



# **S** IP9165-LPC

Box Network Camera



2MP 60fps • SNV II • WDR Pro II • Remote Back Focus •  
License Plate Capture • i-CS

VIVOTEK's IP9165-LPC is a professional H.265 Full HD box network camera offering specialized solutions for License Plate Capture with a unique headlight filter design for traffic monitoring. Featuring dedicated LPC firmware and a compatible lens, the IP9165-LPC provides three different scene modes: LPC-Parking, LPC-Street, and LPC-Highway to match different traffic applications in which cars move at different speeds. With a suitable selection of external IR illuminators, the IP9165-LPC camera will be ideal for 24/7 license plate capture, producing high-detail polished images for reliable license plate recognition of cars travelling up to speeds of 110mph (180km/h).

Equipped with a P-iris lens and a headlight filter design, the camera is capable of capturing clear, high quality video with a resolution of 1920x1080 at a smooth 60 fps in any condition. Further, by employing VIVOTEK's WDR Pro II, 3DNR and SNV II technologies, no matter whether in high contrast or in low light environments, the camera will ensure clear image quality for license plate capture or traffic monitoring. Finally, VIVOTEK's RBF (Remote Back Focus) system for easy focus adjustments and value-added features like DIS and support for i-CS lens ensure image stability and intelligent, precise focus, and in conjunction make the IP9165-LPC the perfect LPR solution for any application, in any condition.

## Key Features

- 60 fps @ 1920x1080
- H.265 Compression Technology
- i-CS (intelligent-CS) Lens Supported
- Supreme Anti-Glare Capability by Headlight Filter Design
- SNV II (Supreme Night Visibility II) for Low Light Conditions
- WDR Pro II (140dB) to Provide Extreme Visibility in Extremely Bright or Dark Environments
- DIS (Digital Image Stabilization) to Control Image Stabilization
- Lens Profile for Camera Quality Optimization
- Trend Micro IoT Security within Standard Warranty Period



Supreme Anti-Glare Capability:  
Clear Image Captured with IR Illuminators and Headlight Filter

## Technical Specifications

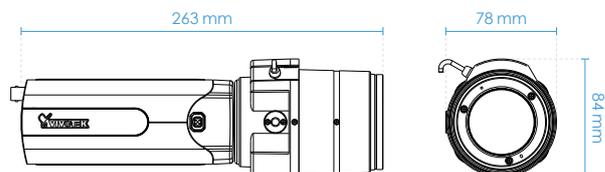
Model	IP9165-LPC(9-50mm) IP9165-LPC(12-40mm)		
<b>System Information</b>			
CPU	Multimedia SoC (System-on-Chip)		
Flash	128MB		
RAM	1GB		
<b>Camera Features</b>			
Image Sensor	1/2" Progressive CMOS		
Max. Resolution	1920x1080(2MP)		
Lens Type	Vari-focal Remote Back Focus i-CS		
Focal Length	IP9165-LPC(9-50mm): f = 9 ~ 50 mm IP9165-LPC(12-40mm): f = 12 ~ 40 mm		
Aperture	IP9165-LPC(9-50mm): F1.5 ~ F1.6 IP9165-LPC(12-40mm): F1.8 ~ F2.3		
Iris type	IP9165-LPC(9-50mm): i-CS IP9165-LPC(12-40mm): P-iris (i-CS/P-iris/DC-iris all reserved)		
Field of View	IP9165-LPC(9-50mm): 8.3° ~ 42.8° (Horizontal) 4.7° ~ 24.3° (Vertical) 9.46° ~ 48.9° (Diagonal) IP9165-LPC(12-40mm): 11.6° ~ 34.2° (Horizontal) 6.6° ~ 18.7° (Vertical) 13.3° ~ 39.8° (Diagonal)		
Shutter Time	1/60 to 1/16,000 sec.		
WDR Technology	WDR Pro II		
Day/Night	Yes		
Removable IR-cut filter	Yes (Headlight filter design for Anti-Glare)		
Minimum Illumination	IP9165-LPC(9-50mm): 0.01 Lux @ F1.5 (Color) IP9165-LPC(12-40mm): 0.08 Lux @ F1.8 (Color)		
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)		
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot (Max. SD card capacity:128GB) Seamless Recording		
<b>Video</b>			
Compression	H.265,H.264, MJPEG		
Maximum Frame Rate	60 fps @ 1920x1080		
Maximum Streams	4 simultaneous streams		
S/N Ratio	66.2 dB		
Dynamic Range	140 dB		
Video Streaming	Adjustable resolution, quality and constant bit rate control, 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, DIS, video rotation, 3DNR, defog
		<b>Audio</b>	
		Audio Capability	Two-way Audio (full duplex)
		Compression	G.726, G.711
		Interface	External microphone input External line output
		<b>Network</b>	
		Users	Live viewing for up to 10 clients
		Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/ RTP/RTCP, IGMP, CIFS/SMB, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS, SSL
		Interface	10 Base-T/100 Base-TX/1000 Base-T 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 <a href="http://www.onvif.org">www.onvif.org</a>
		<b>Intelligent Video</b>	
		Video Motion Detection	Five-window video motion detection
		<b>Alarm and Event</b>	
		Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy
		Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
		<b>General</b>	
		Connectors	RJ-45 cable connector for 10/100/1000Mbps Network/PoE connection Audio input Audio output DC 12V power input*1 AC 24V power input *1 Digital input*2 Digital output*2 RS485*1 BNC*1
		LED Indicator	System power and status indicator
		Power Input	DC12V/AC24V IEEE 802.3af PoE
		Power Consumption	DC 12V: Max. 9 W AC 24V: Max. 18 W PoE: Max. 9.06 W
		Dimensions	IP9165-LPC(9-50mm): 263 (D) x 78 (W) x 84 (H) mm IP9165-LPC(12-40mm): 203 (D) x 70 (W) x 61 (H) mm
		Weight	680 g (without lens) 790 g (with lens)

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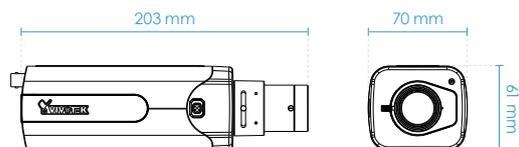
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 60°C (14°F ~ 140°F)
Humidity	90%
Warranty	36 months
<b>System Requirements</b>	
Operating System	Microsoft Windows 8/7
Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
<b>Included Accessories</b>	
Others	Quick installation guide, warranty card, lens, screw pack

## Dimensions

### IP9165-LPC(9-50mm)



### IP9165-LPC(12-40mm)



## Compatible Accessories

Enclosures		Lens	
 <b>AE-23E</b> Outdoor enclosure, PoE input, IP68, IK10	 <b>AE-244</b> Outdoor enclosure, built-in 50m IR, PoE input, IP68, IK10	 <b>AL-239</b> 8 ~ 80mm, F1.6, DC-iris	 <b>AL-24A</b> 12 ~ 40mm, F1.8, P-iris (Standard Package for IP9165-LPC(12-40mm))
Lens			
 <b>AL-24B</b> 3.6 ~ 17mm, F1.5, P-iris	 <b>AL-24D</b> 25 ~ 135mm, F1.8, P-iris	 <b>AL-251</b> 3.9 ~ 10mm, F1.5, i-CS	 <b>AL-252</b> 9 ~ 50mm, F1.5, i-CS (Standard Package for IP9165-LPC(9-50mm))