and in a protected area, so that it is not possible to step on or trip over power cables, LAN cables or any other connection to the camera.
-  It is recommended that an easily accessible disconnect switch is installed upstream the camera, in accordance with the legislation in force in the country of installation. This disconnect switch must have contact separation for all the poles, to ensure complete disconnection in case of overvoltage. Correct connection to the earth is also a mandatory requirement. Under no circumstances should the earth cable be interrupted by the safety switch.
-  For the connection to the power supply, use a double insulation flexible 12V bipolar cable with a minimum section of 1 mm². Alternatively, the camera can also be powered via an Ethernet cable connected to a PoE+ router.
-  Product for outdoor installations. Comply with the temperature range indicated in the manual. Do not touch the ends of connectors and mains cables. All damaged or worn cables must be replaced. In case of product malfunction, to resolve the problem, contact exclusively qualified personnel.
-  Do not install the product during a storm, in high humidity conditions, or when wet.
-  Do not touch the ends of connectors and mains cables. All damaged or worn cables must be replaced immediately.
-  The cables used to connect the camera must not consists of several joined cut lengths, but rather only one single length going from the product to the electric cabinet.
-  Never remove the camera optical assembly.
-  Before carrying out any maintenance or cleaning activities, disconnect the electric power supply.
-  During cleaning activities only use a damp cloth. Do not use solvents or abrasive and non-abrasive products that could damage surfaces or components.
-  If planning not to use the camera for an extended period of time, switch off the general power supply switch upstream the same.
-  **Warning!** The laboratory tests for the definition of the retinal risk level completed on the beam, carried out in compliance with IEC62471:2006 1st. Ed. and EN62471:2008, **show that the beam can be classed as belonging to the NO HAZARD Group**. It is however recommended to avoid looking directly at the illuminator when on. Exposure to infrared rays could cause serious eye damage, particularly for people wearing glasses.

The company rejects all responsibility for any direct or indirect damage to people, pets or property due to failure to follow all the instructions of this manual, particularly in connection with installation, use and maintenance precautions.

PRODUCT DISPOSAL

Pursuant to art. 13 of Italian Legislative Decree no. 49 of 2014 ("Implementation of the WEEE 2012/19/EU directive on Waste Electrical and Electronic Equipment")



The crossed bin symbol indicates that the product was put on the market after 13 August 2005, and that at the end of its useful life it should be disposed separately from other waste.

The product must also be made unusable by removing the power supply cable.

At the end of its life this product must be disposed of with care, in order to reduce its impact on the environment and improve efficiency in the use of resources, and implementing the "polluter pays", prevention, preparation for reuse, recycling and recovery principles. Illegal dumping or incorrect disposal of the product will result in the application of fines in accordance with current laws.

Information on disposal in Italy

In Italy, WEEE must be handed over:

- to Waste Collection Sites
- to the dealer from where a new replacement item is purchased, who is legally required to take the old product free of charge (one item collected for each item sold);

Information on disposal in EU countries

The WEEE EU regulation has been incorporated in the various countries in different ways. Therefore, you should contact your local authorities or dealer in order to ascertain the correct disposal method.



RESPECT FOR THE ENVIRONMENT

In developing its products, **Selea** dedicates a lot of resources to environmental aspects. All our products pursue the objectives set in the environmental management system policy developed by the company in compliance with current laws.

This product does not contain dangerous materials, like **CFC**, **HCFC** or **asbestos**.

The packaging is made of **RECYCLABLE MATERIALS**.



The individual elements must be disposed of in accordance with the regulations of the country of use of the product.

For the identification of the materials refer to the following table:

Description	Material	
Pallet	Wood (FOR)	
Packaging box	Corrugated cardboard (PAP)	
Protection bag	High density polyethylene (PE-HD)	
Adhesive pads	Low density polyethylene (PE-LD)	
Bubble wrap		

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PRODUCT PRESENTATION

PRODUCT DESCRIPTION

iZero 3 is a number plate reading column that contains an **ANPR (Automatic Number Plate Recognition)** camera with built-in **OCR**. The refined design also makes it ideal for prestigious structures such as hotels, holiday villages, villas, historic architecture. Easy to install, configure and integrate, in addition to an affordable price, **iZero 3** has high performance in terms of reading precision. **iZero 3** has serial interfaces for integration with the most well-known access control systems (Siemens, Honeywell, HID etc.).

iZero 3 is available in the following versions:

● = standard (built-in)

OCR built-in sensor FF = fixed focus	Column	Box
	6mm - (M12) FF	6mm - (M12)
Context sensor	●	●
MicroSD internal memory for backup and whitelisting	●	●
RS232-485 interface	●	●
Wiegand interface	●	●
OSDP (Siemens) interface	●	●
PoE supply	●	●
12 VDC supply	●	●

It includes a camera with infrared sensitive optical sensor and a **LED IR** illuminator that allow to take a clear photo of a car number plate in any ambient lighting conditions, both day and night, at a distance between **1.5** and **6 metres**. The camera has a **2.3 megapixel** Global Shutter CMOS number plate reading **OCR sensor** with a frame rate of **54 Fps**, B/W equipped with a **6 mm** fixed lens and an **M12** mount.

OCR algorithm integrated directly on the camera which can read the plates automatically (free flow) that is without the aid of external synchronism devices. It is important to remember that the reading of the characters of **Selea** cameras are not based, like other systems, on the fallacious motion detection system. Number plate reading is guaranteed even when the vehicle is completely stationary (0 Km/h = no motion detection).

iZero 3 is a fully IP device capable of connecting to the network through the built-in Ethernet interface. It supports TCP and RTP connection protocols and can compress to JPEG, MPEG4, H264 and H265 formats any video streams produced by the integrated sensor/s, or by an external analogue or IP source connected to **iZero 3**. The video streams, the configuration parameters and the data acquired by the camera can be accessed through the network using an HTTP browser, CPSExplorer QT, Selea video surveillance software programs, or third party software.

iZero 3 can manage an advanced and flexible set of events and actions using both internal software tools, such as number plate reading or Motion Detection HW, and I/O digital ports, which allow to install an intelligent video surveillance system that does not require additional processing units, therefore saving on wiring and auxiliary components.

The **MicroSD** board allows to have a memory card directly connected to the camera, and use it to store lists of known number plates for comparison with the captured ones, and therefore carry out independent activities based on the results of such comparisons (such as the opening of automatisms, etc.), or as a backup for possible temporary connectivity losses, by storing all the captured number plates until network channel functionality is re-established.

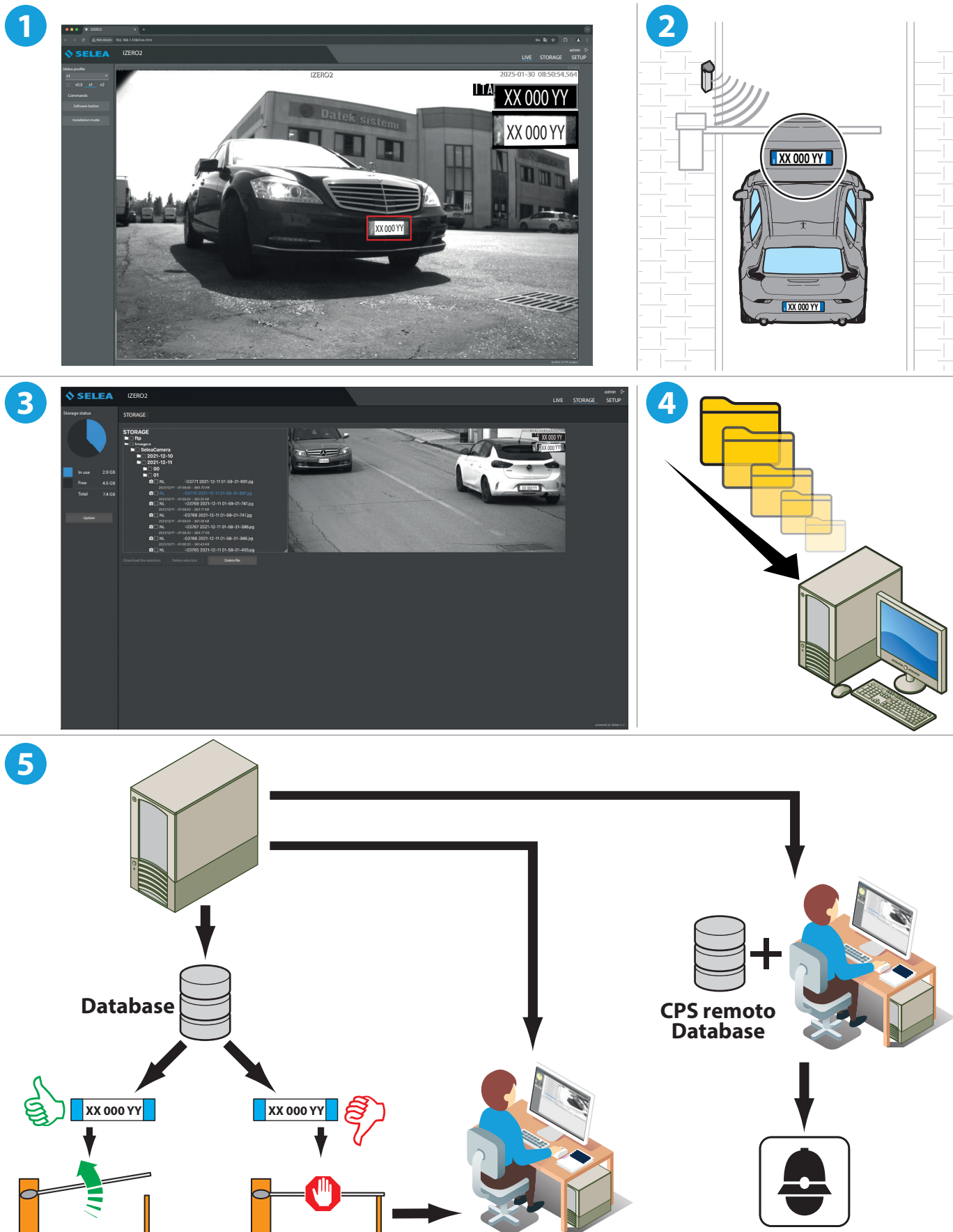
The access to all the camera data and configuration screens can be password protected using credentials issued by the administrator. It is also possible to implement a sophisticated encryption algorithm when transferring data, so that they may not be read by unauthorised clients.

iZero 3 ensures excellent protection of the privacy and all the information transferred by the camera.

The following pages offer a simple representation of some camera functions:

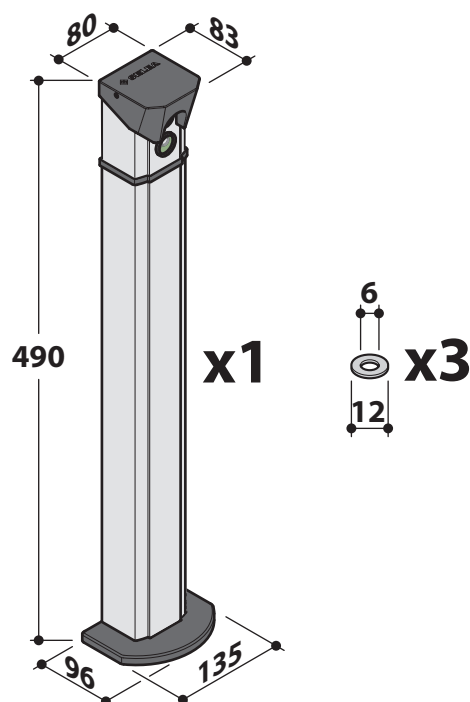
1. The screenshot gives a representation of the internal vision software through a browser window, showing a real-time **"LIVE"** image of the area covered by the camera.
2. When a vehicle goes through the area, the number plate is framed, captured and stored in the camera memory.
3. All the camera captures are available in the **"MEMORY"** section of the internal software. The data are stored in folders showing the acquisition date, split into sub-folders showing the 24 hour time bands.
4. The data can be forwarded to a remote server.
5. Depending on the reasons for the captures, the server combining the data with those sent may behave differently.

For example, if the camera is installed to regulate car park access, when a number plate is recognised and accepted by the server, the vehicle will be allowed to enter or exit. Otherwise, permission to go through the monitored area will be denied. The data may also be controlled in real time by an operator, who will then be able to grant or deny access. Another possible use is the monitoring of the captured number plates by control authorities, who will be able to connect to remote databases (Transport or Home Offices) to ascertain breaches or irregularities.



INSTALLATION

PACKAGE CONTENT



The package includes a camera and three washers to be used for ground mounting.

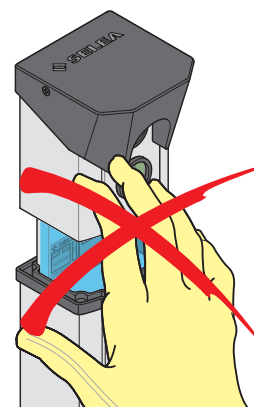
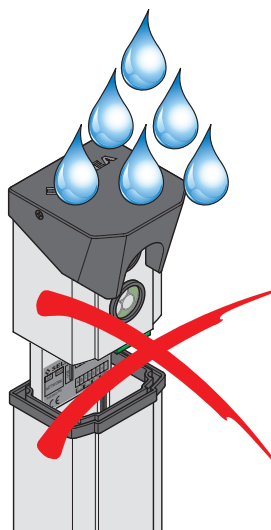
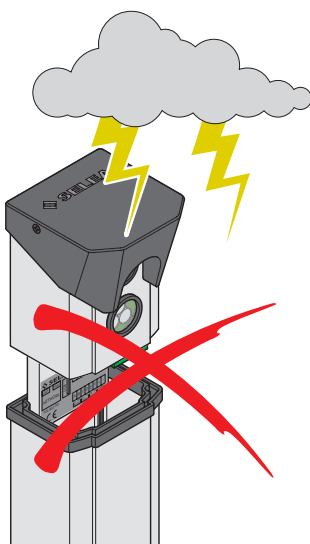
WARNINGS FOR THE INSTALLER

When connecting the product to the electricity network, make sure that all the safety measures are implemented, or seek the assistance of a qualified electrician.

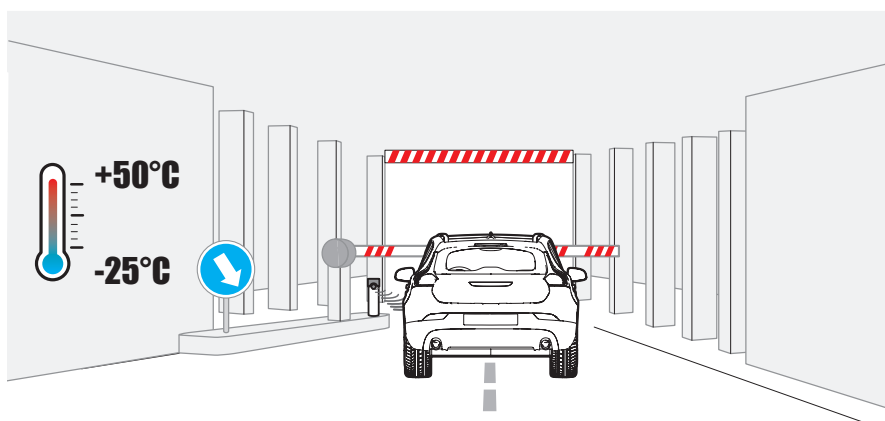
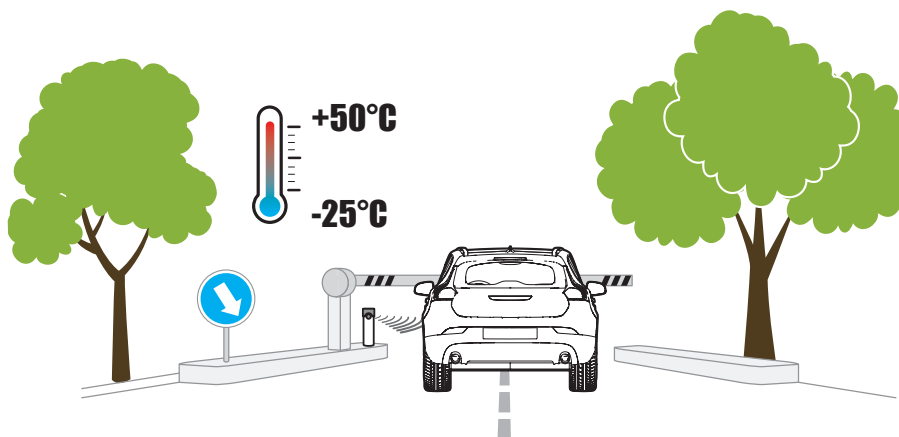


Do not install the product:

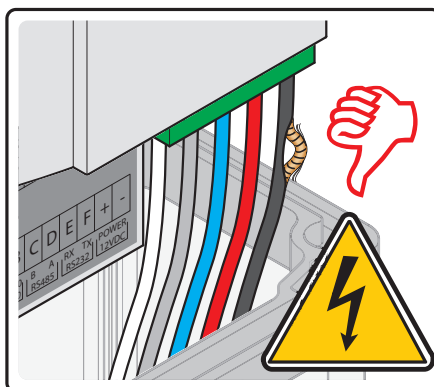
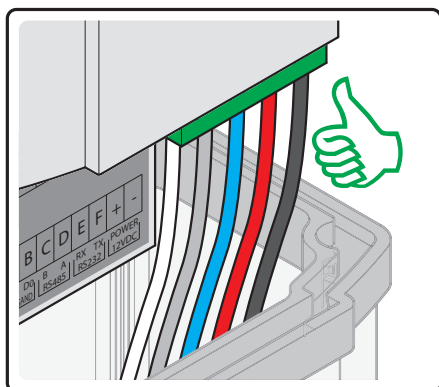
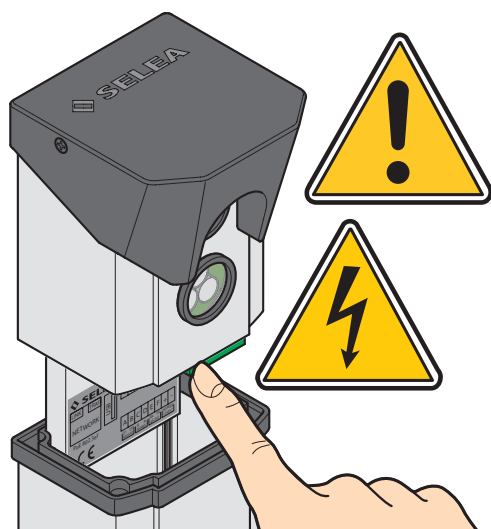
1. during a storm
2. in high humidity conditions
3. when wet.



The camera is suitable for both outdoor and indoor installation.



Do not touch the ends of connectors and mains cables.



All damaged or worn cables must be replaced immediately.

In case of fault, see the troubleshooting section.

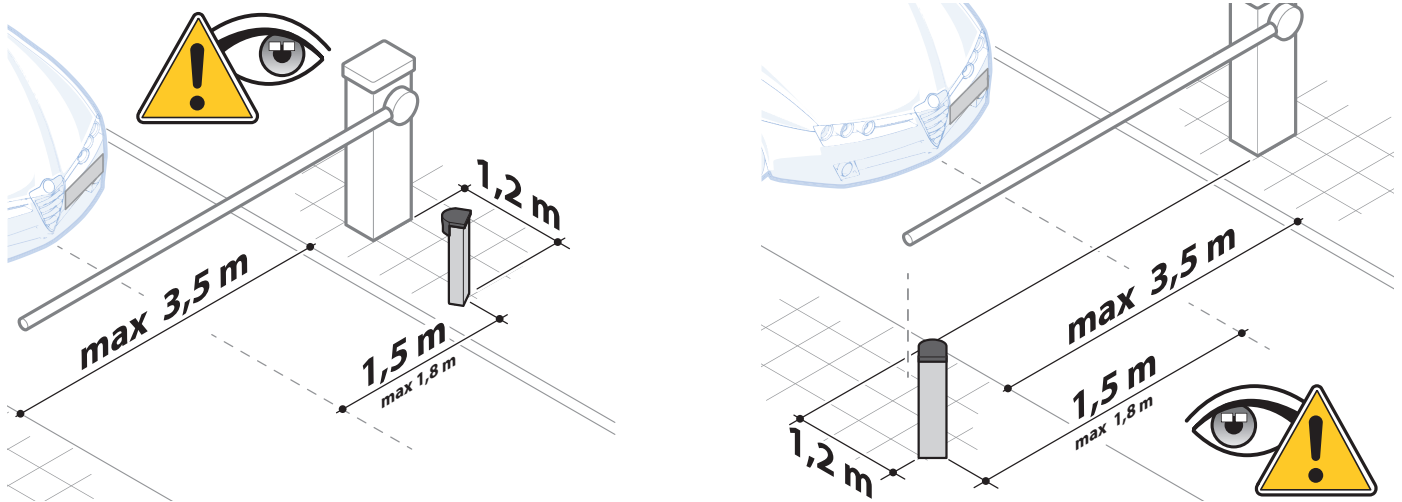
For technical support contact qualified personnel and/or **Selea** directly.

CAMERA INSTALLATION AND ADJUSTMENT

iZero 3 must be installed on a fixed surface. In order to make the installation easier, a "support" function may be activated from the camera menu, which will help to keep within the set camera tilt adjustment and character height.

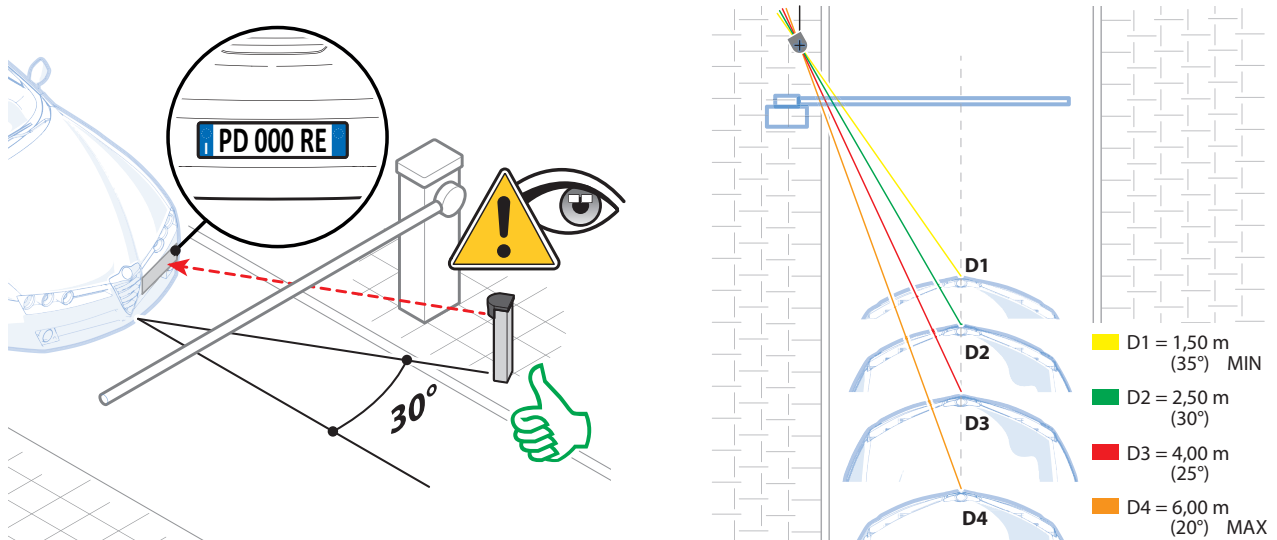
The camera does not need focus adjustment.

Installation side

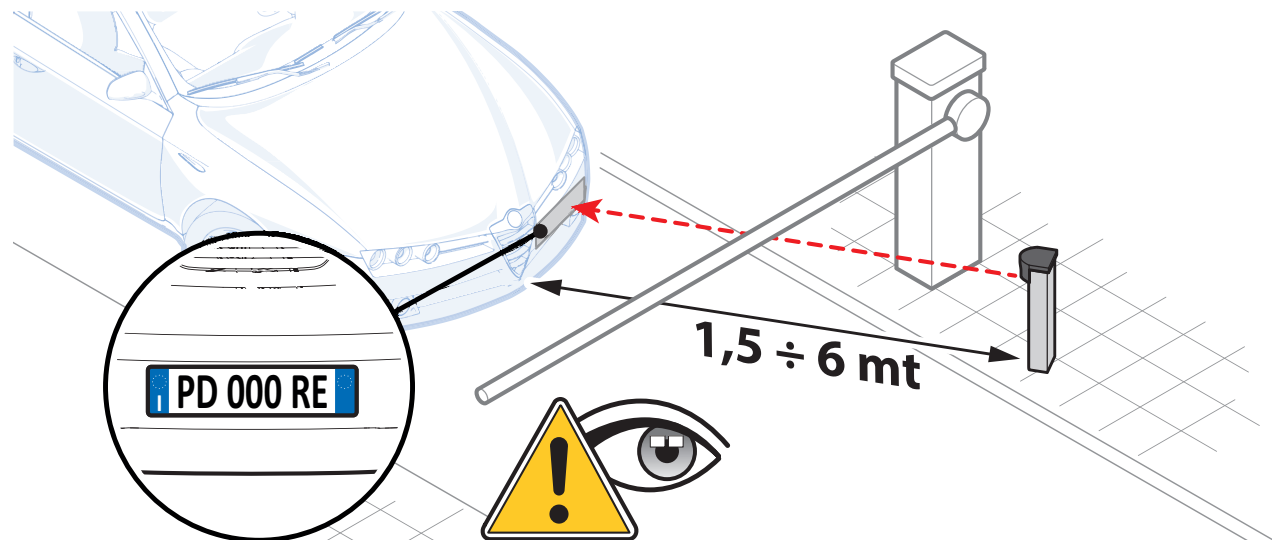


Vertical capture angle

Also make sure that the number plates are not captured at angles exceeding:



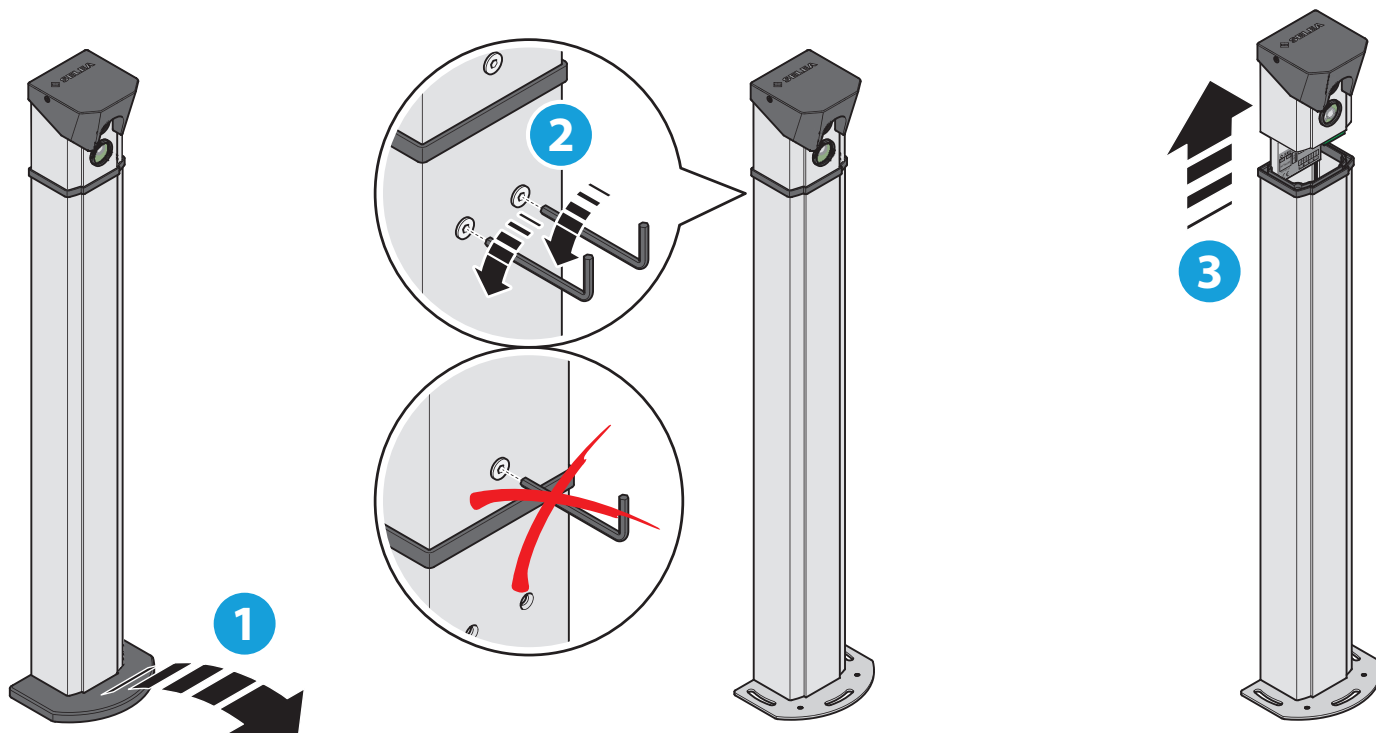
Detection distance



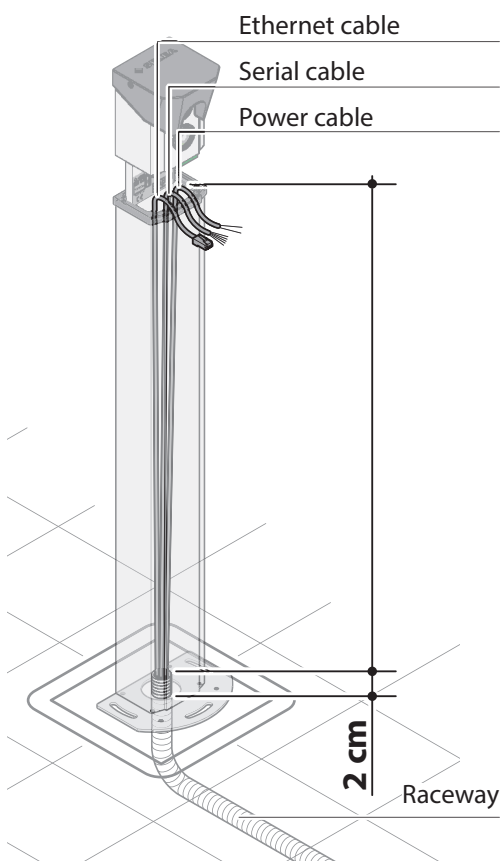
Make sure that the selected installation position actually allows to capture the information from transiting vehicles whilst keeping within the optimum values recommended by **Selea**. We recommended that preliminary capture tests are carried out from the selected position.

Opening the camera

Remove the cover of the fixing bracket, unscrew the two rear screws and lift the front part of the column.



Pre-installation



The first operation to do is laying the cables (power supply, serial communication cable, relay and Ethernet network cable) necessary for the operation and integration with the rest of the system.

You must have prepared a flat pit and, inside, an underground raceway. The raceway must protrude no more than 2 cm from the floor.

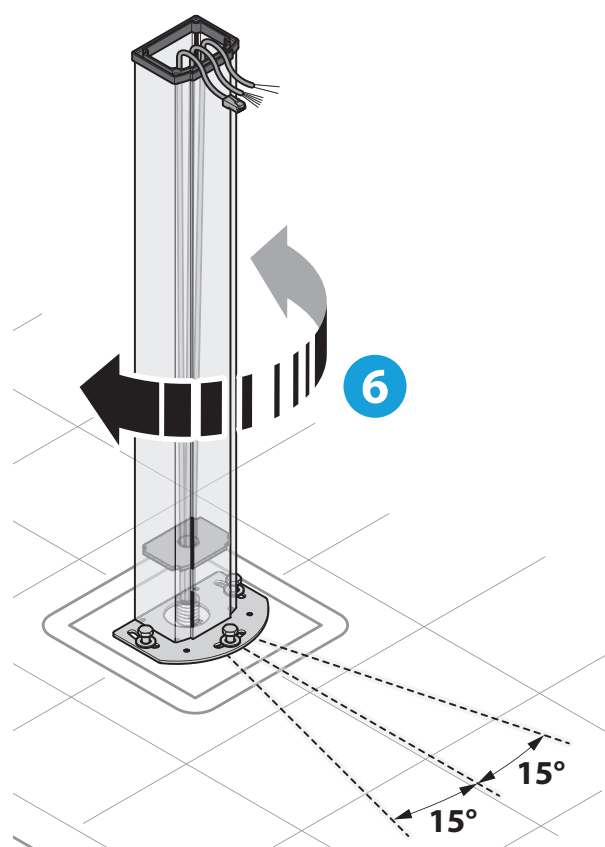
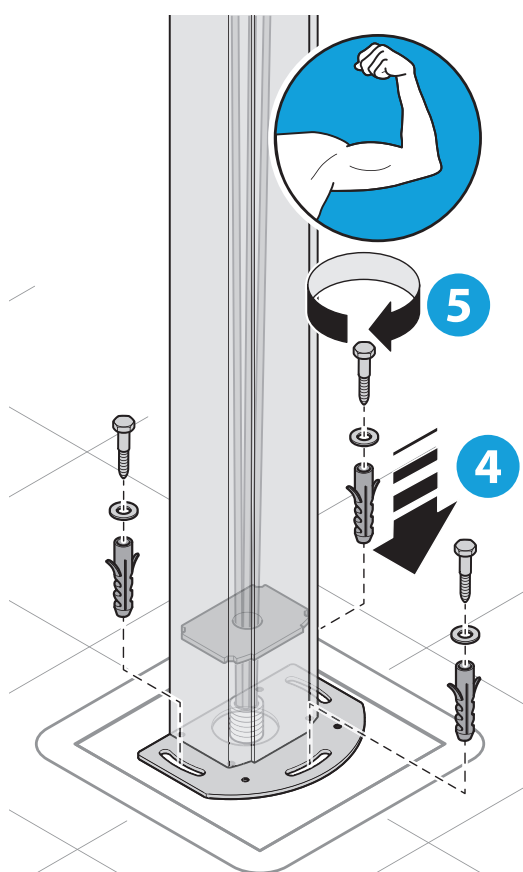
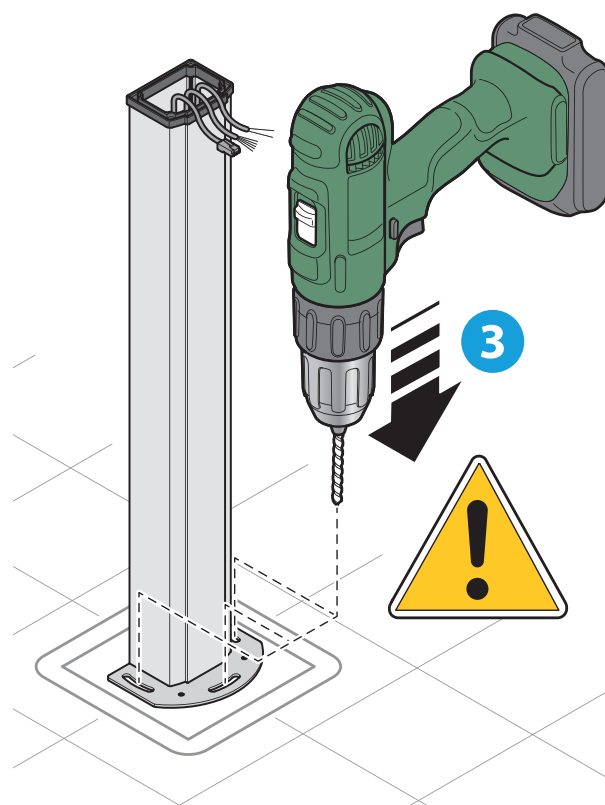
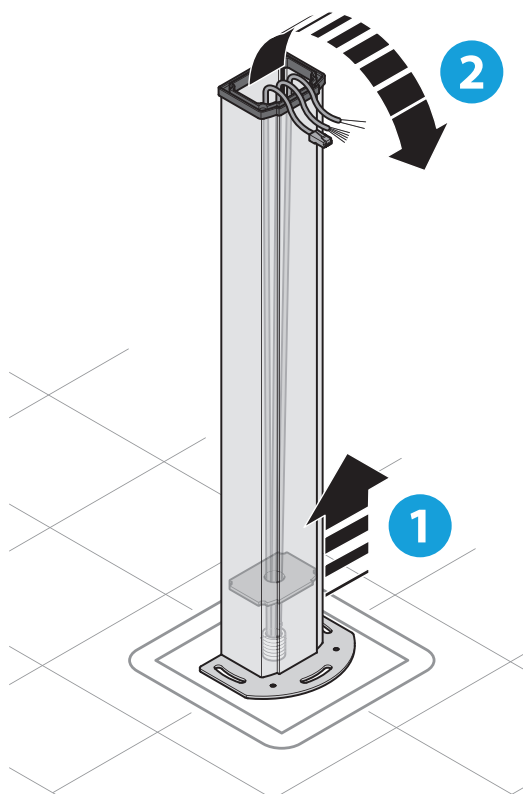
The cables that come out of the raceway must have a length equal to the height of the column, therefore at least 60 cm long.

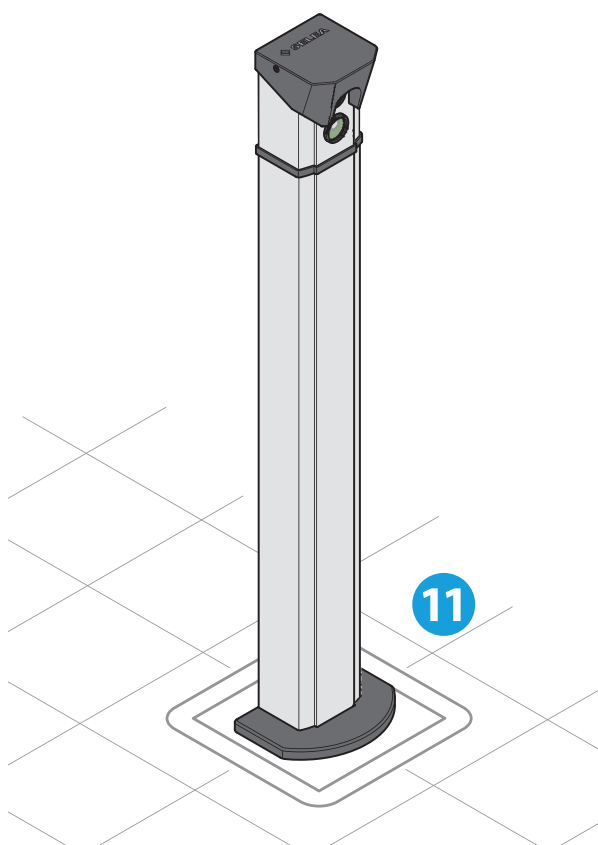
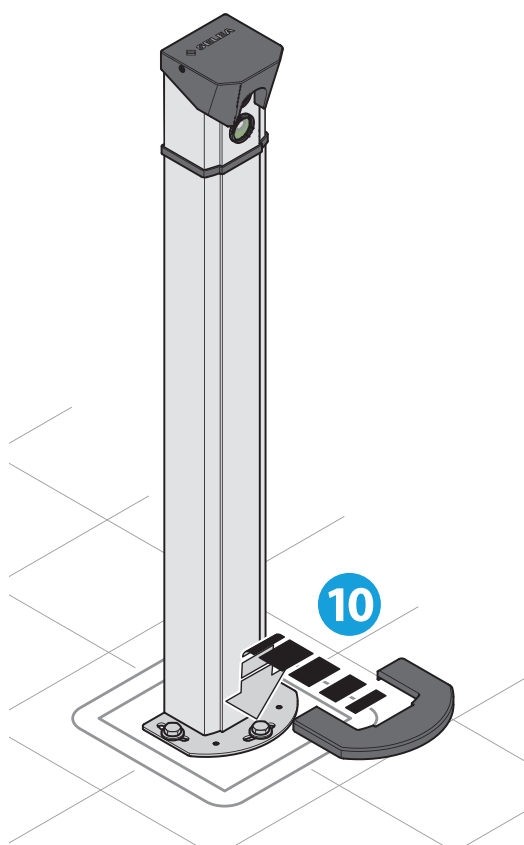
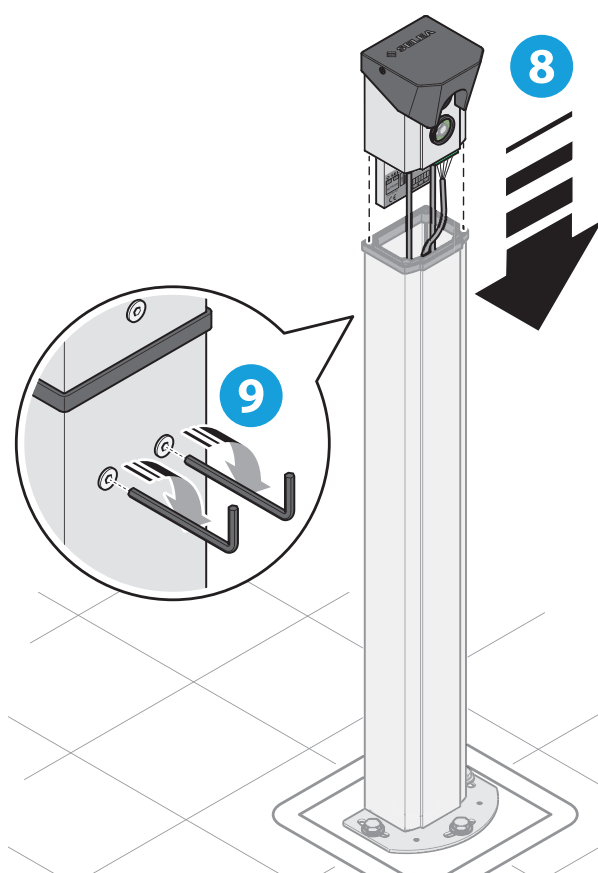
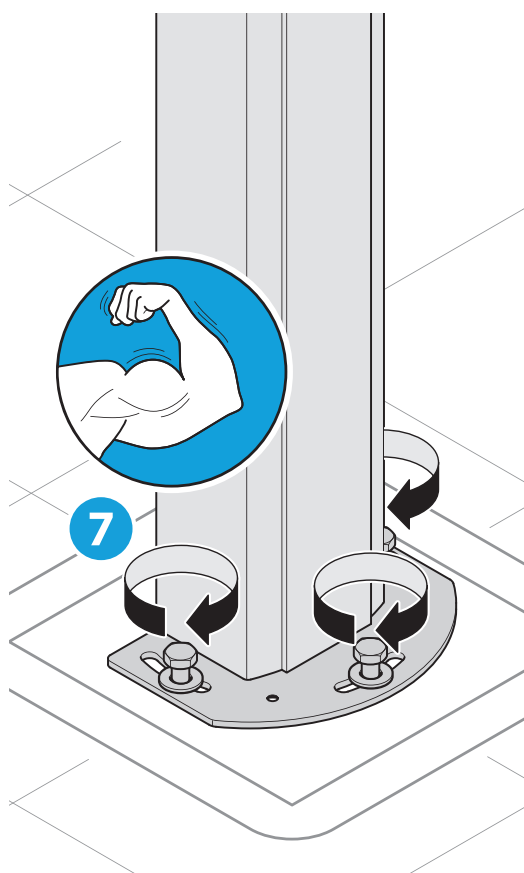
Floor installation

Pass the cables inside the camera and block them using the appropriate sponge inside.

Drill the floor with a drill through the four holes in the bracket.

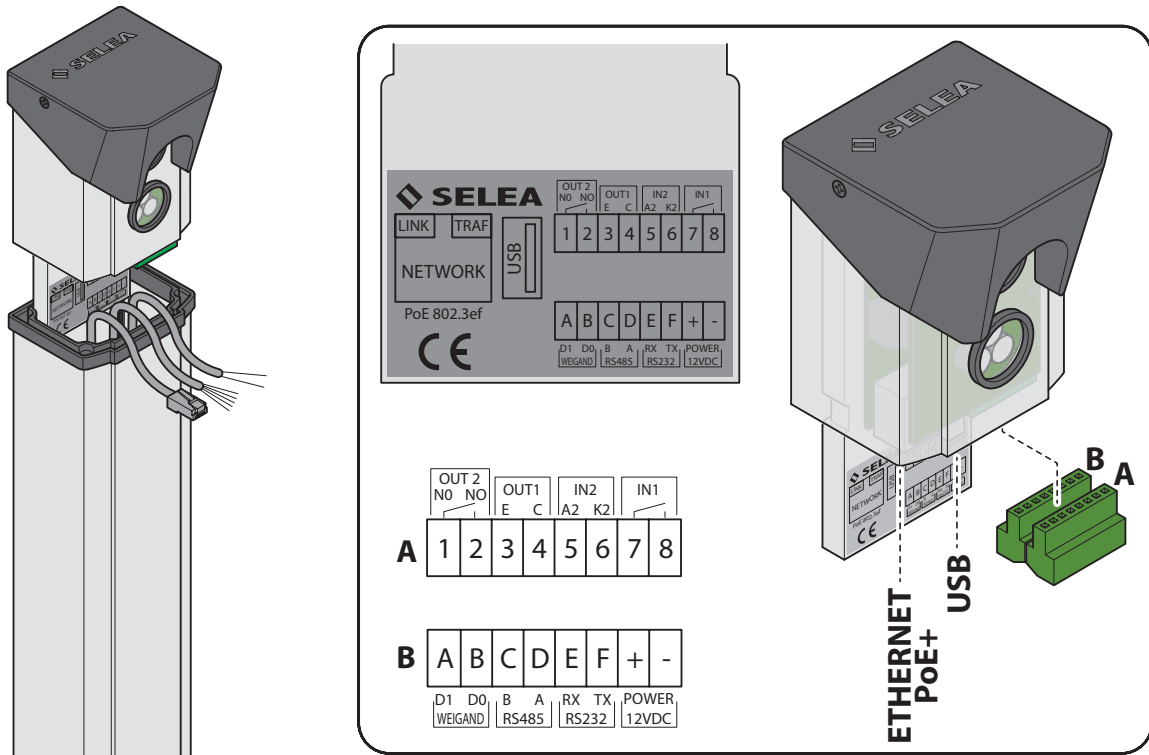
Before finally fixing the camera to the ground, you must check that the orientation of the lens points in the best reading direction.





CAMERA CONNECTION

On the back of the cameras are several ports for different connections.



NETWORK: 10/100/1000Mb autosensing **Ethernet** network port.

A: connector for the connection of input and output signals.

B: connector for **Wiegand**, **RS485** or **RS232** connection and power supply.

Attention: **Wiegand**, **RS485** and **RS232** protocols can only be activated individually and cannot be used simultaneously.

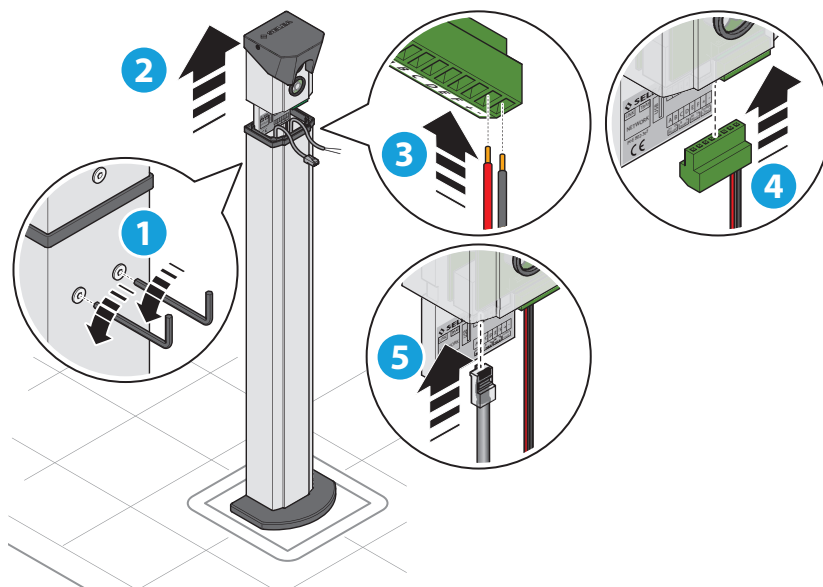
MICRO SD: on the right side of the board is the **8 GB SLC microSD** memory card slot (pre-installed).

USB: port for the connection of various accessories.

ELECTRIC AND LAN NETWORK CONNECTIONS

The electric and LAN network connections require the opening of the top of the camera.

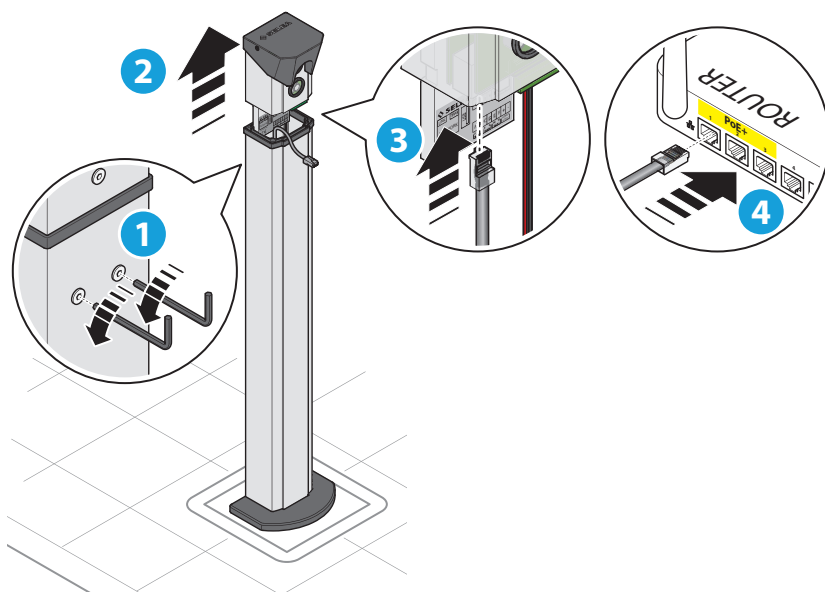
The camera can be powered via an **Ethernet** network cable connected to a **PoE+** switch, or via a **12 V** connection via the appropriate terminal.



For the **12V** connection, proceed as follows.

1. Unscrew the rear screws.
2. Lift the top.
3. Connect the power cable to the appropriate terminal.
4. Connect the terminal in its housing.
5. Connect the **Ethernet** cable for data connection. In this case, the other end of the cable can be connected to a normal network switch port.
6. Close the camera.

If you want to power the camera only using the **Ethernet** cable, proceed as shown in the figures below



1. Unscrew the rear screws.
2. Lift the top.
3. Insert the male connector of the **RJ45 Ethernet** network cable into the appropriate female connector located on the camera's electrical board. The other end of the cable must be connected to a network switch with a **PoE+** output port.
4. Close the camera.



We recommend the screws are screwed on the profile using an electric screwdriver so that there are no screws screwed in with different forces from each other. In the upper part there is also a water seal and if the screws were fixed with different forces, infiltrations might occur.

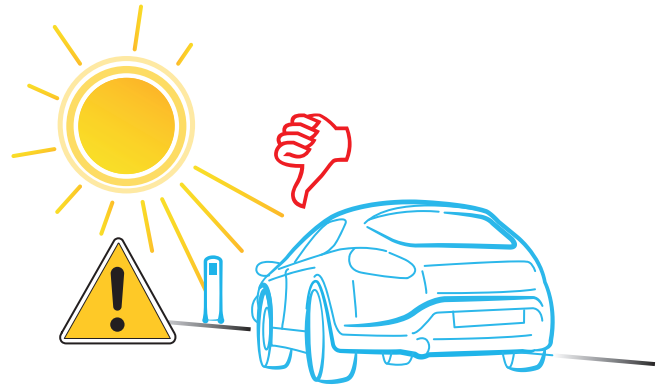


Inside the camera enclosure are some connections between the printed board and the camera body: do not tamper with them or use any connections other than those described in these pages.

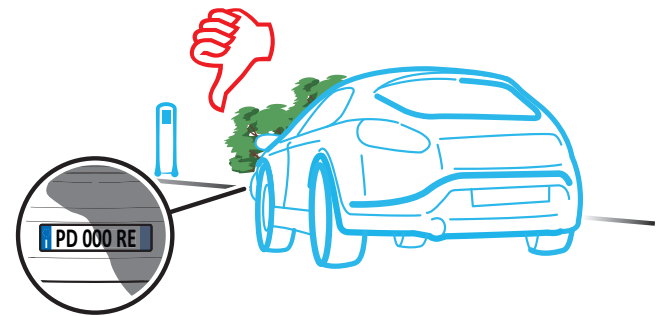
RECOMMENDATIONS FOR BETTER INSTALLATION

The following suggestions have been compiled based on feedback from our installers, who have experienced issues similar to those that you may experience. Following these suggestions can make calibration much easier, helping you to obtain the best from your camera.

Avoid as much as possible to install the camera with the sun at the back: sun light could reflect on the number plate, causing flare that could make it unreadable.



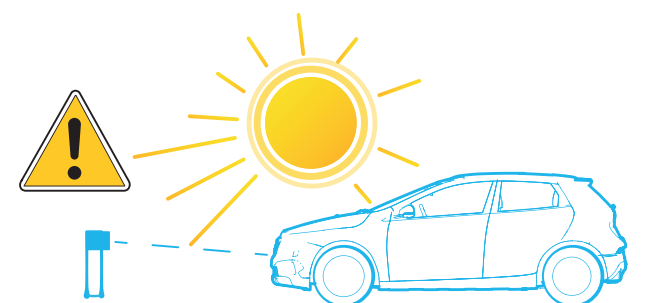
Avoid as much as possible uneven shadows (e.g. trees, gates, poles, signs) only affecting part of the number plate (shadows affecting the whole number plate will not cause reading problems).



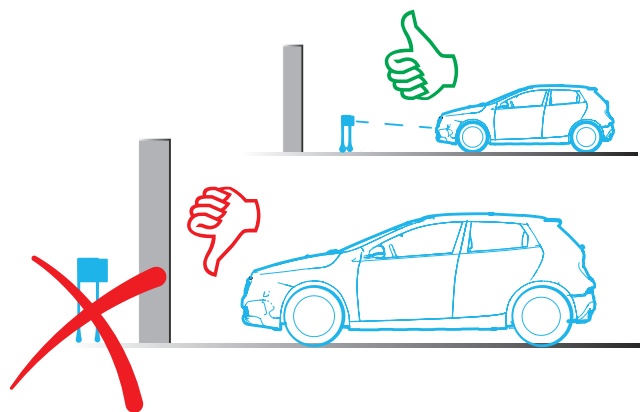
Avoid gates, fencing, irregular pavements (for example cobblestones) in the frame: the interference caused could make it difficult to identify the number plates, making their reading frequency difficult.



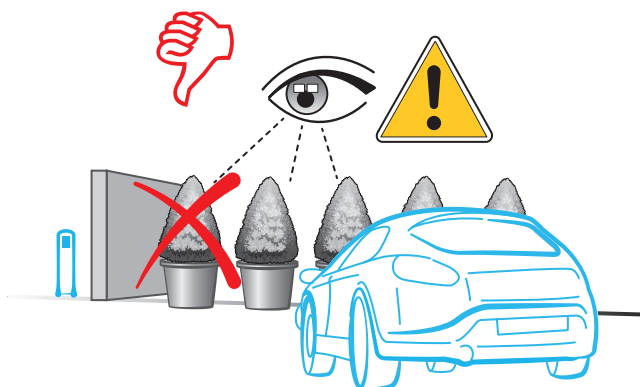
Adjust the sun shield so that when the sun is in front of the camera there is no interference with the image.



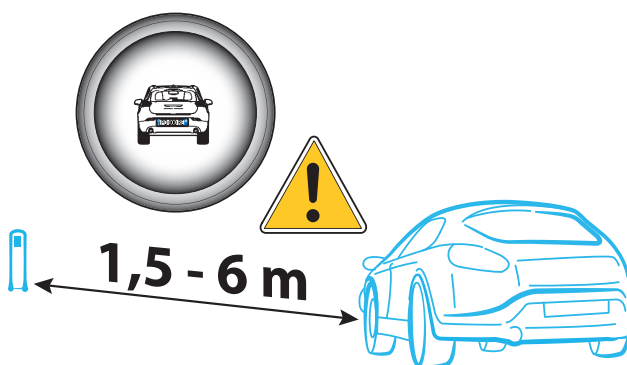
In case of accesses requiring front number plate reading, channel the vehicles and capture number plates when vehicles are still. Avoid positioning the camera much before the gate so that the number plate is captured while the vehicle is moving, allowing the gate to open when the car reaches the gate position.



In designing the access point, avoid the possibility of obstructions of the line of vision between the number plate reading position and the camera (for example plants sprouting leaves in spring, or in any case growing in front of the camera).



the number plate focus is preset to be read at a distance between 1.5 and 6 metres.



USING THE CAMERA

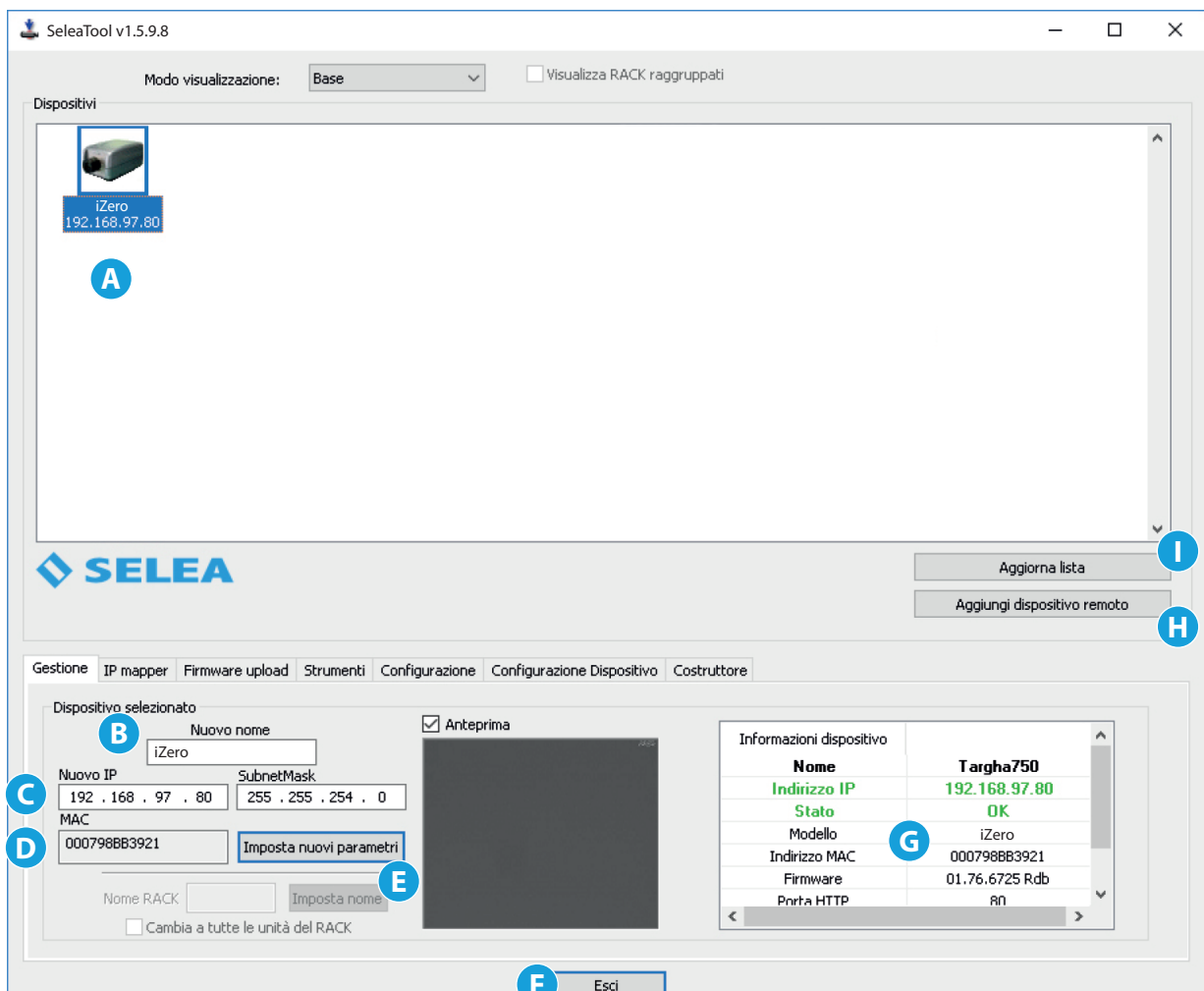
FIRST START-UP

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 3** 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 3** 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 3**, 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 you assigned to the camera in your preferred browser, you will be able to access the camera login screen.

Using drop-down menu "**A**" in this page, it is possible to select the language in which all camera management software menus will be displayed.

You will then be asked to complete the authentication process by entering your login credentials, whether you are an administrator or a user, by filling the **Username** "**B**" and **Password** "**C**" fields.



Once **Username** and **Password** have been entered, click **Login** "**D**" to access the camera functions.

After completing the login, you will reach the **iZero 3** homepage (**Live page**), and you will be immediately able to see what the camera is framing. Google Chrome offers the best stability results.

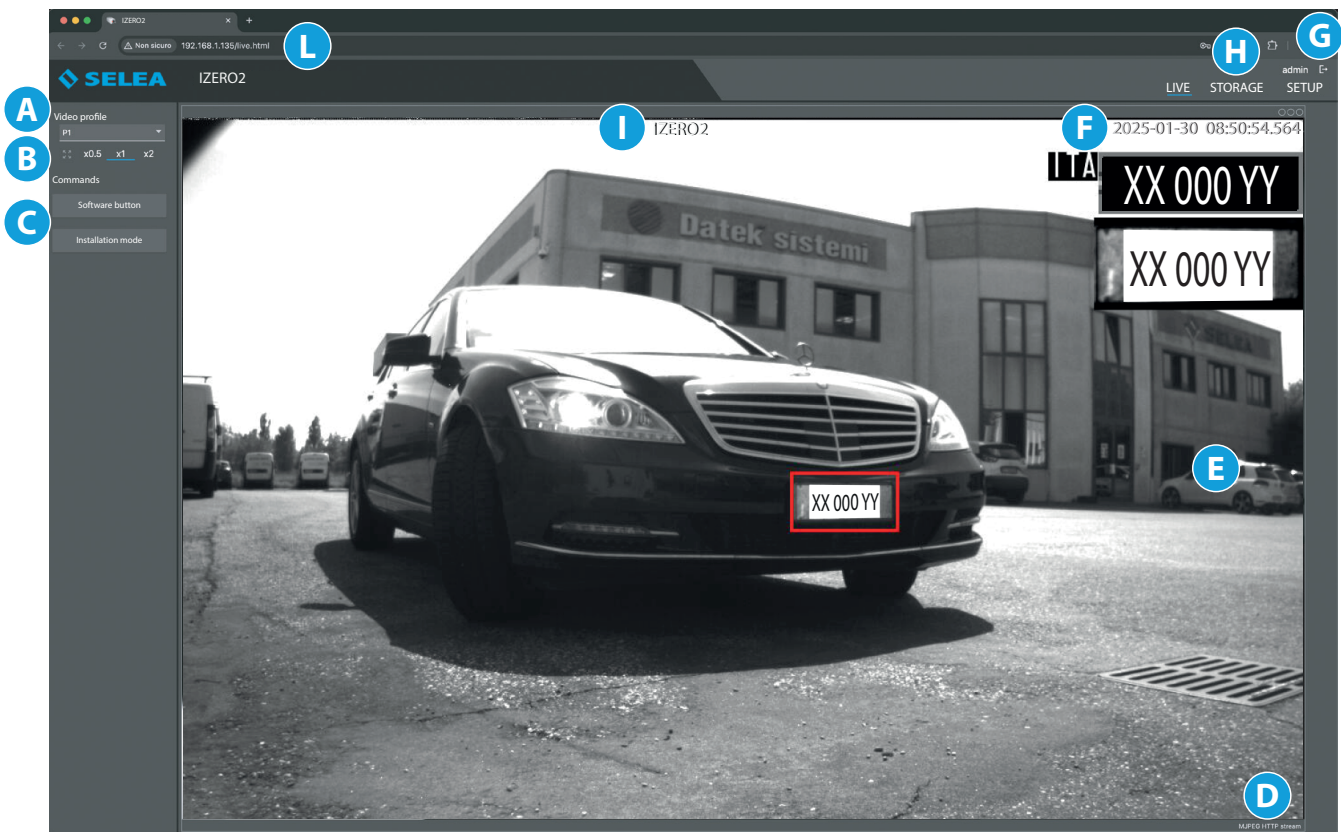
Although not necessary, we also recommend the installation of a video playback software to improve image quality: currently available browsers (Edge, Chrome, Firefox, Safari, etc.) only natively support "**M-JPEG Stream**" and "**JPEG Snapshot**". Although these will allow to see what **iZero 3** is capturing, they produce significant network traffic. Moreover, "**JPEG Snapshot**" playback may not be **smooth**.

The new **iZero 3** 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 3** can be suited to several installation solutions.

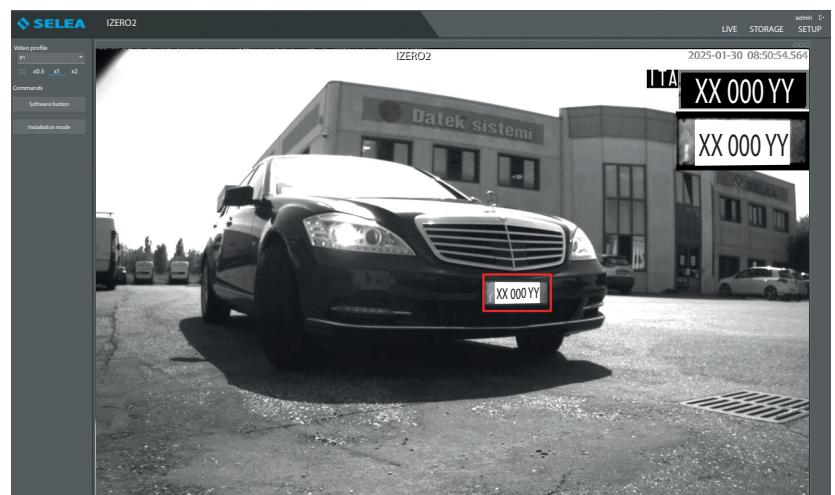
LIVE MENU

This screen is the home page that is shown on the browser immediately after logging in.

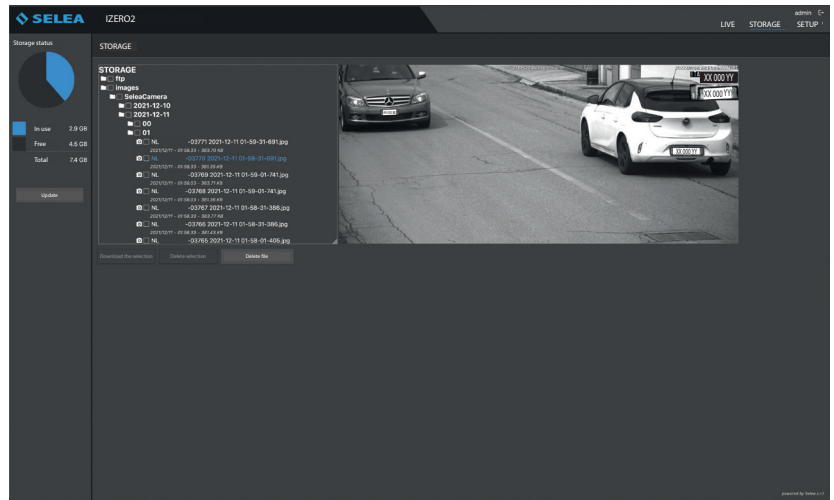


- A** This button will display a drop-down menu for the selection of the video profile; 2 alternatives are available, based on the camera being used, **Number plate sensor (profile 1) - Number plate sensor (profile 2)**. The selected alternative will be shown in the **live-view** screen.
- B** The three buttons are used to set the size of the **live-view** area.
- C** Quick selection buttons: the **"software button"** provides access to the **SETUP** menu in **ACTIONS**, in order to perform some quick configurations.
the **"installation button"** activates the software assistant in **iZero 3**, to help you with positioning adjustment and focusing 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 used to log out of the camera. You will again be asked to log in using your credentials. The button will always be visible in the three main menu screens.
- H** The three buttons are the main menu controls always visible in all the software screens.

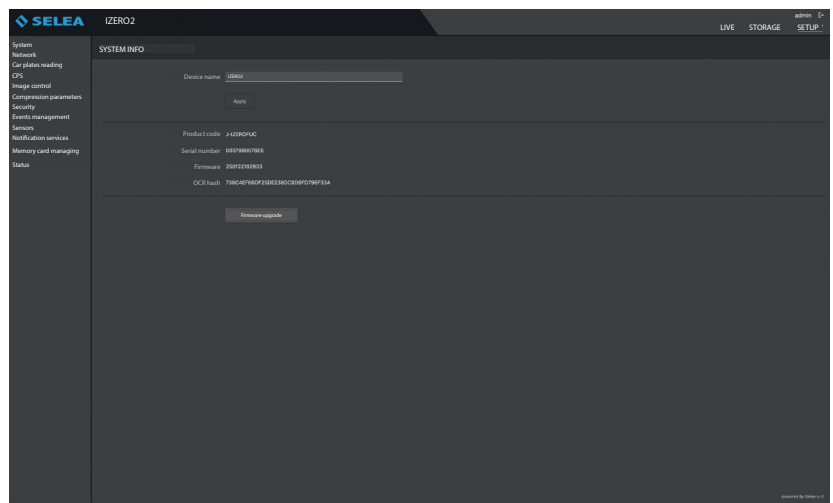
LIVE menu: This is the default screen that appears when the **IP** address of **iZero 3** is entered. The real-time images captured by the camera are also displayed here.



MEMORY menu: it can be used to access information stored in the **MicroSD** memory inside **iZero 3**: specifically, 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 2** 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.

FIRMWARE UPDATE USING SELEATOOL

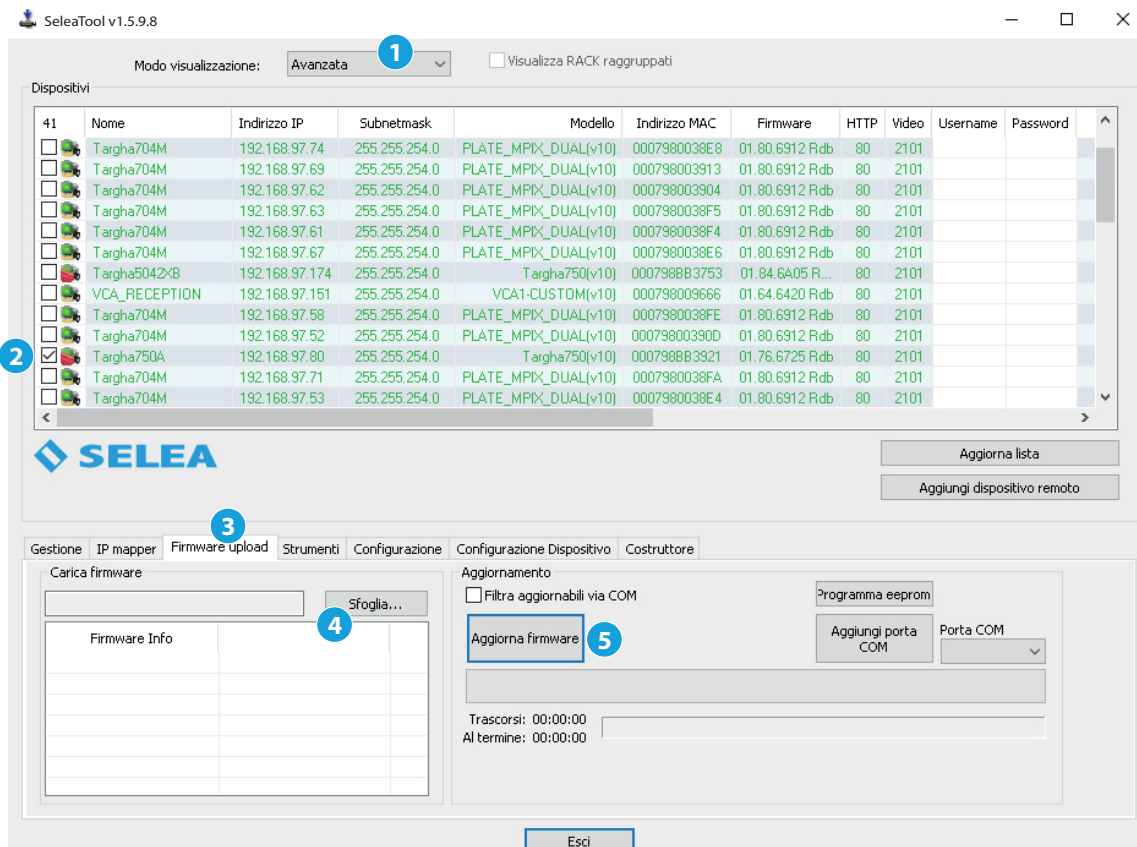
The **"firmware"** is the software installed in the camera internal memory that manages most of the **iZero 3** functions. The camera is already supplied with a pre-loaded firmware, which should not be modified unless:

- recommended by **Selea Customer Support**, when contacted by yourself due to technical issues.
- Selea has issued a new firmware version compatible with your model, which includes new interesting features.

WARNING: Updating the firmware is a very delicate operation that should only be carried out if strictly necessary. Wrong firmware updates can make the product unusable, which must then be sent to a Selea Technical Support Centre for repairs.

Make sure that during the firmware update there are no interruptions of any kinds.

If possible, when updating the firmware connect both the camera and the computer using an **UPS** protected electric line. Disable all screen savers and energy saving functions in the computer.



Before the starting the firmware update, make sure to have available all the files (.IMG extension) of the desired version, which can be downloaded from the support.selea.com website, or obtained from **Selea Customer Support**.

The uploading of new firmware to the device must be completed through an **Ethernet** connection and using the **SeleaTool** wizard.

Follow the procedure below:

1. Open **SeleaTool**. Wait for the **"Selea Devices"** panel to list all the cameras of the network. Select **"Advanced"** display mode in the top drop-down menu.
2. Tick the box of the device to update.
3. In the **"Firmware upload"** page, click **"Browse"** and find the previously obtained firmware update file. Click **"Open"**.
4. The **"Firmware Info"** table on the bottom left shows information regarding the selected firmware. Check the compatibility with the model being updated and that the version is as desired.
5. It is now possible to proceed with the update: click **"Update firmware"**. **NOTE:** based on the access settings on the device to be updated, **iZero 3** authentication credentials must be entered in the appropriate fields on the same line as the product to be updated.
6. The **"Status"** panel bar and the **"Update"** column show the status of the update (deletion, upload, verification, ...) and the percentage advancement status.
7. After completing the installation, **iZero 3** restarts automatically and appears in the **SeleaTool** window. The restart confirmation message also appears. Click **"OK"**.

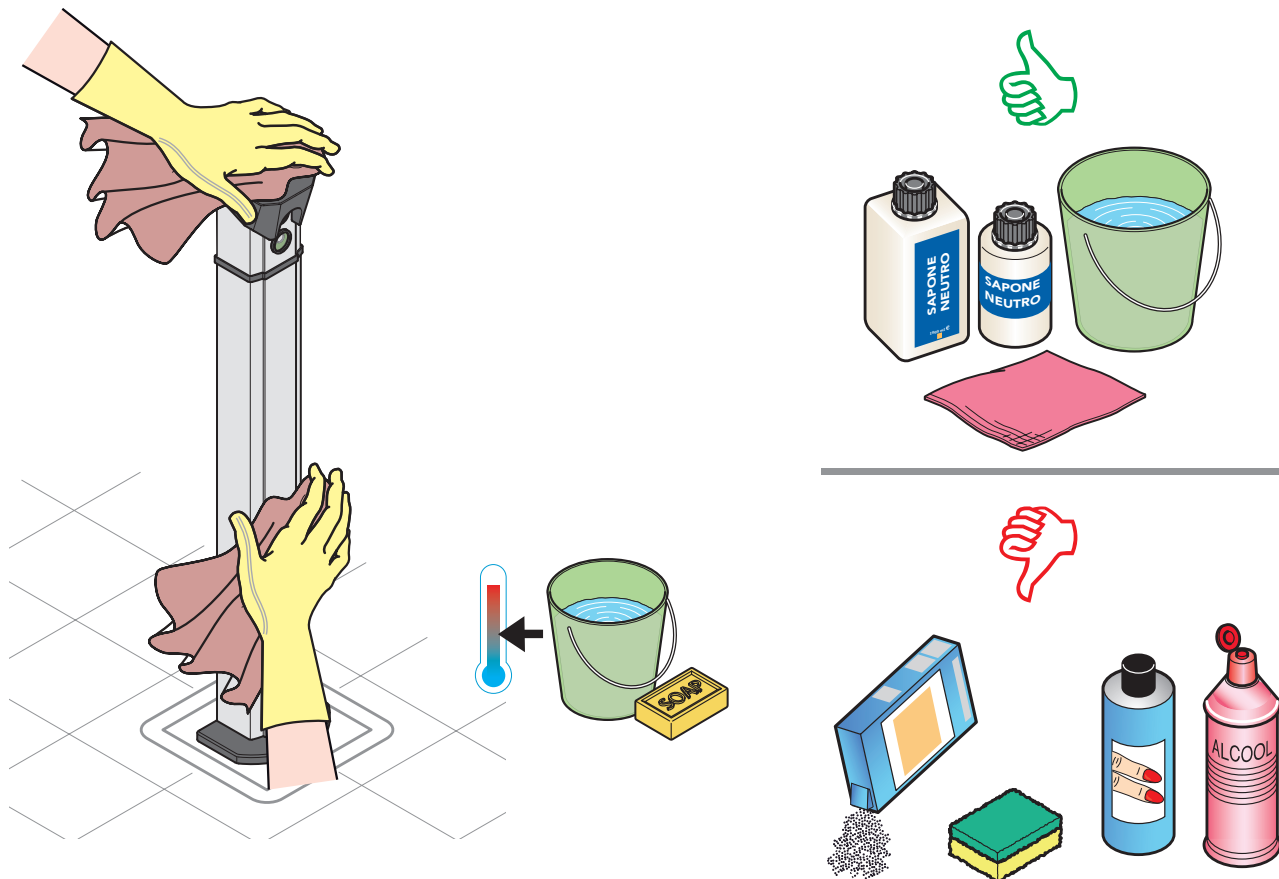
NOTE: The update of the firmware does NOT cause the loss of any existing camera configurations. No changes are made to the IP address or to all the other set parameters.

CLEANING THE CAMERA

Once the camera has been unpacked and positioned, it may require cleaning.



During cleaning activities only use a damp cloth. Do not use solvents or abrasive and non-abrasive products that could damage surfaces or components.



MAINTENANCE

The **iZero 3** camera does not require any special routine maintenance: only external cleaning of the column and the outer lens glasses is necessary.



During cleaning activities only use a damp cloth. Do not use solvents or abrasive and non-abrasive products that could damage surfaces or components.



Extraordinary maintenance activities must only be carried out by qualified personnel, authorised by the Distributor or Manufacturer.



Any type of intervention on the camera not authorised by the manufacturer will immediately invalidate the warranty.



It is absolutely forbidden to make any changes to the column and the internal parts of the camera. Any such changes will immediately invalidate the warranty.

DECLARATION OF CONFORMITY



DECLARATION OF CONFORMITY



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) Phthalate DEHP content <0.1%;
- Benzil Butyl Phthalate BBP content <0.1%;
- Dibutyl Phthalate DBP content <0.1%;
- Diisobutyl Phthalate 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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NOTES BY THE INSTALLER

[illegible]

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**.



Selea s.r.l.

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