

# PTZ based parking enforcement

AI powered surveillance for effortless control



CommuniThings unveils an innovative parking management solution, harnessing the power of PTZ cameras for vigilant parking zone monitoring. Through cutting-edge PTZ cameras and AI-powered backend capabilities, we redefine parking enforcement.

- Installed on existing infrastructure, our cameras monitor 24/7 each parking session
- Snapshots are taken at configured time interval
- For violations, cameras zoom, capturing plates; AI manages fines with precision
- Validated infractions smoothly flow to third-party for printing and payment



**Elevate your parking with CommuniThings - Where AI transforms enforcement into a seamless, efficient journey !**

## How it works ?

- 1** Camera detects start of parking session. Overview snapshot by camera.
- 2** Camera detects start of **infringement**. Camera zooming and taking picture of license plate.
- 3** Camera detects end of parking session. Overview snapshot by camera.
- 4** Automatic fining on the platform.
- 5** Human validation of fine in the validation interface of the dashboard.
- 6** Validated infraction sent to 3rd party for printing and payment follow up.

## Enforcement use-cases

### Parking duration

Parking duration is monitored and the control is triggered once the maximum parking duration is exceeded. This is applicable to Shop&Go, blue zones, delivery zones, EV bay with limited duration,...

### EV spots

Based on the configured policy, the system triggers control based on potential violations as: vehicle present and no cable connected, or cable connected but no session started (ICEing), and battery full and vehicle not charging anymore (hogging). Interacting also with EV infrastructure.

### Payment

PTZ camera captures the license plate of the vehicle and queries the payment provider platform to verify whether there is a running payment against the license plate. Available for prepaid parking tickets (Pay&Display machines) and open parking tickets (mobile app,...).

### Access control in delivery zones

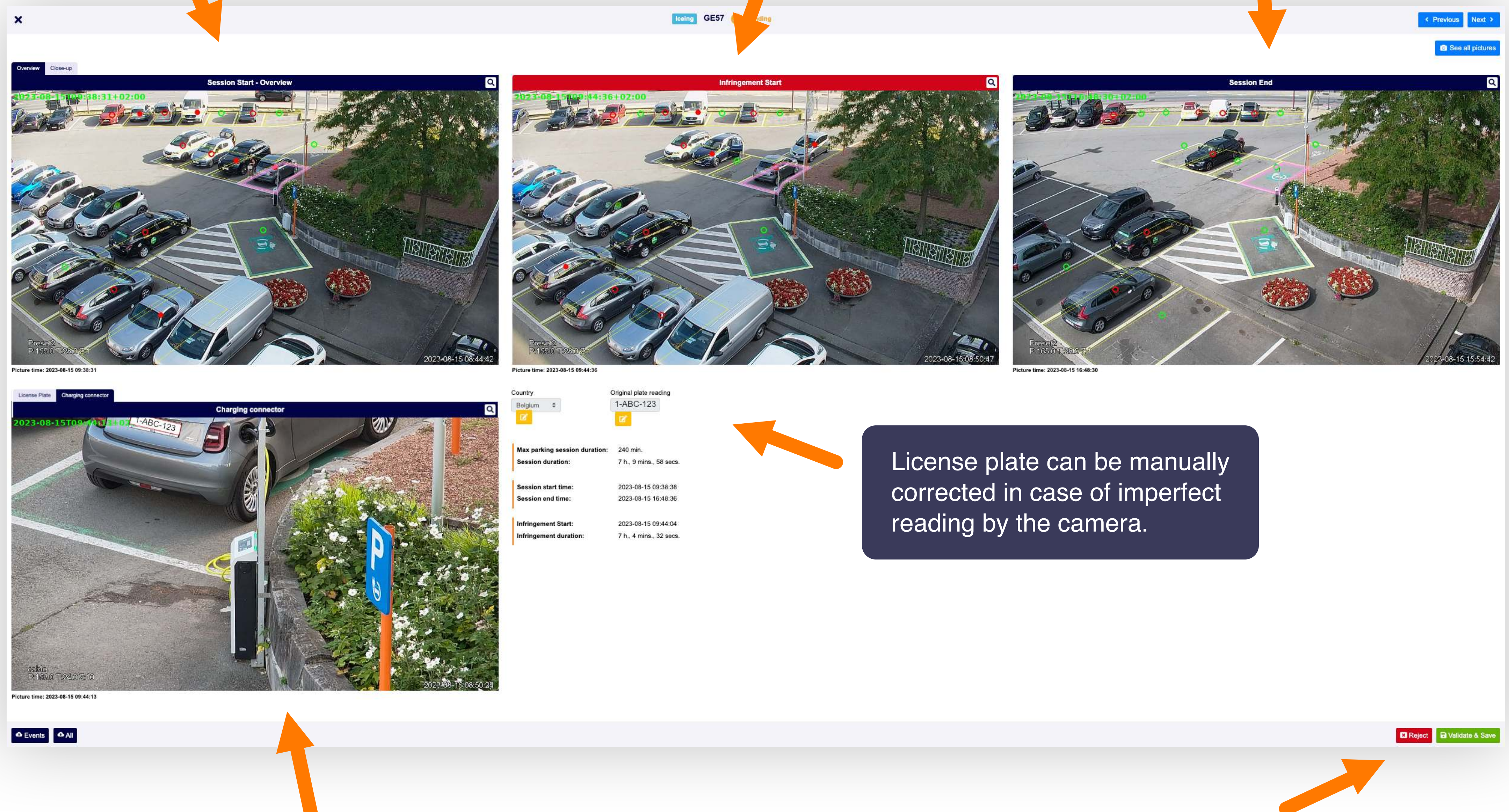
Drivers sign-up to service via web-based app. Access to delivery zones is authorised to registered vehicles only. Unauthorized vehicles detected by PTZ camera will incur fines for parking.



Camera detects start of parking session on EV spot and takes snapshot (general view, and license plate close up). The targeted spot is bordered in pink.

Camera detects start of infraction, and takes snapshots (general view, and license plate close up).

When the spot becomes available or occupied by another vehicle, the camera captures a snapshot to mark the end of parking session.



Camera zooms in on the car at the start of infraction and capturing a close-up image of the license plate as evidence. In case of EV close up, an additional picture of charger status (showing cable connected or not, LED) is stored as supplementary evidence.

License plate can be manually corrected in case of imperfect reading by the camera.

In this validation interface personnel can either reject or validate an infraction alert. Once validated, the fine gets printed and is followed up for payments by a third party.

## THE BENEFITS

- 24/7 monitoring
- A single PTZ camera covers a very large zone
- Camera with rotating and zooming capabilities
- Automatic fining 24/7 / License plate reading
- No physical presence required in the streets
- Backoffice control with validation interface
- Overview and license plate images as proof of infraction
- More effective control on the covered zones

## Contact Us

for additional  
information or a live  
demo of the service

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