B BYON TECH

LICENSE PLATE RECOGNITION

Beyond offers an automatic license plate capture and interactive vehicle monitoring application. It can log all traffic movements, perform real-time database checks and alerts as well as instantly transmit vehicle data to the Beyond Cloud backend.

KEY CAPABILITIES AT A GLANCE

- One Centralised Cloud Management
- Realtime Capture of Key Vehicle Attributes
- Vehicle Whitelist/Blacklist for Easy Verification
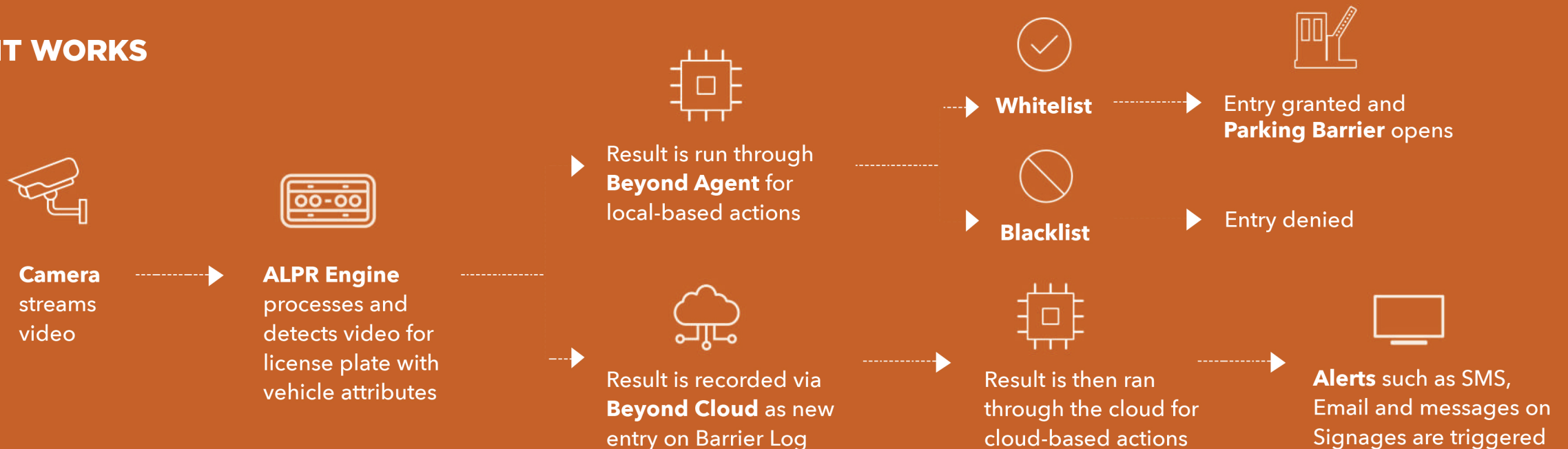- Quick Deploy of Personnel via Case Management
- Realtime Log of Vehicle Plates Entering/Exiting Premises
- Customise Alerts/Actions via Smart Rules for Designated Vehicles

HOW IT WORKS

Camera streams video → **ALPR Engine** processes and detects video for license plate with vehicle attributes

→ **Result is run through Beyond Agent** for local-based actions
→ **Whitelist** → Entry granted and **Parking Barrier** opens
→ **Blacklist** → Entry denied

→ Result is recorded via **Beyond Cloud** as new entry on Barrier Log → Result is then ran through the cloud for cloud-based actions → **Alerts** such as SMS, Email and messages on Signages are triggered

FEATURES

Barrier Control	Open and close barriers based on whitelist or blacklist
Agent Service	Able to use control barrier using local/public network
Centralised Cloud Management	Provide centralised management control to all agents at different locations
Direction Analysis	Detects the direction of vehicle travelling
Remote Synchronisation	Synchronize vehicle list access to barriers from the cloud
Matching Rules	Customise algorithm to detect exact/partial match of the license plates
Vehicle Attributes	Provides vehicle make, colour and body type for cars with clear image system to convert.
Detectable Vehicle Types	Cars, Trucks and Motorcycle License Plates

Camera Compatibility	ONVIF Compliant cameras, H264 and H265 through RTSP
Province Recognition	Thai province recognition on license plates
Open Integration	Able to provide JSON, REST and MQTT integration to third party systems
Whitelist & Blacklist Alerts	Able to provide blacklist and whitelist alerts and integrations
Searchable Vehicle Database	Advanced searches based on full or partial plate numbers and vehicle attributes
Excel Export	Vehicle results exportable in Excel format with images
Worldwide Support	Plate recognition is available in over 70 countries and growing
Supported Server OS	UBUNTU LTS / WINDOWS

FEATURES

Easy Install — Detect license plates without installing special equipments

High Speed Detection — Detects license plates at high speeds up to 120 kilometers per hour

Database Integration — Easily integrate plate recognitions and images to a database

Weather Conditions — Depending on camera can detect plates in day, night and rainy conditions

Wide Angles — Supports wide angles view of license plates

Custom Configurations — Able to adjust the angle and area of detection on cameras

Check Status — Allows for watchdog function to check on status of plate recognition system

Different Plate Sizes — Can detect plates of different sizes even if not standard

Plate Images — Save only license plate images and not just the entire picture

Searchable — Plate data is searchable on remote system and database when integrated. Searchable by location nearby, category, date, time and time-range

SITE REFERENCE: THAI PBS

BEYOND License Plate Recognition is used in Thai PBS in Thailand for recognition of staff license plates to allow access to their parking lots.

The system processes over 1,000 vehicles a day across 4 cameras in the Thai PBS headquarters and has been in use since 2019.

SITE REFERENCE: LOXLEY BUILDING

BEYOND License Plate Recognition is used in Loxley Building in Thailand for recognition of staff license plates to allow access to their parking lots.

The system processes over 500 vehicles a day across 4 cameras in the Loxley headquarters and has been in use since 2018.
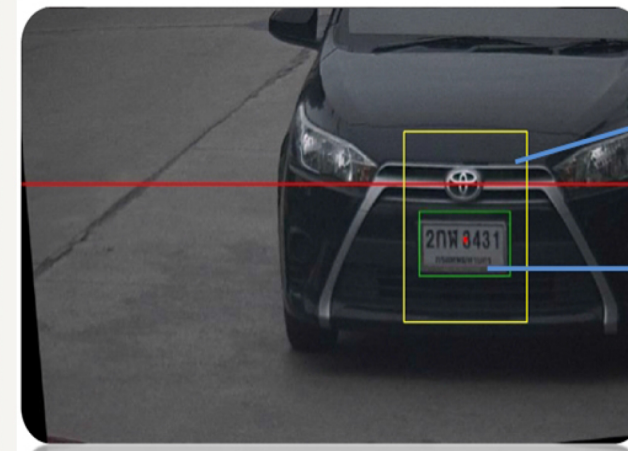

Plate Number

Province

SITE REFERENCE: PRUKSA

BEYOND License Plate Recognition is used in Pruksa Condomimiums in Thailand for recognition of resident license plates to allow access to their parking lots.

The system has so far processed over 200,000 vehicles detections since 2019.

PRUKSA

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CAM 1

SITE REFERENCE: ROYAL THAI

Beyond powered the license plate recognition for Police Region 5 in Chiang Mai for their mobile command center and Smart City initiative.

The LPR engine powers mobile cameras on vehicles, city-wide cameras and IP Cameras through 4G and has been implemented since 2020.

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