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PRODUCT CATALOGUE



Network Cameras | Video Servers | Video Receiver | Network Video Recorders | Central Management Software

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OVERVIEW

VIVOTEK INC., established in 2000, has quickly taken its place as a leading brand in the security industry. Known for delivering world-class IP surveillance solutions, VIVOTEK specializes in audiovisual compression and integration. With the innovative R&D teams adopting sophisticated codec technologies, VIVOTEK provides a wide range of products, including network cameras, video servers, video receivers and central management systems. VIVOTEK (TAIEX: 3454) was listed on the Taiwan Stock Exchange in 2006 and moved from Over-the-Counter to the major exchange market in 2011. In 2007, VIVOTEK spun off the SoC division into a separate company named VATICS. In 2008, a branch office was established in California, USA in order to provide more sales services and technical support.

VIVOTEK is currently working with more than 160 authorized distributors in more than 80 countries. For more information, please visit <http://www.vivotek.com>.



Mozart 380 VIVOTEK's High-performance SoC



VIVOTEK's powerful SoC significantly enhances the video codec performance of network devices in H.264/MPEG-4/MJPEG, offering extra smooth video quality with resolution at up to 30 fps @ 1080p Full HD.

SUPREME
A NEW DEFINITION OF HD

FULL HD
1920X1080

VIVOTEK is constantly striving to provide the highest quality network cameras to meet the most technically demanding and professional surveillance market requirements. The launch of the SUPREME series not only marks VIVOTEK's entry into a new era of technology and professional project markets, but also brings a new definition to HD surveillance video.

SUPREME - A New Definition of HD

SUPREME series cameras are characterized by their extreme video clarity, which ensures accurate color reproduction and fulfills requirements for the most critical application environments. High definition 2-, 3-, and 5-Megapixel resolution ensure exceptional details and razor-sharp images. Exceptional 60 fps @ 720p HD as well as 30fps @ 1080p Full HD ensure smooth, crystal-clear video when monitoring fast-moving scenes or action at high speed.

Advanced Features

The following are key advanced features offered on SUPREME series models:

Utilizing the latest in sensor and color reproduction technology, **Supreme Night Visibility** makes for clear, vivid nighttime video with outstanding image quality. In addition, the adoption of the newest **P-iris** lens technology offers optimal video in all lighting conditions with better contrast, clarity, and depth of field.

VIVOTEK's new **Smart Focus System** consists of a Focus Assist button and Remote Focus. To make installation and adjustment easier, VIVOTEK cameras with the Smart Focus feature adopts lenses with a built-in stepper motor that the installer can use to remotely control the focal length and focus, ensuring hassle-free installation and maintenance. As for outdoor series cameras, the implementation of **Extreme Weatherproof**, including Wide Temperature Range and IP66/67 Outdoor Rating, makes the SUPREME series models with this feature extremely durable and reliable in harsh conditions.



The new SUPREME series cameras boast superior performance and establishes a new benchmark for VIVOTEK.

Extreme Protection for
Extreme Environments



WHY IP Surveillance

1 Remote Accessibility

All video streams on VIVOTEK cameras and devices can be accessed by users, allowing them to view superior quality images in different resolutions anywhere, anytime via the Internet or through a 3GPP network. The transmitted video can be stored and retrieved at either locally or remotely for security management and loss prevention. An open IP architecture allows users to significantly enhance surveillance capabilities with flexibility, efficiency, and convenience.

2 Real-time Video Transmission

VIVOTEK IP surveillance solutions allow users to display high quality video in real time and assign alerts via motion detection, event triggers, and tampering detection. This real time information allows security management to be more efficient, intelligent, and cost-effective when a threat is present. Thanks to the real-time transmission, IP surveillance is moving beyond security to find new, diverse applications in digital home, retail stores, government, transportation, banking, school, warehouse, manufacturing, and much more.

3 Cost-saving Investment

Installation and maintenance of an IP surveillance system have been proven to be more cost-effective than analog coax cabling since network infrastructure is usually well deployed. Wireless connection and PoE (Power over Ethernet) technologies further bring cost savings benefits to IP surveillance. PoE allows a network camera to be powered by existing network cabling infrastructure, while 802.11 b/g/n WLAN enables users to reduce overall costs and simplify installation.

4 Front-end Intelligence

The intelligent functions of network cameras enable an IP surveillance system to make better decisions on when to send video or alarms based on motion detection, event handling, sensor input, or set schedules. VIVOTEK's new generation network cameras allow for embedded video content analysis such as motion detection, object tracking, and tampering detection to minimize false alarms.

5 High-quality, high-resolution Images

Image quality is considered at the most critical feature of a surveillance camera. VIVOTEK's state-of-the-art network cameras are an ideal solution due to their megapixel resolution and progressive scan technology. A progressive scan CCD sensor scans all lines of a scene simultaneously so as to present high resolution snapshots in all circumstances. VIVOTEK's lineup contains a series of progressive scan CCD network cameras, which are able to capture and deliver crystal clear, razor-sharp images of fast-moving objects without pixelated edges that traditional interlaced CCD or CCTV cameras cannot achieve. Megapixel resolution is also another way to improve video quality. VIVOTEK's award-winning megapixel network cameras are capable of capturing minute details with wide coverage of a monitored area, much more so than a traditional analog camera.

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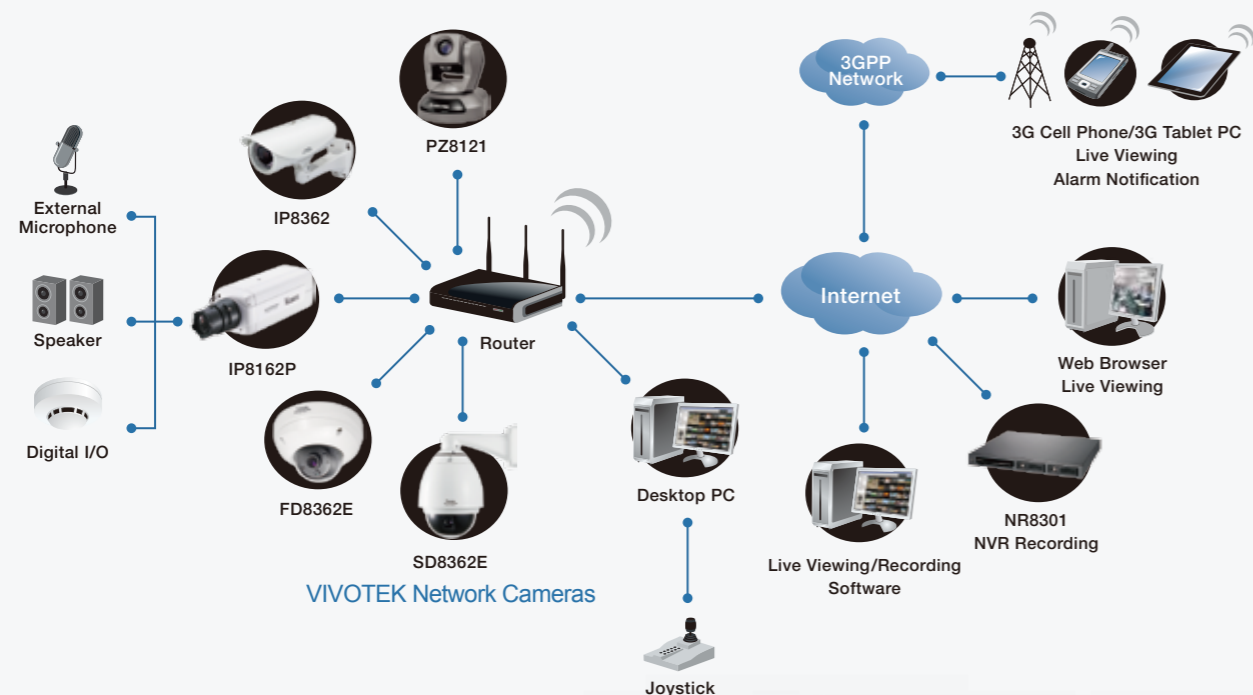
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Network Cameras

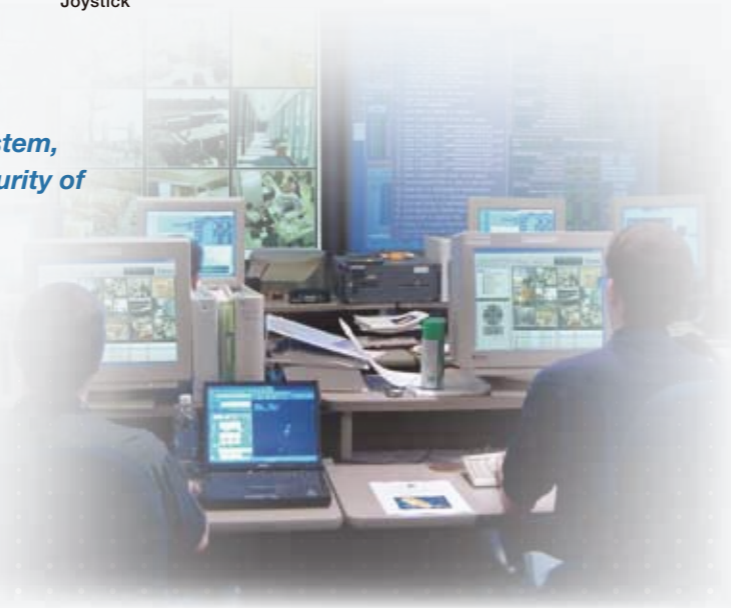
Transmitting Live Video over IP Network

VIVOTEK offers a wide range of cost-effective, highly reliable network cameras. Authorized users can easily receive live videos over an IP network through a web browser anytime, anywhere for remote monitoring and indoor or outdoor surveillance. VIVOTEK's entire network camera series, ranging from entry level to high-end, are able to meet diverse requirements for IP surveillance.

System Overview



With the deployment of an IP surveillance system, users can locally or remotely monitor the security of people and property anywhere, anytime.



IP8332

Outdoor • Day & Night



- 1/4" CMOS Sensor in 1280x800 Resolution
- Removable IR-cut Filter for Day and Night Function
- Built-in IR Illuminators, Effective up to 15 Meters
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Multiple Simultaneous Streams
- Weather-proof IP66-rated Housing
- Tamper Detection for Unauthorized Changes
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC Card Slot for On-board Storage

IP7361

2MP • Day & Night • Cable Management



- 2-Megapixel CMOS Sensor
- 3 ~ 9 mm Vari-focal, Auto-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 25 Meters
- Real-time MPEG-4 and MJPEG Compression (Dual Codec)
- Multiple Simultaneous Streams
- Video Cropping for Bandwidth Saving
- ePTZ for Data Efficiency
- Tamper Detection for Unauthorized Changes
- Weather-proof IP67-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in SD/SDHC Card Slot for On-board Storage
- Mounting Bracket with Cable Management for Protected Installation

IP8330

Outdoor • Supreme Night Visibility



- Supreme Night Visibility
- Vivid and Faithful Color Performance
- 60 fps for Smoother, Razor-Sharp Video of High-Speed Objects
- Removable IR-cut Filter for Day and Night Function
- Built-in IR Illuminators, Effective up to 15 Meters
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Weather-proof IP66-rated Housing
- Tamper Detection for Unauthorized Changes
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC Card Slot for On-board Storage

IP8362

2MP • WDR Enhanced



- 2-Megapixel CMOS Sensor
- Up to 30 fps @ 1080p Full HD
- 3 ~ 9 mm Vari-focal, Auto-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 20 Meters
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Weather-proof IP67-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC Card Slot for On-board Storage
- Mounting Bracket with Cable Management for Protected Installation

IP8331

Outdoor • Day & Night



- 1/4" CMOS Sensor in VGA Resolution
- Dual-band Lens for Day and Night Function
- Built-in IR Illuminators, Effective up to 10 Meters
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Simultaneous Dual Streams
- Weather-proof IP66-rated Housing
- Built-in 802.3af Compliant PoE

IP8352

1.3MP • Supreme Night Visibility



- 1.3-Megapixel CMOS Sensor
- Supreme Night Visibility
- Up to 60 fps @ 720p HD; Up to 30 fps @ 1280x1024 (1.3MP)
- 3 ~ 9 mm Vari-focal, Auto-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 20 Meters
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Weather-proof IP67-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC Card Slot for On-board Storage
- Gigabit Ethernet Data Transmission
- Mounting Bracket with Cable Management for Protected Installation

IP8161**2MP · Day & Night**

- 2-Megapixel CMOS Sensor
- 3.1 ~ 8 mm Vari-focal, Auto-iris Lens
- Removable IR-cut Filter for Day and Night Function
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Multiple Simultaneous Streams
- Video Cropping for Bandwidth Saving
- ePTZ for Data Efficiency
- 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

IP8162/62P SUPREME**2MP · Focus Assist · WDR Enhanced**

- 2-Megapixel CMOS Sensor
- Up to 30 fps @ 1080p Full HD
- 3.1 ~ 8 mm Vari-focal, Auto-iris Lens (IP8162);
3.1 ~ 8 mm Vari-focal, P-iris Lens (IP8162P)
- Removable IR-cut Filter for Day and Night Function
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Built-in Focus Assist Button for Precise Focus Adjustment
- Built-in 802.3af Compliant PoE
- Built-in SD/SDHC Card Slot for On-board Storage

PZ8111/11W/21/21W**10x Zoom · 802.11b/g/n Wifi**

- 10x Optical Zoom Lens
- Motorized Pan/Tilt (Pan: -150° ~ +150°; Tilt: -45° ~ +90°)
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Multiple Simultaneous Streams
- 3GPP Mobile Surveillance
- Built-in 802.3af Compliant PoE (PZ8111/21)
- Built-in 802.11b/g/n WLAN (PZ8111W/21W)
- Two-way Audio
- Built-in/External Microphone Switch

PT7135/37**3GPP · MPEG-4 · Compact Design**

- Motorized Wide-range Pan/Tilt (Pan: -175° ~ +175°; Tilt: -35° ~ +90°)
- Real-time MPEG-4 Compression in VGA Resolution
- 3GPP Mobile Surveillance
- Built-in 802.11b/g WLAN (PT7137)
- Triple-window Motion Detection
- Pre- and Post-alarm Snapshots
- Superior Low Light Performance
- Compact Size with Stylish Design

IP8151/51P SUPREME**1.3MP · Supreme Night Visibility · Full Frame Rate**

- 1.3-Megapixel CMOS Sensor
- Supreme Night Visibility
- Up to 30 fps @ 1280x1024 (1.3MP)
- 3.1 ~ 8 mm Vari-focal, Auto-iris Lens (IP8151);
3.1 ~ 8 mm Vari-focal, P-iris Lens (IP8151P)
- Removable IR-cut Filter for Day and Night Function
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Built-in Focus Assist Button for Precise Focus Adjustment (IP8151P only)
- Supports WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Built-in 802.3af Compliant PoE
- Built-in SD/SDHC Card Slot for On-board Storage
- CS- or C-mount Adjustment Ring for Flexible Lens Installation

IP8132/33/33W**1MP · Privacy Button · Compact Design**

- 1-Megapixel CMOS Sensor
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Privacy Button to Pause Monitoring
- Tamper Detection for Unauthorized Changes
- Built-in PIR Sensor for Unauthorized Intruder Detection (IP8133/33W)
- Built-in White-light Illuminators for Event Triggering (IP8133/33W)
- Built-in 802.3af Compliant PoE (IP8133)
- Built-in 802.11b/g/n WLAN (IP8133W)
- Wi-Fi Protected Setup (WPS) for Easy and Secure Wireless Network Connection (IP8133W)
- Built-in Microphone and Speaker for Two-way Audio (IP8133/33W)
- Compact, Elegant Design

PZ7131/32**2.6x Zoom · Dual Streams**

- 1/4" CMOS Sensor in VGA Resolution
- 2.6x Pan-focus Zoom Lens
- Motorized Wide-range Pan/Tilt (Pan: -175° ~ +175°; Tilt: -35° ~ +90°)
- Real-time MPEG-4 and MJPEG Compression (Dual Codec)
- Simultaneous Dual Streams
- 3GPP Mobile Surveillance
- Built-in 802.3af Compliant PoE (PZ7131)
- Built-in 802.11b/g WLAN (PZ7132)
- Two-way Audio
- Built-in/External Microphone Switch
- Digital I/O for External Sensor and Alarm

IP7133/34**3GPP · Privacy Button · Compact Design**

- Real-time MPEG-4 and MJPEG Compression (Dual Codec)
- Simultaneous Dual Streams
- 3GPP Mobile Surveillance
- Built-in 802.11b/g WLAN (IP7134)
- Digital I/O for External Sensor and Alarm
- Privacy Button to Pause Monitoring
- Easy to Install with VIVOTEK Installation Wizard 2
- Stylish Design for Home Decoration



Speed Dome Series

SD8362E SUPREME A NEW DEFINITION OF HD Full HD 1920x1080

20x Zoom • 2MP • WDR Pro



- Full HD SONY CMOS Sensor
- Up to 60 fps @ 720p HD;
Up to 30 fps @ 1080p Full HD
- 20x Zoom Lens
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 90° 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 Housing
- -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions
- Audio Detection for Instant Alerts
- Built-in 802.3af Compliant PoE Plus
- 3D Privacy Masks for Additional Protection
- Built-in SD/SDHC Card Slot for On-board Storage

SD83x1E/x2E/x3E

18x/28x/36x Zoom • WDR Pro



- D1 SONY EXview HAD CCD Sensor
- Up to 60 fps @ D1 Resolution
- 18x/28x/36x Zoom Lens
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 90° Tilt
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- EIS (Electronic Image Stabilizer) for Ultimate Video Experience (SD8312E/22E/13E/23E)
- Weather-proof IP66-rated Housing
- -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions
- Audio Detection for Instant Alert
- Built-in 802.3af Compliant PoE Plus
- 3D Privacy Masks for Additional Protection
- Built-in SD/SDHC Card Slot for On-board Storage

SD8111/21

12x Zoom • Day & Night • 3D Noise Reduction



- SONY EXview HAD CCD Sensor in D1 Resolution
- 12x Zoom Lens
- 360° Continuous Pan and 190° Tilt
- Removable IR-cut Filter for Day & Night Functionality
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- 3D Noise Reduction for Clear Nighttime Images
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Built-in SD/SDHC Card Slot for On-board Storage



Fixed Dome Series

FD8162 SUPREME A NEW DEFINITION OF HD Full HD 1920x1080

2 MP • PIR • Focus Assist



- 2-Megapixel CMOS Sensor
- Up to 30 fps @ 1080p Full HD
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 15 Meters
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Built-in PIR Sensor for Thermal Detection
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Built-in Focus Assist Button for Precise Focus Adjustment
- Hassle-free Installation
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC Card Slot for On-board Storage

FD8362/62E SUPREME A NEW DEFINITION OF HD Full HD 1920x1080

2MP • Smart Focus System • Vandal-proof



- 2-Megapixel CMOS Sensor
- Up to 30 fps @ 1080p Full HD
- Removable IR-cut Filter for Day & Night Function
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Smart Focus System for Remote and Precise Focus Adjustment
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions (FD8362E)
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC Card Slot for On-board Storage

FD8133/34

1MP • MicroSD/SDHC • Compact Design



- 1-Megapixel CMOS Sensor
- Removable IR-cut Filter for Day and Night Function (FD8134)
- Built-in IR Illuminators, Effective up to 10 Meters (FD8134)
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Built-in 802.3af Compliant PoE (FD8134)
- Built-in MicroSD/SDHC Card Slot for On-board Storage
- 3-axis Mechanical Design for Ceiling and Wall Mount Installation
- Easy and Flexible Installation
- Compact and Attractive ID Design

FD8133V/34V

1MP • Vandal-proof • IP66



- 1-Megapixel CMOS Sensor
- Removable IR-cut Filter for Day and Night Function (FD8134V)
- Built-in IR Illuminators, Effective up to 10 Meters (FD8134V)
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- Built-in 802.3af Compliant PoE (FD8134V)
- Built-in MicroSD/SDHC Card Slot for On-board Storage
- 3-axis Mechanical Design for Ceiling and Wall Mount Installation
- Easy and Flexible Installation
- Compact and Attractive Design

MD8562/62D SUPREME A NEW DEFINITION OF HD Full HD 1920x1080

2MP • Vandal-proof • Mobile Surveillance



- 2-Megapixel CMOS Sensor
- Up to 30 fps @ 1080p Full HD
- Wide Angle Fixed Lens
- EN50155 Compliance for Professional Mobile Surveillance
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Vandal-proof IK10-rated and Weather-proof IP67-rated Housing
- Built-in 802.3af Compliant PoE (MD8562)
- Built-in MicroSD/SDHC Card Slot for On-board Storage

FE8171V SUPREME A NEW DEFINITION OF HD

3MP • 360° Surround View • Vandal-proof



- 3.1-Megapixel CMOS Sensor
- 1.27 mm Fisheye Lens for 180° Panoramic View and 360° Surround View
- Removable IR-cut Filter for Day and Night Function
- EN50155 Compliance for Professional Mobile Surveillance
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- ePTZ for Data Efficiency
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage

Network Cameras



Wired Models	IP8372 (PoE)	IP8362 (PoE)	IP8352 (PoE)	IP8335H (PoE)	IP7361 (PoE)	IP8332 (PoE)	IP8330 (PoE)	IP8331 (PoE)	IP8172 (PoE)	IP8162/62P (PoE)
Wireless Models	-	-	-	-	-	-	-	-	-	-
Image Sensor	1/2.5" CMOS	1/2.7" CMOS	1/3" CMOS	1/2.7" CMOS	1/3.2" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/2.5" CMOS	1/2.7" CMOS
Minimum Illumination	TBD	0.08 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.02 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.8 lux @ F1.2 (Color) 0.001 lux @ F1.2 (B/W)	0.1 Lux @ F1.2	0 Lux @ F1.8 (IR LED on)	0 Lux @ F1.6 (IR LED on)	0.001 Lux @ F1.8	TBD	0.06 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)
Auto-iris	-	Yes	Yes	Yes (P-iris)	Yes	-	-	-	Yes (DC-iris or P-iris)	Yes
Lens Type	Board Lens, Vari-focal	3 ~ 9 mm F1.2 (w), F2.1 (t)	3 ~ 9 mm F1.2 (w), F2.1 (t)	3 ~ 9 mm F1.2 (w), F2.1 (t)	3 ~ 9 mm F1.2 (w), F2.1 (t)	3.6 mm, F1.8 Fixed	4.0 mm, F1.6 Fixed	4.0 mm, F1.8 Fixed	2.8 ~ 12 mm, F1.6 CS-mount, Vari-focal	· 3.1 ~ 8 mm, F1.2, CS-mount, auto iris (IP8162) · 3.1 ~ 8 mm, F1.2, CS-mount, P-iris (IP8162P)
Max Video Resolution	2560x1920	1920x1080	1280x1024	1280x800	1600x1200	1280x800	640x480	640x480	2560x1920	1920x1080
Frames per Second	Up to 10 fps @ 2560x1920 Up to 30 fps @ 1920x1080	Up to 30 fps @ 1920x1080	Up to 60 fps @ 1280x720 Up to 30 fps @ 1280x1024	Up to 30 fps @ 1280x800	Up to 30 fps @ 1280x720 Up to 15 fps @ 1600x1200	Up to 30 fps @ 1280x800	Up to 60 fps @ 640x480	Up to 30 fps @ 640x480	Up to 10 fps @ 2560x1920 Up to 30 fps @ 1920x1080	Up to 30 fps @ 1920x1080
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)
Multiple Streams	Multiple	Multiple	Multiple	Dual	Multiple	Multiple	Multiple	Dual	Multiple	Multiple
Networking	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100 Mbps Ethernet
Digital Input / Output	2/1	1/1	1/1	3/1	1/1	1/0	1/0	1/0	1/1	1/1
Audio Capability	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	-	-	-	Yes (2-way Audio)	Yes (2-way Audio)
On-board Storage	SD/SDHC/SDXC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	SD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	-	SD/SDHC/SDXC Card Slot	SD/SDHC Card Slot
Day/Night	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Dual-band)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)
Weather-proof	IP66	IP67	IP67	IP67	IP67	IP66	IP66	IP66	-	-
Vandal-proof	-	-	-	-	-	-	-	-	-	-
Value-added Features	IR Illuminators, Cable Management, ePTZ, Focus Assist	IR Illuminators, Cable Management, ePTZ, WDR Enhanced	Supreme Night Visibility, Exceptional 60 fps, IR Illuminators, Cable Management, ePTZ	IR Illuminators, WDR Pro	IR Illuminators, Cable Management, ePTZ	IR Illuminators	Supreme Night Visibility, Exceptional 60 fps, IR Illuminators	IR Illuminators	ePTZ, Focus Assist	ePTZ, WDR Enhanced, Focus Assist

Network Cameras



Wired Models	IP8151/51P (PoE)	IP8161 (PoE)	IP8132/33 (PoE)	IP7133	PZ8111/21 (PoE)	PZ7131 (PoE)	PT8133 (PoE)	PT7135
Wireless Models	-	-	IP8133W (WLAN)	IP7134 (WLAN)	PZ8111W/21W (WLAN)	PZ7132 (WLAN)	PT8133W (WLAN)	PT7137 (WLAN)
Image Sensor	1/3" CMOS	1/3.2" CMOS	1/4" CMOS	1/4" CMOS	1/4" CCD	1/4" CMOS	1/4" CMOS	1/4" CMOS
Minimum Illumination	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.1 Lux @ F1.2	3.0 Lux @ F2.4	0.4 Lux @ F2.0	2.76 Lux @ F1.8 (Typical) 0.05 Lux @ F1.8 (Low light mode)	1.25 Lux @ F1.9	0.3 Lux @ F1.8	1.5 Lux @ F2.0
Auto-iris	Yes	Yes	-	-	Yes	Yes	-	-
Lens Type	· 3.1 ~ 8 mm, F1.2, CS-mount, auto iris (IP8151) · 3.1 ~ 8 mm, F1.2, CS-mount, P-iris (IP8151P)	3.1 ~ 8 mm, F1.2 CS-mount	3.29 mm, F2.4 Fixed	4.09 mm, F2.0 Fixed	10x optical zoom 4.2 ~ 42 mm F1.8 (w), F2.9 (t)	2.6x optical zoom 2.8 ~ 7.3 mm, F1.9	3.6 mm, Board Lens, F1.8, Fixed	4.09 mm, F2.0 Fixed
Max Video Resolution	1280x1024	1600x1200	1280x800	640x480	720x480/NTSC 720x576/PAL	640x480	1280x800	640x480
Frames per Second	Up to 30 fps @ 1280x1024	Up to 30 fps @ 1280x720 Up to 15 fps @ 1600x1200	Up to 30 fps @ 1280x800	Up to 30 fps @ 640x480	Up to 30 fps @ 720x480 Up to 25 fps @ 720x576	Up to 30 fps @ 640x480	Up to 30 fps @ 1280x800	Up to 30 fps @ 640x480
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)
Multiple Streams	Multiple	Multiple	Multiple	Dual	Multiple	Dual	Multiple	-
Networking	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	· 10/100 Mbps Ethernet (IP7133) · 802.11b/g WLAN (IP7134)	· 10/100 Mbps Ethernet (PZ8111/21) · 802.11b/g/n WLAN (PZ8111W/21W)	· 10/100 Mbps Ethernet (PZ7131) · 802.11b/g WLAN (PZ7132)	· 10/100 Mbps Ethernet (PT8133) · 802.11b/g/n WLAN (PT8133W)	· 10/100 Mbps Ethernet (PT7135) · 802.11b/g WLAN (PT7137)
Digital Input / Output	1/1	1/1	1/1	1/1	1/1	1/1	-	-
Audio Capability	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio) (IP8133/33W)	Yes (Audio In)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (Audio In)	Yes (Audio In)
On-board Storage	SD/SDHC Card Slot	SD/SDHC Card Slot	-	-	-	-	-	-
Day/Night	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	-	-	-	-	-	-
Weather-proof	-	-	-	-	-	-	-	-
Vandal-proof	-	-	-	-	-	-	-	-
Value-added Features	· Supreme Night Visibility, Adjustment Ring, WDR Enhanced · Focus Assist (IP8151P Only)	ePTZ, Adjustment Ring	· Privacy Button · PIR, White-light LEDs, Built-in Speaker (IP8133/33W) · WPS (IP8133W)	Privacy Button	-	-	802.11n Wifi, WPS	-

Network Cameras



Wired Models	SD8362E (PoE Plus)	SD8311E/12E/13E (NTSC, PoE Plus) SD8321E/22E/23E (PAL, PoE Plus)	SD8111 (NTSC) SD8121 (PAL)	FD8372 (PoE)	FD8362/62E (PoE)	FD8361 (PoE)	FD8335H (PoE)	FD8162 (PoE)
Wireless Models	-	-	-	-	-	-	-	-
Image Sensor	1/3" CMOS	1/4" Progressive Scan CCD	1/4" ExView HAD CCD	1/2.5" CMOS	1/2.7" CMOS	1/3.2" CMOS	1/2.7" CMOS	1/2.7" CMOS
Minimum Illumination	0.02 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	· 0.7 Lux @ F1.4 (SD8311E/21E) · 0.65 Lux @ F1.35 (SD8312E/22E) · 0.01 Lux @ F1.6 (SD8313E/23E)	0.1 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	TBD	0.08 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0 Lux @ F1.2 (IR LED on)	TBD	0.08 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)
Auto-iris	Yes	Yes	-	-	Yes	Yes	-	Yes
Lens Type	20x Optical Zoom 2.9 ~ 55.4 mm F1.6 (w), F3.5 (t)	· 18x optical zoom, 4.1 ~ 73.8 mm, F1.4 (w), F3.0 (t) (SD8311E/21E) · 28x optical zoom, 3.5 ~ 98.0 mm, F1.35 (w), F3.7 (t) (SD8312E/22E) · 36x optical zoom, 3.4 ~ 122.4 mm, F1.6 (w), F4.5 (t) (SD8313E/23E)	12x Optical Zoom 3.8 ~ 45.6 mm, F1.6 (w), F2.7 (t)	Board Lens, Vari-focal	3 ~ 9 mm F1.2 (w), F2.1 (t) Stepping Motor	3 ~ 9 mm F1.2 (w), F2.1 (t)	3 ~ 9 mm Board Lens, Vari-focal	3 ~ 9 mm F1.2 (w), F2.1 (t)
Max Video Resolution	1920x1080	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL	2560x1920	1920x1080	1600x1200	1280x720	1920x1080
Frames per Second	Up to 60 fps @ 1280x720 Up to 30 fps @ 1920x1080	Up to 60 fps @ 720x480 Up to 50 fps @ 720x576	Up to 30 fps @ 720x480 Up to 25 fps @ 720x576	Up to 10 fps @ 2560x1920 Up to 30 fps @ 1920x1080	Up to 30 fps @ 1920x1080	Up to 30 fps @ 1280x720 Up to 15 fps @ 1600x1200	Up to 30 fps @ 1280x720	Up to 30 fps @ 1920x1080
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)
Multiple Streams	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple	Dual	Multiple
Networking	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet
Digital Input / Output	3/2	3/2	4/1	3/1	1/1	1/1	3/1	1/1
Audio Capability	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)	Yes (2-way Audio)
On-board Storage	SD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC/SDXC Card Slot	MicroSD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC/SDXC Card Slot	MicroSD/SDHC Card Slot
Day/Night	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)
Weather-proof	IP66	IP66	-	IP66	IP66	IP66	IP66	-
Vandal-proof	-	-	-	Yes	Yes	Yes	Yes	-
Value-added Features	Exceptional 60 fps, ePTZ, Audio Detection, WDR Pro, Wide Temperature Range	· Exceptional 60 fps, Audio Detection, WDR Pro, Wide Temperature Range · EIS (SD8312E/22E/13E/23E)	3D Noise Reduction, WDR Enhanced	ePTZ, Focus Assist	· ePTZ, WDR Enhanced, Smart Focus System · Wide Temperature Range (FD8362E)	IR Illuminators, 3-axis, ePTZ	WDR Pro, Focus Assist, Wide Temperature Range	IR Illuminators, ePTZ, PIR, WDR Enhanced, Focus Assist

Network Cameras



Wired Models	FD8161 (PoE)	FD8135H (PoE)	FD8133 FD8134 (PoE)	FD8133V FD8134V (PoE)	MD8562 (PoE) MD8562D (DC Power)	MD7530/60 (PoE) MD7530D/60D (DC Power)	FE8172V (PoE)	FE8171V (PoE)
Wireless Models	-	-	-	-	-	-	-	-
Image Sensor	1/3.2" CMOS	1/2.7" CMOS	1/4" CMOS	1/4" CMOS	1/2.7" CMOS	· 1/4" CMOS (MD7530/30D) · 1/3.2" CMOS (MD7560/60D)	1/2.5" CMOS	1/2" CMOS
Minimum Illumination	0 Lux @ F1.2 (IR LED on)	TBD	· 0.3 Lux @ F1.8 (FD8133) · 0 Lux @ F1.8 (IR LED on) (FD8134)	· 0.3 Lux @ F1.8 (FD8133V) · 0 Lux @ F1.8 (IR LED on) (FD8134V)	0.2 Lux @ F2.0	· 0.5 Lux @ F2.0 (MD7530/30D) · 0.6 Lux @ F2.0 (MD7560/60D)	TBD	1.17 Lux @ F2.8 (Color) 0.2 Lux @ F2.8 (B/W)
Auto-iris	Yes	-	-	-	-	-	-	-
Lens Type	3 ~ 9 mm F1.2 (w), F2.1 (t)	3 ~ 9 mm Board Lens, Vari-focal	3.6 mm, F1.8 Fixed	3.6 mm, F1.8 Fixed	2.8 mm, F2.0 Fixed	2.8 mm, F2.0 Fixed	Fisheye Lens, Fixed	1.27 mm, F2.8 Fixed
Max Video Resolution	1600x1200	1280x720	1280x800	1280x800	1920x1080	· 640x480 (MD7530/30D) · 1600x1200 (MD7560/60D)	1920x1920	1536x1536
Frames per Second	Up to 30 fps @ 1280x720 Up to 15 fps @ 1600x1200	Up to 30 fps @ 1280x720	Up to 30 fps @ 1280x800	Up to 30 fps @ 1280x800	Up to 30 fps @ 1920x1080	· Up to 30 fps @ 640x480 (MD7530/30D) · Up to 30 fps @ 1280x720 (MD7560/60D) · Up to 15 fps @ 1600x1200 (MD7560/60D)	Up to 12 fps @ 1920x1920	Up to 15 fps @ 1536x1536
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)
Multiple Streams	Multiple	Dual	Multiple	Multiple	Multiple	· Dual (MD7530/30D) · Multiple (MD7560/60D)	Multiple	Multiple
Networking	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet
Digital Input / Output	1/1	3/1	1/0	1/0	1/0	-	1/1	1/1
Audio Capability	Yes (2-way Audio)	Yes (2-way Audio)	-	-	Yes (Audio In)	Yes (Audio In)	Yes (2-way Audio)	Yes (2-way Audio)
On-board Storage	SD/SDHC Card Slot	SD/SDHC/SDXC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot
Day/Night	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter) (FD8134)	Yes (Removable IR-cut Filter) (FD8134V)	-	-	Yes (Removable IR-cut Filter)	Yes (Removable IR-cut Filter)
Weather-proof	-	IP66	-	IP66	IP67	IP67	IP66	IP66
Vandal-proof	-	Yes	-	Yes	Yes	Yes	Yes	Yes
Value-added Features	IR Illuminators, PIR, 3-axis, ePTZ	IR Illuminators, PIR, WDR Pro, ePTZ, Focus Assist	· 3-axis · IR Illuminators (FD8134)	· 3-axis · IR Illuminators (FD8134V)	EN50155, ePTZ, WDR Enhanced	· Temperature Trigger, EN50155 · ePTZ (MD7560/60D)	EN50155, ePTZ, WDR Enhanced	EN50155, ePTZ, WDR Enhanced

Video Servers

The Cost-Effective Way to Migrate from CCTV to IP

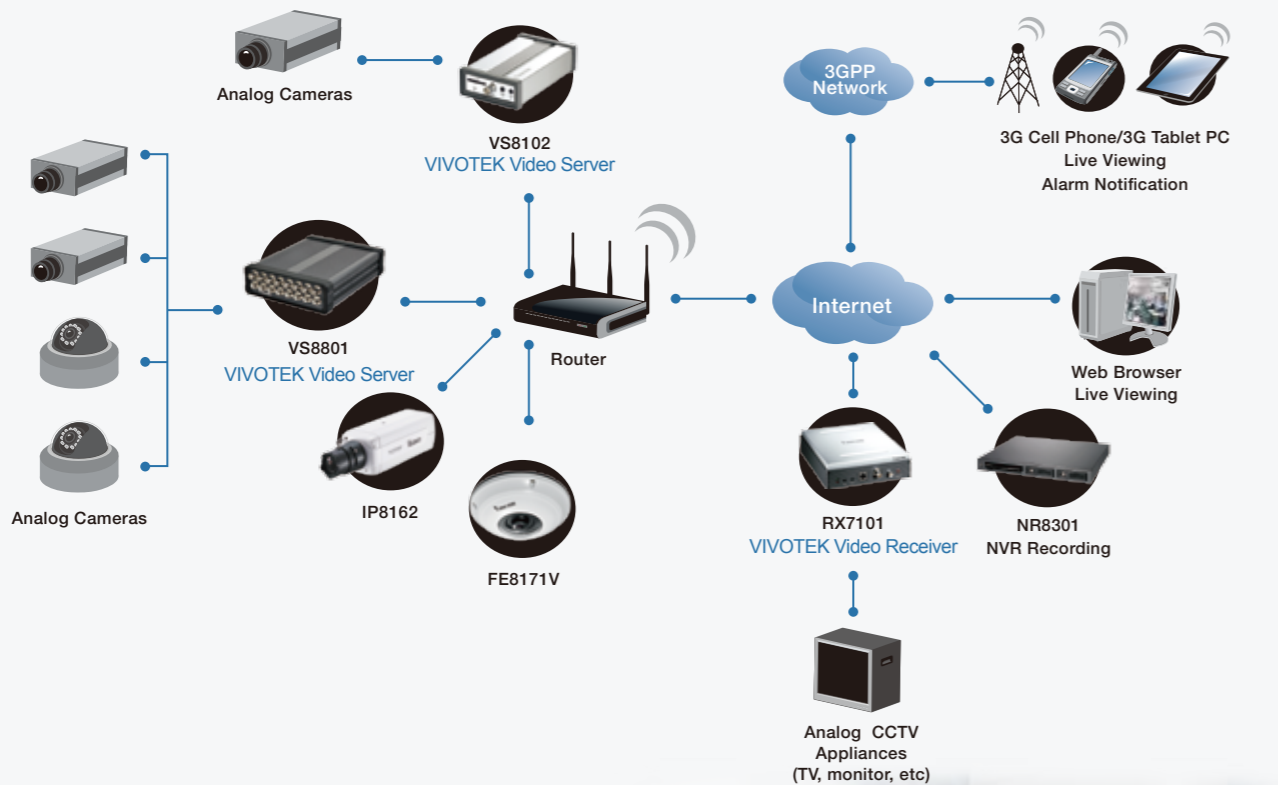
A video server digitizes analog signals and send the encrypted data via an IP network to be monitored or recorded. VIVOTEK offers 1- to 8-Channel video servers with H.264/MPEG-4/MJPEG compression to allow users to easily upgrade existing analog CCTV systems to IP for remote access.

Video Receiver

Connecting IP Surveillance Devices with Analog Video Devices

VIVOTEK's video receiver RX7101 is capable of receiving, decoding, and displaying up to 4 channels of video streams from VIVOTEK's network cameras or video servers via Ethernet interface to analog CCTV appliances like TV sets, analog monitors or any other existing analog video switches.

System Overview



VIVOTEK's video servers and video receiver provide a cost-effective way to integrate analog and IP surveillance infrastructure, offering users the benefits of IP surveillance systems such as high-quality video, remote accessibility, scalability, flexibility, and much more.



Video Servers

VS8801/8401

4-CH/8-CH · D1 · Rack Mount Design



- Up to 30 fps in D1 Resolution
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- 8-CH Video and Audio In (VS8801); 4-CH Video and Audio In (VS8401)
- Two-way Audio
- RS-485 Interface for PTZ Camera Control
- 8 Digital I/O for External Sensor and Alarm (VS8801); 4 Digital I/O for External Sensor and Alarm (VS8401)
- Built-in SD/SDHC Card Slot for On-board Storage (VS8401)
- DC 12V/AC 24V Compatible Power Input
- Professional Rack Mount Design
- Supports Gigabit Ethernet Data Transmission

Video Receiver

RX7101

MJPEG · MPEG-4 · 4-CH



- MJPEG and MPEG-4 Video Decoding
- Up to 1-CH 4CIF or 4-CH CIF Real-time Decoding
- Quad or Sequential Display in Multi-channel Mode
- GSM-AMR and MPEG-4 AAC Audio Decoding
- Digital I/O for External Sensor and Alarm
- Supports RS-485 Keyboard to Remotely Control PTZ Cameras
- Supports VIVOTEK's 7000-series Models

VS8102

D1 · 1-CH · SD/SDHC Card



- Up to 30 fps in D1 Resolution
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Two-way Audio
- RS-485 Interface for PTZ Camera Control
- DC 12V Output for Analog Cameras
- DC 12V / AC 24V Compatible Power Input
- Built-in 802.3af Compliant PoE
- Built-in SD/SDHC Card Slot for On-board Storage

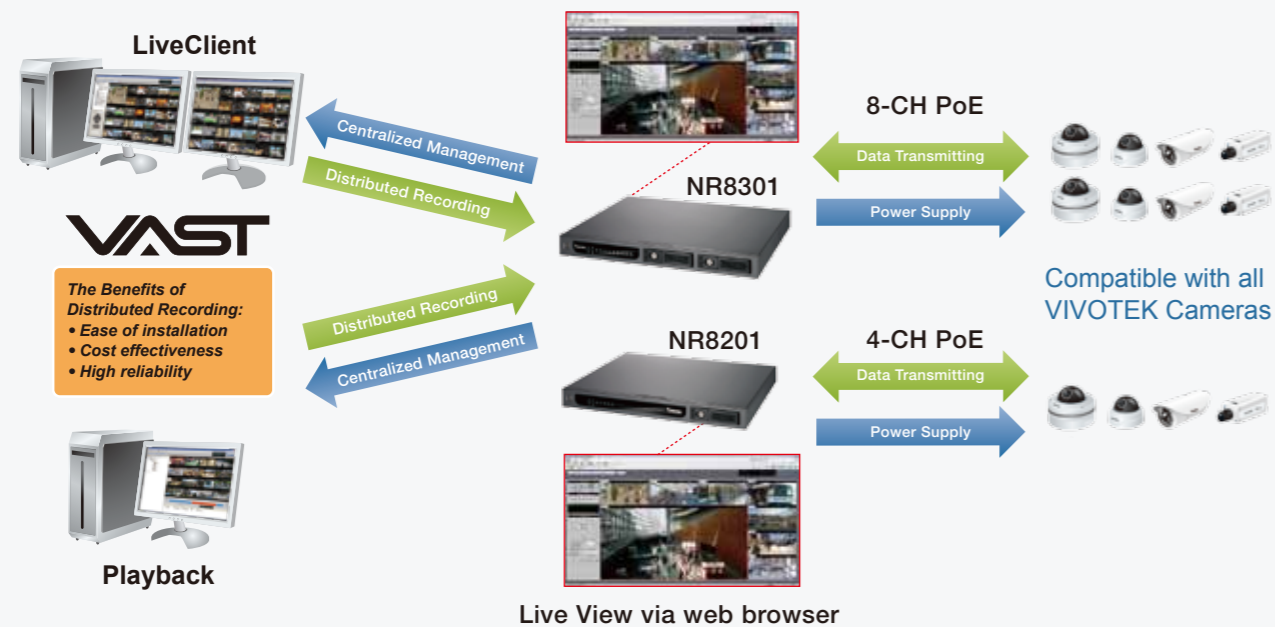


Network Video Recorder

Enhanced Video Storage Efficiency

An NVR (Network Video Recorder) is an IP-based recorder that operates independently from a PC or other operating systems. Aimed at storing digital video streams from network cameras, an NVR includes or accepts a large-volume hard disk to allow for extended periods of recording.

System Overview



NR8201/8301
4-CH/8-CH · Compatible with VAST CMS · Rack Mount Design



- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Simultaneous 4-CH (NR8201) and 8-CH (NR8301) Video Viewing & Recording
- Compatible with VIVOTEK VAST Central Management Software*
- Built-in 802.3af Compliant PoE
- Professional Rack Mount Design
- External eSATA Interface for the Expansion of Video Recording (NR8201)
- RAID 0, 1 Scalable Storage Solution (NR8301)
- External USB Interface for Video Backup
- Removable & Lockable HDD Design
- Camera Installation through Easily Plug and Play

*VIVOTEK VAST Central Management Software is not included in the package.

Video Servers / Video Receiver / Network Video Recorders

Models	VS8801/8401	VS8102	VS7100	RX7101	Models	NR8201/8301
Video Source	8/4 Analog Camera Input	1 Analog Camera Input	1 Analog Camera Input	4-CH Streams	Video Channels	4-CH (NR8201) 8-CH (NR8301)
Video Modulation	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL	Hard Disk	NR8201: Support 1 x 3.5" SATA I/II HDD, Up to 2TB (Support external eSATA interface) NR8301: Support 2 x 3.5" SATA I/II HDD, Up to 4TB (Support RAID 0, 1 scalable storage)
Max Video Resolution	720 x 480/NTSC 720 x 576/PAL	720x480/NTSC 720x576/PAL	704x480/NTSC 704x576/PAL	704x480/NTSC 704x576/PAL	Compatibility	Support VIVOTEK all series of network cameras
Frames per Second	Up to 30 fps @ 720x480 Up to 25 fps @ 720x576	Up to 30 fps @ 720x480 Up to 25 fps @ 720x576	Up to 30 fps @ 720x480 Up to 25 fps @ 720x576	Up to 30 fps @ 720x480 Up to 25 fps @ 720x576	Video Recording	Video compression: H.264/MJPEG/MPEG-4 Audio compression: AAC/GAMR/G.711
Audio Capability	Yes	Yes	Yes	Yes	Ethernet/RJ45	1 x Gigabit, RJ45 (1 WAN port) NR8201: 10/100 BaseTX Ethernet x 4, RJ45 (4 LAN ports) NR8301: 10/100 BaseTX Ethernet x 8, RJ45 (8 LAN ports) USB socket for backup Terminal block: 4 digital input, 1 relay output, and 1 power output with 12V Max. 1A
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)	-	USB	1 USB socket for backup
Serial Connectors	RS485	RS485	RS485	RS485	Digital Input / Output	4/1
Pan / Tilt / Zoom Control	Yes	Yes	Yes	Yes	Power Output	1 (12V Max. 1A)
Networking	10/100/1000 Mbps Gigabit Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	PoE	Yes
Digital Input / Output	8/8 (VS8801) 4/4 (VS8401)	1/1	1/1	0/4		
Motion Detection	Yes	Yes	Yes	-		
Multiple Streams	Single (VS8801) Dual (VS8401)	Multiple	Dual	-		
PoE	-	Yes	-	-		
Decoding	-	-	-	MJPEG/MPEG-4		
On-board Storage	SD/SDHC Card Slot (VS8401)	SD/SDHC Card Slot	-	-		
Tamper Detection	Yes	Yes	-	-		

Application Software

Centralized Management & Easy Installation

Recording Software

Central management software enables users to manage and control network cameras from remote sites. With client-server architecture, users can perform live viewing and recording or playback on the client PC while managing cameras on the server PC. VIVOTEK's free standard 32-CH central management software ST7501 features reliable recording, easy system management, and great scalability for diverse IP surveillance applications. VAST, the professional Central Management Software designed for management of VIVOTEK IP surveillance products, providing a powerful hierarchical system for an unlimited number of stations and cameras with full functionality for diverse applications. Working seamlessly with VIVOTEK's full-range network cameras and video servers, ST7501/VAST employ server/client structure to help users manage a large-scale system effectively and remotely.

Standard Series-ST7501

32-CH Monitoring · 16-CH Playback · Multilingual Support

- Client/Server for Remote Video Management
- Real-time 32-channel Live Video Monitoring
- Simultaneous 16-channel Playback
- Efficient Recording System
- Pan/Tilt/Zoom Camera Control Interface
- Powerful Playback Control Functions
- Role-based User Account Management
- Lightweight Remote Login to Access All Functions
- Easy-to-use Snapshot Function
- Exports AVI Files to Local Host
- Seamlessly Integrates with All VIVOTEK Network Cameras
- Supports Multiple Streams Live Viewing and Recording
- Cameras Accessible through NAT
- Event-triggered or Scheduled Recording Mode



Live Client UI



Playback UI



Hierarchical Management · VAST Matrix · PiP

- Powerful Video Wall Solution "VAST Matrix" for Hundreds of Live Views*
- Intelligent PiP Function -- Digital Zoom In and Multi-touch Mode
- Integrated with VIVOTEK NVR for Large-Scale Applications
- Convenient Remote Access via Client/Server Architecture
- Powerful Hierarchical Management*
- Effective & Reliable Event Trigger Management
- Real-time 64-channel Live Viewing and Simultaneous 16-channel Playback
- Multiple Simultaneous Streams for Different Media Platforms
- Extremely Versatile Settings for Recording Group and Recording Schedule Management
- Overall Device Management through Intuitive E-map Feature
- Supports Seamless Recording with the Cameras for Uninterrupted Video Recording

*1 The ability to monitor multiple devices is subject to existing network bandwidth and server hardware performance.

*2 The number of stations depends on the purchased licenses on the key dongle.



LiveClient UI



Playback UI

Fully Scalable VAST Matrix

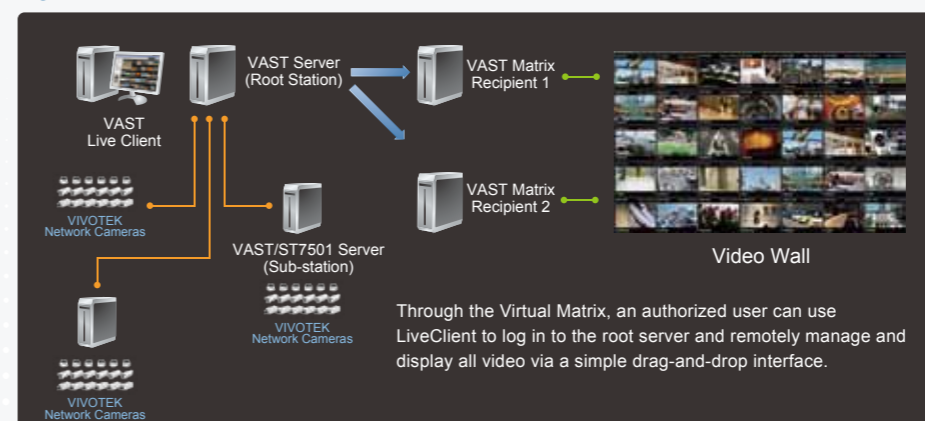
The VAST Matrix is an extremely useful tool for displaying multiple monitors, helping users to efficiently construct a real-time video wall in a control center and making VAST an integral part of a powerful central management system.

Video Wall

Dual Monitors with 64-CH VAST → **Virtual Matrix Video Wall**

With a large scale hierarchical system, a user can not only simultaneously monitor up to 64 channels on dual monitors through VAST LiveClient, but also manage hundreds of channel with complete functionality.

System Structure of VAST Matrix



Installation Wizard 2

VIVOTEK's Installation Wizard 2 allows users to find VIVOTEK cameras connected to the LAN with ease. The program automatically detects camera IP address, DDNS, uPnP, and PPPoE connection information and guides users directly to the camera browser page, facilitating quick installation by home users and professional security installers alike.

User Interface



iViewer

VIVOTEK iViewer was developed to allow users to monitor locations off-site by providing access to surveillance camera video right on their iOS device. iViewer enables users to monitor live video from hundreds of cameras managed by centralized management software VAST or standard recording software ST7501—at any time, and from wherever they happen to be. This always-available access is not only a great convenience for administrators, but it enhances security by giving these administrators the flexibility to monitor trouble spots while off-site and detect suspicious activity in real time.

VIVOTEK's iViewer app is available now on the App Store.
<http://itunes.apple.com/us/app/vivotek-iviewer/id432849858?mt=8>



Accessories

VIVOTEK offers a wide variety of accessories, including lenses, PoE kits, enclosures, IR illuminators, joysticks, mounting kits, and outdoor wireless solutions to complement your IR surveillance needs. Please find a full list of our accessories at <http://www.vivotek.com/accessories.htm>.

Lens

There are many different types of CS mount lenses available for VIVOTEK's network cameras.



PoE (Power-over-Ethernet) Kits

In addition to PoE-compliant network products, VIVOTEK also provides PoE kits including injectors and splitters for flexible installation.



Enclosures

VIVOTEK provides various camera enclosures and dome housings for installing network cameras in harsh, humid, and extreme environmental conditions.



Mounting Kits

A full range of mounting kits is available for a variety of applications.



Outdoor Wireless Solutions

Installation is made easy with VIVOTEK's complete outdoor wireless solutions.



IR Illuminators

Network cameras equipped with infrared illuminators can be applied in low-light conditions.



Joystick

VIVOTEK's USB joystick enables you to remotely control Pan/Tilt/Zoom network cameras with ease.



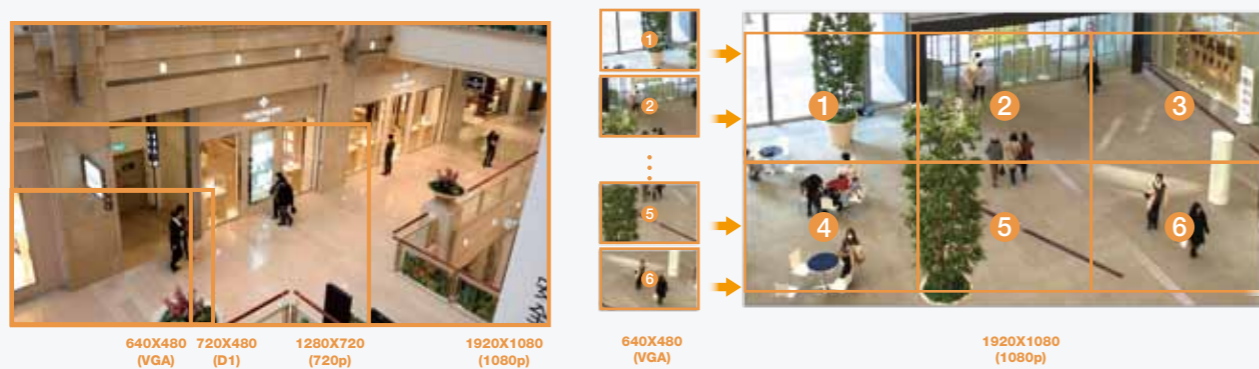
Must Know

Technical Zone

Full HD

Many VIVOTEK camera models are able to transmit 2-Megapixel video at 30 fps with H.264 compression, compared with many conventional megapixel camera which achieve only 10-15 fps. The ability to view and record footage at full frame rate allows for increased effectiveness in surveillance.

Compatible with the HDTV (16:9) standard, Full HD network cameras provide surveillance coverage for an area up to six times larger than possible with a VGA camera, significantly reducing the number of cameras required. They are especially well suited to monitor broad spaces such as building entrances, airport terminals, and parking lots. In addition, it is excellent for applications requiring accurate recognition for post-content analysis, such as the identification of people or license plates.



JPEG, MPEG-4, and H.264

IP surveillance relies on video compression to reduce requirements for transmission bandwidth and storage space. The main stream compression standards widely used in network cameras are MJPEG, MPEG-4, and H.264. MJPEG is the most popular compression standard for still images. MPEG-4, on the other hand, finds the differences from a reference key frame, leaves out redundant information, and compresses only frame-to-frame differences, significantly reducing file size and bandwidth usage. Similar to MPEG-4, H.264 provides a more efficient method of compression with more precise use of motion search and prediction. Though H.264 requires more powerful CPU specifications, it has a higher compression ratio than MPEG-4. VIVOTEK network cameras are one of the few on the market that provide for triple-codec compression using all three standards, allowing users a greater degree of freedom and flexibility.

	MJPEG	MPEG-4	H.264
Compressed file size	20%	2%	1%
Bandwidth comparison ratio	20	2	1
Encoding CPU loading ratio	1	4	10
Application	<ul style="list-style-type: none"> Local storage Snapshot viewing 	<ul style="list-style-type: none"> Moving picture viewing Real-time transmission 	

Must Know

Technical Zone

P-iris

The advanced P-Iris lens 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.

Benefits:

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



P-iris Lens

Conventional Lens

WDR (Wide Dynamic Range)

When a camera is used in a high contrast, backlight, glare, or light reflective environment such as a building entrance, ATM, or window, a subject may appear dark and unrecognizable. WDR (Wide Dynamic Range) Technology can ensure an identifiable image of the subject under such conditions by appropriately exposing the entire scene at both the darkest and brightest parts. By combining these two images, a more detailed, recognizable image can be used for security review.



With WDR Enhancement



Without WDR Enhancement

Smart Focus System

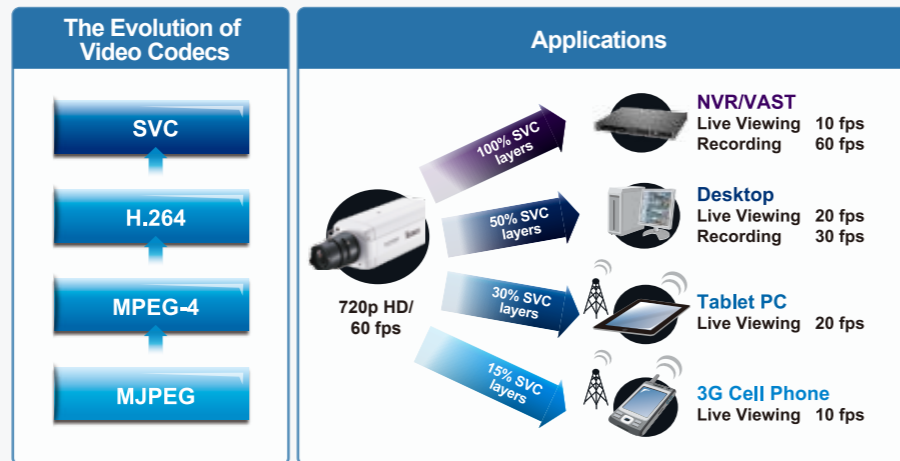
The key components of VIVOTEK Smart Focus System include Focus Assist Button and Remote Focus. To make installation and adjustment easier for the integrator, VIVOTEK has adopted lens with a built-in stepping motors to remotely control the focal length and focus, eliminating the need to be at the physical location of the camera. The other component of the Smart Focus system, Focus Assist, can aid an installer in precisely adjusting focus on a camera. When the Focus Assist button is pressed on the camera unit, an indicator will be displayed on-screen with a focus indicator which varies in accordance with the manual adjustment. Holding down the button will zoom in on the target area for fine tuning, resulting in better usability and picture clarity. In addition, by utilizing the included stepping-motor lens with Remote Focus functionality, a user can also easily zoom in on a target area and make adjustments from a remote site, offering more flexible, hassle-free installation and maintenance.

Must Know

Technical Zone

Scalable Video Coding (SVC)

As the resolution of network cameras increases, processing and displaying video streams is placing heavier demands on hardware. Handling multiple channels of streaming video is especially challenging. Scalable Video Coding (SVC) is a video standard based on H.264 that allows video data to be divided into multiple layers with different resolutions, picture sizes, and frame rates. SVC provides the flexibility to optimize such video to account for limited network bandwidth, available processing capacity, and varied display devices.



Intelligent Video

Tamper Detection

Tamper detection can detect and respond when a camera is redirected, defocused, blocked, or spray-painted. It allows cameras to be installed in tampering-prone places such as transportation stations or prisons.



Intelligent Motion Detection

Intelligent motion detection can distinguish object motion from environmental movement and trigger alarm solely on object motion. This feature, used mainly in outdoor applications, can eliminate false alarm due to wind, rain, or other environmental noise.



Loitering Detection

Loitering detection detects an object or person which has remained in a predefined area over a given time period. This function is effective at preventing crimes since suspicious objects or activities are often detected before damage has occurred.



Conventional Motion Detection

Intelligent Motion Detection

Presence of Lingering Object

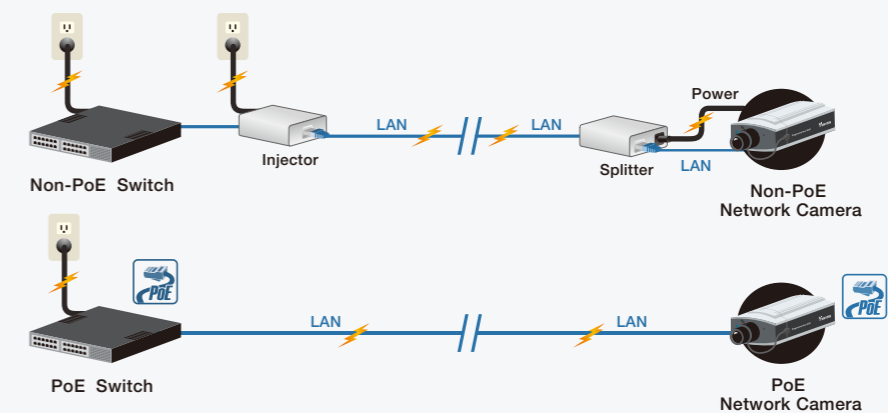
Alarm Triggered after 30 Seconds

Must Know

Technical Zone

PoE (Power-over-Ethernet) , PoE Plus

Conventional network cameras require a power cable for power supply and an Ethernet cable for data transmission. PoE (Power-over-Ethernet), developed by the IEEE802.3af task force, enables power to be supplied over a single Ethernet cable, and thus eliminates the need for a separate power cable. By connecting a PoE-supported camera to a PoE switch, you need not deploy additional power cables. PoE Plus is the advanced version of traditional PoE. Following the new IEEE 803.3at standard, PoE Plus provides up to 30 watts of power, enough for outdoor speed dome cameras and allowing for more flexible, hassle-free installation.



IPv6

The IPv6 standard consists of 128 bits which are divided into eight parts, each group containing four 16-bit digits separated by a colon. IPv6 IP addresses are presented in a different format from IPv4, for example 3ffe:0305:0000:0000:0000:0000:0001.

Feature	IPv4	IPv6	Comparison
Address Space	32 bits	128 bits	IPv6 provides larger address space
Configuration Setting	Manual	Auto	IPv6 does not require independent DHCP
Priority Control	No	Yes	IPv6 results in higher video quality
Authentication	No	Yes	IPv6 provides safer data transmission



Technical Support

SDK (Software Development Kit)

VIVOTEK's SDK (Software Development Kit) provides tools, documentation, and code samples that allows users to take full advantage of VIVOTEK's advanced technologies. We offer two types of complete profiles - high Profile or Main Profile SDK - available for users to develop versatile application solutions for IP surveillance.

For detailed information about the High Profile and Main Profile SDK, please visit our website at: <http://www.vivotek.com/support>
If you have any questions about our SDK, please e-mail us at info@vivotek.com

Partnership

Solution Integration Alliance

The VIVOTEK SIA (Solution Integration Alliance) Program assists partners to customize and integrate VIVOTEK's network cameras and video servers to meet customers' various needs by providing technical support, SDK, and application components.

The SIA Program provides partners with technical information and marketing strategies, with the objective of substantially increasing market share and business opportunities for both VIVOTEK and partners. VIVOTEK maintains close relationships with global leaders in software solutions to keep products and services on the forefront of innovation, quality, and demand regardless of market conditions.

Through our partnership with our esteemed SIA partners, a wide range of sophisticated and reliable IP video/audio solutions can be offered to satisfy the requirements of diverse market segments.

For more information about VIVOTEK's SIA Program, please visit <http://www.vivotek.com/alliance/siaprogram.html>

Delivering Valuable Solutions

Through an International Network of Partners and Integrators



SoCs

Cutting-edge Video/Audio Technology

As a leading provider of multimedia communications solutions, one of VIVOTEK's core competencies is the SoC technology which has earned a number of patents. VIVOTEK's first self-developed SoC, VVTK-1000 (codenamed Vivaldi), offers both MPEG-4 and MJPEG encoding capabilities and has been successfully integrated into VIVOTEK's network cameras, video servers, and video receiver. VIVOTEK's 7000-series products are all embedded with the VVTK-1000 to ensure higher reliability and performance. The design allows delivery of dual streams in MPEG-4 or MJPEG at up to 30 fps in VGA resolution and offers adjustable video quality in accordance with viewing device specifications.

Our latest chip, the Mozart 380, is a highly sophisticated SoC that incorporates H.264, MPEG-4, and MJPEG codec technology. Offering higher resolution and frame rate - 1080p resolution at 30 fps - the design is instrumental in providing users with high quality, usable surveillance video. Moreover, the Mozart 380 is capable of delivering 8-channel video and stereo audio I/O, making it useful for encoding applications as well as a broad range of network cameras.



Quality Assurance

Green Technology

In our pursuit of quality excellence as well as environmental responsibility, VIVOTEK has established a strict quality management policy based on TL-9000, ISO-14001, and QC080000 standards as well as environmental policies in conformance with RoHS and WEEE. as a market leader, VIVOTEK's accreditations not only show our determination in business operation, but also increasing our efforts in enhancing global environmental protection and social accountability.



ISO 14001
Certification
since 2005



TL 9000
Certification
since 2005



WEEE
since 2006



RoHS
since 2006



QC080000
since 2008

VIVOTEK's Quality Policy: "The Market Leader in Excellent Quality, Cutting Edge Technologies, and Customer Satisfaction."

Awards List

Corporate Awards



A&S Industry's Elite



The 16th Taiwan SMEA "National Outstanding SMEs Award"



Industrial Technology Advancement Award-Excellent Award



The 10th Taiwan SMEA "Rising Star Award"



Technology Fast 50 Asia by Deloitte & Touche 2007/2006/2005



Security 50 2008/2007/2006

Product Awards



SecuTech Award 2011 IP8162P



Symbol of Excellence Winner FD8134/IP8151



GIT Security Award 2009 IP7142



ITMonth 2009 PZ7151/7152



CPS Top 10 Innovative Security Product Award 2008 IP7142/IP7151/SD7151



SecuTech Award 2008 PZ7151/7152



SecuTech Award 2007 IP7138/7139



The 14th Taiwan "SMEs Innovation Award" IP7138/7139



Symbol of Excellence Winner IP7138/7139



Best of Taiwan's Best Award Winner IP7135/IP7137



ITMonth 2006 PT7135/7137



Symbol of Excellence Winner PT7135/7137 IP7135/7137



Best Choice of COMPUTEX TAIPEI PZ6112/PZ6122



Best of Taiwan's Best Award Winner PZ6112/PZ6122



Super HERO is Useless Here...
What Counts is Comprehensive City Surveillance



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