VIVOTEK

S series **SD9365-EHL**
Speed Dome Network Camera

1080p 60 fps • 20x Zoom • 150M IR • Smart IR II • IP66 •
IK10 • NEMA 4X • -40°C ~ 55°C • Wiper

The SD9365-EHL is the latest professional speed dome camera with wiper from VIVOTEK, specifically designed to enhance low light surveillance in large coverage areas. Equipped with 150 M IR illuminators and a 20x optical zoom lens, the SD9365-EHL provides a superb low light image in the most challenging situations. The SD9365-EHL also adopts VIVOTEK's latest Smart IR II technology, Vari-Angle IR. VIVOTEK's Vari-Angle IR provides smooth vari-angle adjustment of the IR illuminators, allowing broad coverage FOV and highly uniform IR intensity while avoiding hot-spots traditionally associated with IR illumination.

The SD9365-EHL is the PTZ surveillance camera with IR Illumination to utilize H.265 compression technology. When combined with VIVOTEK's Smart Stream II technology users can obtain bandwidth savings of up to 80%* compared to traditional H.264. By combining 1080p full HD resolution with H.265, IR illuminators,

Vari-Angle IR, WDR, and 20x optical zoom, the SD9365-EHL is able to capture fine details at top-notch quality, 24 hours a day, 7 days a week.

VIVOTEK further strengthened the camera performance with an IP66- and NEMA 4X-rated housing to protect the camera against rain, dust, and corrosion. The SD9365-EHL has a wide operating temperature range from -40°C to 55°C, ensuring continuous operation under the most extreme weather conditions and hazardous environments. This makes the SD9365-EHL ideally suited to monitor wide open spaces such as ports, highways, cities, and parking lots where high-level precision is required.

* Depending on scene.

Key Features

· Real-time H.265, H.264 and MJPEG Compression (Triple Codec)
· 60 fps @ 1080p Full HD
· 20x Zoom Lens
· 150M IR with Smart IR II (Vari-Angle IR)
· WDR Pro for Unparalleled Visibility in High Contrast Environments
· Weather-proof IP66, Vandal-proof IK10 and NEMA 4X-rated Housing
· -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions
· Smart Stream II to Optimize Bandwidth Efficiency
· EIS
· Easy Cleaning with Built-in Wiper

Without Vari-Angle IR

With Vari-Angle IR

Technical Specifications

Model	SD9365-EHL(with Bracket, IO Cable) SD9365-EHL(without Bracket, IO Cable)

System Information

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

Camera Features

Image Sensor	1/3" Progressive CMOS
Max. Resolution	1920x1080
Lens Type	20x Optical Zoom, Auto Focus
Focal Length	f = 4.7 ~ 94 mm (20x zoom)
Aperture	F1.6 ~ F3.5
Iris type	DC-Iris
Field of View	3° ~ 55° (Horizontal) 2° ~ 33° (Vertical) 3° ~ 63° (Diagonal)
Shutter Time	1/8 sec. to 1/30,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
IR Illuminators	Built-in IR Illuminators up to 150 meters with Smart IR II, IR LED*2
Minimum Illumination	0.26 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on
Pan Speed	0.1° ~ 300° / sec
Pan Range	360° endless
Tilt Speed	0.1° ~ 300° / sec
Tilt Range	220° (-110° ~ +110°)
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: Micro SD/SDHC/SDXC card slot Seamless Recording

Video

Compression	H265, H264, MJPEG
Maximum Frame Rate	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080
Maximum Streams	4 simultaneous streams
S/N Ratio	53 dB
Dynamic Range	110 dB
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II

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, defog, 3DNR, EIS, HLC

Audio

Audio Capability	Two-way Audio
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, UDP, ICMP, ARP, TLS, NTCIP
Interface	10 Base-T/100 Base-TX 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, NAS server and Micro SD card File upload via HTTP, SMTP, FTP, NAS server and Micro SD card

General

Connectors	RJ-45 cable connector for Network 10/100 Mbps PoE connection*1 Audio input*1 Audio output*1 AC/DC 24V power input*1 Digital input*4 Digital output*2 RS-485 for PTZ control (PelcoD protocol, Baud rate 2400)*1
LED Indicator	System power and status indicator
Power Input	PoH/PoE (95W) AC/DC 24V
Power Consumption	PoH/PoE (95W): Max. 70 W (Heater on) Max. 39 W (Heater off) AC/DC 24V: Max. 96 W (Heater on) Max. 45 W (Heater off)
Dimensions	236.45 x 364.2 mm
Weight	7.1 kg (with bracket) 5.7 kg (without bracket)
Casing	IP66, IK10, NEMA 4X

Technical Specifications

Safety Certifications	CE, FCC Class A, VCCI, C-tick, NEMA 4X, UL
Operating Temperature	Starting Temperature: -40°C ~ 55°C (-40°F ~ 131°F) Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F)
Humidity	90%
Warranty	36 months

System Requirements

Operating System	Microsoft Windows 8/7
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	Wall mount bracket*, I/O cable*, screws, waterproof connectors, terminal blocks, quick installation guide, warranty card, alignment sticker, ground wire, T25 stardriver, software CD, desiccant bags *: Standard package for SD9365-EHL(with Bracket, IO Cable).

Dimensions

With bracket

326 mm

498.2 mm

Ø211.52 mm

Without bracket

236.45 mm

364.2 mm
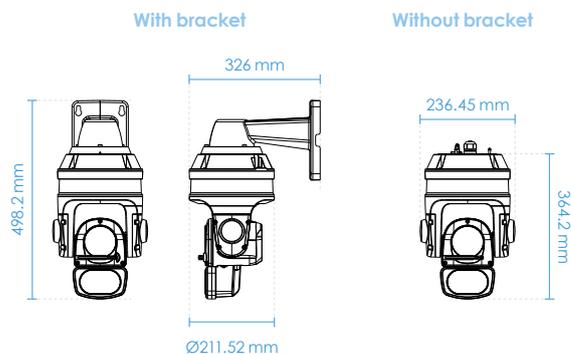
Ordering Information

Model		Description	P/N
SD9365-EHL	SD9365-EHL(with Bracket, IO Cable)	H.265 Full HD IR PTZ Camera (20x, 150M IR, Wiper), with Bracket and IO Cable	100155100G
	SD9365-EHL(without Bracket, IO Cable)	H.265 Full HD IR PTZ Camera (20x, 150M IR, Wiper), without Bracket and IO Cable	100181400G

Compatible Accessories

Mounting Kits		Others			
AM-220 Wall Mount Bracket	**AM-529** Mounting Adapter	**AE-301** Water Tank, 24VAC/DC, 0°C ~ 60°C	**AJ-001** USB Joystick	**AJ-002** USB Joystick	**AO-007** I/O Combo Cable

Cabinet

AT-CAS-001 Cabinet for Speed Dome	**AT-CAB-002** Cabinet for HLG Power Supply	**AT-SUN-002** Sunshield	**AT-SWH-000** Power Safety Kit	→

PoE Kit/Power Adapter

24VAC			24VDC
AA-341 AC 24V 3.5A Power Adapter	**AA-351** Outdoor Power Box, 24VAC/144W, IP67, IK10	**AA-352** Outdoor Power Box, 24VAC/144W, IP67, IK10	**HLG-120H-24** Industrial 24VDC/120W Power Supply, IP67

95W PoH/PoE

AW-IHH-0100 Industrial 1xGE 95W PoH/PoE Injector	**HLG-120H-54** Industrial 54VDC/120W Power Supply, IP67	**AW-IHH-0200** Industrial 1xGE 95W PoH/PoE + 1x SFP GE Switch	**HLG-120H-54** Industrial 54VDC/120W Power Supply, IP67	**AP-GIC-011A-095** 1xGE 95W PoH/PoE Injector with Surge Protection 12KV	**AP-GIC-015B-095** Outdoor 1xGE 95W PoH/PoE Injector with Surge Protection 12KV, IP67, IK10