3 year warranty

IP816A-LPC
License Plate Capture Solution

2MP · 3DNR · Remote Back Focus · EIS · P-iris · 60 fps · Snapshot Focus · Corridor View

Overview

VIVOTEK IP816A-LPC represents a total solution for LPC (License Plate Capture) applications by leveraging the top-notch quality and traffic monitoring ability of the IP816A-HP. With the adoption of built-in corresponded IR LEDs and an IR pass filter, the IP816A-LPC delivers clear license plate images for reliable recognition, in both the highest levels of glare, and in the darkest hours of the night.

Empowered with VIVOTEK Scene Mode, which provides different exposure levels to avoid overexposure in some lighting conditions, the IP816A-LPC can capture clear plate images from the vehicles moving at speeds of up to 80km/h.

Value-added features such as EIS (Electronic Image Stabilization) and VIVOTEK Snapshot Focus ensure that the IP816A-LPC can be easily installed and adjusted to provide the perfect LPR solution. Further, with the high-resolution images supporting a wide range of up to two lanes, the IP816A-LPC is also the most economic solution in LPR applications.

Meanwhile, the IP816A-LPC is also integrated with Overseer LPR software, developed by VIT Company, one of the world's most renowned LPR software manufacturers. This synergy further empowers the IP816A-LPC to capture license plate images for any LPR application.

License Plate Recognition

Highlights

· VIVOTEK Scene Mode Design and IR LED for Specific LPC Applications

· Dedicated Design Provides Stable and Reliable 24/7 & Day/Night Performance for Traffic Monitoring

· Specific Exposure Design to Avoid Overexposure and Glare

· Wide Coverage for Dual Lanes to Save Overall Installation Cost

· Value-Added features including VIVTOTEK Snapshot Focus, RBF and EIS to support traffic monitoring applications

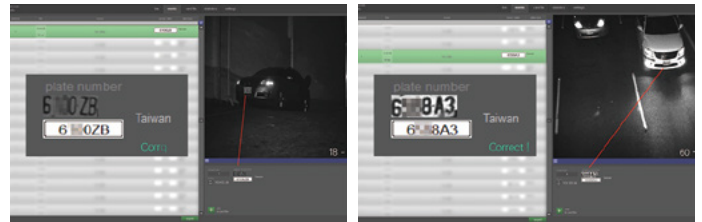· Vandal-Proof IK10-rated and Weather-Proof IP66-rated Housing

Network Camera Features

· 2-Megapixel CMOS Sensor

· 30fps @ 1920x1080
  60fps @ 1920x1080 (one-stream mode only)

· P-iris Lens

· 3D Noise Reduction for Low-light Conditions

· WDR Pro (100dB) to Provide Extreme Visibility in High Light Contrast Scenes

· RBF (Remote Back Focus) System to Assist for Precise Focus Adjustment

· EIS (Electronic Image Stabilization) to Control Image Stability

· Two-way Audio, Snapshot Focus and Video Rotation for Corridor View

Night Image Capturing Design

Capturing images at night is a challenging issue for any surveillance application, but for License Plate Capture applications the challenge is even greater due to noise and glare caused by the headlights of cars. The IP816A-LPC is equipped with 24W IR LEDs and a delicate IR Pass Filter, which help to filter out reflected light and only capture detailed information from the plates. Moreover, the IR threshold is also programmed to deploy the IR LED automatically to ensure 24/7 & Day/Night performance.
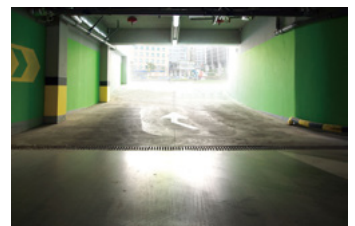

Clear Image Captured with IR LEDs and IR Pass Filter

Selectable LPC Mode for different LPR applications

To save on installation effort and expense when adjusting cameras for optimal LPC image quality, VIVOTEK's Scene-Mode Design includes an LPC mode, which optimizes the shutter speed and AE setup, providing a clear image of plates for positive plate recognition.
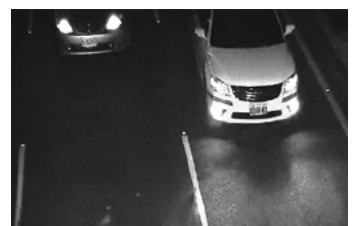

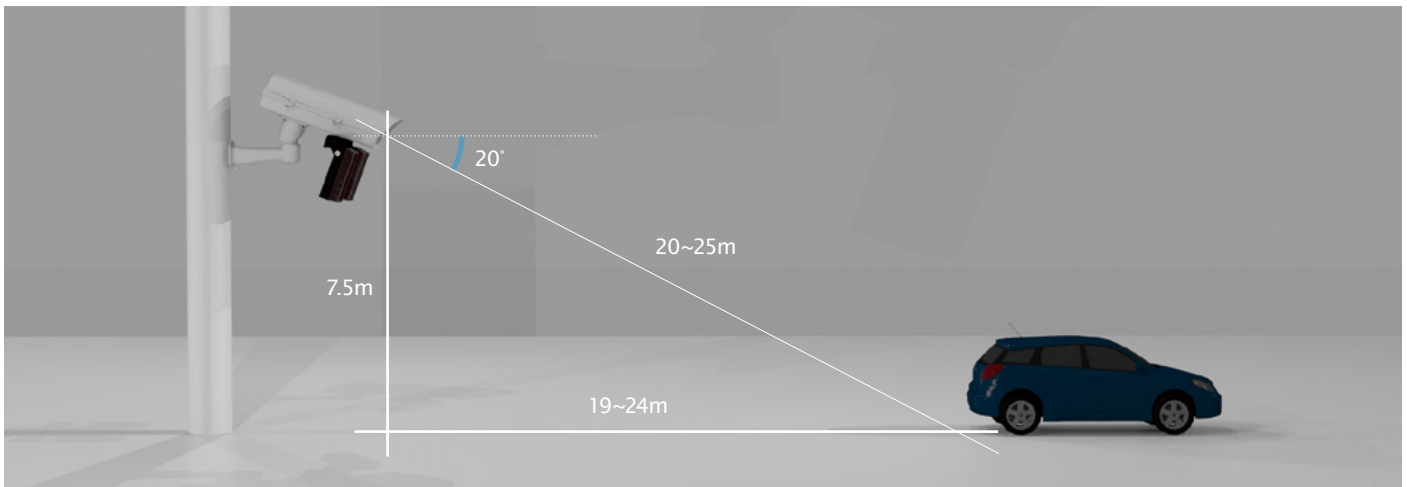Street   Parking Lot

One Camera to Cover Dual Lanes

The high image quality of the IP816A-LPC ensures wide coverage of two lanes with one Camera, whether used for street monitoring or for parking lot monitoring. With a single IP816A-LPC covering dual lanes, the total cost of traffic monitoring will be reduced.
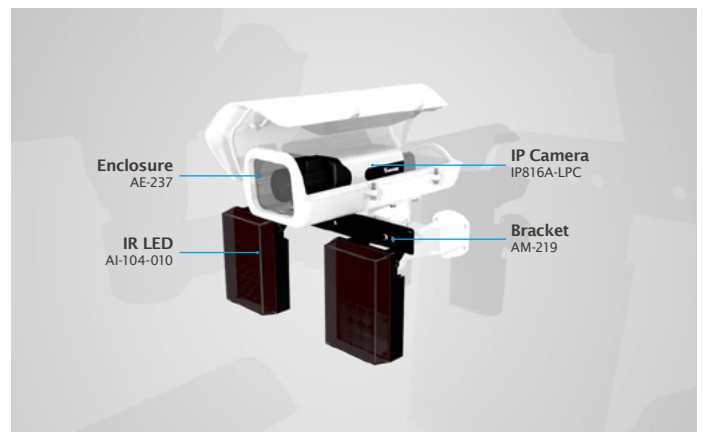

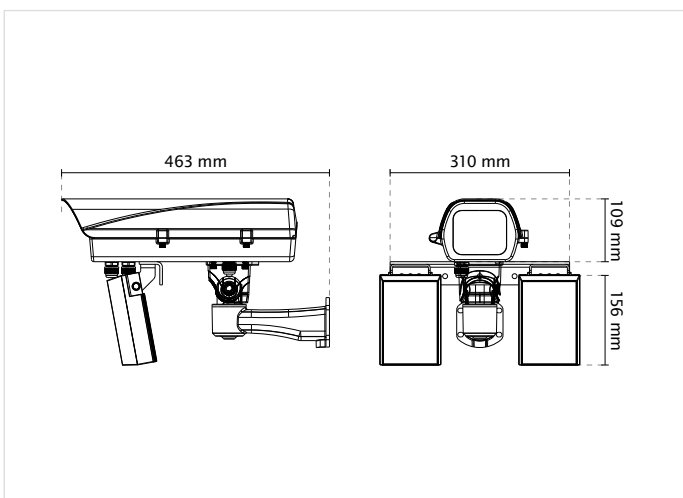Wide Coverage of Dual Lanes

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Suggested Installation

20°

20~25m

7.5m

19~24m

Ordering Information

IP816A-LPC (Street)		
Category	Model	Description
IP Camera	IP816A-LPC	2MP, 60fps, WDR Pro, Remote Back Focus, 3DNR, EIS, Snapshot
IR LED	AI-104-010	-40˚C ~ 50˚C, 24W IR LED, 10˚, 100m, IK10, IP66, 12~24VDC or 24VAC in
Enclosure	AE-237	Outdoor enclosure with -20˚C ~ 50˚C, Defog, Fan, 24V AC in
Bracket	AM-219	L shape bracket

Enclosure AE-237

IP Camera IP816A-LPC

IR LED AI-104-010

Bracket AM-219

Mechanical Information

463 mm

310 mm

109 mm

156 mm

Accessory Options

Enclosure

AE-241 Outdoor enclosure with 0˚C ~ 50˚C, 50 m IR, Defog, Fan, UPoE in

AE-242 Outdoor enclosure with -40˚C ~ 50˚C, 50 m IR, Defog, Fan, UPoE in

Fiber Media Converter

AW-IHS-0200 Industrial FE Media Converter SC Multi-Mode 2 km

AW-IHS-0201 Industrial FE Media Converter SC Single-Mode 30 km

IR LED

AI-104-035 -40˚C ~ 50˚C, 24W IR LED, 35˚, 25m, IK10, IP66, 12~24V DC or 24V AC in

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LPC Solution - Technical Specification

Model	IP816A-LPC (Street)	IR Illuminators	24 W, 10˚ x 2
IR Threshold	IR on: 300 Lux IR off: 600 Lux	Capture Range	Up to 20 m
		Capture Speed	Up to 80 km/h

Network Camera - Technical Specifications

CPU	Multimedia SoC (System-on-Chip)	Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/ RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP
Flash	256 MB		
RAM	384 MB	Interface	10Base-T/100BaseTX Ethernet (RJ-45) *It is highly recommended to use standard Cat. 5e & Cat. 6 cables which are compliant with the 3P/ETL standard.
Camera Features			
Image Sensor	1/1.9" Progressive CMOS		
Maximum Resolution	1920x1080 (2MP)	ONVIF	Supported, specification available at www.onvif.org
Lens Type	Vari-focal	**Intelligent Video**	
Focal Length	f = 12 ~ 40 mm	Video Motion Detection	Triple-window video motion detection
Aperture	F2.36 ~ F2.44	**Alarm and Event**	
Auto-iris	P-Iris	Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, IR Status
Field of View	10.2˚ ~ 30˚ (Horizontal) 8˚ ~ 22˚ (Vertical) 12˚ ~ 38˚ (Diagonal)		
Shutter Time	1/800 sec. to 1/10,000sec.	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
WDR Technology	WDR Pro (Default: Off)		
Day/Night	Removable IR-cut filter for day & night function		
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	**General**	
		Smart Focus System	RBF (Remote Back Focus)
On-board Storage	SD/SDHC/SDXC card slot	IP Camemra Connectors	RJ-45 for Network/PoE connection Audio input/output BNC Video output AC 24V power input Digital input*3 Digital output*1
Video			
Compression	H.264 & MJPEG		
Maximum Frame Rate	30fps @ 1920x1080 60fps @ 1920x1080 (In one-stream mode only) (In both compression mode)		
		LED Indicator	System power and status indicator
		Power Input	AC 24V
Maximum Streams	2 simultaneous streams	Power Consumption	Max. 77.4W (AC 24V)
S/N Ratio	50.8 dB	Weight	5,222g
Dynamic Range	100 dB	Housing	IP66, IK10
Video Streaming	Adjustable resolution, quality and bitrate	Safety Certifications	IP Camera : CE, LVD, FCC Class B, VCCI, C-Tick, UL
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 3D noise reduction, EIS, video rotation, snapshot focus, scene mode	Operating Temperature	Starting Temperature: 0˚C ~ 50˚C (14˚F~ 122˚F) Working Temperature: -10˚C ~ 50˚C (-4˚F~ 122˚F) Humidity: 90%
		Warranty	36 months
Audio		**System Requirements**	
Audio Capability	Two-way audio (full duplex)	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Compression	AAC, G.711, G.726	Web Browser	Mozilla Firefox 7 ~ 10 (streaming only) Internet Explorer 7/8/9/10/11
Interface	External microphone input Audio output		
Network		Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
Users	Live viewing for up to 10 clients		

IR LED - Technical Specifications

Model	AI-104-010	Operating Temperature	-40˚C ~ 50˚C (-40˚F ~ 122˚F)
Max. Distance	100 m	Color	Black
Beam Angle	10˚	Wavelength	850nm
Input Power	24V AC 12 to 24V DC	Dimensions	157 x 105 x 80.62 mm
		Included Accessories	U-bracket
Power Consumption	24W	Certifications	CE, FCC, VCCI, C-TICK
Weight	0.85 kg	Integrated Control	Built-in photocell for automatic IR on/off
Housing	IP66, IK10		