



# IP9165-LPC-v2

Box Network Camera

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

- 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
- EIS (Electronic Image Stabilization) to Control Image Stability
- Video Rotation for Corridor View
- Lens Profile for Camera Quality Optimization
- Trend Micro IoT Security





# Technical Specifications

## System Information

Model	IP9165-LPC-v2(9-50m) IP9165-LPC-v2(12-40mm)
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB

## Camera Features

Image Sensor	1/2" Progressive CMOS
Max. Resolution	1920x1080 (2MP)
Lens Type	IP9165-LPC-v2(9-50m): Vari-focal, Remote Focus(i-CS) IP9165-LPC-v2(12-40mm): Vari-focal, Manual Focus
Focal Length	IP9165-LPC-v2(9-50mm): f = 9 ~ 50 mm IP9165-LPC-v2(12-40mm): f = 12 ~ 40 mm
Aperture	IP9165-LPC-v2(9-50mm): F1.5 ~ F1.6 IP9165-LPC-v2(12-40mm): F1.8 ~ F2.3
Iris Type	IP9165-LPC-v2(9-50mm): i-CS IP9165-LPC-v2(12-40mm): P-iris (i-CS/P-iris/DC-iris all reserved)
Field of View	IP9165-LPC-v2(9-50mm): 42.8° ~ 8.3° (Horizontal) 24.3° ~ 4.7° (Vertical) 48.9° ~ 9.46° (Diagonal) IP9165-LPC-v2(12-40mm): 34.2° ~ 11.6° (Horizontal) 18.7° ~ 6.6° (Vertical) 39.8° ~ 13.3° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro II
Day/Night	Yes
Removable IR-cut Filter	Yes (Headlight filter design for Anti-Glare)
Minimum Illumination	IP9165-LPC-v2(9-50mm): 0.01 lux @ F1.5 (Color) IP9165-LPC-v2(12-40mm): 0.08 lux @ F1.8 (Color)
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
Storage	Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS)

## Video

Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	60 fps @ 1920x1080
Maximum Streams	3 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	General settings: video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings; Illuminators: illuminators, anti-overexposure; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, EIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Focus: zoom, Remote focus(i-CS), Remote back focus; Privacy mask; Scheduled profile settings

## Audio

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



## Network

Users	Live viewing for up to 10 clients
Security	Access list, digest authentication, HTTPS, IEEE 802.1x, password protection, secure boot, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, SFTP, TCP/IP, TLS 1.2, UDP, UPnP
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	Profile G, S, T supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>

## Solution Integration

Smart Motion Detection	Five-window video motion detection
Smart VCA	With i-CS Lens: Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection, car detection
VADP Package	Trend Micro IoT Security(3-year free trial), Stratocast, Deep Learning VCA (Smart Motion Detection, Smart VCA)

## Alarm and Event

Event Trigger	Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot
Event Action	Event notification via audio clip, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card

## General

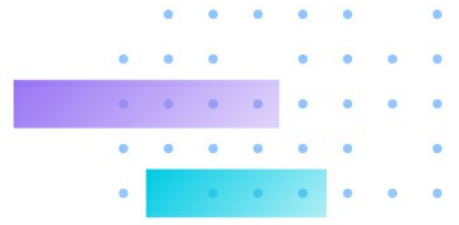
Connectors	RJ-45 cable connector for 10/100/1000Mbps Network/PoE connection Audio input Audio output AC 24V power input *1 DC 12V power input*1 Digital input *2 Digital output *2 RS485*1 BNC *1
LED Indicator	LED Indicator System power and status indicator
Power Input	AC 24V, DC 12V, IEEE 802.3af PoE Class 0
Power Consumption	DC 12V: Max. 8.88 W AC 24V: Max. 17 W PoE: Max. 10 W
Dimensions	Without lens: 155 (D) x 70 (W) x 61 (H) mm IP9165-LPC-v 2(9-50mm): 263 (D) x 78 (W) x 84 (H) mm IP9165-LPC-v 2(12-40mm): 203 (D) x 70 (W) x 61 (H) mm
Weight	Without lens: : 680 g IP9165-LPC-v 2(9-50mm): 970 g IP9165-LPC-v 2(12-40mm): 790 g
Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL/CUL, BIS, BSMI
Operating Temperature	Start Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working temperature: -10°C ~ 60°C (14°F ~ 140°F)
Humidity	90% (non-condensing)
Warranty	36 months

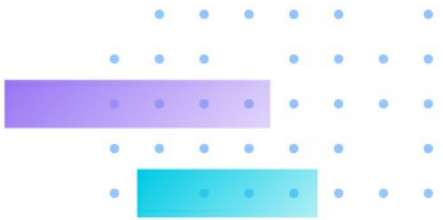
## System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above

## Included Accessories

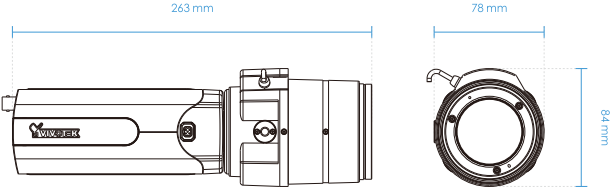
Packing Contents	Quick installation guide, lens
------------------	--------------------------------



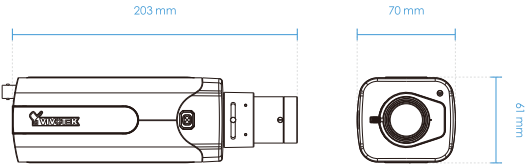


# Dimensions

IP9165-LPC(9-50mm)



IP9165-LPC(12-40mm)



# Compatible Accessories

## Enclosures



**AE-23E-v2**  
Outdoor enclosure, PoE input, IP68, IK10

## Enclosures



**AE-244**  
Outdoor enclosure, built-in 50m IR, PoE input, IP68, IK10

## Lens



**AL-239**  
8 ~ 80mm, F1.6, DC-iris

## Lens



**AL-24A**  
12 ~ 40mm, F1.8, P-iris

## Lens



**AL-248**  
12 ~ 50mm, F1.8, P-iris

## Lens



**AL-24E**  
3.9 ~ 10mm, F1.5, P-iris

## Lens



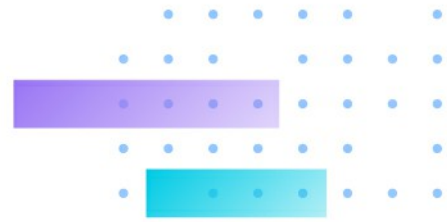
**AL-24F**  
4.4 ~ 10mm, F1.3, P-iris

## Lens



**AL-251**  
3.9 ~ 10mm, F1.5, i-CS

## Lens



AL-252  
9 ~ 50mm, F1.5, i-CS

---