



# IP9181-H

## Fixed Network Camera



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

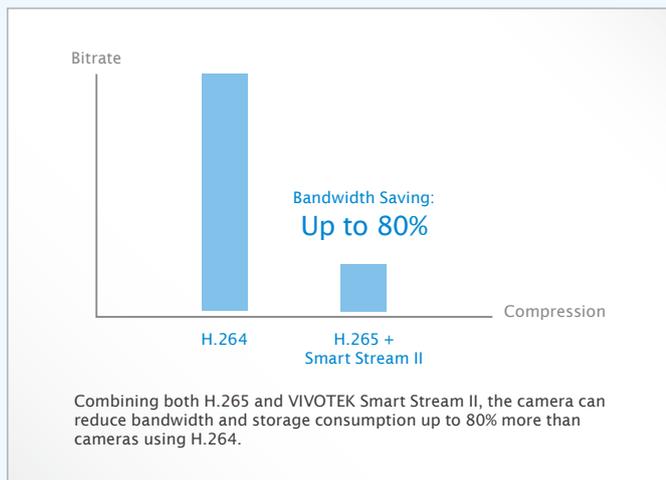
VIVOTEK's IP9181-H is a brand-new professional H.265 box network camera offering up to 30 fps @ 5-Megapixel or 60 fps @ 1080p with superb image quality at all resolutions or frame rates. By utilizing VIVOTEK's sophisticated Smart Stream II, the camera is able to optimize quality for desired regions and 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.

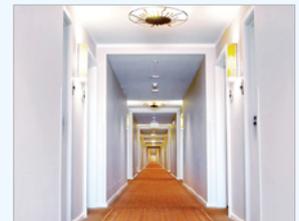
\* Depending on scenes

## 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  |
| <b>System Information</b>     |   |
| CPU                           | Multimedia SoC (System-on-Chip)   |
| Flash                         | 128MB   |
| RAM                           | 512MB   |
| <b>Camera Features</b>        |   |
| 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)<br>35° ~ 68° (Vertical)<br>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)<br>0.001 Lux @ F1.6 (B/W)   |
| Pan/Tilt/Zoom Functionalities | ePTZ:<br>48x digital zoom (4x on IE plug-in, 12x built in)  |
| On-board Storage              | Slot Type: MicroSD/SDHC/SDXC card slot<br>Seamless Recording  |
| <b>Video</b>                  |   |
| Compression                   | H.265 & H.264 & MJPEG   |
| Maximum Frame Rate            | H.265 & H.264:<br>30 fps @ 2560x1920<br>60 fps @ 1920x1080<br>MJPEG:<br>12 fps @ 2560x1920<br>30 fps @ 1920x1080  |
| Maximum Streams               | 4 simultaneous streams  |
| S/N Ratio                     | 57 dB   |
| Dynamic Range                 | 100 dB  |
| Video Streaming               | Adjustable resolution, quality and bitrate<br>Smart StreamII  |
| Image Settings                | Time stamp, text overlay, flip & mirror<br>Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks<br>Scheduled profile settings, video rotation, 3DNR, defog, Snapshot Focus, Lens Profile, DIS |
| <b>Audio</b>                  |   |
| Audio Capability              | Two-Way Audio (full duplex)   |
| Compression                   | G711, G726  |
| Interface                     | External microphone input<br>Audio output   |
| <b>Network</b>                |   |
| 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)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.  |
| ONVIF                         | Supported, specifications available at <a href="http://www.onvif.org">www.onvif.org</a>   |

## 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 10/100/1000Mbps 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%

## System Requirements

Operating System Microsoft Windows 7/8

Web Browser Mozilla Firefox 7~43 (streaming only)  
Internet Explorer 10/11

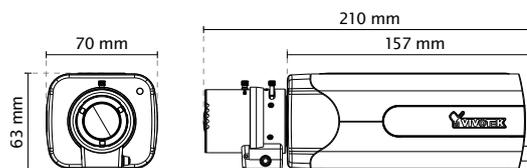
Other Players VLC: 1.1.11 or above  
Quicktime: 7 or above

## Included Accessories

CD User's manual, quick installation guide, Shepherd, VAST

Others Quick installation guide, mounting bracket, screw pack, Lens, CD

## Dimensions



## 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,  
24VAC