PlateKey Reader

Edge-Processed Vehicle Access

LIGHTNING-FAST ACCESS. DEEP CLOUD INTELLIGENCE.

- **100% Edge Processing:** Onboard ALPR performs all four critical steps locally (detect, parse, compare, and trigger relay) in under half a second.
- **Massive Local Database:** Stores up to 50,000 enrolled license plates directly on the device, remaining fully operational even during network outages.
- **Zero-Server Architecture:** Connects securely to the AWS IoT cloud. No on-site NVRs, DVRs, or local servers are required to operate.
- **Visual Audit Trail:** Captures a high-resolution 1080x1920 snapshot of every vehicle entry event, regardless of whether access was granted or denied.
- **Cloud AI Search:** Advanced backend AI allows facility managers to search events by specific vehicle attributes (e.g., "blue sedan between 2:00 PM and 5:00 PM").
- **Secondary Verification:** If a plate is not found in the local memory, the cloud performs an instant secondary check for advanced time-restricted access logic.

KEY DEPLOYMENT ATTRIBUTES

Edge Processing | < 0.5 Sec Read Time | 50,000 Local Plates | 1080p Image Capture | Cloud AI Search

Deployment advantages

- **Plug and play connectivity:** Zero local IP configuration required. Supply power and an internet connection, and the device automatically connects to the EntryOne AWS cloud.
- **Immune to network latency:** Because the database and the mechanical relay are onboard, internet speed hiccups will never cause vehicle pile-ups at the gate.
- **Flexible communications:** Connect via standard Ethernet, or bypass local IT entirely by deploying an EntryOne-supplied 4G LTE integrated router.
- **Self-managed credentials:** Property managers and approved residents can easily add or revoke a license plate through the cloud portal in under 30 seconds.

Advanced verification

- **Integrated gate relay:** A built-in dry contact connects directly to the gate operator for secure, latency-free opening upon a successful plate read.
- **Cloud AI integration:** Snapshots are pushed immediately to the cloud, allowing the system to utilize powerful vehicle attribute recognition and visual tracking.
- **Off-grid readiness:** Ideal for remote perimeter gates, the PlateKey can be paired with our 4G LTE link and a solar power kit—requiring zero wired infrastructure.
- **Front or rear plates:** Designed to read standard vehicle plates. Rear targeting is recommended to take advantage of the vehicle's built-in plate illumination.

Technical specifications

FORM FACTOR	Edge-processed Automatic License Plate Reader (ALPR) with onboard access control logic
READ SPEED	< 0.5 seconds (detect, parse, compare, and trigger)
LOCAL STORAGE	Up to 50,000 license plates stored locally for immediate processing
IMAGE CAPTURE	1080x1920 high-resolution snapshot captured on every vehicle detection event
CLOUD INTELLIGENCE	Immediate snapshot upload to AWS IoT Core for AI attribute searching and secondary verification
SYSTEM CONNECTION	RJ45 Ethernet (for internet data link)
REMOTE CONNECTION	Compatible with optional EntryOne-supplied 4G LTE cellular router
POWER INPUT	12V DC input required
ALTERNATIVE POWER	Fully compatible with off-grid 12V solar power deployment kits
RELAY OUTPUT	Integrated dry-contact gate trigger (COM / NO) located directly on the reader control board
OPERATING ENVIRONMENT	Outdoor rated camera enclosure. Aimed at vehicle approach lanes (rear plate targeting highly recommended)

Deployment notes

- **Rear-plate targeting:** For the highest accuracy and performance, aim the camera at the departing vehicle's rear plate. This takes advantage of the vehicle's built-in plate illumination and generally yields more consistent reads than front plates.
- **Trigger zone tuning:** No physical optical zoom or complex lens alignment is required. Installers simply log into the local interface to draw a blue boundary box, limiting the trigger area to the drive lane to exclude parked cars.
- **Fallback entry methods:** If a vehicle approaches without a valid, readable front plate, residents can effortlessly bypass the LPR by using an EntryOne BLE tap-to-open smartphone credential or PIN code at the primary entry pedestal.
- **Zero cloud setup:** Devices arrive pre-provisioned. Once 12V power and internet (via Cat6 or 4G router) are supplied, the reader automatically links to the EntryOne portal and syncs its local database without any IP networking configuration.

Installation Note: System installation must comply with all applicable local codes. PlateKey is a camera-only edge processing device relying on external networking solutions and does not inherently broadcast Wi-Fi or cellular signals. Gate automation integration remains the responsibility of the system installer.