



# SD8333-E

Speed Dome Network Camera

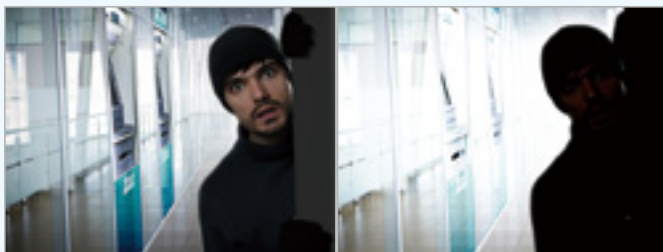
720p HD · 30x Zoom · NEMA 4X · IP66 · Defog · -40°C ~ 55°C · EIS · PoE Plus

VIVOTEK SD8333-E is part of the SUPREME series product line offering 720p HD resolution with superb image quality. Adopting a 30x optical zoom lens, the SD8333-E is able to capture details at top-notch quality. The IP66- and NEMA 4X-rated housing protects the camera body against rain, dust and corrosion within a wide temperature range between -40°C to 55°C. This feature ensures operation under extreme weather conditions and hazardous environments. It is especially suitable for monitoring wide open indoor/outdoor spaces such as airports, highways and parking lots where high-level reliability and precision are always required.

The SD8333-E supports high-performance H.264/MPEG-4/MJPEG compression technology and offers extra smooth video quality with resolution up to 60 fps @ 720p. Boasting WDR Pro technology, the SD8333-E 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 the built-in auto tracking feature, the SD8333-E provides instantaneous reaction to suspicious moving objects in wide area locations before operators are aware of activity.

## Key Features

- 720p HD CMOS Sensor
- 60 fps @ 720p HD
- 30x Zoom Lens
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 220° Tilt
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Weather-proof IP66-rated and NEMA4X Housing
- -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions
- 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 SD/SDHC/SDXC Card Slot for On-board Storage
- Defog



With WDR Pro

Without WDR Pro



Campus



Station



1x

30x



Airport



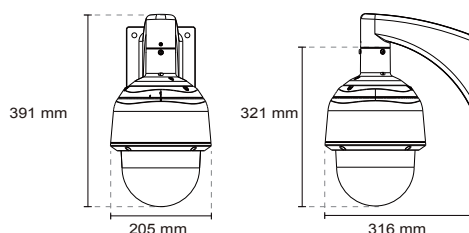
Port

## Technical Specifications

|                               |  |
|-------------------------------|--|
| Model                         | SD8333-E<br>SD8333-EM (With Electric Dehumidifier)   |
| <b>System Information</b>     |  |
| CPU                           | Multimedia SoC (System-on-Chip)  |
| Flash                         | 128 MB   |
| RAM                           | 256 MB   |
| <b>Camera Features</b>        |  |
| Image Sensor                  | 1/3" Progressive CMOS  |
| Maximum Resolution            | 1280x720   |
| Lens Type                     | 30x Optical Zoom, Auto Focus   |
| Focal Length                  | f = 4.3~129 mm (30x zoom)  |
| Aperture                      | F1.6 ~ F4.7  |
| Auto-iris                     | DC-iris  |
| Field of View                 | 2.1' ~ 57.8' (Horizontal)<br>1.2' ~ 34.5' (Vertical)<br>2.4' ~ 67.3' (Diagonal)  |
| Shutter Time                  | 1 sec. to 1/10,000 sec.  |
| WDR Technology                | WDR Pro  |
| Day/Night                     | Removable IR-cut filter for day & night function   |
| Minimum Illumination          | 0.15 Lux @ F1.6 (Color)<br>0.0048 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              | SD/SDHC/SDXC card slot   |
| <b>Video</b>                  |  |
| Compression                   | H.264, MJPEG & MPEG-4  |
| Maximum Frame Rate            | H.264:<br>60 fps @ 1280x720<br>MPEG-4:<br>60 fps @ 1280x720<br>MJPEG:<br>60 fps @ 1280x720<br>(Up to 30 fps in WDR mode)   |
| Maximum Streams               | 4 simultaneous streams   |
| S/N Ratio                     | Above 50 dB  |
| Dynamic Range                 | 110 dB   |
| 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<br>Defog |
| <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/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X   |
| Interface                     | 10Base-T/100 BaseTX Ethernet (RJ-45)   |

|                             |  |
|-----------------------------|--|
| 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              | Video motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, 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>Digital input*4<br>Digital output*2<br>RS-485 for PTZ control (PelcoD protocol, Baud rate 2400) |
| LED Indicator               | System power and status indicator  |
| Power Input                 | PoE plus (IEEE 802.3at compliant)<br>High Power PoE<br>AC 24V  |
| Power Consumption           | PoE plus:<br>Max. 19W<br>AC 24V:<br>Max. 48W (heater on)<br>Max. 19W (heater off)<br>High Power PoE:<br>Max. 48W (heater on)<br>Max. 19W (heater off)  |
| Dimensions                  | Ø: 205 mm x 321 mm   |
| Weight                      | Net: 3974 g  |
| Casing                      | Weather-proof IP66- and NEMA 4X-rated mated housing<br>Built-in electrical dehumidifier device (SD8333-EM)   |
| Safety Certifications       | CE, FCC Class A, VCCI, C-Tick, NEMA 4X   |
| Operating Temperature       | -5°C ~ 55°C (PoE Plus)<br>-40°C ~ 55°C (AC 24V)<br>-40°C ~ 55°C (High Power PoE)   |
| 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 9.x or 10.x   |
| 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                      | Wall mount bracket, screws, waterproof connectors, terminal blocks, quick installation guide, warranty card, alignment sticker, ground wire, T25 stardriver, software CD, desiccant bag                  |

## Dimensions



## Compatible Accessories

### Mounting Kits



**AM-118**  
Indoor pendant head



**AM-103**  
Recessed kit



**AM-519**  
1.5" PT adapter

### Power Adapter



**AA-341**  
AC 24V Power Adapter

### Others



**AC-212/AC-111**  
Smoked cover/  
Vandal proof  
transparent cover



**AO-001**  
Combo cable

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