VIVOTEK

S series

SD9161-H
Speed Dome Network Camera

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

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, tamper detection, 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
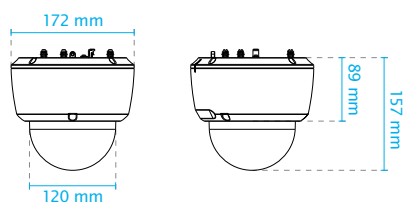- EIS (Electronic Image Stabilization) to Control Image Stability

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	90˚
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: MircoSD/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/1000 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: 0˚C ~ 55˚C (32˚F ~ 131˚F) Working Temperature: 0˚C ~ 55˚C (32˚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

172 mm
120 mm
89 mm
157 mm

Compatible Accessories

Mounting Kits	Others

AM-220
Wall Mount Bracket

IPD-USB
USB Joystick

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