

LPR is Great! Until it Isn't.

One Failed Read and... **Traffic Stops.**

LPR (License Plate Recognition) cameras offer clear benefits for parking operations, including:

- **Automated plate/vehicle identification.**
- **Faster entry/exit times.**



However, LPR alone falls short in these areas:

- **Reliability Gaps:** Even a 99% read rate - under ideal conditions - means 1 in 100 vehicles needs manual help; real-world factors may drop accuracy even lower, causing delays and frustration that undermine **Parking Made Easy!**®
- **Revenue Risk:** Camera-only systems without barrier gates can lose up to 40% of revenue from unpaid exits, per industry data.
- **Staff Burden:** Human intervention for failures ties up personnel, increases costs, and erodes a seamless parking experience.

Our Recommendation:

A Layered System for Unmatched Reliability & Revenue

Combine kiosks + LPR cameras + intercoms + barrier gates.

This hybrid approach delivers:

- **Near-Perfect Backups:** QR codes or RFID tags for LPR failures.
- **VoIP Intercom Calls:** Assistance is only a button press away.
- **Efficiency Boost:** LPR shines when it works, speeding up high-volume flows.
- **Cost-Effective Resilience:** Adding a kiosk is a rounding error compared to staffing costs or absorbing up to 40% revenue leakage from unpaid exits. The upfront investment prevents ongoing losses and enhances brand trust.

Common LPR Pitfalls

- **Rear Plates, No Plates or Out of State Plates:**

Many U.S. states require only rear plates; even if your state requires rear and front, out-of-state visitors may not. New vehicles often display temporary paper tags, dealer plates, or licenses in rear windows—positions that LPR cameras frequently miss or misread, even with 20+ feet of clearance.

- **Environmental Interference:**

Snow, dirt, damage, glare may obscure plates and low-light may further drop accuracy.



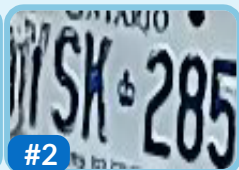
How Parking BOXX Helps

In addition to the AI Camera features, Parking BOXX software allows for further enhancements. In addition to selecting N-1 or N-2 accuracy, common characters groups can further be customized for each site. Example: S/5 may be set up as an authorized group in our algorithm.

- **Character mix-ups:** For example, O/O/Q/D, 1/I/L, S/5 character confusion persists, even with AI—and North America still uses certain letters (e.g., I, O, Q) that are not used in some other countries. N-1 error correction helps but misses multi-character errors.



#1



#2



#3

Sample Read Issues

- #1. B – partially covered by frame – reading as an R
- #2. Y has damage – reading as an I
- #3. has both a 0 and 1 – multi character issues

- **Hardware glitches:** Camera or server failures halt operations entirely.
- **User Unfamiliarity & App Hurdles:** Ticketless systems alienate non-tech users—some drivers struggle with user verification or apps overload. Drivers need a charged phone, strong reception, and patience to complete registration and payment, potentially eroding brand value.

Don't settle for good enough.

Parking Made Easy®

Contact us today to explore a customized solution!