



FD8165H

Fixed Dome Network Camera



2MP · WDR Pro · Smart IR · 3DNR · **Smart Focus System**

VIVOTEK FD8165H is a professional indoor network dome camera offering up to 60 fps @ 2-Megapixel resolution with superb image quality.

Featuring the Wide Dynamic Range Technology WDR Pro, this camera provides improved visibility in dark & light environments. Combined with 3D Noise Reduction Technology, which enables the FD8165H to capture clear, polished video under low-light conditions and reduce bandwidth from sensor noise, users can enjoy superb image detail in all lighting conditions.

Additionally, as a professional day/night camera, FD8165H adopts Smart IR technology which prevents overexposure and provides noise reduction by instantaneously adjusting IR lighting intensity to suit changes in ambient

To provide top-notch image quality, the FD8165H also comes with a P-iris lens, which controls the iris with extreme precision via its built-in stepper motor. The iris opening is kept at an optimal level at all times, resulting in superior image sharpness and depth of field. Furthermore, because installation and adjustment of a megapixel network camera can be difficult due to the level of image detail, the FD8165H is equipped with VIVOTEK's Smart Focus System to allow remote focus and zoom adjustment.

Key Features

- · 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080 60 fps @ 1920x1080 (one-stream mode only)
- · Motorized, P-iris Lens
- · Removable IR-cut Filter for Day & Night Function
- \cdot Built-in IR Illuminators, Effective up to 20 Meters
- · Smart IR Technology to Avoid Overexposure
- · 3D Noise Reduction for Low-light Conditions
- · WDR Pro to Provide Improved Visibility in Extremely Bright and Dark Environments
- · Smart Focus System for Remote and Precise Focus Adjustment
- · Two-way Audio



With WDR Pro

Without WDR Pro



Main Station Lobby



Office



Hotel Sidewalk

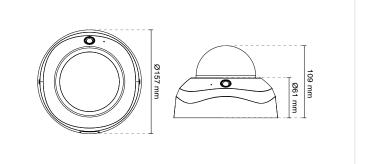


Technical Specifications

System Information CPU Multimedia SoC (System-on-Chip) Flash 256MB RAM 384MB Camera Features Image Sensor 1/2.8° Progressive CMOS Maximum Resolution 1920x1080 (2MP) Lens Type Varifocal, Remote Focus Focal Length F-3 - 10 mm Aperture F1.3 - F2.5 Auto-iris P-Iris/DC-iris (Reserved) Field of View 33° - 104° (Horizontal) 35° - 121° (Diagonal) 35° - 121° (Diagonal) Shutter Time 1/5 sec. to 1/10000 sec. WDR Technology WDR Pro Day/Night Smart R Technology to avoid overexposure Minimum Illumination 0.16 Liux # F1.3 (Color) On-board Storage MicroSO/SDHC/SDKC card stot Video Video Video Video Maximum Frame Rate 60 fp.se 1920x1080 (one-stream mode only) Maximum Frame Rate 61 fb.se 1920x1080 (one-stream mode only) Maximum Frame Rate 71 mine stamp, text overlay, flip & mirror configurable brightness, contrast, sat	recimical opecifications	
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Image Sensor 1/2.8* Progressive CMOS Maximum Resolution 1920x1080 (2MP) Lens Type Vari-focal, Remote Focus Focal Length f = 3 - 10 mm Aperture F1.3 ~ F2.5 Auto-iris Piris/DC-iris (Reserved) Field of View 33° - 104" (Horizontal) 19" - 56" (Vertical) 39" - 121" (Diagonal) Shutter Time 1/5 sec. to 1/10000 sec. WDR Technology WDR Pro Day/Night Removable R-cut filter for day & night function Smart R Technology to avoid overexposure Minimum Illumination 0.16Lux #F1.3 (Color) 0.001 Lux #F1.3 (Golor) 0.001 Lux #F1.3 (Golor) On Doard Storage Alleria R. Bulli-in Rilliuminators, effective up to 20 meters IR LED*4, with Smart IR Technology On-board Storage MicroSD/SDHC/SDXC card slot Video Compression H.264, MJPEG Maximum Frame Rate 016 ps #1920x1080 one-stream mode only) in bott compression modes Maximum Streams 2 simultaneous streams S/N Ratio 62 dB Dynamic Range Up to 100 dB Video Streaming Adjustable resolution, quality and birrate Image Settings Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 30 noise reduction, seamless recording seamless recording input Adultio output Network Users Live viewing for up to 10 clients Protocols SMPT_FTR_DHCP_RTTR_DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP SMPT_TR_DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Flash	256MB
Image Sensor 1/2.8* Progressive CMOS Maximum Resolution 1920x1080 (2MP) Lens Type Vari-focal, Remote Focus Focal Length f= 3 – 10 mm Aperture F1.3 – F2.5 Auto-iris Piris/DC-iris (Reserved) Field of View 33°-104* (Horizontal) 19' – 56* (Vertical) 39°-121* (Diagonal) Shutter Time 1/5 sec. to 1/10000 sec. WDR Technology WDR Pro Day/Night Removable IR-cut filter for day & night function Smart IR Technology to avoid overexposure Minimum Illumination 0.16 Lex #F1.3* (GAV) Pan/tilt/zoom Functionalities P12* (Cal) F1.3* (GAV) Pan/tilt/zoom Functionalities P18* (Col) F1.3* (BAV) On-board Storage MicroSD/SDHC/SDXC card slot Video Compression H.264, MJPEG Maximum Frame Rate 30 of ps # 1920x1080 (one-stream mode only) in both compression modes Maximum Streams 2 simultaneous streams S/N Ratio 62 dB Dynamic Range Up to 100dB Video Streaming Adjustable resolution, quality and bitrate Time stamp, text overlay, filip & mirror compression modes Audio Capability Time stamp, text overlay, filip & mirror compression makes privacy masks, scheduled profile settings, 30 noise reduction, seamless recording Audio Capability Two-way audio (full duplex) Compression AC, C.711, C.726 Interface Lexensur mirror phone input Audio output Network Users Live viewing for up to 10 clients Protocols SMP_FTP, DHCP, TTP, DNS, DNS, PPPOE, COS, QoS, SNMP, 802.1X, UDP, ICMP. PNS, DNS, PPPOE, COS, QoS, SNMP, 802.1X, UDP, ICMP.	RAM	384MB
Maximum Resolution 1920x1080 (ZMP)	Camera Features	
Lens Type	Image Sensor	1/2.8" Progressive CMOS
Focal Length Aperture F1.3 ~ F2.5 Auto-iris P-iris/DC-iris (Reserved) Field of View 33° ~ 104° (Horizontal) 19° ~ 56° (Vertical) 39° ~ 121′ (Diagonal) Shutter Time 1/5 sec. to 1/10000 sec. WDR Pro Day/Night Removable IR-cut filter for day & night function Smart IR Technology to avoid overexposure Minimum Illumination 0.16 Lux @ F1.3 (Color) Auto F1.3 (R)M Pan/titl/zoom Functionalities Removable IR-cut filter for day & night function Smart IR Technology to avoid overexposure Minimum Illumination 0.16 Lux @ F1.3 (Color) Auto F1.3 (R)M Pan/titl/zoom Functionalities ### Auto F1.3 (Color) Auto F1.3 (R)M Pan/titl/zoom Functionalities ### Auto F1.3 (R)M Pan/titl/zoom Functionalities ### Auto F1.3 (R)M Pan/titl/zoom Functionalities ### Auto F1.3 (R)M ###	Maximum Resolution	1920x1080 (2MP)
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Day/Night Removable IR-cut filter for day & night function Smart IR Technology to avoid overexposure Minimum Illumination 0.16Lux ⊕ F1.3 (G/W) Pan/tilt/zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in,12x built in) IR Illuminators Built-in IR illuminators, effective up to 20 meters IR LED*4, with Smart IR Technology On-board Storage MicroSD/SDHC/SDXC card slot Video Compression H.264, MJPEG Maximum Frame Rate 30 fps ⊕ 1920x1080 60 fps ⊕ 1920x1080 60 fps ⊕ 1920x1080 in both compression modes Maximum Streams 2 simultaneous streams S/N Ratio 62 dB Dynamic Range Up to 100dB Video Streaming Adjustable resolution, quality and bitrate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients III PV4, IPV6, TCP/IP, HTTP, HTTPS, UPpP, RTSP/RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Protocols Interface 108ase-T/100 BaseTX Ethernet (R)-45)	Shutter Time	1/5 sec. to 1/10000 sec.
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Pan/tilt/zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in,12x built in) IR Illuminators Built-in IR illuminators, effective up to 20 meters IR LED*4, with Smart IR Technology On-board Storage MicroSD/SDHC/SDXC card slot Video Compression H. 264, MJPEG Maximum Frame Rate 30 fps @ 1920x1080 (one-stream mode only) In both compression modes Maximum Streams 2 simultaneous streams 5/N Ratio 62 dB Dynamic Range Up to 100dB Video Streaming Adjustable resolution, quality and bitrate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHC, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	Day/Night	
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Video Compression H.264, MJPEG Maximum Frame Rate 30 fps @ 1920x1080 (one-stream mode only) In both compression modes Maximum Streams 2 simultaneous streams S/N Ratio 62 dB Dynamic Range Up to 100dB Video Streaming Adjustable resolution, quality and bitrate Image Settings Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Users Live viewing for up to 10 clients Protocols SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	IR Illuminators	
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S/N Ratio 62 dB Dynamic Range Up to 100dB Video Streaming Adjustable resolution, quality and bitrate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, UPNP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Maximum Frame Rate	60 fps @ 1920x1080 (one-stream mode only)
Dynamic Range Up to 100dB Video Streaming Adjustable resolution, quality and bitrate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, UPNP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	Maximum Streams	2 simultaneous streams
Video Streaming Adjustable resolution, quality and bitrate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, LPNP, RTSP/RTP/RTCP, IGMP, SMTP, FTB, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	S/N Ratio	62 dB
Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients IPv4, IPv6, TCP/IP, HTTP, UPNP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	Dynamic Range	Up to 100dB
Configurable brightness, contrast, saturation, sharpnesss, white balance, exposure control, gain, backlight compensor, white balance, exposure control, gain, backlight compensor, white privacy masks, scheduled profile settings, 3D noise reduction, seamless recording Audio Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, UPNP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Video Streaming	Adjustable resolution, quality and bitrate
Audio Capability Two-way audio (full duplex) Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients Protocols Protocols Protocols Protocols Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Image Settings	Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction,
Compression AAC, G.711, G.726 Interface External microphone input Audio output Network Users Live viewing for up to 10 clients IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Audio	
Interface External microphone input Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Audio Capability	Two-way audio (full duplex)
Network Users Live viewing for up to 10 clients Protocols IPV4, IPV6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	Compression	AAC, G.711, G.726
Users Live viewing for up to 10 clients Protocols Proto	Interface	
Protocols IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	Network	
Protocols SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	Users	Live viewing for up to 10 clients
	Protocols	SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP,
ONVIF Supported, specification available at www.onvif.org	Interface	10Base-T/100 BaseTX Ethernet (RJ-45)
	ONVIF	Supported, specification available at www.onvif.org

Intelligent Video	
Video Motion Detection	Triple-window video motion detection
Alarm and Event	
Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server
General	
Smart Focus System	Remote focus
Connectors	RJ-45 for Network/PoE connection Audio input/output AV output AC 24V power input DC 12V power input Digital input*1 Digital input*1
LED Indicator	System power and status indicator
Power Input	DC12V/AC24V IEEE 802.3af PoE
Power Consumption	DC 12V: Max. 7.6 W AC 24V: Max. 8.6 W PoE: Max. 10.6 W
Dimensions	Ø: 157 mm x 109 mm
Weight	Net: 758g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: -10'C ~ 50'C (14'F~ 122'F) Working Temperature: -20'C ~ 50'C (-4'F~ 122'F)
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 7/Vista/XP/2000
Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7/8/9/10/11
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
Others	Quick installation guide, warranty card, alignment sticker, L-type hex key wrench, screws, hex nut, AV cable, power cable

Dimensions



Compatible Accessories

Mounting Kits



AM-215 L Shape Bracket



AM-516 Adaptor Ring



AM-520 Mounting Adaptor

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