



SD9161-H

Speed Dome Network Camera



H.265 · 1080P Full HD · 10x Zoom · WDR Pro · Smart Stream II · EIS · Defog

VIVOTEK's SD9161-H is a high-performance H.265 speed dome network camera, offering 1080p Full HD resolution and consistently superb image quality. Adopting the power of a 10x optical zoom lens and the maneuverability of a sophisticated pan/tilt mechanism, the SD9161-H is able to capture fine detail at top-notch quality and is especially suitable for wide-open indoor spaces, such as airports and lobbies, where the highest levels of reliability and precision are required.

Featuring the Wide Dynamic Range Technology, WDR Pro, the SD9161-H provides improved visibility in both extremely dark and light environments. Additionally, this unique camera also supports VIVOTEK's sophisticated Smart Stream II, enabling the optimization of quality for desired regions and thus delivering

the maximum possible efficiency of bandwidth usage. Combining H.265 compression technology and VIVOTEK's Smart Stream II technology, users can enjoy bandwidth savings of up to 80%* compared to traditional H.264 systems.

Incorporating a number of advanced features standard for VIVOTEK cameras, including EIS, MicroSD/SDHC/SDXC card slot, and VIVOTEK's 32-channel recording software, the SD9161-H is the ideal solution for your indoor surveillance needs.

* Depending on scene being monitored

Key Features

- H.265 Compression Technology
- 1080P Full HD CMOS Sensor
- 30 fps @ 1920x1080
- 10x Optical Zoom
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 90° Tilt
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Smart Stream II to Optimize Bandwidth Efficiency
- Built-in 802.3at Compliant PoE
- Auto Tracking for Moving Objects
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Defog
- EIS (Electronic Image Stabilization) to Control Image Stability



Without WDR Pro

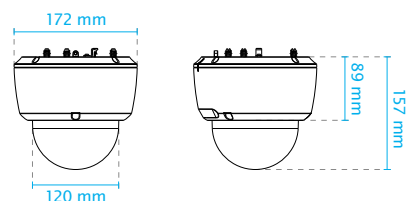


With WDR Pro












Technical Specifications

Model	SD9161-H
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	512MB
Camera Features	
Image Sensor	1/3" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	10x Optical Zoom, Auto Focus
Focal Length	f = 5.1 ~ 51 mm
Aperture	F1.6 ~ F1.8
Auto-iris	DC-iris
Field of View	4.9° ~ 54° (Horizontal) 4° ~ 31° (Vertical) 6.7° ~ 68° (Diagonal)
Shutter Time	1/8 sec. to 1/30,000 sec.
WDR Technology	WDR Pro
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.2 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)
Pan Speed	0.05° ~ 360° / sec
Pan Range	360° endless
Tilt Speed	0.05° ~ 360° / sec
Tilt Range	180°
Preset Locations	256 preset locations 128 presets per tour
Pan/Tilt/Zoom Functionalities	128x digital zoom (4x on IE plug-in, 32x built-in) Auto pan mode Auto patrol mode
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording
Video	
Compression	H265, H264, MJPEG
Maximum Frame Rate	30 fps @ 1920x1080 In all compression modes
Maximum Streams	4 simultaneous streams
S/N Ratio	50dB
Dynamic Range	100dB
Video Streaming	Adjustable resolution, quality and constant bit rate control Smart Stream II
Image Settings	Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (up to 24) Scheduled profile settings, EIS, 3DNR, defog
Audio	
Audio Capability	Two-way Audio (full duplex)
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, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, NTCIP, ARP, SSL, TLS, ICMP

Interface	10 Base-T/100 BaseTX 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
Auto-Tracking	Auto-tracking on moving object
Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, audio detection
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
General	
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output 24V DC/24V AC power input Digital input*4 Digital output*2
LED Indicator	System power and status indicator
Power Input	24V DC 24V AC IEEE 802.3at PoE Class 4
Power Consumption	Max. 15W
Dimensions	Ø 172 x 157 mm (Camera Body)
Weight	1043 g
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: -10°C ~ 55°C (14°F ~ 131°F) Working Temperature: -10°C ~ 55°C (14°F ~ 131°F)
Humidity	90%
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 7/8/Vista/XP/2000
Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 7/8/9/10/11
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
CD	User's manual, quick installation guide, Installation Wizard 2, VAST
Others	Indoor pendant mount, quick installation guide, alignment sticker, L-wrench, software CD, power cable
Dimensions	



Compatible Accessories

Mounting Kits			Others	
				
AM-21C Wall Mount Bracket	AM-52A Mounting Adapter	AM-107 Recessed Kit	IPD-USB USB Joystick	AO-003 Combo Cable
PoE Kit/Power Adapter				
24VAC				
				
AA-341 AC 24V 3.5A Power Adapter				
IEEE 802.3at PoE Class 4				
				
AP-GIC-010A-030 1xGE IEEE802.3at PoE Injector	AW-GET-050A-065 Unmanaged 4xGE PoE + 1xGE Switch	AW-GET-080A-120 Unmanaged 8xGE PoE Switch	AW-GEV-104A-130 VivoCam L2 Managed 8xGE PoE + 1xGE UTP + 1xGE SFP Switch	AW-GEV-264A-185 VivoCam L2 Managed 24xGE PoE + 2xGE Combo Switch



SD8161

Speed Dome Network Camera

1080p Full HD · 18x Zoom · PoE Plus

VIVOTEK's SD8161 is part of the SUPREME series product line offering 1080p Full HD resolution with superb image quality. Adopting a 18x optical zoom lens and sophisticated pan/tilt mechanism, the SD8161 is able to capture fine detail at top-notch quality, and is especially suitable for wide open indoor spaces such as airports and lobbies where highest levels of reliability and precision are always required.

The SD8161 supports high-performance H.264/MJPEG compression technology and offers extra smooth video quality with resolution of up to 30 fps @ 1080p. With WDR Enhancement technology, the SD8161 can also cope with challenging lighting conditions and generate image quality close to the capabilities of the human eye. With a sophisticated pan/tilt mechanism, the camera provides fast, precise movement with continuous 360-degree pan and 220-degree tilt. Users can also easily control the lens position via a mouse or a joystick to track the object of interest and set up to 256 preset positions. With its built-in auto tracking feature, the SD8161 further provides instantaneous reaction to suspicious moving objects in wide area locations, even before operators are aware of activity. With other advanced features such as MicroSD/SDHC/SDXC card slot, 802.3at compliant PoE Plus and 30 fps high quality video, the SD8161 is the best choice for the most demanding indoor surveillance applications.

Key Features

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920 x 1080
- 18x Zoom Lens
- Real-time H.264 and MJPEG Compression
- WDR Enhancement for Unparalleled Visibility in Extremely Bright and Dark Environments
- Audio Detection for Instant Alerts
- Auto Tracking for Moving Objects
- Built-in 802.3at Compliant PoE Plus
- 3D Privacy Masks for Additional Protection
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage



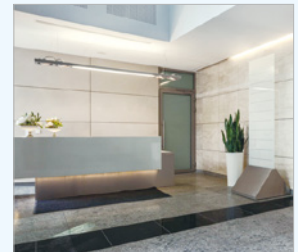
Full HD 1X



Full HD 18X



Airports



Lobby



Train Station



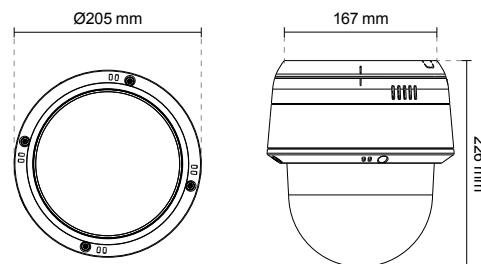
Shopping Mall

Technical Specifications











Model	SD8161
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	512 MB
Camera Features	
Image Sensor	1/3" Progressive CMOS
Maximum Resolution	1920x1080
Lens Type	18x Optical Zoom, Auto Focus
Focal Length	f = 4.7 ~ 84 mm
Aperture	F1.6 ~ F2.8
Auto-iris	DC-iris
Field of View	4° ~ 61° (Horizontal) 2° ~ 36° (Vertical) 5° ~ 70° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.72 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)
Pan Speed	0.05° ~ 450° / sec
Pan Range	360 endless
Tilt Speed	0.05° ~ 450° / sec
Tilt Range	220° (-110° ~ +110°)
Preset Locations	256 preset locations, 40 presets per tour
Pan/tilt/zoom Functionalities	48x digital zoom (4x on IE plug-in, 12x built-in) Auto pan mode Auto patrol mode
On-board Storage	MicroSD/SDHC/SDXC card slot
Video	
Compression	H.264, MJPEG
Maximum Frame Rate	30 fps @ 1920x1080 In both compression modes
Maximum Streams	4 simultaneous streams
S/N Ratio	Above 67dB
Dynamic Range	60dB
Video Streaming	Adjustable resolution, quality and bitrate Zoom enhancement for better image quality under limited bandwidth
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, privacy masks (Up to 24) Scheduled profile settings, 3D Noise Reduction
Audio	
Audio Capability	Audio input/output (full duplex)
Compression	AAC, 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, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X
Interface	10 Base-T/100 BaseTX 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	Triple-window video motion detection
Auto-Tracking	Auto-tracking on moving object
Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, audio detection
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server
General	
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V power input DC 12V power input Digital input*4 Digital output*2 RS-485 for PTZ control (PelcoD protocol, adjustable baud rate 2400~19200)
LED Indicator	System power and status indicator
Power Input	PoE plus (IEEE 802.3at compliant) DC 12V AC 24V
Power Consumption	PoE Plus: Max. 25.5W AC24V/DC12V: Max. 30W
Dimensions	Ø: 205 mm x 226 mm
Weight	Net: 2330 g
Safety Certifications	CE, 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)
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 7/Vista/XP/2000
Web Browser	Mozilla Firefox 7-10 (Streaming only) Internet Explorer 7/8/9/10
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
Others	Ceiling mount bracket, screws, terminal blocks, quick installation guide, warranty card, alignment sticker, T25 stardriver, software CD

Dimensions



Compatible Accessories

Mounting Kits			PoE Solution						
	AM-116/117 20/40 cm pendant pipe		AM-118 Indoor pendant head		AM-221 Goose neck mounting kit		AM-104 Recessed Kit		AW-FET-050A-065 4-port Unmanaged PoE Switch
	AM-231 Parapet mounting kit		AM-519 1.5" PT adapter		AM-521 Mounting adapter		AC-214 Smoked cover		AP-GIC-010A-030 1xGE IEEE 802.3at PoE Injector
Others									

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