VIVOTEK

S series

IP9165-HP
## Box Network Camera

2MP 60fps • SNV II • WDR Pro II • Smart Stream III • Remote Back Focus

VIVOTEK's IP9165-HP is a professional H.265 box network camera offering up to 60 fps at 1080p with outstanding image quality that sets it apart from the competition. With the latest VIVOTEK's SNV II, WDR Pro II and Smart Stream III technologies, the camera provides clear imagery in both low light and high contrast environments and greatly reduces bandwidth and storage while retaining the highest quality of video. This unique combination makes the IP9165-HP suitable for a wide range of video surveillance applications, including government and industrial buildings, retail, airports, railway stations, traffic intersections and university campuses.

To enhance the camera's ability to adapt to the challenging environments, precise software controls maintain the iris opening of the IP9165-HP's lens at an optimal level at all times, resulting in superior sharpness as well as depth of field. Finally, the IP9165-HP is also endowed with VIVOTEK's RBF (Remote Back Focus) system, enabling the installer to adjust the focus with greater flexibility and precision.
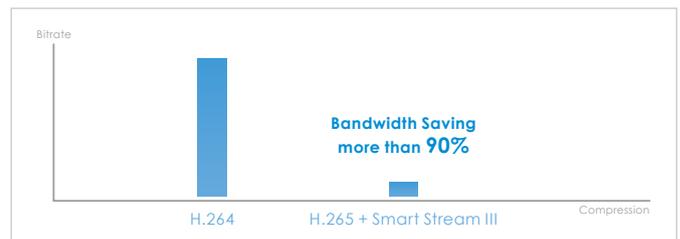
Key Features

· 60 fps @ 1920x1080
· H.265 Compression Technology
· 3.6 ~ 17 mm, Remote Back Focus, P-iris Lens
· SNV II (Supreme Night Visibility II) for Low Light Conditions
· WDR Pro II (140dB) to Provide Extreme Visibility in Extremely Bright or Dark Environments
· Remote Back Focus for Easy Focus Adjustments
· Smart Stream III to Optimize Bandwidth Efficiency
· DIS (Digital Image Stabilization) to Control Image Stabilization
· Video Rotation for Corridor View
· Lens Profile for Camera Quality Optimization
· Trend Micro IoT Security within Standard Warranty Period
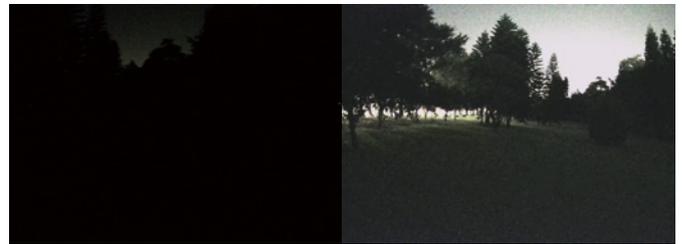
Without SNV II | With SNV II

Bitrate

Bandwidth Saving more than **90%**

H.264 | H.265 + Smart Stream III | Compression

H.265 + Smart Stream III, Ultra-low Bandwidth

Technical Specifications

Model	IP9165-HP

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	1GB

Camera Features

Image Sensor	1/2" Progressive CMOS
Maximum Resolution	1920x1080
Lens Type	Vari-focal, Remote Back Focus
Focal Length	f = 3.6 ~ 17 mm
Aperture	F1.5 ~ F2.8
Iris type	P-iris (DC-iris reserved)
Field of View	28° ~ 100° (Horizontal) 16° ~ 55° (Vertical) 32° ~ 119° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro II
Day/Night	Yes
Removable IR-cut Filter	Yes
Minimum Illumination	0.01 Lux @ F1.5 (Color) 0.005 Lux @ F1.5 (B/W)
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

Video

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	Adjustable image size, quality and bit rate; Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, AE speed, privacy masks; Scheduled profile settings, HLC, defog, 3DNR, DIS, video rotation, lens profile

Audio

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

Network

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
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 www.onvif.org

Intelligent Video

Video Motion Detection	Five-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, advanced motion 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

General

Connectors	RJ-45 cable connector for Network/PoE connection *1 Audio input *1 Audio output *1 DC 12V/AC 24V power in *1 Digital input *2 Digital output *2 RS485 *1 BNC *1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 0 DC 12V AC 24V
Power Consumption	DC 12V: Max. 9 W AC 24V: Max. 18 W PoE: Max. 9.06 W
Dimensions	151 x 70 x 61 mm (w/o lens) 227 x 70 x 61 mm (w/ lens)
Weight	680 g (w/o lens) 800 g (w/ lens)
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

System Requirements

Operating System	Microsoft Windows 8/7
Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 10/11

Technical Specifications

Other Players	VLC: 1.1.11 or above QuickTime: 7 or above

Included Accessories

Others	Quick installation guide, warranty card, lens, camera stand, screw pack

Dimensions

70 mm 227 mm 61 mm
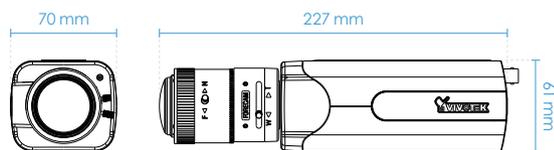
Compatible Accessories

Enclosures		Lens
AE-23E Outdoor enclosure, PoE input, IP68, IK10	AE-244 Outdoor enclosure, built-in 50m IR, PoE input, IP68, IK10	AL-239 8 ~ 80mm, F1.6, DC-iris

Lens		
AL-24A 12 ~ 40mm, F1.8, P-iris	AL-24B 3.6 ~ 17mm, F1.5, P-iris (Standard Package)	AL-24D 25 ~ 135mm, F1.8, P-iris