Technical Specifications

SUPREME
A NEW DEFINITION OF HD

2 MP · 1080P Full HD · Focus Assist · WDR Enhanced · SD/SDHC Card

System
- CPU: TI DM368 SoC
- Flash: 128MB
- RAM: 256MB
- Embedded OS: Linux 2.6

Lens
- CS-mount, vari-focal, f = 3.1 ~ 8 mm, F1.2, auto iris (IP8162)
- CS-mount, vari-focal, f = 3.1 ~ 8 mm, F1.2, P-iris (IP8162P)
- Removable IR-cut filter for day & night function

Field of View
- 42.2°~105.4° (horizontal)
- 23.8°~57.9° (vertical)
- 48.3°~123.1° (diagonal)

Shutter Time
- 1/5 sec. to 1/32,000 sec.

Image Sensor
- 1/2.7" CMOS sensor in 1920 x 1080 resolution

Minimum Illumination
- 0.06 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
  H.264/MPEG-4 multicast streaming
  MJPEG streaming over HTTP or HTTPS
- Supports activity adaptive streaming for dynamic frame rate control
- Supports video cropping for bandwidth saving
- Supports ePTZ for data efficiency
- Supports 3GPP mobile surveillance
- Frame rates:
  H.264:
  Up to 30 fps at 1280x720
  Up to 30 fps at 1920x1080
  MPEG-4:
  Up to 30 fps at 1280x720
  Up to 27 fps at 1920x1080
  MJPEG:
  Up to 30 fps at 1280x720
  Up to 30 fps at 1920x1080
- Interface:
  BNC connector for video output
  NTSC/PAL video output switch
  Focus assist button

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
- WDR enhanced
- 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
- 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
  Note: No SD/SDHC card slot & local storage function for Argentina.

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

Weight
- IP8162P Net: 674 g (Without lens)

LED Indicator
- System power and status indicator
- System activity and network link indicator

Power
- 12V DC
- 24V AC
- Power consumption: Max. 4.92W
- 802.3af compliant Power-over-Ethernet (Class 3)

Approvals
- CE, LVD, FCC, VCCI, C-Tick, UL

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

Dimension
- 154 mm (D) x 72 mm (W) x 62 mm (H) (Without lens)
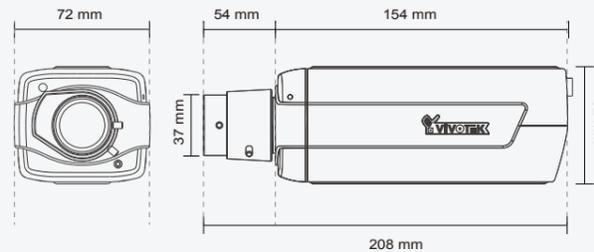
72 mm   54 mm   154 mm
37 mm   62 mm
208 mm

Fixed Network Camera
IP8162/62P

2-megapixel • Full HD • Focus Assist • WDR Enhanced

VIVOTEK IP8162/62P are part of the SUPREME series product line offering 1080p HD resolution with superb image quality. The camera can capture a more comprehensive view than a standard VGA camera, significantly reducing the number of cameras required. It is especially suitable for monitoring wide open spaces such as building entrances, airports, or applications requiring accurate identification.

The IP8162/62P employ many advanced features to allow users to fully enjoy the high definition video. With high performance H.264/MPEG-4/MJPEG compression technology, the camera offers high-quality video in full HD @ 30fps with a minimum of bandwidth consumption. The Video Cropping feature allows a user to only transfer user-defined regions for viewing instead of an entire scene, which can also be used to optimize bandwidth and enhance storage efficiency. The ePTZ function enables users to zoom in and focus on a region of interest in the camera view with only a few clicks, providing an additional level of image enhancement.

Additional value-added functions that give users more flexibility and efficiency of use include WDR Enhancement, which allows users to identify image details in extremely bright and dark environments. The Focus Assist button can aid an installer to precisely adjust the camera. When pressing the Focus Assist button on the camera unit, an indicator will be displayed on screen with detailed focusing information, which will vary in accordance with the manual adjustment. Moreover, holding down the button will zoom in on the target area for fine tuning, resulting in better usability and picture clarity. The IP8162P model comes with an advanced P-Iris lens, which controls the iris opening with extreme precision at an optimal level at all times via the built-in stepper motor, resulting in superior sharpness and depth of field as well as image quality.

As with all VIVOTEK true day/night cameras, the IP8162/62P feature a removable IR-cut filter, maintaining clear images 24 hours a day. Together with WDR Enhancement, users can identify image details in extremely bright as well as dark environments. Also featuring a myriad of other high-end features such as SDHC card slot*, PoE, multiple streams, and the included 32-CH recording software, the IP8162/62P is indisputably the top choice for reliable and high performance megapixel surveillance.

* No SD/SDHC card slot & local storage function for Argentina.

VIVOTEK BUILT WITH RELIABILITY
www.vivotek.com

1080p Resolution at Full Frame Rates

The VIVOTEK IP8162/62P are able to transmit two-megapixel video at 30 fps rates with H.264 compression, while conventional megapixel cameras generally only achieve 10 to 15 fps due to hardware limitations. The ability to view and record footage at a full frame rate enables much more effective surveillance.

FULL HD
1920X1080

For example, if a person or object of interest passes quickly through the camera's field of view during an event, a 10 fps frame rate might mean only a single frame with the target is captured, while the IP8162/62P would capture three frames, providing a fuller record of the event and more reliable identification of the target.

Wide Coverage, Exceptional Details

The IP8162/62P can capture a much more extensive area than a standard VGA camera can, significantly reducing the number of cameras required. It is especially well suited to monitoring broad indoor spaces such as building entrances and airport terminals, and is highly effective for applications requiring accurate recognition, such as identification of people or license plate numbers.

640X480 (VGA) 720X480 (D1) 1280X720 (720p) 1920X1080 (1080p)

640X480 (VGA)

1920X1080 (1080p)

Enhanced Clarity

P-iris Lens (IP8162P only)

• Configurable iris
• Applicable depth of field
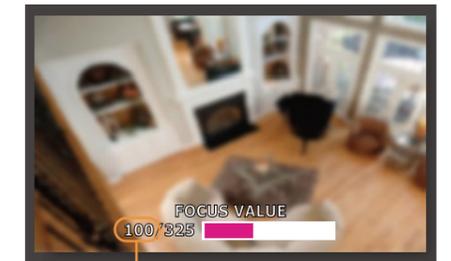• Optimal image quality

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P-iris Lens

Conventional Lens

Focus Assist Button

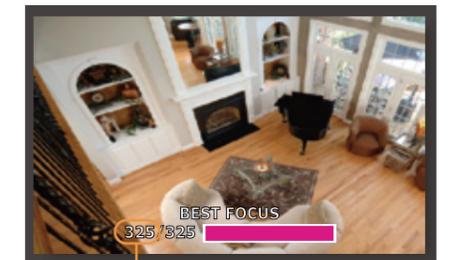• Easy installation
• Accurate focus adjustment

Back Panel

Focus Assist Button

Focus Assist

FOCUS VALUE
100 / 325

Current focus value

BEST FOCUS
325 / 325

The best focus value

WDR Enhanced

When filming in high-contrast light conditions where backlighting or glare is present—as is often found around building entrances, in ATMs, or near windows—both dark and bright areas lose detail. WDR Enhanced technology compensates for the unbalanced lighting, restoring detail throughout the field of view, so as to give user unparalleled visibility to identify images.

With WDR Enhanced

Without WDR Enhanced

Product Features

IP8162/62P Fixed Network Camera

2-megapixel • Full HD • P-iris • Focus Assist • WDR Enhanced

• 3.1 ~ 8 mm Vari-focal, Auto-iris Lens (IP8162)
• 3.1 ~ 8 mm Vari-focal, P-iris Lens (IP8162P)
• Up to 30 fps @ 1080p Full HD
• Removable IR-cut Filter for Day and Night Function
• Built-in Focus Assist Button for Precise Focus Adjustment
• Supports WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
• Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
• Multiple Simultaneous Streams
• Video Cropping for Bandwidth Savings
• ePTZ for Data Efficiency
• Activity Adaptive Streaming for Dynamic Frame Rate Control
• Built-in 802.3af Compliant PoE
• Built-in SD/SDHC Card Slot for On-board Storage*

Onvif

* No SD/SDHC card slot & local storage function for Argentina.