### Technical Specifications

**Models**
SD8363E
SD8363E-M (electronic dehumidifier)

**System Information**
- CPU: MultiMedia SoC (System on Chip)
- Flash: TS16i
- RAM: 256 MB

**Camera Features**

<table>
<thead>
<tr>
<th>Image Sensor</th>
<th>Lens Type</th>
<th>Focal Length</th>
<th>Aperture</th>
</tr>
</thead>
</table>
| 1/1.8" Progressive CMOS | 20mm | 2.8 – 8.0 mm | F1.6 – 4.0 (VAR)

<table>
<thead>
<tr>
<th>Minimum Illumination</th>
<th>Max. Night Vision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.001 Lux @ F1.6, 50 IRE (B/W)</td>
<td>0.02 Lux @ F1.6, 50 IRE (Color)</td>
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<thead>
<tr>
<th>Image Settings</th>
<th>Audio Input/Output</th>
<th>Network Interface</th>
<th>Compression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe photographic image quality</td>
<td>4.7 – 94 mm</td>
<td>10Base-T/100BaseTX Ethernet (RJ-45)</td>
<td>H.264, MJPEG &amp; MPEG-4</td>
</tr>
</tbody>
</table>

- **Zoom Enhancement** for better image quality under limited bandwidth
- **Zoom enhancement** provides 60x optical zoom at 640x360 resolution by which VGA-level bandwidth is used to obtain image details as high as 1080p resolution.

**Functionality**

- **Preset Locations** 256 preset locations, 40 presets per tour
- **Tilt Speed** 0.05° ~ 450° / sec.
- **Day/Night** 30 fps @ 1920x1080
- **WDR Technology** 0.001 Lux @ F1.6, 50 IRE (B/W)
- **Auto-iris** 0.02 Lux @ F1.6, 50 IRE (Color)
- **Aperture** F1.6 (wide) ~ F3.5 (tele)
- **Focal Length** f = 4.7 ~ 94 mm
- **Lens Type** 20x optical zoom, auto focus
- **Image Sensor** 1/2.8" Progressive CMOS
- **RAM** 256 MB
- **Flash** 128 MB
- **Multimedia SoC (System-on-Chip)**
- **SD8363E-M (electronic dehumidifier)**

**Connectors**

- Audio input/output (full duplex)
- External line output
- External microphone input
- Network/PoE connection: RJ-45 cable connector

**Audio**

- Audio input
- Audio output
- AC 24V power input
- Digital input 4
- Digital output 2
- RS-485 for PTZ control (PelcoD protocol, Baud rate 2400)
- Power Consumption
  - Max. 19W
  - AC 24V
  - Max. 48W (heater on)
  - Max. 48W (heater on)
  - Max. 19W

**Video**

- 1080p Full HD
- Maximum Frame Rate
  - 30 fps @ 1280x720
  - 25 fps @ 1920x1080
  - 20 fps @ 1920x1080
  - 15 fps @ 1920x1080
- MJPEG: 120 fps @ 640x480
- MPEG-4: 30 fps @ 1920x1080
- H.264: H.264, MJPEG & MPEG-4

**Image Settings**

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<th>Image Sensor</th>
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<td>1/1.8&quot; Progressive CMOS</td>
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**Video Motion Detection**

- triple-window video motion detection
- Motion detection using digital output, HTTP, SMTP, FTP, and NAS server

**Alarm Events**

- Motion detection, manual trigger, periodic trigger, system boot, recording notification, audio detection

**Dimensions**

- 381 mm x 321 mm x 165 mm
- Weight 3.91 kg

**Supplementary**

- **SD8363E/63E-M**
- **SD8363E** part of the SUPREME series product line offering 1080p Full HD resolution with superb image quality.
- Adopting a 20x optical zoom lens, the SD8363E is able to capture details at top-notch quality. The IP67 and NEMA 4X-rated housings protect the camera body against rain, dust, and corrosion within a wide temperature range of 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 SD8363E supports high-performance H.264/MPEG-4/MJPEG compression technology and offers extra smooth video quality with resolution up to 30 fps @ 1080p. Boasting WDR Pro technology, the SD8363E can also cope with challenging lighting conditions and generate image quality close to the capabilities of the human eye. With a sophisticated parallax 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 SD8363E provides instantaneous reaction to suspicious moving objects in wide area locations before operators are aware of activity.

As with all VIVOTEK true day/night cameras, the SD8363E features a removable IR-cut filter, maintaining clear images 24 hours a day. With a audio detection, by recognizing increases or decreases in sound volume, an additional layer of intrusion detection is ensured. Zoom enhancement provides 60x optical zoom at 640x360 resolution by which VGA-level bandwidth is used to obtain image details as high as 1080p resolution. With other advanced features such as SD/SDHC/SDXC card slot, 802.3at compliant PoE Plus and 60 fps high quality video, the SD8363E is the best choice for the most demanding outdoor surveillance applications.
The audio detection feature enables an event trigger when a sudden, unexpected increase or decrease in sound volume occurs so as to alert users of a possible emergency situation.

Audio Detection for Instant Alerts
Auto Tracking for Moving Objects

SD8363E has a pan range of 360° and tilt range of 220°. With the additional 20° tilt range, the SD8363E is able to expand the viewing range to the field above the normal horizontal view. Additionally, the SD8363E is built with QuickPan technology, allowing for 360° endless panning at a speed of 450° per second. This allows users to quickly direct the camera lens to catch any object of interest in the field of view surrounding the camera.

Zoom Enhancement
Utilizing a 20x optical zoom lens, the SD8363E provides close-up images with 1080p detail and effectively extends the user’s viewing distance. Even under limited bandwidth environments, users can take advantage of the VIVOTEK Zoom enhancement feature to obtain image detail as high as 1080p resolution using VGA-level bandwidth.

Advanced Mechanism

Unparalleled Visibility in High Contrast Environments
When a camera is used in a high contrast, backlight, glare or light reflective environment, such as a building entrance, ATM or window, an object may appear dark and unrecognizable. WDR (Wide Dynamic Range) technology compensates for the unbalanced lighting, restoring the details throughout the field of view. With this feature, the SD8363E is able to maintain image quality even under challenging light conditions.

• WDR Pro
WDR Pro works by capturing alternate frames using different exposure times. An image signal processor (ISP) then uses a sophisticated algorithm to seamlessly combine the optimal portions of these two complementary frames to create a composite frame that retains details in both the dark and bright areas of the field of view.

• Weather-proof IP67-rated and NEMA 4X Housing
The weather-proof IP67- and NEMA 4X-rated housing protects the SD8363E from rain, dust, and corrosion, allowing the device to operate outdoors under a multitude of weather conditions.

• Extreme Weatherproof
The wide temperature range (-40°C ~ 55°C) enhances the SD8363E’s performance and reliability under extremely harsh weather conditions.

• 1080p Full HD SONY CMOS Sensor
• 30 fps @ 1080p Full HD
• 60 fps @ 720p HD
• 20x 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 IP67-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 802.3at Compliant PoE Plus
• 3D Privacy Masks for Additional Protection
• Built-in SD/SDHC/SDXC Card Slot for On-board Storage