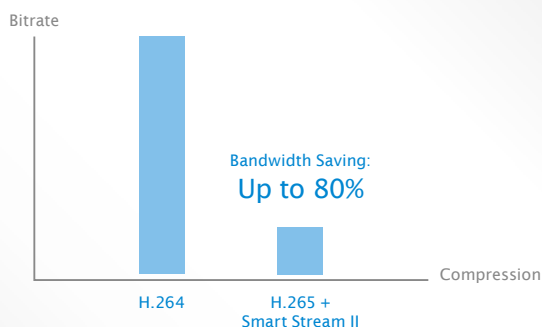# IP9181-H

Fixed Network Camera

V series

5MP · H.265 · Smart Stream II · 1080p 60 fps · WDR Pro · SNV · GbE Port · DIS

VIVOTEK's IP9181-H is a brand-new professional H.265 box network camera offering up to 30 fps @ 5-Megapixel or 60 fps @ 1080p with superb image quality at all resolutions or frame rates. By utilizing VIVOTEK's sophisticated Smart Stream II, the camera is able to optimize quality for desired regions and thus ensure maximum efficiency of bandwidth usage. Combining both H.265 and Smart Stream II, the IP9181-H can reduce both bandwidth and storage consumption by up to 80%* while keeping the high standard of image quality as a 5-Megapixel camera. This unique combination of high resolution and low storage consumption make the IP9181-H suitable for a wide range of video surveillance applications, including government and industrial buildings, retail environments, airports, railway stations and schools.

Additionally, employing WDR Pro allows the camera to capture both the dark and bright areas of an image, combining the differences to create a highly realistic representation of the original scene. Further improving the IP9181-H's range of operating conditions, SNV technology makes high quality full-color surveillance video possible under low-light conditions. Together, these features enable the camera to provide video quality strikingly close to the capabilities of the human eye. Further enhancing the camera's ability to adapt to its environment, precise software controls maintain the iris opening of the IP9181-H's lens at an optimal level at all times, resulting in superior sharpness as well as depth of field. Finally, the IP9181-H is also endowed with VIVOTEK's RBF (Remote Back Focus) system, enabling the installer to adjust focus both more precisely and with greater flexibility.

* Depending on scenes

Key Features

· H.265 Compression Technology
· 1/1.8" Progressive CMOS Sensor
· 30 fps @ 2560x1920; 60 fps @ 1920x1080
· DIS (Digital Image Stabilization)
· Smart Stream II to Optimize Bandwidth Efficiency
· WDR Pro for Unparalleled Visibility in High Contrast Environments
· Remote Back Focus for Easy Focus Adjustments
· SNV (Supreme Night Visibility) for Low Light Conditions
· Video Rotation for Corridor View
· Lens Profile to Ensure the Full Compatibility for Different Lens Options
· Gigabit Ethernet for High Speed of Transmission
· Snapshot Focus

Bitrate

Bandwidth Saving:
Up to 80%

Compression

H.264   H.265 +
               Smart Stream II

Combining both H.265 and VIVOTEK Smart Stream II, the camera can reduce bandwidth and storage consumption up to 80% more than cameras using H.264.

Lobby

Hotel

Bank

Traffic Monitoring

Technical Specifications

Model	IP9181-H

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	512MB

Camera Features

Image Sensor	1/1.8" Progressive CMOS
Maximum Resolution	2560x1920(5MP)
Lens Type	Vari-Focal
Focal Length	f= 4.1 ~ 9 mm
Aperture	F1.6 ~ F2.4
Auto-iris	DC-iris (P-iris reserved)
Field of View	46˚ ~ 90˚ (Horizontal) 35˚ ~ 68˚ (Vertical) 58˚ ~ 117˚ (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.07 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (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 Seamless Recording

Video

Compression	H.265 & H.264 & MJPEG
Maximum Frame Rate	H.265 & H.264: 30 fps @ 2560x1920 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920 30 fps @ 1920x1080
Maximum Streams	4 simultaneous streams
S/N Ratio	57 dB
Dynamic Range	100 dB
Video Streaming	Adjustable resolution, quality and bitrate Smart StreamII
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, video rotation, 3DNR, defog, Snapshot Focus, Lens Profile, DIS

Audio

Audio Capability	Two-Way Audio (full duplex)
Compression	G711, G726
Interface	External microphone input Audio output

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, CIFS/SMB
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, specifications 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
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

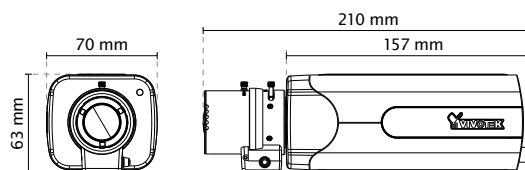|	
Smart Focus System	Remote Back Focus via UI
Connectors	RJ-45 cable connector for 10/100/1000Mpbs Network/PoE connection Audio input Audio output DC 12V power input AC 24V Power input Digital input*3 Digital output*1 RS485
LED Indicator	System power and status indicator
Power Input	DC 12V AC 24V IEEE 802.3af/at PoE Class 0
Power Consumption	Max. 9.7 W
Dimensions	210 (D) x 70 (W) x 63 (H) mm
Weight	766 g
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 ~ 50˚C (14˚F ~ 122˚F)
Humidity	90%
Warranty	36 months

System Requirements

Operating System	Microsoft Windows 7/8
Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above

Included Accessories

CD	User's manual, quick installation guide, Shepherd, VAST
Others	Quick installation guide, mounting bracket, screw pack, Lens, CD

Dimensions

70 mm 63 mm 210 mm 157 mm

Compatible Accessories

Enclosures

AE-244
Camera Enclosure, PoE/DC, IR 50M, IP68, IK10, -20˚C ~ 50˚C

AE-23C
Camera Enclosure, 24VAC/VDC, IP68, IK10, -50˚C ~ 50˚C

IR Illuminators

CM48I8-2040
48W Illuminator, distance 200M, -40 ˚C ~ 60 ˚C, 12~24V DC, 24V AC

VIVOTEK INC.