



# 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



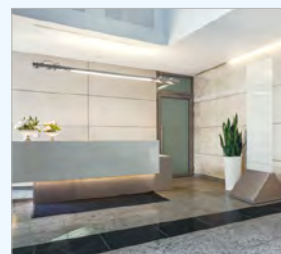
Full HD 1X



Full HD 18X



Airports



Lobby



Train Station



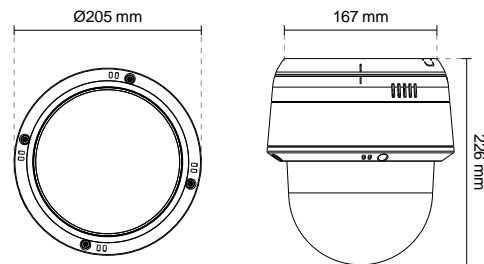
Shopping Mall

## Technical Specifications











|                               |   |
|-------------------------------|---|
| Model                         | SD8161  |
| <b>System Information</b>     |   |
| CPU                           | Multimedia SoC (System-on-Chip)   |
| Flash                         | 256 MB  |
| RAM                           | 512 MB  |
| <b>Camera Features</b>        |   |
| 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)<br>2' ~ 36' (Vertical)<br>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)<br>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)<br>Auto pan mode<br>Auto patrol mode  |
| On-board Storage              | MicroSD/SDHC/SDXC card slot   |
| <b>Video</b>                  |   |
| Compression                   | H.264, MJPEG  |
| Maximum Frame Rate            | 30 fps @ 1920x1080<br>In both compression modes   |
| Maximum Streams               | 4 simultaneous streams  |
| S/N Ratio                     | Above 67dB  |
| Dynamic Range                 | 60dB  |
| Video Streaming               | Adjustable resolution, quality and bitrate<br>Zoom enhancement for better image quality under limited bandwidth   |
| Image Settings                | Adjustable image size, quality and bit rate<br>Time stamp, text overlay, flip & mirror<br>Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (Up to 24)<br>Scheduled profile settings, 3D Noise Reduction |
| <b>Audio</b>                  |   |
| Audio Capability              | Audio input/output (full duplex)  |
| Compression                   | AAC, G.711, G.726   |
| Interface                     | External microphone input<br>External line output   |
| <b>Network</b>                |   |
| Users                         | Live viewing for up to 10 clients   |
| Protocols                     | IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTMP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X   |
| Interface                     | 10 Base-T/100 BaseTX Ethernet (RJ-45)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.  |

|                             |   |
|-----------------------------|---|
| ONVIF                       | Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>  |
| <b>Intelligent Video</b>    |   |
| Video Motion Detection      | Triple-window video motion detection  |
| Auto-Tracking               | Auto-tracking on moving object  |
| <b>Alarm and Event</b>      |   |
| 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<br>File upload via HTTP, SMTP, FTP and NAS server   |
| <b>General</b>              |   |
| Connectors                  | RJ-45 cable connector for Network/PoE connection<br>Audio input<br>Audio output<br>AC 24V power input<br>DC 12V power input<br>Digital input*4<br>Digital output*2<br>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)<br>DC 12V<br>AC 24V   |
| Power Consumption           | PoE Plus: Max. 25.5W<br>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)<br>Working Temperature: -10°C ~ 50°C (14°F ~ 122°F)   |
| Warranty                    | 36 months   |
| <b>System Requirements</b>  |   |
| Operating System            | Microsoft Windows 7/Vista/XP/2000   |
| Web Browser                 | Mozilla Firefox 7-10 (Streaming only)<br>Internet Explorer 7/8/9/10   |
| Other Players               | VLC: 1.1.11 or above<br>Quicktime: 7 or above   |
| <b>Included Accessories</b> |   |
| 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

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

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