*iRecord License Plate (iVEE-102AHD)

AI-based ANPR for Industrial and Law Enforcement Use

iRecord iVEE-102AHD is a standalone License Plate Recognition (LPR) appliance that employs Streaming Networks' deep neural network based Optical Character Recognition (OCR) and proprietary image signature matching technology for reading standard and non-standard license plates of vehicles. The system accurately reads retro-reflective and non-reflective license plates of USA, Canada, India, Mexico, UK and EU, during day and night operations. This system can be deployed both for law enforcement and security/surveillance purposes as well as industrial automation on shipping/receiving.

Multiloop plate capture per appliance
The system can handle up to two independent multilane LPR channels, with each channel supporting up to two HD IP cameras of 1080P resolution for plate capture and driver image. Plate overview and driver images are captured in high resolution.

Edge and remote data storage
The license plate number, plate image, driver image, and DOT COM data is stored on internal SSD in SQLite database format. This data in parallel can be sent to SN's iRecord Data Server (iDS) or a 3rd party Video Management Systems such as BOSCH BVMS, GENETC SQL, Microsoft SQL, Vigilant LEARN, and Cisco® Kinetic.

Web interface
LPR appliance can be accessed remotely using a web browser. GUI is designed to be suitable for smart phones, tablets and desk top PCs. Access to the unit can be either as an administrator or a user.

WiFi connectivity
Built-in WiFi allows easy and secure access to the appliance for camera installation and monitoring when LPR appliance is used in mobile mode. For fixed installation, it could also eliminate the need for a truck roll-in to restart or power cycle the appliance.

Captures all types of vehicles
The LPR appliance accurately captures standard and non-standard plates mounted on all sorts of vehicles including 3-wheelers, 4-wheelers and large trucks.

Robust design
Single-purpose, in-field upgradable firmware running on a rugged standalone field-tested hardware of small form-factor, and designed as an appliance.

Video snip per plate capture
The LPR appliance records a 6 to 8 seconds video for each vehicle appearing in the field of view of the camera when appliance is configured in LPR (Video) mode. These recorded snips can be used to cross check the OCR reads and account for all the traffic. Video snips stay on the local storage SSD and can be downloaded on demand.

Video surveillance
The LPR appliance can also be used as a video surveillance system when configured to record video. Plate camera or driver view camera is recorded on the appliance's internal storage in high resolution either continuously or based on an event vehicle arrival. Video can be searched based on events and time.

Plate Search
A plate can be searched by plate number, time stamp and camera name. An incomplete or a partial plate number can also be searched using a wild card.
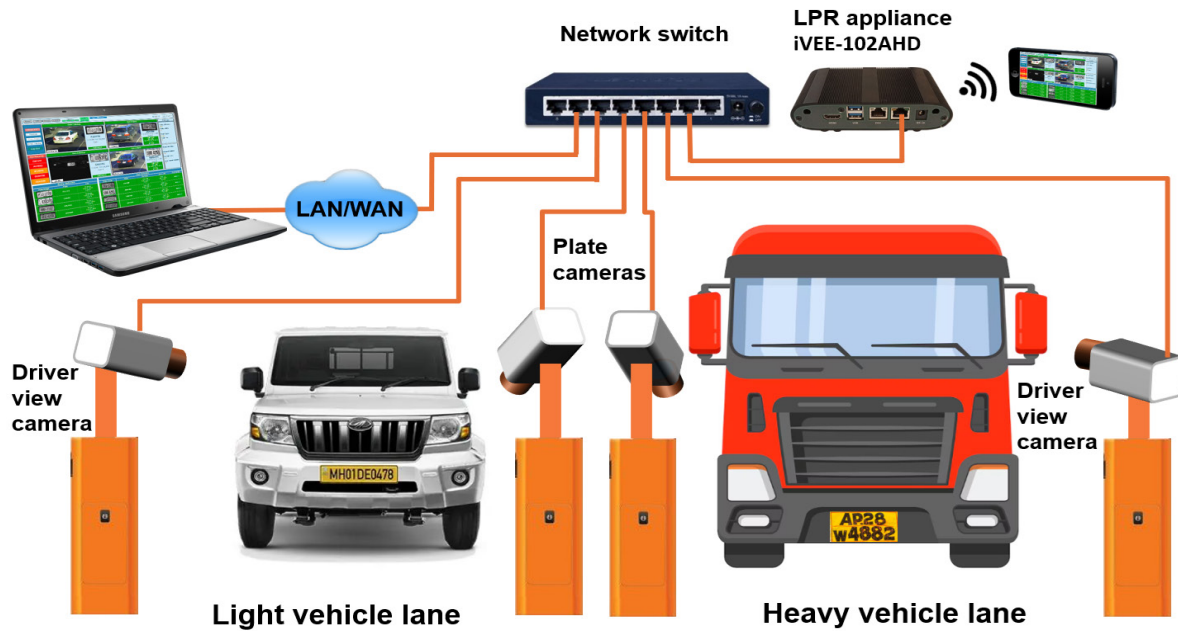
Recognizing severely damaged plates
The LPR appliance supports a proprietary image signature matching feature specially developed to recognize severely damaged and accidented plates. It matches these plates with reference images in a white list and corrects reading error if any.

Hot plate alerts
Supports hot list feature to alert security personnel upon arrival of flagged vehicles. Has provision to send alerts as e-mail or SMS notifications. Partial or fuzzy search option gives you matching numbers with single error (extra character, missing character or single letter mismatch).

AI-based Multilane License Plate Reader

Network switch

LPR appliance iVEE-102AHD

LAN/WAN

Plate cameras

Driver view camera

MH01DE0478

Driver view camera

AP28 w4882

Light vehicle lane

Heavy vehicle lane

Supported LPR Cameras

| NBE 7702 Bullet 2MP | NBE 7702 Bullet 4MP | Bosch 8000i |

Patent Pending: iRecord License Plate vehicle control system iVEE-102AHD is protected by Patent pending that covers real-time implementation aspects of vehicle and license plate recognition, database search enhancements, simplified operator interface, and capturing video clips of read, unread and unrecognized license plates.

SPECIFICATIONS

No. of LPR channels	Two 720P or 1080P high-definition channels
No. of traffic lanes	Single and two-lane bidirectional traffic
Supported license plates	Retro-reflective and non-reflective license plates
Plate reading rate	One plate per second
Video recording	Continuous and event-based video recording in H.264 format
Hot list support	Real-time searching of up to 1 million plates for exact, partial or fuzzy matches
Image signature-based whitelist	Up to 500 images for matching damaged or accidented plates
Communication	WAN support
Email notification	Email and SMS notification of hot plate alerts with snapshot of hot plate image and number
Video trigger	Video signal-based license plate detection, no external triggers required
Supported LPR camera type	Progressive scan color/IR IP based camera with IR 850nm, 940nm illumination
Capture range	25-80 feet depending on lens zoom
Data storage	Built-in SSD (up to 1TB) and remote storage server
System power input	12 V DC
Maximum power consumption	8 Watt (excluding camera)

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