Auto*Pass* India

Complete Parking Solutions

What is an ALPR System?

An Automatic License Plate Reader (ALPR) is an image-processing technology used to identify vehicles by their license plates.

It is a special form of OCR (Optical Character Recognition) where algorithms are employed to transform the pixels of the digital image into the text of the number plate. Systems commonly use infrared lighting to allow the camera to take the picture at any time of day.

Auto*Pass* India's proprietary ALPR systems can identify license plates of moving or stationary vehicles. It can detect the license plate in a given image/video stream & recognize characters (alphanumeric / special) of the license plate for further processing of the information.

Features:

- Standalone easy to install and maintain.
- Detects and reads license plates automatically, round the clock in real-time.
- High accuracy for heterogeneous number plates
- Vehicle Speeds up to 120km/hr.
- Simultaneous Multi-Lane processing
- Works for all alphanumeric based license plates, special characters license plates etc.
- Invariant to character/license plate size
- Open system architecture, integrates seamlessly with third party application
- Driver camera support
- Integrated Video Management Module (continuous videos also can be recorded)
- On event recording of vehicle and driver camera
- Alert list with user customizable category (Stolen, Wanted, Suspicious etc...)
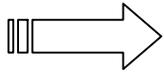

Applications:

- Intelligent transportation systems
- Automated vehicle entry & exit in parking and security zones.
- Photo enforcement
- Security monitoring
- Toll monitoring
- Travel time analysis
- Tax collection

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ALPR Specification:

Configuration:
ANPR Cameras : Up to 16
Driver / Overview Cameras: Up to 32
Architecture : Network
Operating System : Windows

Recognition (OCR):
Technology : Proprietary
Max Vehicle Speed : 40 kmph, (Optional 100 kmph)
Plate Detection Accuracy : >99% (Standard Plates) : >95% (Normal Plates)
Recognition Accuracy : >95% (Standard Plates) : >70% (Normal Plates)
Automatic image trigger : Yes
External trigger : Yes
Square number plates : Yes
Inverse number plates
(White character on black) : Yes
International plates : Yes

Alerting:
Category : Stolen, Suspicious, Wanted
Custom Category : Yes

Database:
Server : Sql Express
Interface with external db : Yes

Image Recording:
Number plate capture : Yes
Driver photo capture : Yes (Optional)
Vehicle overview capture: Yes (Optional) Video
Sequence : Yes
Inbuilt NVR : Yes
Video play back :Yes

Hardware Support:
Barrier control : Yes (optional)
Message sign interface : Yes (optional)
Synchronized time : Yes (optional)
GPS position : Yes (optional)
SMS alerts : Yes (optional)
Proximity reader integration: Yes (optional)

System & Data security:
User log-on and user rights : Yes
Audit trail : Yes
Encrypted records : Yes
Watermarked images : Yes
System diagnostics : Yes

IP Camera Specification:

System:
Image Sensor : Progressive, CMOS, 1/3",3M Pixels
Min. Lux : Color: 0.1Lux/F1.2, B/W:0.01Lux/F1.2
WDR : >90dB
SNR : >40dB
Auto Electronic Shutter : 1/5 sec to 1/50,000 sec
Lens : Varifocal 2.8-12 MM (Std) /5-50 mm (Optional)

Compression Standard:
Video Compression : H.264/MJPEG
Bit Rate : 64Kbps-12Mbps, User-defined
Audio Compression : G.711

Image:
Max. Size : 2048×1536
Resolution & Frame Rate : 20fps (2048×1536), 30fps (1600×1200), 30fps (1920×1080), 30fps (1280×720)

Function:
Storage : ---
Network Protocol : HTTP, DHCP, UDP, RTP/RTSP
Access Protocol : ONVIF, PSI

Interface:
Audio Input : ---
Audio Output : ---
Network Interface : RJ45-10/100Base-TX FAST Ethernet, RS-485
Alarm Input 1
Alarm Output 1

Others:
Operating Temp.
& Humidity : -10°C~+50°C 30%~90%RH
Power Supply : DC12V/5A
Power Consumption : Max. 10W