



ACCESS
CONTROL

iZero

ANPR camera
SINGLE LANE

CERTIFIED
Privacy by Design
e Privacy by Default
ISDP 10003

NDAA
compliant



99,9%

recognition
accuracy

2

versions available
Column and Box



OCR Column



OCR Box

OCR camera for automatic reading of license plates, available in column or box version, for vehicle access control. Ideal for hotels, residential complexes, campsites, automatic parking, shopping centres, airports, trade fairs and company entrances.

HARDWARE FEATURES OF THE CAMERA

Sensor	
OCR Sensor	2 Megapixel, Global Shutter, CMOS B/N, frame rate of 54 Fps
Lens COLUMN version	
COLUMN lens, M12 mount	<ul style="list-style-type: none"> 3,6 mm fixed lens for reading distances between 1,2 and 3,5 mt, or an 8 mm fixed lens for reading distances between 1,5 and 4 mt
Lens BOX version	
BOX lens, M12 mount	12 mm fixed lens for reading distances between 2,5 and 6 mt
IR Illuminator	
Pulsed light IR Illuminator	n.6 high power 820 nm/47° IR LEDs that are compliant with the EN62471:2008 standard on photobiological safety
Internal memory	
Available only in the FULL versions	8 GB High Endurance (-40° ~ + 85°C) industrial microSD SLC memory card, useful for storing White/Black lists and the captured images. The Entry versions aren't fitted with internal memory.
Accuracy	
OCR accuracy	Up to 99,9%
Input/Output	
Input	<ul style="list-style-type: none"> n.1 digital input n.1 volt-free contact input
Output	<ul style="list-style-type: none"> n.1 digital output n.1 0.3 A 125 Vac or 1A 30 Vdc volt-free contact relay for opening barriers/gates automatically
Ports and Interfaces	
Ports	<ul style="list-style-type: none"> 10/100 Mbps Ethernet LAN n.1 USB port (only on the COLUMN -> FULL version)
Power supply	
Power supplies	<ul style="list-style-type: none"> 12 Vdc power supply on all camera versions POE 802.3at power supply (only on the FULL versions) 230 Vac power supply (optional on the COLUMN versions)
Absored power	8 Watt max
Inbuilt protection	
The camera is protected against:	<ul style="list-style-type: none"> reverse polarity voltage fluctuations greater than 17 Vdc overloads with thermal protection overvoltages (TVS) on USB and Ethernet ports

HARDWARE FEATURES OF THE CAMERA

Standards	
Respected standards	<ul style="list-style-type: none"> • EN62471 • EN55032 • EN55035 • EN61000 • EN62368-1 • EN60529 • EN60068 • EN60721 • European standard RoHS2 - 2011/65/UE
General	
Material	The camera is made of die-cast aluminium with an ABS weather-shield.
Operating temperature	From -25°C to +45 °C without the need of fans or heaters.
Protection rating	IP66
Dimension (mm)	<ul style="list-style-type: none"> • COLUMN version: L=83 ; H=500; D=88 • BOX version: L=83 ; H=125; D=88
Weight	<ul style="list-style-type: none"> • COLUMN version: 1,8 Kg • BOX version: 0,9 Kg

SOFTWARE FEATURES OF THE CAMERA

Embedded Algorithms

Standard built-in functions	<ul style="list-style-type: none"> • License plate reading (OCR) - reading characters of over 50 countries • Fog-Fighter (reading license plates in the fog) • Dirt elimination • Predictive character analysis • Angle compensation • Magic spot
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Data communications

Integrated webserver	<ul style="list-style-type: none"> • Onvif communication protocol • Save data directly to local server or remote NAS. • Integration with third party VMS software solutions. • Synchronized recording of metadata and captured number plate image. • Dynamic creation and updating of multiple lists (black/white): only for the FULL version. • Integration and saving in memory of Jpg snapshot images in Http. • Privacy management with automatic deletion of image data after a specified period of time. • Internal memory management. When the memory is full, the cameras automatically delete the oldest files to make room for the new ones (Fi.Fo method). • Multiple action alarm management.
Protocols	TCP/IP, UDP, HTTP, HTTPS, FTP, FTPS, RTP/RTSP, DHCP.
Other integrated protocols	Wiegand, OSDP, MODBUS (optional)

Data security

Data protection	<ul style="list-style-type: none"> • HTTPS encryption. • FTPS (FTP over TLS/SSL) encryption. • Micro SD memory encryption. • Automatic deletion of data and images after specified period of time (privacy management). • AES256 Advanced Encryption Standard. • SHA2 Secure Hash Algorithm 2.
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Video output

OCR sensor	2 Megapixel Jpeg images and video stream in RTP/RTSP with MPEG4 e H264 encoding.
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SOFTWARE FEATURES OF THE CAMERA

Functionality

Operating system

- Linux Embedded

Standard built-in functions

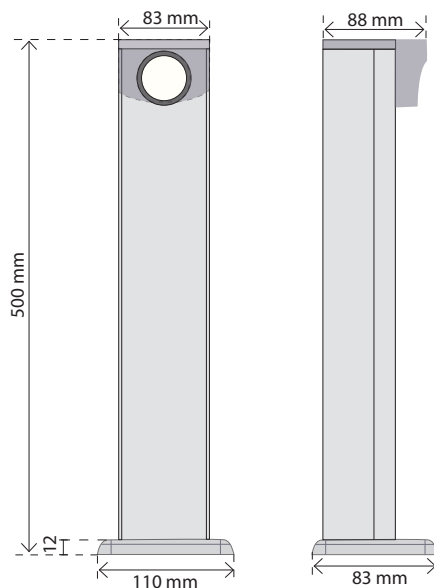
- Embedded FPGA video signal processing.
- Double FTP server and double IP notification server.
- Dynamic FTP notification forwarding customization.
- IP notification customization.
- Multiple user management using HTTPS protocol protected access credentials for accessing the camera.
- List management (white/black list, no list) with independent actions for each list: function available only for the FULL version.
- Synchronized recording of metadata and captured code/number plate image.
- Privacy management with automatic deletion of image data after a specified period of time.
- Integration with third party VMS video surveillance software solutions.
- Save data on a local server or remote NAS.
- HTTPS security management.
- FTPS (FTP over TLS/SSL) security management.
- E-mail forwarding security using TLS/SSL protocol.
- Multiple action alarm management.
- Live and check control function for checking the operation of the entire system.
- Synchronization of date and time via NTP, IEEE1588 protocol.
- Possibility of updating firmware from the web page.

Compatibility and integration

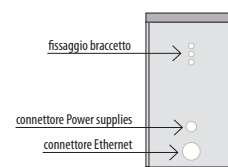
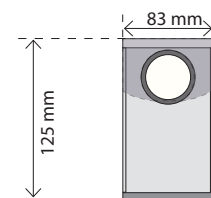
The camera can be integrated into the access control systems of the most famous brands in the parking and access control market such as: HUB PARKING - FAAC - SKIDATA - SIEMENS - CAME - FADINI



Column version



Box version



ACCESSORIES - "Available only for E-IZEROFUC and E-IZEROFUC8 models."

A	230 Vac built-in power supply.
O	RS485 interface with standard OSDP protocol for the integration with long distance access control solutions. Available only for E-IZEROFUC model.

ACCESS CONTROL Software solution



A software solution for those who need a valid tool to manage their customers' parking spaces, such as hotels, campsites, residences, car parks and also private homes, with management functions including:

- permits,
- schedules,
- special types of customers (VIP),
- calculating stay costs,
- entrance of vehicles of a family group, in order to manage the limited availability of parking spaces in residential complexes or campsites. Upon reaching the maximum number of places available, Qentry inhibits entry to additional vehicles of the family group, enabling entry only when the assigned place has been freed.

Qentry is capable of handling special categories of vehicles (ambulances, Law Enforcement, suppliers or special customers, which can automatically enter, regardless of

the set time conditions. Qentry is an access control and parking management module and can also be used as a video recording and surveillance system.

About us

SELEA is specialized in the manufacture of number plate reading solutions, both for vehicle access control and for territorial security and traffic control. All of our products are developed and manufactured entirely in Italy. This means that our customers benefit from continuous and comprehensive technical support.

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