VIVOTEK’s SD9361-EHL is a high performance H.265 Full HD speed dome network camera. Armed with a 20x optical zoom lens, the camera is able to capture fine details at top-notch quality. By combining both H.265 and VIVOTEK’s Smart Stream II technology which enables the camera to optimize quality for desired regions and therefore to maximize efficiency of bandwidth usage, it is capable of reducing both bandwidth and storage consumption by up to 80%* while maintaining the highest standard of image quality.

Offering extra smooth video quality with resolutions of up to 60 fps at 1920x1080, the SD9361-EHL is also equipped with WDR Pro, a True WDR, technology and IR-cut filter for seamless day/night operation. This enables the camera to cope effortlessly with the challenging lighting conditions faced in 24/7 surveillance. Further, the water-proof IP68-rated, vandal-proof IK10-rated and NEMA 4X-rated housing of the SD9361-EHL protects the camera body against rain, dust and corrosion and provides a wide operating-temperature range of between -40°C and 55°C. This combination of robustness and high performance ensures that the SD9361-EHL is especially suitable for monitoring wide, open, harsh indoor or outdoor spaces such as airports, highways and parking lots where high-level reliability and precision are called for.

* Depending on scene being monitored

**Key Features**

- H.265 Compression Technology
- 1080P Full HD CMOS Sensor
- 60 fps @ 1920x1080
- 20x Optical Zoom
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 220° Tilt
- WDR Pro, a True WDR, for Unparalleled Visibility in High Contrast Environments
- Smart Stream II to Optimize Bandwidth Efficiency
- Weather-proof IP68-rated, Vandal-proof IK10-rated and NEMA 4X Housing
- -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions
- Audio Detection for Instant Alerts
- Auto Tracking for Moving Objects
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Defog
- EIS

---

**Bitrate**

<table>
<thead>
<tr>
<th>Compression</th>
<th>Bandwidth Saving: Up to 80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.264</td>
<td></td>
</tr>
<tr>
<td>H.265 + Smart Stream II</td>
<td></td>
</tr>
</tbody>
</table>

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.
### Technical Specifications

**Model**  
SD9361-EHL(with Bracket, IO Cable)  
SD9361-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

**Maximum Resolution**  
1920x1080 (2MP)

**Lens Type**  
20x Optical Zoom, Auto Focus

**Focal Length**  
1~4.7 ~ 94 mm

**Aperture**  
F1.6 ~ F3.5

**Auto-iris**  
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, True WDR

**Day/Night**  
Removable IR-cut filter for day & night function

**Minimum Illumination**  
0.26 Lux @ F1.6 (Color)  
0.01 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, 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

**Compression**  
H.265, H.264, 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**  
True WDR, 110 dB

**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, HLC

**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/RTMP/RTSP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPoE, CoS, QoS, SNMP, 802.1X, NTPC, ICMP, ARP, SSL, TLS

**Interface**  
10 Base-T/100 BaseTX Ethernet (RJ-45)

### 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 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  
DC 24V / AC 24V power input  
Digital input*4  
Digital output*2  
RS-485

**LED Indicator**  
System power and status indicator

**Power Input**  
DC 24V  
AC 24V  
60W UPoE

**Power Consumption**  
Max. 48/26 W (Heater on/off)

**Dimensions**  
Ø 162 x 221 mm

**Weight**  
4.35 kg (with bracket)  
2.95 kg (without bracket)

**Casing**  
Weather-proof IP68-rated, Vandal-proof IK10-rated, and NEMA 4X-rated mated housing

**Safety Certifications**  
CE, FCC Class A, VCCI, C-tick, UL, NEMA 4X

**Operating Temperature**  
Starting Temperature: -40°C ~ 55°C (-40°F ~ 131°F)  
Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F)

**Humidity**  
0 ~ 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 combo cable*, screws, waterproof connectors, quick installation guide, alignment sticker, L-wrench, software CD, desiccant bags  
* Standard package for SD9361-EHL(with Bracket, IO Cable).

### Dimensions

<table>
<thead>
<tr>
<th>With bracket</th>
<th>Without bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø222.8 mm</td>
<td>Ø161.7 mm</td>
</tr>
<tr>
<td>331.4 mm</td>
<td>161.7 mm</td>
</tr>
<tr>
<td>Ø162.2 mm</td>
<td>Ø161.7 mm</td>
</tr>
<tr>
<td>331.4 mm</td>
<td>222.8 mm</td>
</tr>
</tbody>
</table>
### Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD9361-EHL (with Bracket, IO Cable)</td>
<td>H.265 Full HD PTZ Camera (20x), with Bracket and IO Cable</td>
<td>100143400G</td>
</tr>
<tr>
<td>SD9361-EHL (without Bracket, IO Cable)</td>
<td>H.265 Full HD PTZ Camera (20x), without Bracket and IO Cable</td>
<td>100181100G</td>
</tr>
</tbody>
</table>

### Compatible Accessories

#### Mounting Kits
- AM-220 Wall Mount Bracket
- AM-529 Mounting Adapter
- AJ-001 USB Joystick
- AJ-002 USB Joystick
- AO-003 I/O Combo Cable

#### Others
- AT-CAS-001 Cabinet for Speed dome, IP66, IK10
- AT-CAB-002 Cabinet for HLG Power Supply
- AT-SUN-002 Sunshield Power Safety Kit
- AT-SWH-000

#### Cabinet

#### PoE Kit/Power Adapter

<table>
<thead>
<tr>
<th>24VDC</th>
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</thead>
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<table>
<thead>
<tr>
<th>24VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA-341 AC 24V 3.5A Power Adapter</td>
</tr>
<tr>
<td>AA-352 Outdoor Power Box, 24VAC/144W, IP67, IK10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>60W UPoE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-IHU-0100 Industrial 1xGE 60W UPoE Injector + HLG-80H-54 Industrial 1xGE 54VDC/80W Power Supply, IP67 + AW-IHU-0200 Industrial 1xGE 60W UPoE + 1x SFP GE Switch + HLG-80H-54 Industrial 4xGE 60W UPoE + 2x GE SFP Switch</td>
</tr>
</tbody>
</table>

| AP-GIC-011A-060 1xGE 60W UPoE Injector with Surge Protection 12KV |
| AP-GIC-015B-095 Outdoor 1xGE 95W PoH/PoE Injector with Surge Protection 12KV, IP67, IK10 |

| AW-GEU-080A-250 Unmanaged 2xGE 60W UPoE Switch |

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