IP816A-LPC Kit

License Plate Capture Solution

Dual Lanes · Headlight Filter · 60MPH (90KM/H) · Scene Overview · Recognition Distance 20M · Remote Back Focus · EIS

VIVOTEK IP816A-LPC Kit 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 Kit 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 Kit can capture clear plate images from the vehicles moving at speeds of up to 90km/h.

Value-added features such as EIS (Electronic Image Stabilization) and VIVOTEK Snapshot Focus ensure that the IP816A-LPC Kit 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 Kit is also the most economic solution in LPR applications.
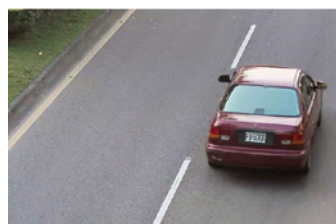
Key Features

· Scene Overview and LPC View in One Camera

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

· Specific Exposure Design to Avoid Overexposure and Glare

· Headlight Filter for Brilliant Night Image

· Wide Coverage for Dual Lanes

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

· Value-Added Features Including VIVTOTEK Snapshot Focus, RBF, and EIS to Support Traffic Monitoring Applications

Scene Overview and LPC View in One Camera

VIVOTEK's 2 Mega-pixel resolution kit provides not only sufficient PPF for license plate capture, but also for a clear overview of moving vehicles, including car color, brand and type for general traffic surveillance purposes. Therefore, with only one VIVOTEK IP816A-LPC Kit, users can yield more information from one single location.
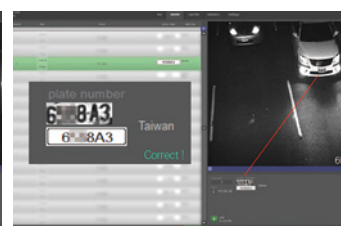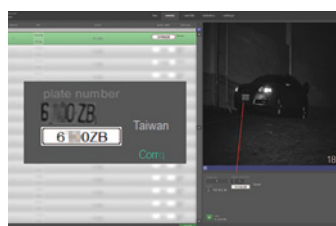

Scene Overview   License Plate Recognition View
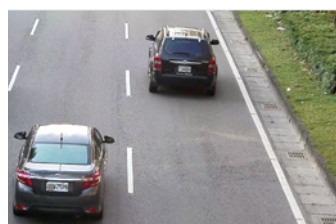
Headlight Filter Design

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 Kit is equipped with external 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.
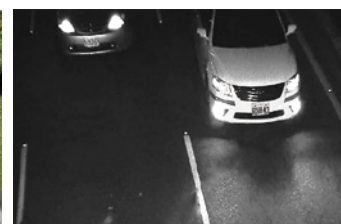

Clear Image Captured with IR LEDs and IR Pass Filter

One Camera to Cover Dual Lanes

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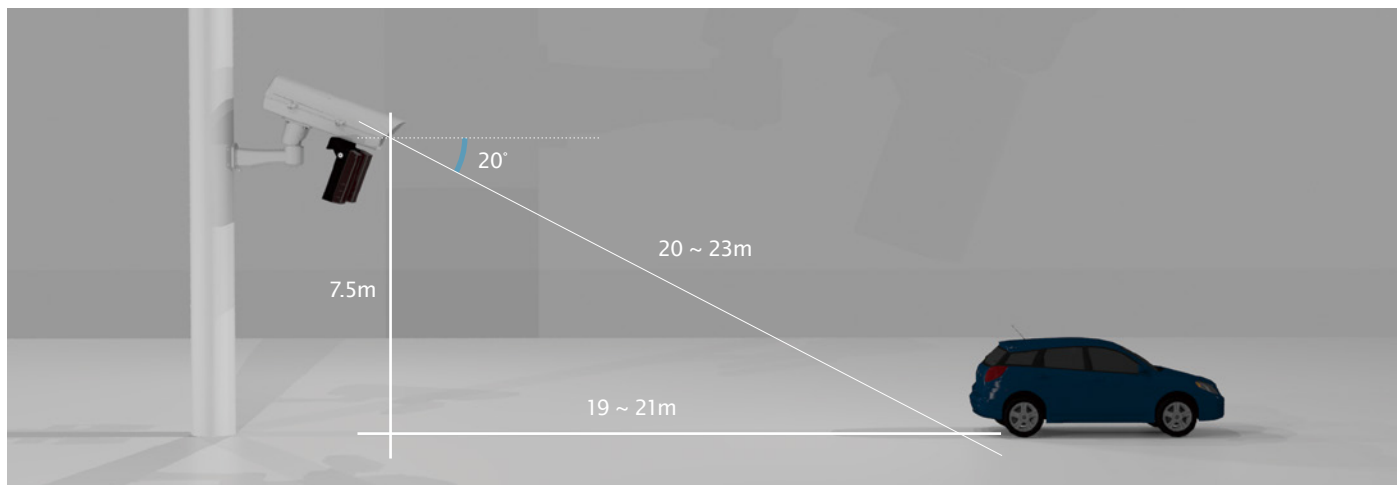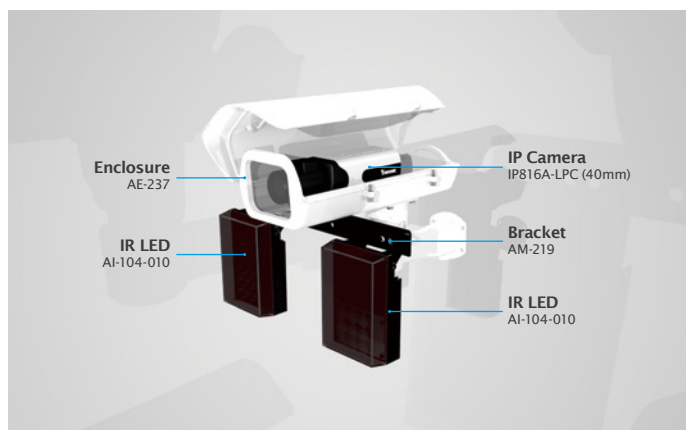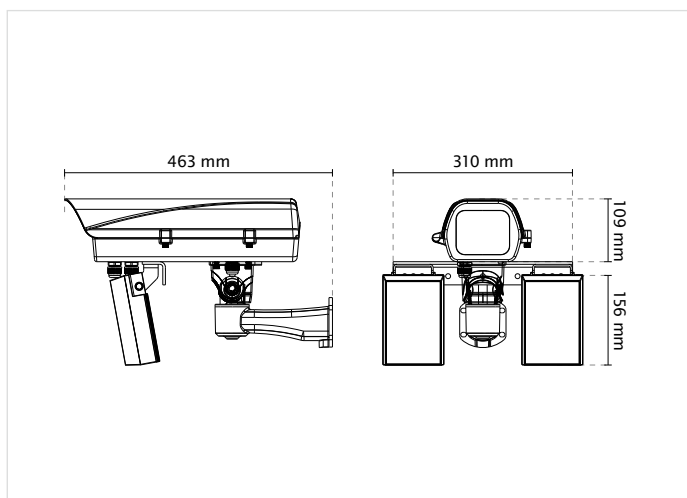

Day Time   Night Time

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Suggested Installation

20°

20 ~ 23m

7.5m

19 ~ 21m

Ordering Information

IP816A-LPC Kit P/N: 199001000G		
Category	**Model**	**Description**
IP Camera	IP816A-LPC (40mm)	2MP, 60fps, WDR Pro, Remote Back Focus, 3DNR, EIS, Snapshot Focus
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, Anti-Icing Heated Glass, Fan, 24V AC in, IP66, IK10
Bracket	AM-219	IR Bracket

Enclosure
AE-237

IP Camera
IP816A-LPC (40mm)

IR LED
AI-104-010

Bracket
AM-219

IR LED
AI-104-010

Mechanical Information

463 mm

310 mm

109 mm

156 mm

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IP816A-LPC Kit Specification

Model	IP816A-LPC Kit
Max. Speed	60MPH (90 km/h)
IR Threshold	IR on: 300 Lux IR off: 600 Lux
Shutter Time	1/800 to 1/10,000 sec.
Max. Shutter Time	1/5 to 1/10,000 sec.
IR Illuminators	24 W, 10˚ x 2
Capture Range	Up to 20 m
Captured Lanes	Dual Lanes
Power Input	AC 24V
Power Consumption	Max. 77.4 W (AC 24V) Suggested Power: AC 24V / 3.5A
Weight	5,222 g
Housing	Weather-proof IP66-rated housing Vandal-proof IK10-rated housing
Operating Temperature	Starting Temperature: 0˚C ~ 50˚C (32˚F~ 122˚F) Working Temperature: -10˚C ~ 50˚C (14˚F~ 122˚F) Humidity: 90%
Video	
Compression	H.264 & MJPEG
Maximum Streams	2 simultaneous streams
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
Network	
Users	Live viewing for up to 10 clients
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, ARP, SSL, TLS
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.
ONVIF	Supported, specification available at www.onvif.org
Intelligent Video	
Video Motion Detection	Triple-window video motion detection
Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, IR Status
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and SD card File upload via HTTP, SMTP, FTP, NAS server and SD card
General	
Smart Focus System	RBF (Remote Back Focus)
IP Camemra Connectors	RJ-45 for Network/PoE connection AC 24V power input Digital input*3 Digital output*1
Safety Certifications	IP Camera : CE, LVD, FCC Class B, VCCI, C-Tick, UL
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 8/7/Vista/XP/2000
Web Browser	Mozilla Firefox 7 ~ 43 (streaming only) Internet Explorer 7/8/9/10/11
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above

Network Camera - Technical Specifications

Model	IP816A-LPC (40mm)
CPU	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	384 MB
Camera Features	
Image Sensor	1/1.9" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	Vari-focal
Focal Length	f = 12 ~ 40 mm
Aperture	F2.36 ~ F2.44
Auto-iris	P-iris (DC-iris reserved)
Field of View	10.2˚ ~ 30˚ (Horizontal) 8˚ ~ 22˚ (Vertical) 12˚ ~ 38˚ (Diagonal)
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)
On-board Storage	SD/SDHC/SDXC card slot
Video	
Maximum Frame Rate	30fps @ 1920x1080 60fps @ 1920x1080 (In one-stream mode only) (In both compression mode)
S/N Ratio	50.8 dB
Dynamic Range	100 dB
Audio	
Audio Capability	Two-way Audio (full duplex)
Compression	AAC, G.711, G.726
Interface	External microphone input, Audio output

IR LED - Technical Specifications

Model	AI-104-010
Max. Distance	100 m
Beam Angle	10˚
Input Power	24V AC 12 to 24V DC
Power Consumption	24W
Weight	0.85 kg
Housing	Weather-proof IP66-rated housing Vandal-proof IK10-rated housing
Operating Temperature	-40˚C ~ 50˚C (-40˚F ~ 122˚F)
Color	Black
Wavelength	850nm
Dimensions	157 (D) x 105 (W) x 81 (H) mm
Included Accessories	U-bracket
Certifications	CE, FCC, VCCI, C-TICK
Integrated Control	Built-in photocell for automatic IR on/off