

# EntryTower

## Smart control tower

### SIMPLE, FAST & FLEXIBLE

Access control to suit your requirements.



License plate recognition



QR code reader



Bluetooth-Token



App control



# EntryTower

## Smart control tower

### The EntryTower - the right choice for convenient access control

**Modern access control offers numerous advantages for companies, authorities and other facilities. ELKA's EntryTower allows you to manage all access control variables flexibly and with any end device via our EJOIN IoT portal.**

This not only makes it possible to make short-term changes to white lists conveniently from a smartphone, also the number or time limit of accesses can be adjusted easily. In addition, the EntryTower comes with a range of optional features that make access control even more convenient, such as license plate recognition via the EntryCam.

Not only the hardware is variable, but also the welcome message, which can be personalized for each access on the optional outdoor touchscreen.

Thanks to the option of custom painting in special RAL colors, the EntryTower also blends in visually with the style of the surrounding parking area.

**We present the EntryTower in detail on the next pages.**



### The housing equipment of the EntryTower in the basic version

The basic version comes with everything you need to successfully connect the access control system to the EJOIN IoT portal. A plug-in door enables convenient access to the installed hardware. The reactive LED lighting indicates whether access is permitted or denied.

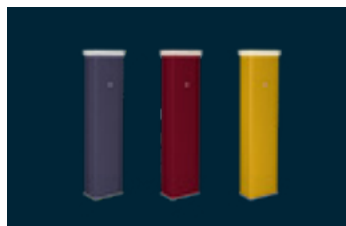
#### Variations of the housing

The EntryTower is available in the standard sizes 1.200 mm and 1.800 mm. Intermediate sizes are available on request. The housing is blank as standard and can be painted in all RAL special colors.



#### LED Lighting

The lighting provides feedback via color (red or green) as to whether access is permitted or denied.



#### Special colors

The column as a whole, the lid or the plug-in door can be painted in all RAL special colors for an additional charge. Only suitable for wet painting.



#### Plug-in door

Convenient access to the built-in components. If no screen is installed, a second plug-in door can be installed as an option.

## All possible installations at a glance



### **EntryScreen**

The 15-inch outdoor touchscreen monitor with matt full HD panel and high brightness of 1000 nits offers excellent visibility indoors and outdoors. The background image can be customized via our EJOIN IoT portal.

A minimum height of 1.800 mm is required for the installation of a screen.

### **QR code reader**

The compact scan module with IP54 protection and a UV-resistant viewing window is suitable for indoor and outdoor use. The high-resolution image sensor with its high motion tolerance ensures reliable detection of QR codes, even on smartphone displays.

QR codes are a cost-effective option for access control. The codes can be created via our EJOIN IoT portal and access can be limited in time, for example.

### **License plate recognition EntryCam**

For automated vehicle identification with high detection accuracy up to a speed of 300 km/h. Powerful and robust camera, made in Germany with IP67-protected housing. Fast data processing and image analysis in real time. License plates can be stored in the EJOIN IoT portal and access can be limited in time.

### **MobileEntry App**

The free app can be used like a handheld transmitter for access control. The hardware ID of the mobile device is stored in our EJOIN IoT portal and access can be limited in time, for example.

The MobileEntry app cannot be used in combination with the Bluetooth token.

### **Bluetooth-Token**

As soon as the active Bluetooth token comes within range of the EntryTower, the access authorization is checked and released if necessary. The signal strength can be adjusted if necessary. The hardware ID of the token is stored in our EJOIN IoT portal and access can be limited in time, for example.

The Bluetooth token cannot be used in combination with the MobileEntry app.

# Configurations

## Wide range of smart equipment options

The EntryTower can be configured to meet individual requirements with a range of optional installations.

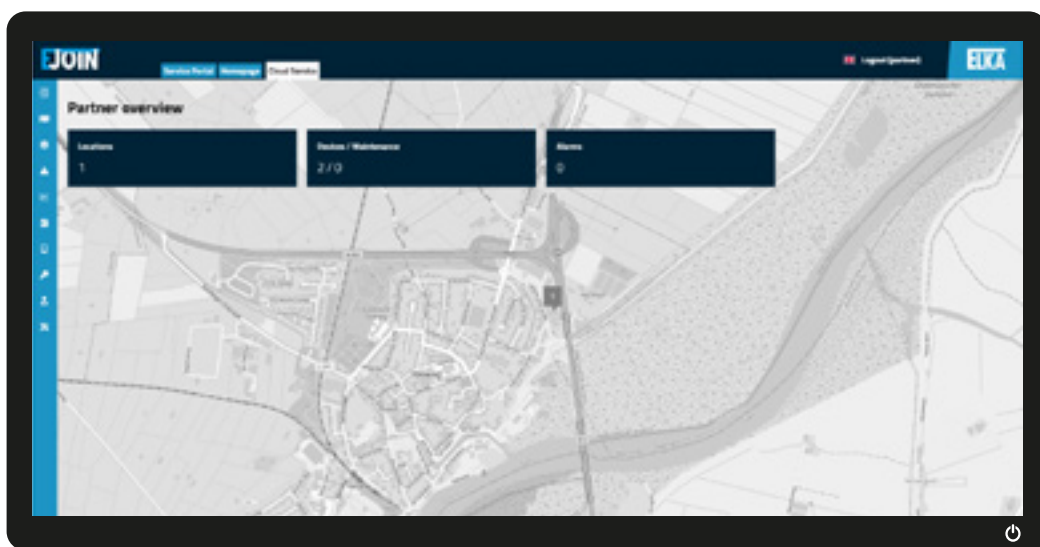
In addition to the variants included in the basic equipment, it is possible to integrate further access control systems.

An optional outdoor screen can display individual greetings. With the hardware already installed, the access control system can be successfully connected to the EJOIN IoT portal via WLAN, LAN or LTE. Integration into existing networks is also supported thanks to the built-in router.



Housing equipment	Possible configurations	
Aluminum tower, W x D x H	280 x 165 x 1,200mm	280 x 165 x 1,800mm
Plug-in door	✓	✓
LED lighting in the lid	✓	✓
Controller for controlling the individual components and communication with the IoT portal	✓	✓
Network integration	✓	✓
Second plug-in door	✗	Optional
RAL special colors (wet painting)	Optional	Optional
Screen EntryScreen (touchscreen)	✗	Optional
Access control systems		
Access control via Bluetooth-Token* (token available separately)	✓	✓
Access control via MobileEntry app*	✓	✓
Access control via License plate recognition of the EntryCam	Optional	Optional
Access control via QR code reader	Optional	Optional

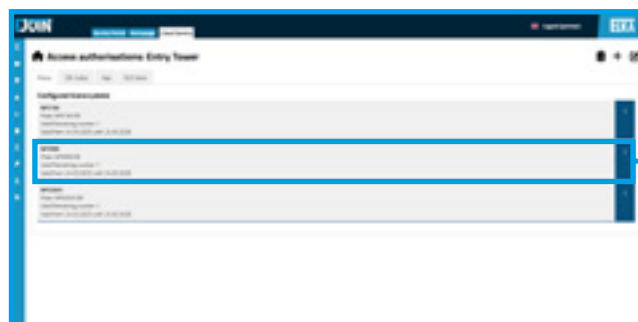
\* The MobileEntry app and Bluetooth token cannot be used in combination.



## Access management has never been so easy

In our EJOIN IoT portal, your access controls can be managed from anywhere and with just a few clicks. Benefit from a modern and flexible solution that allows you to overview and customize the various access control options of your EntryTower.

The intuitive user interface allows you, for example, to store new license plates, set the number of accesses or limit them to a specific time period.



## EJOIN in collaboration with the EntryTower:

- Location-independent management of the access control solutions
- Intuitive configuration in just a few steps
- Implement changes at short notice easily
- Clear presentation of each location

A screenshot of the 'Add new licence plate' form in the EJOIN IoT portal. The form has the following fields:

- Display Name (optional) 1: NFE150
- Licence plate: 2: NFE150
- Country code (2 letters) 3: DE
- Validity: Restrict date 4:  Valid from: 24.03.2025, Valid until: 5: 24.03.2026

Example of a license plate entry in the EJOIN IoT portal:

- 1 Optional entry of an individual display name
- 2 License plate entry without spaces
- 3 Enter country code
- 4 Set up time limit
- 5 Set up number of possible entrances

**Access by license plate recognition**

**Convenient access control**



### **Compact format, high performance: License plate recognition via EntryCam**

The EntryCam reads license plates in real time and at speeds of up to 300 km/h. This makes the small but powerful camera ideal for demanding ANPR applications (license plate recognition).

### **Access control via the EJOIN IoT portal**

Integration into our EJOIN IoT portal enables uncomplicated management of license plates via any device. This means that the area to be protected is regulated flexibly and securely.

### **Access control to suit your requirements:**

- **Access via white list**
- **Temporary access authorization**  
(Time periods freely definable)
- **Counter control**  
(Number of permitted access points freely definable)

## Access via QR code

### Flexible access control

#### QR code reader

The compact scan module with IP54 protection and a UV-resistant viewing window is suitable for indoor and outdoor use. The high-resolution image sensor with its high motion tolerance ensures reliable detection of QR codes, even on smartphone displays.

QR codes are a cost-effective option for access control. The codes can be created via our EJOIN IoT portal and sent by email, for example. This also allows you to control access routes individually at short notice.



#### Access control to suit your requirements:

- **Access via white list**
- **Temporary access authorization**  
(Time periods freely definable)
- **Counter control**  
(Number of permitted access points freely definable)



Access via APP

Smart access control



### MobileEntry App

With the MobileEntry app, the smartphone becomes a smart key, as the app can be used like a hand-held transmitter for access control. Available for Android and iOS, it offers the option of integrating existing hardware into the access control system.

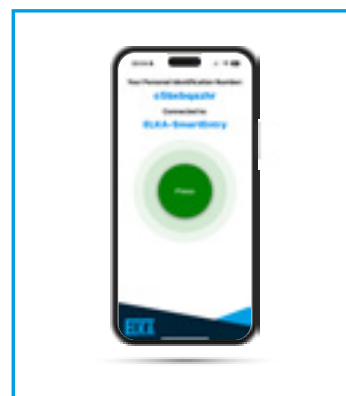
You can store the hardware ID of the mobile device in our EJOIN IoT portal and then grant it individual access.

### Access control to suit your requirements:

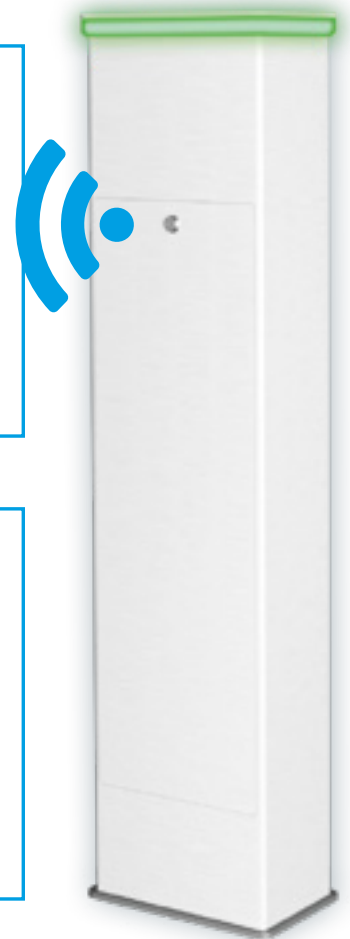
- **Access via white list**
- **Temporary access authorization**  
(Time periods freely definable)
- **Counter control**  
(Number of permitted access points freely definable)



Request for access clearance



Access cleared



# Access with Bluetooth-Tokens

## Convenient access control

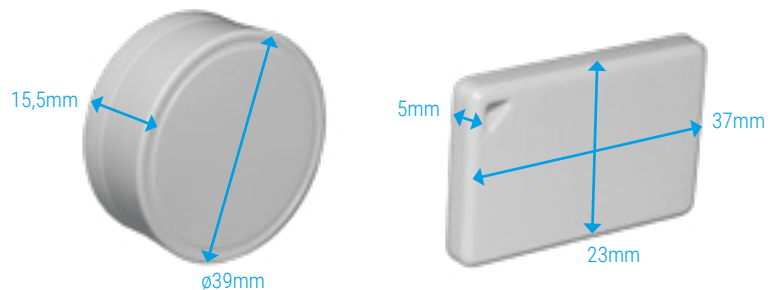
### Bluetooth-Token

As soon as the active Bluetooth token comes within range of the EntryTower, the access authorization is checked and released if necessary. The signal strength can be adjusted if necessary.

Active Bluetooth tokens can be used like a hand-held transmitter for access control, for which the hardware ID of the token is stored in our EJOIN IoT portal.

### Access control to suit your requirements:

- **Adjustable signal strength**
- **Access via white list**
- **Temporary access authorization**  
(Time periods freely definable)
- **Counter control**  
(Number of permitted access points freely definable)



# Visual feedback via monitor

## Individual welcome

### EntryScreen

The display on access release can be individually stored in the IoT portal, for example, a greeting by name, a logo or the vehicle license plate number can be displayed.

A visualization of the detection status offers many advantages:

- Increased transparency and user-friendliness:  
People can see immediately whether they have been granted or denied access.
- Possibility to display personalized greetings or specific instructions

The camera can set up for the first time, using only the screen without an additional device.

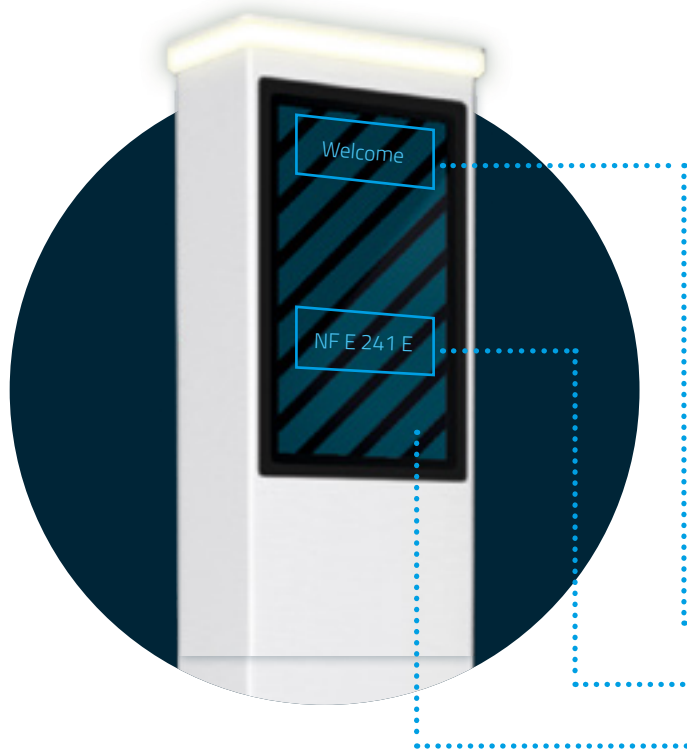
The 15-inch outdoor touchscreen monitor with a matte Full HD panel and a brightness of 1000 nits offers excellent

visibility indoors and outdoors. The outdoor monitor with a tempered glass surface is ready for use at an operating temperature of -20°C to +50°C.

Installation of the screen requires the 1.800mm version of the EntryTower.

### Advantages of the screen:

- Visualization of the detection status
- Personalized greetings and presentation
- Initial commissioning of the camera without an additional end device



### Possible screen configurations

- 1 Greeting "Welcome"
- 2 Individual name per access control
- 3 Freely customizable background image

## Customized access control solutions

### for every application



#### QR code

### Access control for underground car park

#### Hotel owner

"Most of our guests arrive from out of town and also outside our regular operating hours. We were able to connect the access control system to our existing operating software using a QR code and thus automate the creation and sending of codes for our guests. If someone arrives after 10 p.m., nobody has to work extra hours anymore."

#### EntryCam

### Access control for company grounds

#### Plant manager of a supplier for electrical engineering

"There is a lot of activity on our company ground, which is why we have integrated license plate recognition as a control system for the access roads. After the initial commissioning, the system now works fully automatically. We can make changes in the portal from anywhere, it really makes our work easier."





## MobileEntry App

### Access control for office buildings

Owner of a marketing agency

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"In addition to our permanent employees, we have a number of freelancers who support us with projects from time to time. As there are other companies in our building, we have to regulate access. A smartphone app is ideal for our purposes and has proven to be very practical."

## Bluetooth-Token

### Access control for employee parking lot

Managing director of a metal construction company

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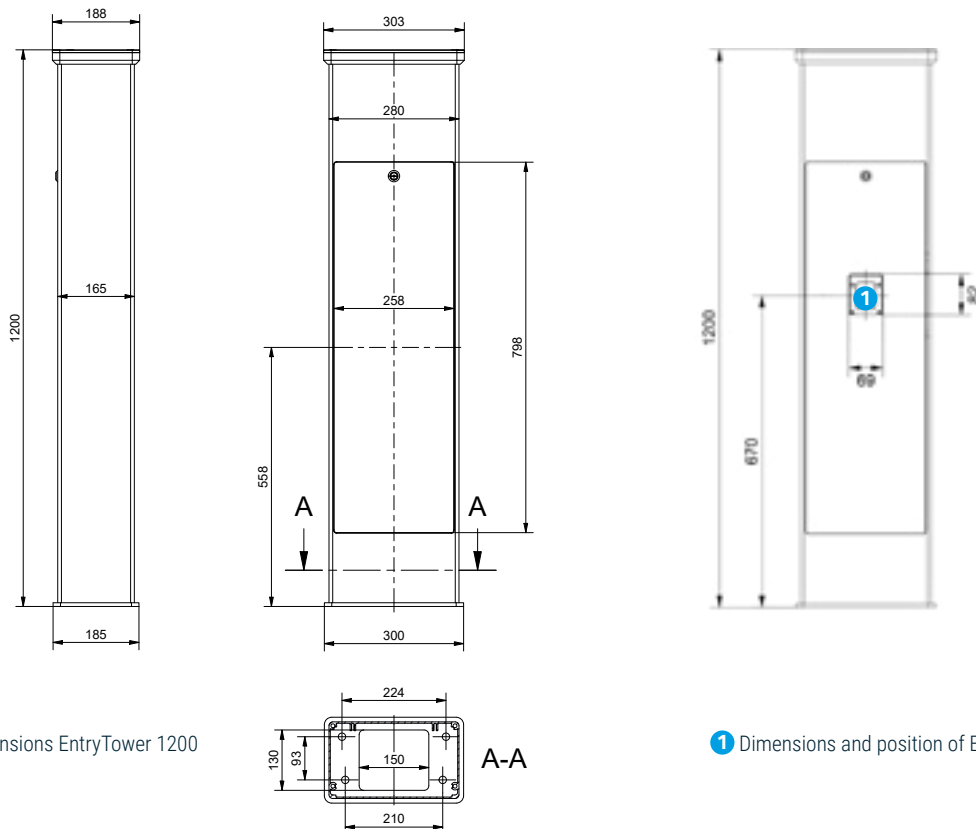
"Our company parking lot is used exclusively by our employees. The Bluetooth token is an uncomplicated solution for us, as we don't have to provide any additional support. The employees have the token in their vehicle or on their key ring and it communicates independently with the control system."



# Technical data

Type	1200
Housing W/D/H	280 x 165 x 1,200mm
Material	Aluminium (standard blank)
Dimensions plug-in door W/H	258 x 798mm
Painting	RAL custom colors (wet painting)
Power supply voltage	90-264V AC, 47-63Hz (wide-range power supply unit)
Power consumption	2.25A / 115V AC, 1.3A / 230V AC
GSM	All World
Lighting	LED (green, red, white)
Network integration	Gigabit-LAN / WLAN (IEEE 802.11.b/g/n/ac (2.4 und 5 GHz)) / Global-LTE-Router (4G, 3G, 2G)
Bluetooth	Bluetooth 5.0, BLE
Operating temperature	-20°C bis +50°C*
Protection class	IP54
Weight (basic equipment)	21kg
Foundation, frost-free, min. WxDxH	400 x 300 x 800mm

\* To operate the EntryTower (with Raspberry Pi) at ambient temperatures below -0°C, an additional heater with thermostat must be installed in the EntryTower.



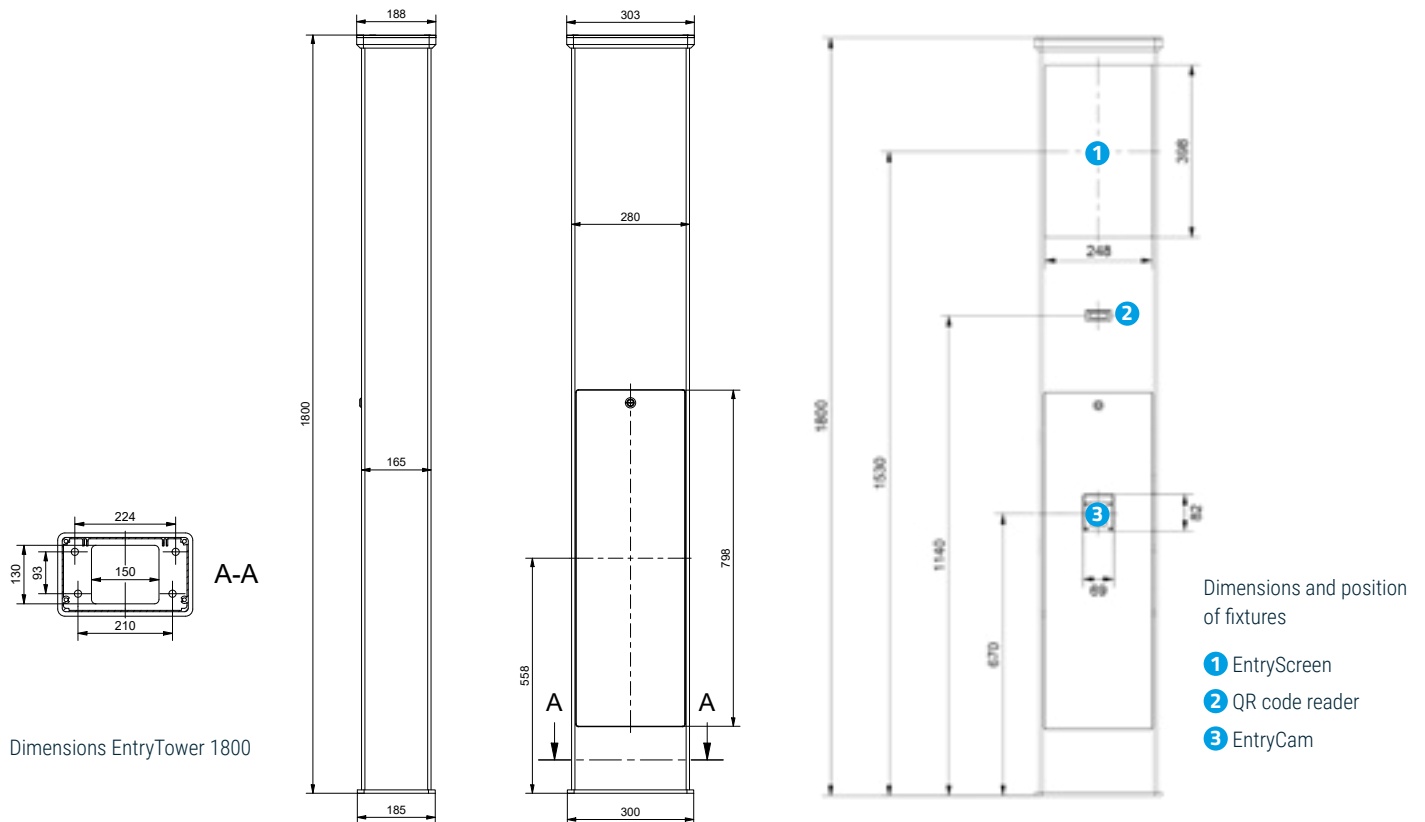
Dimensions EntryTower 1200

① Dimensions and position of EntryCam

# Technical data

Type	1800
Housing W/D/H	280 x 165 x 1,800mm
Material	Aluminium (standard blank)
Dimensions plug-in door W/H	258 x 798mm
Painting	RAL special colors (wet painting)
Power supply voltage	90-264V AC, 47-63Hz *
Power consumption	2.25A / 115V AC, 1.3A / 230V AC
GSM	All World
Network integration	Gigabit-LAN / WLAN (IEEE 802.11.b/g/n/ac (2.4 und 5 GHz)) / Global-LTE-Router (4G, 3G, 2G)
Bluetooth	Bluetooth 5.0, BLE
Lighting	LED (green, red, white)
Operating temperature	-20°C bis +50°C*
Protection class	IP54
Weight (basic equipment)	26kg
Foundation, frost-free, min. WxDxH	500 x 400 x 800mm

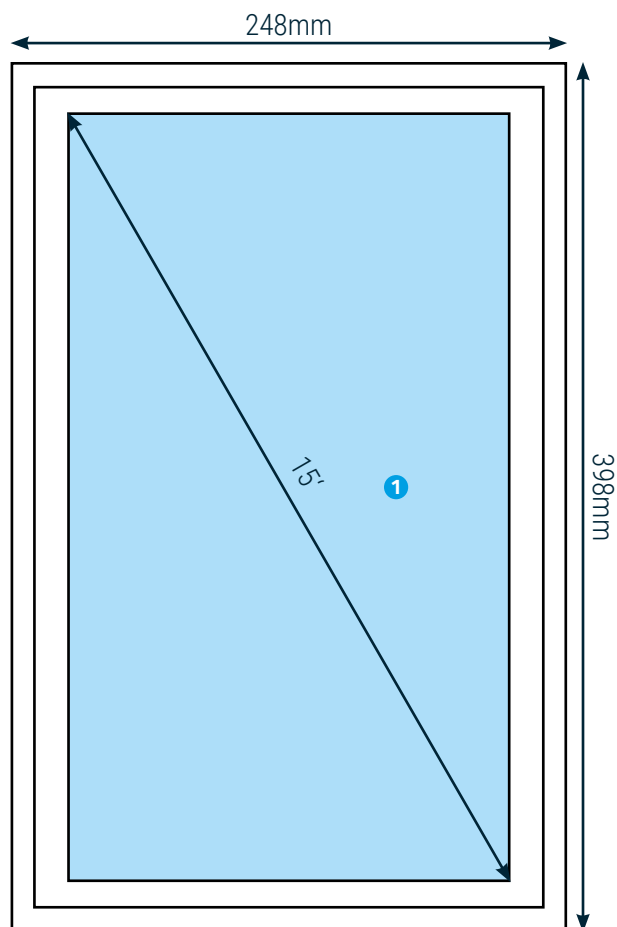
\* To operate the EntryTower (with Raspberry Pi) at ambient temperatures below -0°C, an additional heater with thermostat must be installed in the EntryTower.



# Technical data

## EntryScreen

Key figures	
External dimension	398 x 248 x 44mm
Active area dimensions	344 x 194mm
Supported resolution	1920 x 1080 pixels (Full HD), 640 x 480 (min)
Operation / Input	Touch Screen
Surface	Tempered glass, matt
Brightness	1000nt
Ports	HDMI, DisplayPort, USB-C, VGA
Power supply voltage	DC 10-36V
Power consumption	19.8W (operation), 0.4W (standby)
Operating temperature	-20°C bis +50°C
Operating humidity	20% - 85% non-condensing
Impact resistance	IK08
Protection class	IP65



1 Active area

## Technical data

### EntryCam

Key figures	
Dimensions (L/W/H)	46 x 62 x 91mm
Weight	approx. 450g
Max. Resolution	1440 x 1080 pixels (can be adapted to ROI)
ALPR	High-speed ALPR with onboard processing
Average measurement accuracy	>99%
CMOS sensor	25.4/ 73.66mm (1/2.9") Sony IMX 273, black and white or color
Image capture	Global Shutter / 205 full frames per second
Lens	Detection and reading distances of up to 8m
Processor type	Quad-Core ARM® Cortex®-A53
RAM	1GB DDR-SDRAM
Memory	Flash EPROM – 16GB industrial eMMC
I/Os	Multiple I/Os, programmable + Trigger / Flash I/O
Ethernet	100MBit/s
RTC	Real-time clock with backup battery
LEDs	850nm LED flash light (940nm or white light LED on request)
Inlet	24V DC +/- 20%, max. 1200mA
Power consumption	On average < 6W
Operating temperature	-20°C bis +50°C
Operating humidity	max. 80%, non-condensing
IP protection class	IP67

## Technical data

### Bluetooth-Token

Key figures	
Dimensions (round)	ø 39 x 15.5mm
Dimensions (rectangular)	37 x 23 x 5mm
Weight	21g
Radio Bluetooth	Bluetooth 5 compatible
Protocol options	iBeacon, Eddystone
Transmission power dBm	-40, -20, -16, -12, -8, -4, 0, 4dBm
Range	< 1,000m
Operating temperature	-20°C bis +60°C
Battery life	up to 3 years
Protection class	IP67

### QR code reader (fixed 2D barcode reader)

Key figures	
Dimensions	28 x 48 x 55mm
Sensor resolution	1280 x 800 pixels
Frame rate	60 frames/s
Power supply voltage	5V +/- 5%
Power consumption	Operation (typical): < 225mA standby/idle (typical): Automatic object detection mode: 115mA
Operating temperature	-20°C to +50°C (suitable for up to 55°C)
Standard ports	Micro USB
Protection class	IP54



## ELKA TORANTRIEBE

### For more than 45 years, ELKA stands for quality "Made in Germany"

As an experienced manufacturer, we develop high-quality barrier systems for parking lots, parking garages, commercial entrances and toll stations, robust traffic bollards for reliable protection in pedestrian zones and entrances, high-performance gate drive technology and suitable accessories for modern access control solutions - innovative and designed to meet the highest demands. Our products are developed and manufactured in Germany and are subject to strict quality controls - this enables us to achieve maximum reliability for daily use.

"Partner with competence" - this philosophy is firmly anchored in our corporate culture. Fast order processing, short delivery times and adherence to delivery dates are a matter of course for us. We supply to customers in over 80 countries worldwide and provide them with experienced advice. Our experts know every product in detail and are happy to support you in planning your projects. Contact us - we look forward to hearing from you.

You can find further information on our website: [www.elka.eu](http://www.elka.eu)

✓ **Competent customer service**

✓ **Quality „Made in Germany“**

✓ **Short delivery times and adherence to delivery dates**



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