

Video Servers & Video Receiver



Models	VS8801/8401	VS8102	VS7100	RX7101
Video Source	8/4 Analog Camera Input	1 Analog Camera Input	1 Analog Camera Input	4-CH Streams
Video Modulation	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL
Max Video Resolution	720 x 480/NTSC 720 x 576/PAL	720x480/NTSC 720x576/PAL	704x480/NTSC 704x576/PAL	704x480/NTSC 704x576/PAL
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
Audio Capability	Yes	Yes	Yes	Yes
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (MJPEG/MPEG-4)	-
Serial Connectors	RS485	RS485	RS485	RS485
Pan/Tilt/Zoom Control	Yes	Yes	Yes	Yes
Networking	10/100/1000 Mbps Gigabit Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet
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	-	-

Network Video Recorders

NR8201/8301

Compatible with VAST CMS · Lockable HDD · 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 Simple Plug and Play

*VIVOTEK VAST Central Management software is not included.

Central Management Software

VAST

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

*1 Ability to add devices is dependant on network bandwidth and viewing/recording device hardware capabilities.

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

Application Software

iViewer

iViewer is VIVOTEK's application software for iPhone and iPad, allowing 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.

SUPREME

A NEW DEFINITION OF HD

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 30 fps @ 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.



VIVOTEK Solution Integration Alliance

The SIA (Solution Integration Alliance) Program is a strategic alliance that aims to facilitate the integration of VIVOTEK products into leading software or hardware platforms. With the SIA Program, partners have the flexibility to enhance key functionalities when creating an IP surveillance solution.

The SIA Program provides programmable Software Development Kits (SDK) to allow partners to develop customized features on an open platform, allowing the highest possible level of integration. VIVOTEK also provides technical support throughout the development process.



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PRODUCT BROCHURE











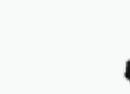







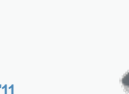
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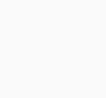



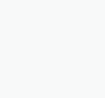
Network Cameras | Video Servers | Video Receiver | Network Video Recorders | Central Management Software

Network Cameras - Fixed Series

Network Cameras - PTZ Series

																			
Wired Models	IP8372 (PoE)	IP8362 (PoE)	IP8352 (PoE)	IP8335H (PoE)	IP7361 (PoE)	IP8332 (PoE)	IP8330 (PoE)	IP8331 (PoE)	IP8172 (PoE)	IP8162/62P (PoE)	IP8151/51P (PoE)	IP8161 (PoE)	IP8132 (PoE) IP8133 (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	1/2.5" 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	1/3" CMOS	1/3.2" CMOS	1/4" CMOS	1/4" CMOS		1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" 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)	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 (P-iris)	Yes	-	-	-	Yes (DC-iris or P-iris)	Yes	Yes	Yes	-	-		Yes	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)	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	2560x1920	1920x1080	1280x1024	1280x800	1600x1200	1280x800	640x480	640x480	2560x1920	1920x1080	1280x1024	1600x1200	1280x800	640x480		720x480/NTSC 720x576/PAL	640x480	1280x800	640x480
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	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)	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)	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	Multiple	Multiple	Dual	Multiple	Multiple	Multiple	Multiple	Multiple	Dual		Multiple	Dual	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	10/100 Mbps Ethernet	10/100 Mbps Ethernet	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	2/1	1/1	1/1	3/1	1/1	-	-	-	1/1	1/1	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)	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) (IP8133/33W)	Yes (Audio In)		Yes (2-way Audio)	Yes (2-way Audio)	Yes (Audio In)	Yes (Audio In)
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	SD/SDHC Card Slot	SD/SDHC 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)	Yes (Removable IR-cut Filter)	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	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 - Dome Series

																
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)	FD8161 (PoE)	FD8135H (PoE)	FD8133 (PoE) FD8134 (PoE)	FD8133V (PoE) FD8134V (PoE)	MD8562 (PoE) MD8562D (DC Power)	MD7530/60 (PoE) MD7530J/60D (DC Power)	FE8172V (PoE)	FE8171V (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	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	0.02 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	SD83x1E: 0.01 Lux @ F1.4 (Color); 0.001 Lux @ F1.4 (B/W) SD83x2E: 0.01 Lux @ F1.35 (Color); 0.001 Lux @ F1.35 (B/W) SD83x3E: 0.01 Lux @ F1.6 (Color); 0.001 Lux @ F1.6 (B/W)	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)	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	Yes	-	-	Yes	-	-	Yes	Yes	-	-	-	-	-	-	-
Lens Type	20x Optical Zoom 2.9 ~ 55.4 mm F1.6 (w), F3.5 (t)	SD83x1E: 18x Optical Zoom, 4.1 ~ 73.8 mm, F1.4 (w), F3.0 (t) SD83x2E: 28x Optical Zoom, 3.5 ~ 98.0 mm, F1.35 (w), F3.7 (t) SD83x3E: 36x Optical Zoom, 3.4 ~ 122.4 mm, F1.6 (w), F4.5 (t)	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)	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	1920x1080	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL	2560x1920	1920x1080	1600x1200	1280x720	1920x1080	1600x1200	1280x720	1280x800	1280x800	1920x1080	640x480 (MD7530/30D) 1600x1200 (MD7560/60D)	1920x1920	1536x1536
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	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 (MD7530/60D) 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)	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)	Dual-Codec (MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)
Multiple Streams	Multiple	Multiple	Multiple	Multiple	Multiple	Dual	Multiple	Multiple	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	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	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 (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)	-	-	Yes (Audio In)	Yes (Audio In)	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	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)	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)	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	-	-	IP66	-	IP66	IP67	IP67	IP66	IP66
Vandal-proof	-	-	-	Yes	Yes	Yes	Yes	-	-	Yes	-	Yes	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	IR Illuminators, ePTZ, PIR, WDR Enhanced, Focus Assist	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

* Wide Temperature Range refers to -40°C ~ 55°C (-40°F ~ 131°F).