V series **IB9387-LPR**

V series **IB9387-LPR-W**

License Plate Recognition Camera

Embedded LPR Software • Wiegand Protocol Supported •
Widely Supported Countries List • IP66 • IP67 • IK10

VIVOTEK's IB9387-LPR Series camera is a standalone LPR camera system, featuring built-in license plate recognition software as well as a white-lists and black-lists for advanced license plate verification. It converts number plates into Wiegand signals for use with an access control system, and also offers various APIs for integration with 3rd party systems such as parking management, toll collection, and weighbridge systems. The system is ideally applied for parking access control and Stop & Go toll systems.

Key Features

· Embedded Access Control Application Based on LPR Software
· Supports License Plates from over 70+ Countries
· Black and White Lists for License Plate Verification
· Centralized List Management in Single Camera
· Fully Integrated with VAST 2
· Various Open APIs Available for 3rd Party Integration
· Trend Micro IoT Security
· Supports Wiegand Protocol for Access Control Applications
· Supports Hazard ID Recognition
· Weather-proof IP66, IP67 and Vandal-proof IK10-rated Housing
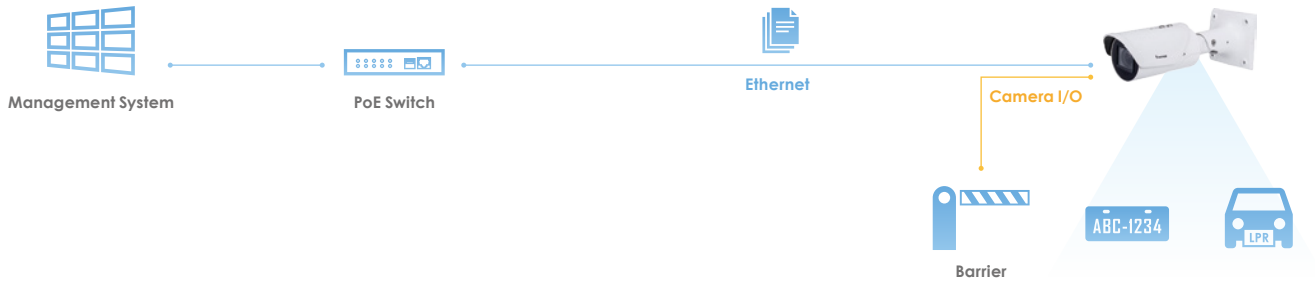
Vehicle Access Control
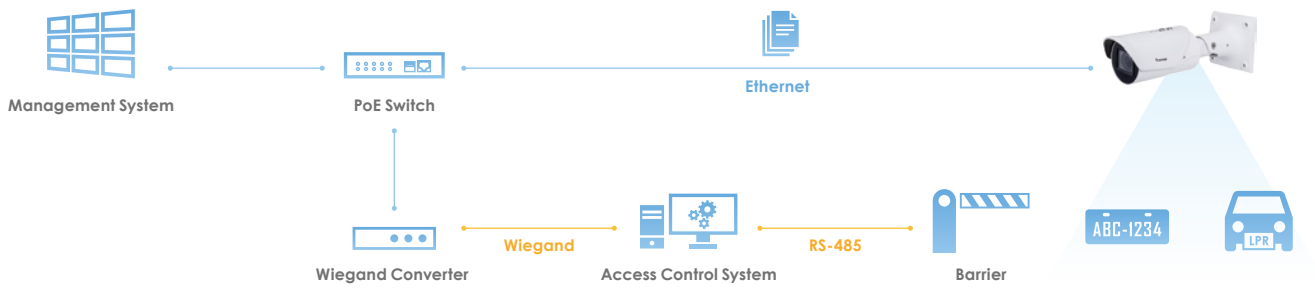
Stop & Go Toll Collection

Functions

Supported Both Simple and Complex Scenarios

The IB9387-LPR Series camera can work as an embedded access control application based on LPR software. It can trigger digital output device on this camera when a number plate is recognized and matched the data in list such as white list. This IB9387-LPR Series camera can convert number plates into Wiegand signals to work with access control system.
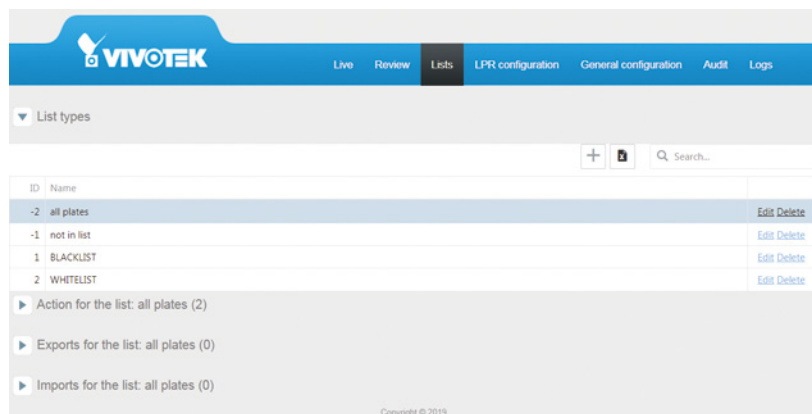
Simple Scenario

Management System	PoE Switch	Ethernet	Camera I/O
			Barrier

Complex Scenario

Management System — PoE Switch — Ethernet

Wiegand Converter — Wiegand — Access Control System — RS-485 — Barrier

Built-in White List, Blacklist, All plates and Not In List For Number Plate Verification

Users can manage license plate lists for various purposes, such as a white list that triggers a welcome message, a black list that triggers an alarm, and an all plates list for access control management. Multiple lists are supported, with no limit on the number of supported license plates.
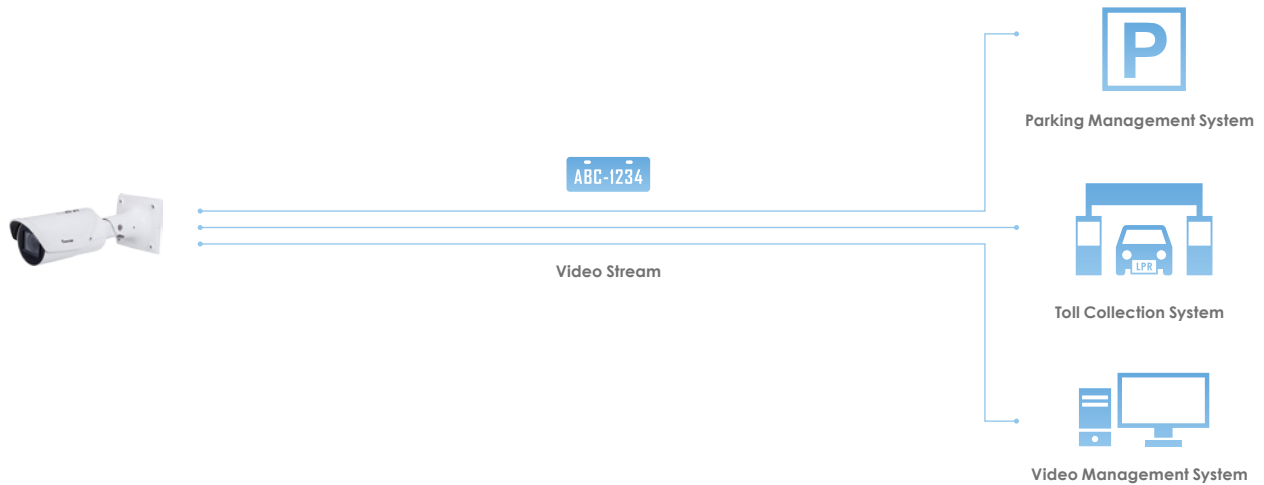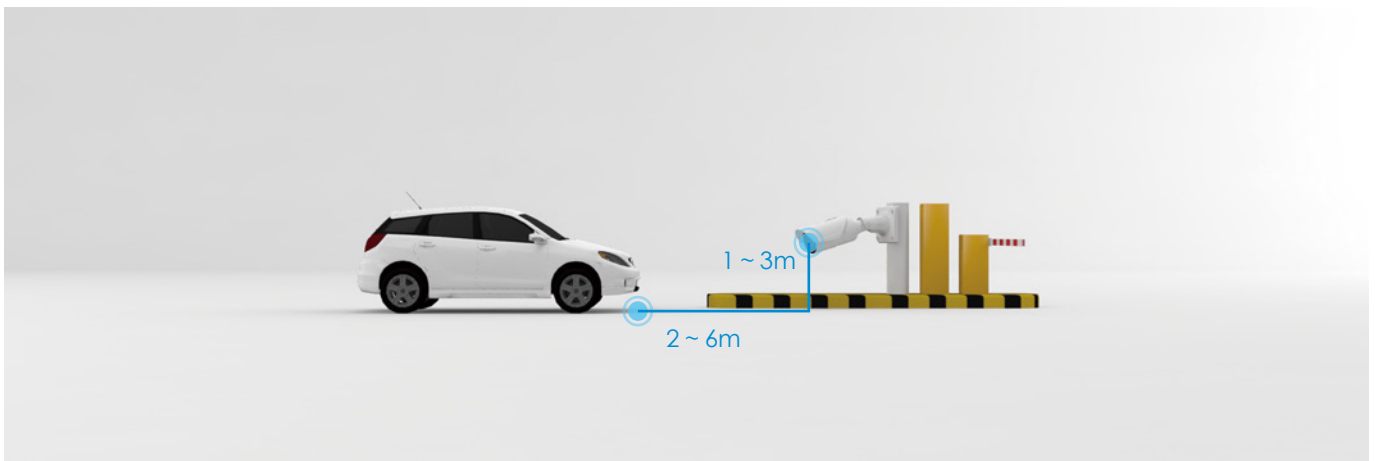

User Interface of List Management

Functions

Easily Integrated with 3rd Party Systems

This IB9387-LPR Series camera can export all license plate recognition results and the related LPR events. It can be easily integrated with 3rd party systems, such as parking management systems, toll collection systems or weighbridge management systems, by sending XML or JSON messages.

ABC-1234

Parking Management System

Video Stream

Toll Collection System

Video Management System

Suggested Installation

Installation Height: 1 ~ 3 m
Installation Distance: 2 ~ 6 m
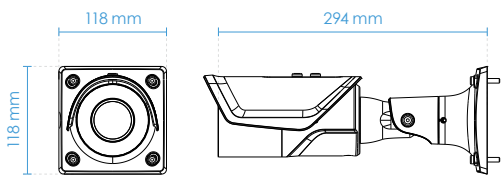
1 ~ 3m

2 ~ 6m

Contact your VIVOTEK regional sales manager or send mail to lpr@vivotek.com for any questions.

Technical Specifications

Model	IB9387-LPR IB9387-LPR-W

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	256MB
RAM	1GB

Camera Features

Image Sensor	1/2.7" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f = 2.7 ~ 13.5 mm
Aperture	F1.4 ~ F2.8
Iris type	P-iris
Field of View	30° ~ 100° (Horizontal) 23° ~ 72° (Vertical) 38° ~ 135° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
IR Illuminators	IB9387-LPR: IR LED*4 IB9387-LPR-W: 6100K White LED*2
Minimum Illumination	0.06 Lux @ F1.4 (Color) <0.01 Lux @ F1.4 (B/W)
Pan Range	350°
Tilt Range	90°
Rotation Range	180°
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
On-board Storage	Built-in 16GB MicroSD card for LPR images Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording

Video

Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2560x1920 30 fps @ 2560x1440 60 fps @ 1920x1080
Maximum Streams	3 simultaneous streams
S/N Ratio	50 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and bitrate, Smart Stream III

Image Settings	Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; Scheduled profile settings, video rotation, 3DNR, DIS, HLC, defog

Audio

Audio Capability	Two-way Audio (full duplex)
Compression	G.711, G.726
Interface	External microphone input External line output

Network

Users	Live viewing for up to 10 clients
Protocols	802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP
Interface	10 Base-T/100 Base-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Supported, specification available at www.onvif.org

Intelligent Video

Video Motion Detection	Five-window video motion detection
Embedded Software	VIVOTEK ANPR
VADP	Genetec package, Trend Micro IoT Security

Alarm and Event

Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)
Alarm Events	Camera: Event notification via digital output, audio clip, email, HTTP, FTP, NAS server, SD card, push notification File upload via email, HTTP, FTP, NAS server, SD card ANPR Software: Socket client, socket server, onvif event, digital output trigger, HTTP, FTP, send event to Milestone VMS, send event to Wiegand middleware board

General

Connectors	RJ-45 cable connector for 10/100Mpbs Network/PoE connection Audio input Audio output AC 24V power input (optional) DC 12V power input Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 0 AC 24V (optional) DC 12V (Redundant Power)

Technical Specifications

Power Consumption	PoE: Max. 12 W AC 24V: Max. 11.5 W DC 12V: Max. 10 W	Web Browser	Chrome 58.0 or above Internet Explorer 10/11
Dimensions	118 x 118 x 294 mm	Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
Weight	1,254 g	**Included Accessories**	
Casing	IP66, IP67, IK10 (Metal Housing)	Others	Quick installation guide, warranty card, screw pack, alignment sticker
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL, EN50121-4	**Dimensions**	
Operating Temperature	Starting Temperature: -10°C ~ 60°C (14°F ~ 140°F) Working Temperature: -30°C ~ 60°C (-22°F ~ 140°F)		
Humidity	90%		
Warranty	36 months		
System Requirements			
Operating System	Microsoft Windows 8/7 Mac 10.12 (Chrome only)		

118 mm   294 mm

118 mm

Compatible Accessories

Mounting Kits	Power Adapter	
AM-719 Junction Box	AM-312 Pole Mount Adapter	AM-412 Corner Mount Adapter