SUPREME
A NEW DEFINITION OF HD

1.3MP | Night Visibility | Day/Night | SD/SDHC Card | PoE

System

· CPU: TI DM365 SoC
· Flash: 128MB
· RAM: 256MB
· Embedded OS: Linux 2.6

Lens

· CS-mount, vari-focal, f = 3.1 ~ 8 mm, F1.2, auto-iris
· Removable IR-cut filter for day & night function

Angle of View

· 35.2° ~ 90.7° (horizontal)

Shutter Time

· 1/5 sec. to 1/40,000 sec.

Image Sensor

· 1/3" CMOS sensor in 1280x1024 resolution

Minimum Illumination

· 0.04 Lux / F1.2 (Color)
· 0.001 Lux / F1.2 (B/W)

Video

· Compression: H.264, MJPEG & MPEG-4
· Streaming:
  Multiple simultaneous streams
  H.264 streaming over UDP, TCP, HTTP or HTTPS
  MPEG-4 streaming over UDP, TCP, HTTP or HTTPS
  MPEG-4 multicast streaming
  MJPEG streaming over HTTP or HTTPS
· Supports activity adaptive streaming for dynamic frame rate control
· Supports ePTZ for data efficiency
· Supports 3GPP mobile surveillance
· Frame rates:
  H.264: Up to 30 fps at 1280x1024
  MPEG-4: Up to 30 fps at 1280x1024
  MJPEG: Up to 30 fps at 1280x1024
· Interface:
  BNC connector for video output
  NTSC/PAL video output switch

Image Settings

· Adjustable image size, quality and bit rate
· Time stamp and text caption overlay
· Flip & mirror
· Configurable brightness, contrast, saturation, sharpness, white balance and exposure
· AGC, AWB, AES
· Automatic, manual or scheduled day/night mode
· BLC (Backlight Compensation)
· Supports privacy masks

Audio

· Compression:
  GSM-AMR speech encoding, bit rate: 4.75 kbps to 12.2 kbps
  MPEG-4 AAC audio encoding, bit rate: 16 kbps to 128 kbps
  G.711 audio encoding, bit rate: 64 kbps, μ-Law or A-Law mode selectable
· Interface:
  Built-in microphone
  External microphone input
  Audio output
  External/Internal microphone switch
· Supports two-way audio via SIP protocol
· Supports audio mute

Networking

· 10/100 Mbps Ethernet, RJ-45
· Onvif support
· Protocols: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP and 802.1x

Alarm and Event Management

· Triple-window video motion detection
· Tamper detection
· One D/I and one D/O for external sensor and alarm
· Event notification using HTTP, SMTP or FTP
· Local recording of MP4 file

On-board Storage

· SD/SDHC card slot
· Stores snapshots and video clips

Security

· Multi-level user access with password protection
· IP address filtering
· HTTPS encrypted data transmission
· 802.1X port-based authentication for network protection

Users

· Live viewing for up to 10 clients

Dimension

· 154 mm (D) x 72 mm (W) x 62 mm (H)

Weight

· Net: 664 g (Without lens)

LED Indicator

· System power and status indicator
· System activity and network link indicator

Power

· 12V DC
· 24V AC
· Power consumption: Max. 3.6 W
· 802.3af compliant Power-over-Ethernet (Class 2)

Approvals

· CE, LVD, FCC, VCCI, C-Tick

Operating Environments

· Temperature: -10 ~ 50 °C (14 ~ 122 °F)
· Humidity: 90% RH

Viewing System Requirements

· OS: Microsoft Windows 7/Vista/XP/2000
· Browser: Mozilla Firefox, Internet Explorer 6.x or above
· Cell phone: 3GPP player
· Real Player: 10.5 or above
· Quick Time: 6.5 or above

Installation, Management, and Maintenance

· RS-485 interface for scanners, pan/tilts
· Installation Wizard 2
· 32-CH ST7501 recording software
· Supports firmware upgrade

Applications

· SDK available for application development and system integration

Warranty

· 36 months

Fixed Network Camera
IP8151

Supreme Night Visibility • Full Frame Rate • 1.3MP

VIVOTEK IP8151 represents the next-generation in video quality in network cameras. As the first 1.3 Megapixel IP camera in VIVOTEK's new line of professional SUPREME Series products, users will be able to experience the utmost in picture clarity through utilization of SONY's latest sensor technology, dubbed "Exmor™", which enables the IP8151 to capture exceptional details during daytime, as well as offer unparalleled visibility under low-light conditions through its Supreme Night Visibility feature.

The IP8151 camera supports the industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth. With MPEG-4 and MJPEG compatibility also included, video streams can be transmitted in any of these formats for versatile applications.

Also featuring a myriad of other high-end features such as SDHC card slot, PoE, multiple streams, and more, the IP8151 camera is the ideal choice for the most demanding monitoring applications. By providing sharp, smooth video, plus exceptional performance in low-light conditions, the IP8151 can secure a variety of sites such as retails stores, school campuses, and much more.

*Exmor is a trademark of Sony.

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BUILT WITH RELIABILITY
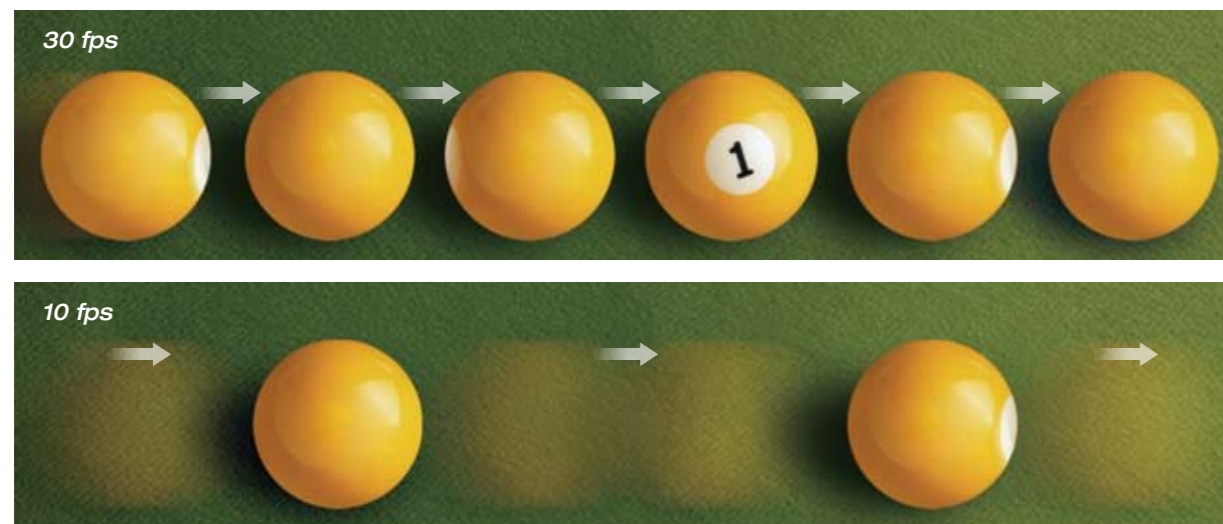
Supreme Night Visibility

SONY's Exmor™, the most well known back-illuminated CMOS technology, has been used in consumer electronics such as digital cameras and digital camcorders and has proven to be a great success in capturing video in low light conditions. Thus, with the IP8151, which features this sensor specifically designed for the security market, this next-generation camera can surpass the performance of traditional cameras in low light environments. Traditionally, megapixel cameras require more light to achieve the picture clarity for object identification. With 1.3 megapixel being the most popular megapixel camera standard today, VIVOTEK has explored how to achieve better image quality and usability through integration of the latest technologies.

Conventional Day & Night

*Exmor is a trademark of Sony.

Full Frame Rate at 1.3 Megapixel

The frame rate of traditional megapixel cameras are limited to only 10~15 fps due to hardware limitations. However, the IP8151, equipped with Texas Instrument's newest chipset "DaVinci™", is able to transmit 1.3 Megapixel resolution video at 30fps compressed with H.264. The ability to view and record at a full frame rate brings many potential benefits. For example, if an object or person passes through the camera view at high speed, a 10fps camera might only capture 1 frame including the target, making identification difficult if that frame does not contain adequate information. However, under the same circumstances, an IP8151 can capture 3 frames of the target, including details at multiple instances when the event occurs.

30 fps

10 fps

*DaVinci is a trademark of Texas Instruments.

Applications

Parking Lot

With supreme night visibility, IP8151 is the perfect choice for indoor/outdoor parking lots. The colors of the cars and passengers are clearly seen and recorded without external illumination. IP8151 can perfectly protect both human and cars at both day and night.

Campus

With high sensitivity & day/night function, IP8151 is also capable of campus monitoring. When there are true black areas, IR illuminators can be installed to avoid "black spots" of security. The high sensitivity further increases the range of IR, making IP8151 the perfect choice of campus monitoring

IP8151   Conventional   With IR Light   Without IR Light

Traffic Surveillance

In traffic monitoring, the most important thing is to see the details of fast-moving cars. IP8151 is capable of capturing fast-moving vehicles by the ability to record 30fps at 1.3-megapixel resolution. With supreme night visibility, IP8151 can still capture moving vehicles under low-light circumstances.

Product Features

IP8151 Fixed Network Camera

Supreme Night Visibility • Full Frame Rate • 1.3MP

- 1.3 Megapixel CMOS Sensor
- Supreme Night Visibility
- Up to 30 fps @ 1280x1024
- 3.1 ~ 8 mm Vari-focal, Auto-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Multiple Simultaneous Streams
- ePTZ for Data Efficiency
- Activity Adaptive Streaming for Dynamic Frame Rate Control
- Tamper Detection for Unauthorized Changes
- Built-in SD/SDHC Card Slot for On-board Storage
- Built-in 802.3af Compliant PoE
- CS- or C-mount Adjustment Ring for Flexible Lens Installation
- Supports ONVIF Standard to Simplify Integration and Enhance Interoperability

ONVIF