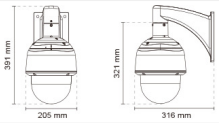
Technical Specifications

Models	SD8314E/SD8324E (18x zoom) SD8316E/SD8326E (36x zoom)
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB
Camera Features	
Image Sensor	1/4" Progressive CCD
Maximum Resolution	720x480/NTSC (SD8314E/16E) 720x576/PAL (SD8324E/26E)
Lens Type	18x Optical Zoom (SD8314E/24E) 36x Optical Zoom (SD8316E/26E) Auto Focus
Focal Length	f = 4.1 ~ 73.8 mm (SD8314E/24E) f = 3.4 ~ 122.4 mm (SD8316E/26E)
Aperture	F1.4 ~ F3.0 (SD8314/24E) F1.6 ~ F4.5 (SD8316/26E)
Auto-iris	DC-iris
Field of View	SD83x4E: 3° ~ 48° (Horizontal) 2° ~ 37° (Vertical) 4° ~ 58° (Diagonal) SD83x6E: 2° ~ 58° (Horizontal) 1° ~ 44° (Vertical) 2° ~ 70° (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	0.01 Lux @ F1.4, 50IRE (Color) 0.001 Lux @ F1.4, 50 IRE (B/W) (SD8314E/24E) 0.01 Lux @ F1.6, 50IRE (Color) 0.001 Lux@F1.6, 50 IRE (B/W) (SD8316E/26E)
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
Pan/tilt/zoom Functionalities	12x digital zoom (12x built-in) Auto pan mode Auto patrol mode
On-board Storage	SD/SDHC/SDXC card slot
Video	
Compression	H.264, MJPEG, MPEG-4
Maximum Frame Rate	60 fps @ 720x480(SD8314E/16E) Up to 30 fps in WDR mode 50 fps @ 720x576(SD8324E/26E) Up to 25 fps in WDR mode In all compression
Maximum Streams	4 simultaneous streams
S/N Ratio	Above 48 dB
Dynamic Range	72 dB
Video Streaming	Adjustable resolution, quality and bitrate
Image Settings	Adjustable image size, quality and bit rate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (Up to 24) Scheduled profile settings Electrical Image Stabilizer (SD8316E/26E)
Audio	
Audio Capability	Two-way Audio (full duplex)
Compression	GSM-AMR, AAC, 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
Interface	10Base-T/100 BaseTX Ethernet (RJ-45)
ONVIF	Supported, specification available at www.onvif.org
Intelligent Video	
Video Motion Detection	Triple-window video motion detection
Auto-Tracking	Auto-tracking on moving object
Alarm and Event	
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 File upload via HTTP, SMTP, FTP and NAS server
General	
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V power input DC 12V power input Digital input*4 Digital output*2 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) High Power PoE AC 24V
Power Consumption	PoE Plus: Max. 19W AC 24V: Max. 46W (heater on) Max. 19W (heater off) High Power PoE: Max. 46W (heater on) Max. 19W (heater off)
Dimensions	Ø: 205 mm x 321 mm
Weight	Net: 3,660 g
Casing	Weather-proof IP66- and NEMA 4X-rated housing
Safety Certifications	CE, FCC Class A, VCCI, C-tick, NEMA 4X
Operating Temperature	-5°C ~ 55°C (PoE Plus) -40°C ~ 55°C (AC 24V) -40°C ~ 55°C (High Power PoE)
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 7/vista/XP/2000
Web Browser	Mozilla Firefox 7~10 (Streaming only) Internet Explorer 7.x or 8.x
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
Others	Wall mount bracket, screws, waterproof connectors, terminal blocks, RJ45 coupler, Ethernet cable, quick installation guide, warranty card, alignment sticker, T25 stardriver, seal ring, software CD

Dimensions



Compatible Accessories

Mounting Kits

AM-103 Recessed kit

AM-116 20 cm pendant pipe

AM-117 40 cm pendant pipe

AM-118 Indoor pendant head

AM-231 Parapet mounting kit

AM-221 Goose neck mounting kit

Mounting Kits

AM-311 Pole Mount Adaptor

AM-411 Corner Mount Adaptor

AM-711 Junction Box

AM-114 Outdoor pendant Head

AM-519 1.5" PT adapter

Power Adapter

AA-341 AC 24V power adapter

PoE Kits

AP3001 PoE plus injector

AP-331 High power PoE injector

Others

AC-212 Smoked cover

AC-111 Vandal-proof transparent cover

AO-001 Combo cable

IPD-USB USB Joystick

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Ver 1.0

VIVOTEK
BUILT WITH RELIABILITY

Speed Dome Network Camera
SD83x4/x6E

D1 • 18x/36x Zoom • NEMA 4X • IP66 •
Extreme Weatherproof • PoE Plus

VIVOTEK SD8314E/24E/16E/26E is part of the SUPREME series product line offering D1 resolution with superb image quality. Adopting a 18x/36x optical zoom lens, the SD8314E/24E/16E/26E 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 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.

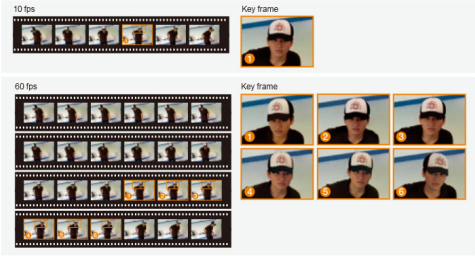
The SD8314E/24E/16E/26E supports high-performance H.264/MPEG-4/MJPEG compression technology and offers extra smooth video quality with resolution up to 60 fps @ D1. Boasting WDR Pro Technology, the SD8314E/24E/16E/26E can also cope with challenging lighting conditions and generate image quality close 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 for patrolling. With the built-in auto tracking feature, the SD8314E/24E/16E/26E 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 SD8314E/24E/16E/26E features a removable IR-cut filter, maintaining clear images 24 hours a day. With audio detection, by recognizing increases or decreases in sound volume, an additional layer of intrusion detection is ensured. With other advanced features such as SD/SDHC/SDXC card slot, 802.3at compliant PoE Plus and 60 fps high quality video, the SD8314E/24E/16E/26E is the best choice for the most demanding outdoor surveillance applications.

SUPREME

60 fps Raises Recognition Accuracy

The VIVOTEK SD8314E/24E/16E/26E is able to transmit 60 fps @ D1 resolution with H.264 compression, whereas a conventional megapixel camera can generally only achieve 10 to 15 fps due to hardware limitations. 60 fps provides a significant advantage as it enables viewing and recording footage at an exceptional frame rate. This feature provides a more complete record of an event and ensures accurate target identification. The more images or frames that can be captured and delivered to a facial recognition database, the more forensic evidence is available for biometric pairing, significantly increasing the level of accuracy.



Advanced Mechanism

SD8314E/24E/16E/26E has a pan range of 360° and tilt range of 220°. With the additional 20° tilt range, the SD8314E/24E/16E/26E is able to expand the viewing range to the field above the normal horizontal view. Additionally, the SD8314E/24E/16E/26E 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.

Clear Images 24/7

The FD8362/62E deliver day & night functionality with a built-in removable IR-cut filter. By day, the IR-cut filter screens out infrared light to reduce color distortion, and at night, the filter is removed to accept infrared light for higher lighting efficiency.

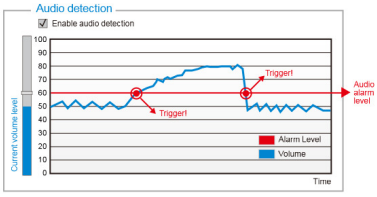
Day Night

Auto Tracking for Moving Objects

The auto tracking feature provides instantaneous reaction to suspicious moving objects over a wide area before an operator may be aware of activity. Users are able to define the target object size in order to render auto tracking more effectively.

Audio Detection for Instant Alerts

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.

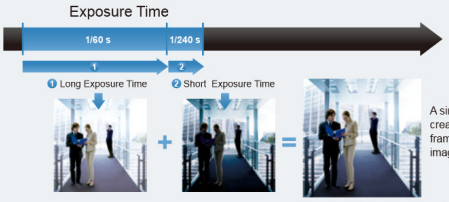


Unparalleled Visibility in High Contrast Environments

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 SD8314E/24E/16E/26E 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.



A single high-contrast frame is created by combining the two frames using an advanced image signal processor.

(Note: Frame rate drops by half when using WDR Pro.)

Extreme Weatherproof

• Wide Temperature Range

The wide temperature range (-40°C ~ 55°C) enhances the SD8314E/24E/16E/26E' s performance and reliability under extremely harsh weather conditions.

• IP66-rated and NEMA 4X Housing

The weather-proof IP66- and NEMA 4X-rated housing protects the camera from rain, dust, and corrosion, allowing the device to operate outdoors under a multitude of weather conditions.

SD83x4E/x6E | Speed Dome Network Camera

- D1 SONY Exview HAD CCD Sensor
- 60 fps @ D1
- 18x / 36x Zoom Lens
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- 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)
- 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

ONVIF