



# IP9181-H

## Fixed Network Camera

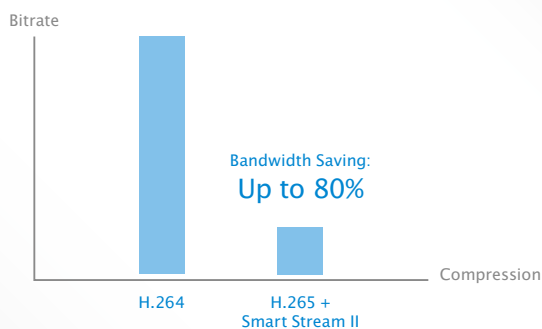


5MP · H.265 · Smart Stream II · 1080p 60 fps · WDR Pro · SNV · GbE Port · DIS

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.

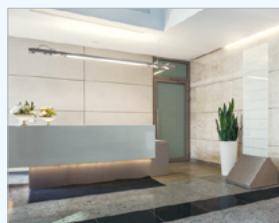
\* Depending on scenes



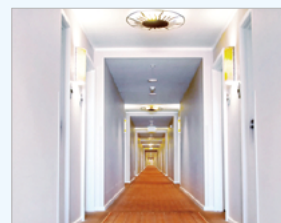
Combining both H.265 and VIVOTEK Smart Stream II, the camera can reduce bandwidth and storage consumption up to 80% more than cameras using H.264.

## Key Features

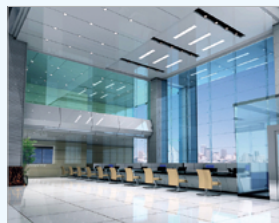
- H.265 Compression Technology
- 1/1.8" Progressive CMOS Sensor
- 30 fps @ 2560x1920; 60 fps @ 1920x1080
- DIS (Digital Image Stabilization)
- Smart Stream II to Optimize Bandwidth Efficiency
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Remote Back Focus for Easy Focus Adjustments
- 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



Lobby



Hotel

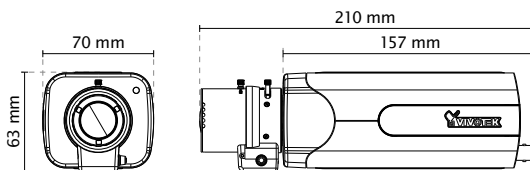


Bank



Traffic Monitoring

## Technical Specifications

Model	IP9181-H	Video Motion Detection	Five-window video motion detection
System Information		VCA*	Line crossing detection, field detection, loitering detection
CPU	Multimedia SoC (System-on-Chip)	Alarm and Event	
Flash	128MB	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
RAM	512MB	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
Camera Features		General	
Image Sensor	1/1.8" Progressive CMOS	Smart Focus System	Remote Back Focus via UI
Maximum Resolution	2560x1920(5MP)	Connectors	RJ-45 cable connector for 10/100/1000Mbps Network/PoE connection Audio input Audio output DC 12V power input AC 24V Power input Digital input*3 Digital output*1 RS485
Lens Type	Vari-Focal		
Focal Length	f= 4.1 ~ 9 mm		
Aperture	F1.6 ~ F2.4		
Auto-iris	DC-iris ( P-iris reserved)	LED Indicator	System power and status indicator
Field of View	46° ~ 90° (Horizontal) 35° ~ 68° (Vertical) 58° ~ 117° (Diagonal)	Power Input	DC 12V AC 24V IEEE 802.3af/at PoE Class 0
Shutter Time	1/5 sec. to 1/32,000 sec.	Power Consumption	Max. 9.7 W
WDR Technology	WDR Pro	Dimensions	210 (D) x 70 (W) x 63 (H) mm
Day/Night	Removable IR-cut filter for day & night function	Weight	766 g
Minimum Illumination	0.07 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F ) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F )
On-board Storage	Slot Type: MicroSD/SDHC/SDXC card slot Seamless Recording	Humidity	90%
Video		Warranty	36 months
Compression	H.265 & H.264 & MJPEG	System Requirements	
Maximum Frame Rate	H.265 & H.264: 30 fps @ 2560x1920 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920 30 fps @ 1920x1080	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Maximum Streams	4 simultaneous streams	Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7/8/9/10/11
S/N Ratio	57 dB	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Dynamic Range	100 dB	Included Accessories	
Video Streaming	Adjustable resolution, quality and bitrate Smart StreamII	CD	User's manual, quick installation guide, Installation Wizard 2, VAST
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	Others	Quick installation guide, mounting bracket, screw pack, Lens, CD
Audio		Dimensions	
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		
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			

\* Available per project request.

## 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



**CM4818-2040**  
48W Illuminator, distance 200M,  
-40 °C ~ 60 °C, 12~24V DC,  
24V AC