LPR · CLOUDEASE · CLOUD HOSTED

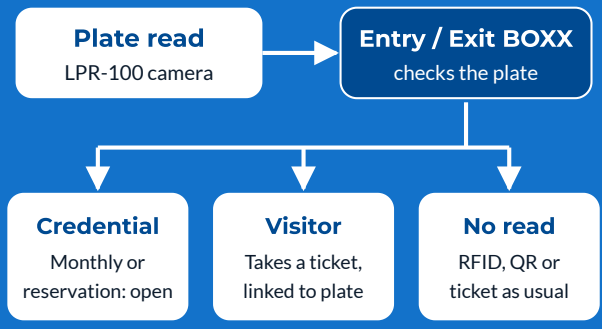
LPR Software

The software that turns each plate read into a parking decision. The LPR laneway camera sends each plate to the Entry BOXX or Exit BOXX at the lane, which checks it against the credentials and reservations set up in CloudEASE. Operators manage everything from a web browser, for one site or many.

< 2 s
Typical read to match

Browser
Nothing to install

Per site
Data and image settings



At exit: plate matched to the ticket, fee shown on the Exit BOXX

What the software does

Credentials by plate

Monthly parkers and prepaid reservations are set up by plate in CloudEASE, each valid for set dates and times. The gate opens only inside that window.

Visitors: plate on the ticket

A visitor takes a ticket and the plate is linked to it. At exit the plate is matched to the ticket and the fee shows on the Exit BOXX.

Pay by plate

Drivers pay by plate number on the P-123 Pay app, a web link or a kiosk. The payment is linked to the plate.

A backup at every lane

If a plate isn't read, credential holders use their RFID card. QR codes and tickets work as normal, and the intercom is there for help.

Features

Feature	What it gives the owner
Front and/or rear	Read the front and/or rear plate: one or two LPR-100 cameras per lane.
Reports	Plate history, frequent visitors, length of stay and occupancy, rolled up across sites.
Enforcement link	For ungated pay-by-plate lots, paid plates can be sent by API to the owner's enforcement provider.
Remote management	Add or remove plates, change rates, review images and answer intercom calls from any browser.

Settings, per site

Setting	Options
Data retention	7 days on the lane machine by default, adjustable. Owner sets cloud retention; dispute images held.
Image upload	Hourly, overnight, or kept on site and sent on request. Plate-only images optional.
Character replacement	Look-alike characters count as a match: 0/O/Q/D, 1/I/L, 5/S and 8/B. Groups can be changed per site.
Match accuracy	Exact match, or N-1 and N-2 modes that accept a plate with one or two characters misread.

System components

Part	What it includes	Where it runs
LPR-110	LPR software: credentials and reservations by plate, plate linked to the visitor's ticket, and plate images. Set up in CloudEASE; plates checked at the lane.	CloudEASE and the Entry / Exit BOXX
LPR-120	LPR software hosting, prepaid annually.	Cloud
LPR-100	LPR laneway camera on a yellow steel post, one per lane. See the LPR Laneway Camera sheet.	At the lane
CAM-510	Network video recorder (NVR) with hard drive and PoE switch, required.	IT or electrical room
Lane equipment	Entry BOXX, Exit BOXX or pay station, and barrier gate: the ticket, QR code or RFID backup at every LPR lane. VoIP intercom optional.	At the lane

Site requirements

- **Same LAN:** cameras, NVR and lane equipment on one local network.
- **Internet:** site internet to the Parking BOXX gateway and Cloud Controller. See the Cloud Controller and Parking Network sheet.
- **Operators:** a current web browser on any computer, tablet or phone. No software to install.
- **Commissioning:** Parking BOXX sets up the plate lists, read settings and lane rules with the owner.

Data and privacy

- **Retention:** 7 days on the lane machine by default, adjustable; cloud retention set by the owner. NVR video retention is set on the NVR.
- **Access:** the owner sets which staff roles can see LPR data in CloudEASE.
- **Disputes:** images tied to a dispute can be held.
- **Less data:** plate-only images can be set per site. See the LPR Data and Privacy guide.

Coordination checklist

Who	Provide
Network / IT	Site internet to the Parking BOXX gateway. Cameras, NVR and lane equipment on the parking LAN.
Owner	Plate lists (monthly, staff, permits), rates and user roles. Retention days and image option per site.
Owner / counsel	An LPR usage and privacy policy, and entrance signs where the law requires them.
Signage	A sign at each LPR lane telling drivers to take a ticket or use their card if the gate doesn't open.
Enforcement (ungated)	The owner's enforcement provider, connected by API where pay by plate is used without gates.

Specification language: Provide Parking BOXX LPR-110 license plate recognition software with LPR-120 cloud hosting, integrated with the CloudEASE parking management software, for the LPR-100 laneway cameras shown. Each plate read shall be checked at the Entry or Exit BOXX against credentials and prepaid reservations set up in CloudEASE, each valid for set dates and times. A valid credential or reservation shall open the gate; for a visitor, the plate shall be linked to the ticket issued and matched to it at exit. If a plate is not read, RFID credentials, QR codes and tickets shall work as normal. The software shall support pay by plate, per-site read accuracy settings, front and/or rear plate reads (one LPR-100 per plate read), plate history and occupancy reports, and browser-based remote management for one or more sites. The owner shall be able to set, per site, image retention (7 days on site by default, adjustable), image upload (hourly, overnight or on request), look-alike character replacement, match accuracy (N-1, N-2) and user roles. Provide a ticket, QR code or RFID backup at every LPR lane.