



**About VIVOTEK**

VIVOTEK INC., established in Taiwan in 2000, has quickly grown into a prestigious leading brand in the network video surveillance industry. VIVOTEK's IP surveillance solution is future-proof and highly reliable, facilitating the transition from traditional CCTV to wholly digital IP surveillance. VIVOTEK offers a comprehensive product lineup, including network cameras, video servers, video receivers, NVR, and central management software. Through more than 160 authorized distributors worldwide, a broad array of VIVOTEK's products are successfully deployed by security dealers, telecoms and system integrators for a variety of applications and projects such as banking, city surveillance, hotel, transportation, retail, and more.

**PRODUCT BROCHURE**

English Jun. 2012



Network Cameras | Video Servers | NVRs | CMS | Accessories

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6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, Taiwan  
Tel: +886 2 8245 5282 Fax: +886 2 8245 5532  
E-mail: sales@vivotek.com http://www.vivotek.com

**VIVOTEK USA, INC.**

2050 Ringwood Avenue, San Jose, CA 95131  
Tel: 408-773-8686 Fax: 408-773-8298  
E-mail: salesusa@vivotek.com







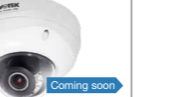




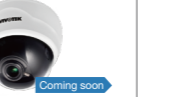






P/N: 972002200 Ver 1.2

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Box Cameras		Bullet Cameras		Fixed Dome Cameras		Fixed Dome Cameras			Speed Dome Cameras				
								 <small>Coming soon</small>				 <small>Coming soon</small>	 <small>Coming soon</small>
Model Name	IP8162/62P	IP8151/51P	IP8362	IP8352	FD8362/62E	FD8162	Model Name	FE8172/72V	FE8171V	MD8562/62D	SD8362E	SD8331E	SD8332E
Sensor Type	1/2.7" Progressive CMOS	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	Sensor Type	1/2.5" Progressive CMOS	1/2" Progressive CMOS	1/2.7" Progressive CMOS	1/3" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS
Lens Type	Vari-focal	Vari-focal	Vari-focal	Vari-focal	Vari-focal Remote Focus	Vari-focal	Lens Type	Fixed	Fixed	Fixed	20x Optical Zoom Auto Focus	20x Optical Zoom Auto Focus	28x Optical Zoom Auto Focus
F-number	F1.2 ~ F360 (IP8162) F1.2~F16 (IP8162P)	F1.2 ~ F360 (IP8151) F1.2~F16 (IP8151P)	F1.2 ~ F2.1	F1.2 ~ F2.1	F1.2 ~ F2.1	F1.2 ~ F2.1	F-number	F2.8	F2.8	F2.0	F1.6 ~ F3.5	F1.35 ~ F3.4	F1.35 ~ F3.7
Focal Length	f = 3.1 ~ 8 mm	f = 3.1 ~ 8 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	Focal Length	f = 1.05 mm	f = 1.27 mm	f = 2.8 mm	f = 4.7~ 94 mm	f = 3.5 ~ 70 mm	f = 3.5 ~ 98 mm
Auto-iris	DC-iris (IP8162) P-iris (IP8162P)	DC-iris (IP8151) P-iris (IP8151P)	DC-iris	DC-iris	DC-iris	DC-iris	Auto-iris	-	-	-	DC-iris	DC-iris	DC-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Day/Night	Yes	Yes	-	Yes	Yes	Yes
IR Illuminators	-	-	20 m, IR LED*12	20 m, IR LED*12	-	15 m, IR LED*18	IR Illuminators	-	-	-	-	-	-
Min. Illumination	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)	0.08 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.02 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.08 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.08 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	Min. Illumination	TBD	1.17 Lux @ F2.8 (Color) 0.2 Lux @ F2.8 (B/W)	0.2 Lux @ F2.0	0.02 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.02 Lux @ F1.35 (Color) 0.001 Lux @ F1.35 (B/W)	0.02 Lux @ F1.35 (Color) 0.001 Lux @ F1.35 (B/W)
Max. Video Resolution	1920x1080	1280x1024	1920x1080	1280x1024	1920x1080	1920x1080	Max. Video Resolution	1920x1920	1536x1536	1920x1080	1920x1080	1280x720	1280x720
Frames per Second	30 fps @ 1920x1080	30 fps @ 1280x1024	30 fps @ 1920x1080	60 fps @ 1280x720 30 fps @ 1280x1024	30 fps @ 1920x1080	30 fps @ 1920x1080	Frames per Second	12 fps @ 1920x1920	15 fps @ 1536x1536	30 fps @ 1920x1080	60 fps @ 1280x720 30 fps @ 1920x1080	60 fps @ 1280x720	60 fps @ 1280x720
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)	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)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	Multiple Streams	3 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Enhanced	-	WDR Enhanced	WDR Enhanced	WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro
Networking	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	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
Power Input	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	Power Input	PoE	PoE	PoE (MD8562) DC 12V (MD8562D)	PoE Plus AC 24V	PoE Plus AC 24V	PoE Plus AC 24V
Digital Input / Output	1/1	1/1	1/1	1/1	1/1	1/1	Digital Input / Output	1/1	1/1	1/0	3/2	4/2	4/2
Audio Capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Audio Capability	Two-way Audio	Two-way Audio	Audio In	Two-way Audio	Two-way Audio	Two-way Audio
On-board Storage	SD/SDHC Card Slot	SD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	On-board Storage	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot
Weather-proof	-	-	IP67	IP67	IP66	-	Weather-proof	IP66 (FE8172V)	IP66	IP67	IP66	IP66	IP66
Vandal-proof	-	-	-	-	Yes	-	Vandal-proof	Yes (FE8172V)	Yes	Yes	-	-	-
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	FD8362: 0°C ~ 50°C (32°F ~ 122°F) FD8362E: -40°C ~ 55°C (-40°F ~ 131°F)	0°C ~ 50°C (32°F ~ 122°F)	Operating Temperature	-25°C ~ 50°C (-13°F ~ 122°F)	-25°C ~ 50°C (-13°F ~ 122°F)	-25°C ~ 55°C (-13°F ~ 131°F)	-40°C ~ 55°C (AC 24V) -10°C ~ 55°C (PoE Plus)	-40°C ~ 55°C (AC 24V) -10°C ~ 55°C (PoE Plus)	-40°C ~ 55°C (AC 24V) -10°C ~ 55°C (PoE Plus)
Other Value-added Features	ePTZ, Focus Assist	ePTZ, Supreme Night Visibility, Adjustment Ring, Focus Assist (IP8151P)	Cable Management, ePTZ	Supreme Night Visibility, Cable Management, ePTZ	ePTZ	PIR, ePTZ, Focus Assist	Other Value-added Features	EN50155 (FE8172V), ePTZ, 180° Panoramic View and 360° Surround View	EN50155, ePTZ, 180° Panoramic View and 360° Surround View	EN50155, ePTZ	Audio Detection, ePTZ	Audio Detection, NEMA 4X, Auto Tracking, ePTZ	Audio Detection, NEMA 4X, Auto Tracking, ePTZ

\*WDR Enhanced: VIVOTEK's branding for its tone mapping technology, which works by reducing the dynamic range of the entire image, while retaining the contrast of the image.  
\*WDR Pro: It works by capturing alternate frames using different exposure times. A single high-contrast frame that retains details in both the dark and bright areas of the field of view will then be created by combining the two frames using an advanced image signal processor.

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	Box Cameras		Bullet Cameras				Fixed Dome Cameras			Fixed Dome Cameras				Speed Dome Cameras				PTZ Cameras		
																				
Model Name	IP8172/72P	IP8161	IP8372	IP8361	IP8335H	IP7361	FD8372	FD8361	FD8161	Model Name	FD8335H	FD8135H	FD8131	MD7530/60 MD7530D/60D	SD8311E/21E	SD8312E/22E	SD8313E/23E	SD8111/21	PZ8111/21/11W/21W	
Sensor Type	1/2.5" Progressive CMOS	1/3" Progressive CMOS	1/2.5" Progressive CMOS	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/3" Progressive CMOS	1/2.5" Progressive CMOS	1/3" Progressive CMOS	1/3" Progressive CMOS	Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/4" Progressive CMOS	1/3.2" Progressive CMOS (MD7560) 1/4" Progressive CMOS (MD7530)	1/4" Progressive CCD	1/4" Progressive CCD	1/4" Progressive CCD	1/4" Progressive CCD	1/4" Progressive CCD	
Lens Type	Vari-focal	Vari-focal	Vari-focal Remote Focus	Vari-focal	Vari-focal	Vari-focal	Vari-focal Remote Focus	Vari-focal	Vari-focal	Lens Type	Vari-focal	Vari-focal	Vari-focal	Fixed-focal	18x Optical Zoom Auto Focus	28x Optical Zoom Auto Focus	36x Optical Zoom Auto Focus	12x Optical Zoom Auto Focus	10x Optical Zoom Auto Focus	
F-number	F1.2 (IP8172) F1.6 (IP8172P)	F1.2 ~ F3.6	F1.8 ~ F3.4	F1.2 ~ F2.1	F1.2 ~ F2.1	F1.2 ~ F2.1	F1.8 ~ F3.4	F1.2 ~ F2.1	F1.2 ~ F2.1	F-number	F1.2 ~ F2.1	F1.2 ~ F2.1	F1.4	F2.0	F1.4 ~ F3.0	F1.35 ~ F3.7	F1.6 ~ F4.5	F1.6 ~ F2.8	F1.8 ~ F2.9	
Focal Length	f = 2.8 ~ 12 mm (IP8172) f = 3.5 ~ 10 mm (IP8172P)	f = 3.1 ~ 8 mm	f = 4.3 ~ 9 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	f = 3.6 ~ 9 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	Focal Length	f = 3 ~ 9 mm	f = 3 ~ 9 mm	f = 3 ~ 12 mm	f = 2.8 mm	f = 4.1 ~ 73.8 mm	f = 3.5 ~ 98 mm	f = 3.4 ~ 122.4 mm	f = 3.8 ~ 45.6 mm	f = 4.2 ~ 42 mm	
Auto-iris	DC-iris (IP8172) P-iris (IP8172P)	DC-iris	DC-iris	DC-iris	P-iris	DC-iris	DC-iris	DC-iris	DC-iris	Auto-iris	P-iris	P-iris	-	-	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris	
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Day/Night	Yes	Yes	-	-	Yes	Yes	Yes	Yes	-	
IR Illuminators	-	-	30 m, IR LED*32	25 m, IR LED*24	20 m, IR LED*12	25 m, IR LED*24	20 m, IR LED*15	20 m, IR LED*18	15 m, IR LED*12	IR Illuminators	20 m, IR LED*18	20 m, IR LED*18	-	-	-	-	-	-	-	
Min. Illumination	IP8172: 0.06 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W) IP8172P: 0.09 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.1 Lux @ F1.2 (Color) 0.001 Lux (B/W)	TBD	0.1 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 (Color) 0.001 Lux @ F1.2 (B/W)	0.03 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W)	0.1 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.1 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	Min. Illumination	0.8 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.8 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.5 Lux @ F1.4	0.5 Lux (MD7530/30D) 0.6 Lux (MD7560/60D)	0.01 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)	0.01 Lux @ F1.35 (Color) 0.001 Lux @ F1.35 (B/W)	0.01 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.01 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	2.76 Lux @ F1.8 (Color) 0.05 Lux @ F1.8 (B/W)	
Max. Video Resolution	2560x1920	1600x1200	2560x1920	1600x1200	1280x800	1600x1200	2560x1920	1600x1200	1600x1200	Max. Video Resolution	1280x800	1280x800	1280x800	640x480 (MD7530/30D) 1600x1200 (MD7560/60D)	720x480/NTSC (SD8311E) 720x576/PAL (SD8321E)	720x480/NTSC (SD8312E) 720x576/PAL (SD8322E)	720x480/NTSC (SD8313E) 720x576/PAL (SD8323E)	720x480/NTSC (SD8111) 720x576/PAL (SD8121)	720x480/NTSC (PZ8111/11W) 720x576/PAL (PZ8121/21W)	
Frames per Second	30 fps @ 1920x1080 10 fps @ 2560x1920	30 fps @ 1280x720 15 fps @ 1600x1200	10 fps @ 2560x1920 30 fps @ 1920x1080	30 fps @ 1280x720 15 fps @ 1600x1200	30 fps @ 1280x800	30 fps @ 1280x720 15 fps @ 1600x1200	10 fps @ 2560x1920 30 fps @ 1920x1080	30 fps @ 1280x720 15 fps @ 1600x1200	30 fps @ 1280x720 15 fps @ 1600x1200	Frames per Second	30 fps @ 1280x800	30 fps @ 1280x800	30 fps @ 1280x800	30 fps @ 640x480 (MD7530/30D) 30 fps @ 1280x720 (MD7560/60D) 15 fps @ 1600x1200 (MD7560/60D)	60 fps @ 720x480 50 fps @ 720x576	60 fps @ 720x480 50 fps @ 720x576	60 fps @ 720x480 50 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576	
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)	Triple-Codec (H.264/MJPEG/MPEG-4)	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)	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	3 Streams	3 Streams	3 Streams	4 Streams	2 Streams	4 Streams	3 Streams	4 Streams	4 Streams	Multiple Streams	2 Streams	2 Streams	4 Streams	2 Streams (MD7530/30D) 4 Streams (MD7560/60D)	4 Streams	4 Streams	4 Streams	3 Streams	3 Streams	
WDR Technology*	WDR Enhanced	-	WDR Enhanced	-	WDR Pro	-	WDR Enhanced	-	-	WDR Technology*	WDR Pro	WDR Pro	-	-	WDR Pro	WDR Pro	WDR Pro	WDR Enhanced	-	
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	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 (PZ8111/21) 802.11b/g/n WLAN (PZ8111W/21W)
Power Input	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE DC 12V AC 24V	PoE AC 24V	PoE DC 12V AC 24V	PoE DC 12V	Power Input	PoE AC 24V	PoE AC 24V	PoE DC 12V	PoE (MD7530/60) DC 12V (MD7530D/60D)	PoE Plus AC 24V	PoE Plus AC 24V	PoE Plus AC 24V	DC 12V	PoE (PZ8111/21) DC 12V (PZ8111W/21W)	
Digital Input / Output	1/1	1/1	2/1	1/1	3/1	1/1	3/1	1/1	1/1	Digital Input / Output	3/1	3/1	1/0	-	3/2	3/2	3/2	4/1	1/1	
Audio Capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Audio Capability	Two-way Audio	Two-way Audio	-	Audio In	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	
On-board Storage	SD/SDHC/SDXC Card Slot	SD/SDHC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	MicroSD/SDHC Card Slot	SD/SDHC Card Slot	MicroSD/SDHC/SDXC Card Slot	SD/SDHC Card Slot	SD/SDHC Card Slot	On-board Storage	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	MicroSD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC Card Slot	SD/SDHC Card Slot	-	
Weather-proof	-	-	IP66	IP67	IP67	IP67	IP66	IP66	-	Weather-proof	IP66	-	-	IP67	IP66	IP66	IP66	-	-	
Vandal-proof	-	-	-	-	-	-	Yes	Yes	-	Vandal-proof	Yes	-	-	Yes	-	-	-	-	-	
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	-25°C ~ 55°C (-13°F ~ 131°F)	-40°C ~ 55°C (AC 24V) -10°C ~ 55°C (PoE Plus)	-40°C ~ 55°C (AC 24V) -10°C ~ 55°C (PoE Plus)	-40°C ~ 55°C (AC 24V) -10°C ~ 55°C (PoE Plus)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 50°C (32°F ~ 122°F)	
Other Value-added Features	ePTZ, Focus Assist	ePTZ, Adjustment Ring	Cable Management, ePTZ	Cable Management, ePTZ	Cable Management, ePTZ	Cable Management, ePTZ	3-axis, ePTZ	3-axis, ePTZ	PIR, 3-axis, ePTZ	Other Value-added Features	3-axis, ePTZ	PIR, 3-axis, ePTZ	ePTZ	Temperature Trigger, EN50155, ePTZ (MD7560/60D)	Audio Detection	Audio Detection, EIS	Audio Detection, EIS	3D Noise Reduction	-	









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\*WDR Pro: It works by capturing alternate frames using different exposure times. A single high-contrast frame that retains details in both the dark and bright areas of the field of view will then be created by combining the two frames using an advanced image signal processor.

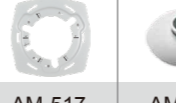







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	Bullet Cameras			Cube Cameras			Fixed Dome Cameras				PTZ Cameras	
												
<b>Model Name</b>	IP8332	IP8330	IP8331	IP8336W	IP8132/33/33W	IP7133/34	FD8133V/34V	FD8133/34	FD8151V	FD8136	PT8133/33W	PD8136
<b>Sensor Type</b>	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/3" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS
<b>Lens Type</b>	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal
<b>F-number</b>	F1.8	F1.6	F1.8	F1.8	F2.4	F2.0	F1.8	F1.8	TBD	F2.0	F1.8	F1.8
<b>Focal Length</b>	f = 3.6 mm	f = 4 mm	f = 4 mm	f = 3.6 mm	f = 3.29 mm	f = 4.09 mm	f = 3.6 mm	f = 3.6 mm	f = 2 mm	f = 2.5 mm, f = 3.6 mm, f = 6 mm	f = 3.6 mm	f = 3.6 mm
<b>Auto-iris</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Day/Night</b>	Yes	Yes	Yes (Dual-band Lens)	Yes	-	-	Yes (FD8134V)	Yes (FD8134)	Yes	-	-	-
<b>IR Illuminators</b>	15 m, IR LED*12	15 m, IR LED*12	10 m, IR LED*12	5 m, IR LED*6	-	-	10 m, IR LED*8 (FD8134V)	10 m, IR LED*8 (FD8134)	5 m, IR LED*4	-	-	-
<b>Min. Illumination</b>	0.3 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W)	0.1 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.1 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W)	TBD	3.0 Lux @ F2.4	0.4 Lux @ F2.0	0.3 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) (FD8134V)	0.3 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) (FD8134)	TBD	0.45 Lux @ F1.8	0.3 Lux @ F1.8	0.3 Lux @ F1.8
<b>Max. Video Resolution</b>	1280x800	640x480	640x480	1280x800	1280x800	640x480	1280x800	1280x800	1280x1024	1280x800	1280x800	1280x800
<b>Frames per Second</b>	30 fps @ 1280x800	60 fps @ 640x480	30 fps @ 640x480	30 fps @ 1280x800	30 fps @ 1280x800	30 fps @ 640x480	30 fps @ 1280x800	30 fps @ 1280x800	15 fps @ 1280x1024 30 fps @ 1280x720	30 fps @ 1280x800	30 fps @ 1280x800	30 fps @ 1280x800
<b>Video Compression</b>	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)	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)
<b>Multiple Streams</b>	4 Streams	4 Streams	2 Streams	2 Streams	3 Streams	2 Streams	4 Streams	4 Streams	2 Streams	2 Streams	2 Streams	2 Streams
<b>WDR Technology*</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Networking</b>	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet 802.11b/g/n WLAN	10/100 Mbps Ethernet 802.11b/g/n WLAN (IP8133W)	10/100 Mbps Ethernet 802.11b/g/n WLAN (IP7134)	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet 802.11b/g/n WLAN (PT8133W)	10/100 Mbps Ethernet
<b>Power Input</b>	PoE DC 12V, AC 24V	PoE DC 12V, AC 24V	PoE DC 12V, AC 24V	DC 12V	PoE (IP8133) DC 12V	DC 5V	PoE (FD8134V) DC 12V	PoE (FD8134) DC 12V	PoE	PoE	PoE (PT8133) DC 12V	PoE
<b>Digital Input / Output</b>	1/0	1/0	1/0	1/0	1/1	1/1	1/0	1/0	1/0	1/0	-	-
<b>Audio Capability</b>	-	-	-	Built-in Microphone	Two-way Audio (IP8133/33W)	Audio In	-	-	Two-way Audio	Built-in Microphone	Audio In	Built-in Microphone
<b>On-board Storage</b>	MicroSD/SDHC 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 Card Slot	-	MicroSD/SDHC Card Slot
<b>Weather-proof</b>	IP66	IP66	IP66	IP66	-	-	IP66	-	-	-	-	-
<b>Vandal-proof</b>	-	-	-	-	-	-	Yes	-	Yes	-	-	-
<b>Operating Temperature</b>	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)
<b>Other Value-added Features</b>	-	-	-	ePTZ, WPS	· Privacy Button · PIR, White-light LEDs, Built-in Speaker (IP8133/33W) · WPS (IP8133W)	Privacy Button	3-axis	3-axis	ePTZ, Ultra-mini Size (Ø: 90 mm, H: 50 mm)	ePTZ, Ultra-mini Size (Ø: 90 mm, H: 50 mm)	WPS (PT8133W)	-







\*WDR Enhanced: VIVOTEK's branding for its tone mapping technology, which works by reducing the dynamic range of the entire image, while retaining the contrast of the image.  
\*WDR Pro: It works by capturing alternate frames using different exposure times. A single high-contrast frame that retains details in both the dark and bright areas of the field of view will then be created by combining the two frames using an advanced image signal processor.








**Accessories**





	Mounting Kits										
											
<b>Model Name</b>	AM1000	AM-114	AM-115	AM-211	AM-212	AM2000	AM-311	AM-411	AM5102	AM-515	AM-516
<b>Description</b>	Recessed kit	Pendant head	Pendant pipe	L shape bracket	Wall mount bracket	Wall mount bracket	Pole mount adaptor	Corner mount adaptor	1.5" NPT adaptor	1.5" NPT adaptor	Adaptor ring




	Mounting Kits					Enclosures					
											
<b>Model Name</b>	AM-517	AM-518	AM-711	SP-702A	AT-C9	AE-101	AE-102	AE-131	AE-132	AE-151	AE2000
<b>Description</b>	Adaptor ring	Outdoor dome adaptor	Junction box	Mounting bracket	Recessed kit	Indoor camera enclosure	Indoor camera enclosure	Outdoor dome enclosure (transparent cover)	Outdoor dome enclosure (smoke cover)	Outdoor dome enclosure	Outdoor enclosure with IR illuminators

	Enclosures			IR Illuminators			Lenses			
										
<b>Model Name</b>	AE-211	AE-232	AE-233	AI-101	AI-102	AI-103	AL-231	AL-232	AL-233	AL-241
<b>Description</b>	Outdoor camera enclosure with fan	Outdoor camera enclosure with fan/heater	Outdoor Camera enclosure with fan/heater (input AC 24V)	IR illuminators, super power infrared LED units*6, distance 20 M	IR illuminators, super power infrared LED units*12 in 2 tube housings, distance 20 M, IP68	IR illuminators, super power infrared LED units*6, distance 20 M, IP68	CS mount, 2.8 ~ 12 mm, F1.2, DC-iris	CS mount, 3.1 ~ 8 mm, F1.2, DC-iris	CS mount, 5 ~ 50 mm, F1.6, DC-iris	CS mount, 3.1 ~ 8 mm, F1.2, P-iris

	Network Accessories					Joystick
						
<b>Model Name</b>	AN3000	N600AG	IOP-RFCFD-400150NMR	IOP-OAPMB-APM-101R	IOP-OAPMB-APM-102R	IPD-USB
<b>Description</b>	Outdoor Ethernet waterproof connector	Outdoor wireless access point	RF cable	Outdoor wireless access point	Outdoor wireless access point	USB joystick

	PoE Kits						Power Adapter
							
<b>Description</b>	802.3af PoE kit	802.3af PoE injector	802.3af PoE splitter 12V	802.3af PoE splitter 5V	802.3at PoE injector	High PoE kit	AC 24V 3.5A power adapter

Video Servers & Video Receiver				
				
Model Name	VS8801/8401	VS8102	VS7100	RX7101
Video Source	8/4 Analog Camera Input	1 Analog Camera Input	1 Analog Camera Input	1 ~ 4 Network Cameras
Video Modulation	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL
Max Video Resolution	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL	704x480/NTSC 704x576/PAL
Frames per Second	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 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 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	1 Stream (VS8801) 2 Streams (VS8401)	4 Streams	2 Streams	-
Power Input	DC 12V AC 24V	PoE DC 12V AC 24V	DC 12V	DC 12V
Decoding	-	-	-	Dual-Codec (MJPEG/MPEG-4)
On-board Storage	SD/SDHC Card Slot (VS8401)	SD/SDHC Card Slot	-	-

Network Video Recorders			
			
Model Name	NR8201	NR8301	ND8301
Video	Compression: H.264, MPEG-4 & MJPEG	Compression: H.264, MPEG-4 & MJPEG	Compression: H.264, MPEG-4 & MJPEG
Channels	Up to 4 channels	Up to 8 channels	Up to 12 channels
Hard Disk	3.5" SATA I/II HDD*1, up to 2TB (Supports external eSATA interface)	3.5" SATA I/II HDD*2, up to 4TB (Supports RAID 0, 1 scalable storage)	3.5" SATA I/II HDD*2, up to 6TB (Supports RAID 0, 1 scalable storage)
Compatibility	Supports VIVOTEK all series of network cameras	Supports VIVOTEK all series of network cameras	Supports VIVOTEK all series of network cameras
Recording Throughput	Total: 16 Mbps	Total: 4 x 30 fps @ 1080p, 50 Mbps	Total: 12 x 30 fps @ 1080p, 96 Mbps
Recording Policy	Alarm recording Scheduled recording Continuous recording Manual recording	Alarm recording Scheduled recording Continuous recording Manual recording	Alarm recording Scheduled recording Continuous recording Manual recording
Connectors	Gigabit*1, RJ45 (WAN port*1) Ethernet 10/100 BaseTX*4, RJ45 (LAN ports*4) USB socket for backup eSATA for external HD Terminal block: Digital Input*4 Relay Output*1 Power Output*1 (12V 1A)	Gigabit*1, RJ45 (WAN port*1) Ethernet 10/100 BaseTX*8, RJ45 (LAN ports*8) USB socket for backup Terminal block: Digital Input*4 Relay Output*1 Power Output*1 (12V 1A)	Gigabit*2, RJ45 (WAN/LAN port*1) USB socket for backup eSATA for external HD
History Playback	Playback of recorded media with time navigations	Playback of recorded media with time navigations	Playback of recorded media with time navigations
LED Indicator	System power and status indicator System activity and network link indicator	System power and status indicator System activity and network link indicator	System power and status indicator HDD status indicator
Power	100 ~ 240V AC Power consumption: Max. 0.48 W Power consumption: Max. 60 W (with PoE cameras*4) 802.3af compliant PoE	100 ~ 240V AC Power consumption: Max. 0.96 W Power consumption: Max. 120 W (with PoE cameras*4) 802.3af compliant PoE	100 ~ 240V AC Power consumption: Max. TBD
Approvals	CB, CE, C-Tick, FCC, VCCI	CB, CE, C-Tick, FCC, VCCI	CB, CE, C-Tick, FCC, VCCI
Installation, Management, and Maintenance	Supports VIVOTEK joystick Installation Wizard 2 VAST Central management software	Supports VIVOTEK joystick Installation Wizard 2 VAST Central management software	Supports VIVOTEK joystick Installation Wizard 2 VAST Central management software
Weight	Net: 4000 g	Net: 4700 g	Net: TBD
Dimensions	446.4 mm (D) x 330.2 mm (W) x 43.6 mm (H)	446.4 mm (D) x 330.2 mm (W) x 43.6 mm (H)	220.2 mm (D) x 315.0 mm (W) x 75.0 mm (H)
Warranty	24 months	24 months	24 months

### 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.

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

### Application Software



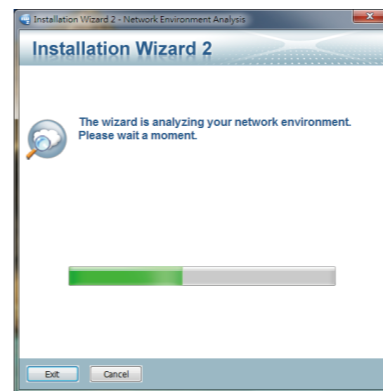
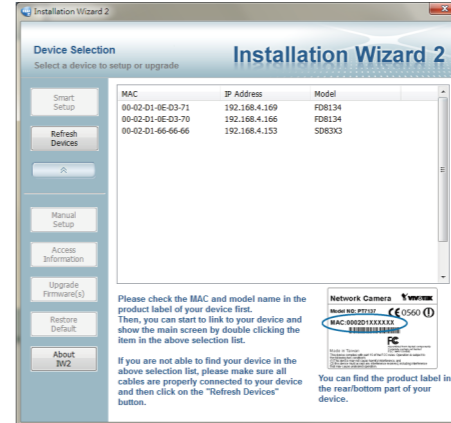




#### iViewer

iViewer is VIVOTEK's application software for iOS and Android system, allowing users to monitor live video from hundreds of cameras managed by a VAST server (central management software), standard recording software ST7501, or make direct connections to individual cameras. The iViewer also provides PTZ/ePTZ screen control and the capability to playback recorded video from a VAST server.

### Installation Wizard 2

VIVOTEK's Installation Wizard 2, embedded with intelligent functions, can guide users to set up a network camera with ease. It is able to automatically detect users' network environments regarding IP address information, DDNS information, UPnP port forwarding information, and PPPoE connecting information, and directs users to connect the network cameras to the Internet quickly. It greatly facilitates the installation procedure for both professional and home security users.



## 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.

Find out more about enrolling in the VIVOTEK SIA Program, please email [sia@vivotek.com](mailto:sia@vivotek.com) for more information.

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The World's Smallest Fixed Dome Network Camera

**FD8136** | Fixed Dome Network Camera **ONVIF**

- 1MP, 720p HD
- Ultra-mini Size (Ø: 90 mm, H: 50 mm)
- PoE, On Board Storage
- Built-in Microphone