



FD8181

Fixed Dome Network Camera



5MP 25 fps · 30M IR · Smart Focus System · PIR · Smart Stream

VIVOTEK FD8181 is a brand-new professional indoor dome network camera offering up to 25 fps @ 5-Megapixel or 30 fps @ 1080p resolution with superb image quality. Equipped with new image processing technology, FD8181 provides excellent image quality and finer detail than ever before. The powerful 3D Noise Reduction technology and Smart Stream technology enable the FD8181 to optimize resolution on a desired object or area to maximize efficiency of bandwidth usage.

Key Features

- · 5-Megapixel CMOS Sensor
- · 25 fps @ 2560x1920
- \cdot 3 \sim 10 mm Vari-focal, Remote Focus, P-iris Lens
- · Removable IR-cut Filter for Day & Night Function
- · Built-in IR Illuminators, Effective up to 30 Meters
- · Real-time H.264, and MJPEG Compression
- · Two-way Audio
- $\cdot \ \mathsf{WDR} \ \mathsf{Enhancement} \ \mathsf{for} \ \mathsf{Unparalleled} \ \mathsf{Visibility} \ \mathsf{in} \ \mathsf{Extremely} \ \mathsf{Bright}$ and Dark Environments
- · Smart Focus System for Remote and Precise Focus Adjustment
- · Built-in 802.3at Compliant PoE
- · Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- · Smart IR Technology to Avoid Overexposure
- · Smart Stream



Snapshot from FD8181



Indoor Lobby



Hotel



Office



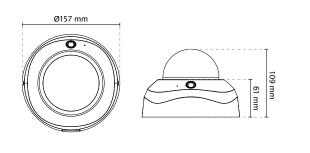
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Technical Specifications

Model FDB181 System Information CPU Multimedia SoC (System-on-Chip) Flash 256 MB RAM 512 ME Camera Features Image Sensor 1/3.2° Progressive CMOS Maximum Resolution 2560x1920 Call Length 4 — 3 – 10 mm Aperture F1.3 – F2.5 Auto-iris Priris Field of View 28° – 82° (Horizontal) 21° – 61° (Vertical) 37° – 100° (Dagonal) Shutter Time 1/5 sec. to 1/32,000 sec. WBR Technology WDR Enhanced Day/Night Removable IR-cut filter for day & night function Minimum Illumination 0.20° Lux # F1.3 (Clor) Monimum Illumination 0.20° Lux # F1.3 (Slow) On-boad Storage MicroSD/SDHC/SDXC card slot Video Maximum Frame Rate 12.64° 4 MIPEG Maximum Frame Rate 1.264° 4 MIPEG Maximum Frame Rate 1.264° 25° 5ps at 2560x1920 Myloco Streaming Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable image		-
CPU Multimedia SoC (System-on-Chip) Flash 256 MB RAM 512 MB Camera Features Linage Sensor 1/3.2" Progressive CMOS Maximum Resolution 2560x1920 Lens Type Vari-focal Focal Length f = 3- 10 mm Aperture F1.3 - F2.5 Auto-iris P-iris Field of View 28 - 82" (Horizontal) 21" - 61" (Ventical) 37" - 107" (Diagonal) Shutter Time 1/5 sec. to 1/32,000 sec. WDR Enhanced Day/Night Memovable IR-cut filter for day & night function Minimum Illumination 0.2 fl. x € fl. 3 (Color) O. Dol Lux ⊕ F1.3 (Color) 0.001 Lux ⊕ F1.3 (Solor) Pan/tilt/zoom Functionalities ePT2: 48 digital zoom (4x on IE plug-in, 12x built in) IR Illuminators Built-in IR Illuminators, effective up to 30 meters with Smart IR On-board Storage Hz 64* 4 MyPEG Maximum Frame Rate Hz 264* 25 fps at 2560x1920 Syl Sat 1920x1080 Auto-100 Maximum Streams 3 simultaneous streams S/N Ratio A bove 62 dB <	Model	FD8181
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RAM 512 MB Camera Features Image Sensor 1/3.2° Progressive CMOS Maximum Resolution 2560x1920 Lens Type Varifocal Focal Length f = 3-10 mm Aperture F1.3 ~ F2.5 Auto-iris Pill Field of View 28° 82° Horizontall 21° - 61° (Vertical) 37° - 107° (Diagonal) Shutter Time 1/5 sec. to ly32,000 sec. WDR Technology WDR Enhanced Day/Night Removable IR-cut filter for day & night function Minimum Illumination 0.27 Lux # F1.3 (Colory) 0.001 Lux # F1.3 (Colory) 0.001 Lux # F1.3 (Colory) Pan/tilt/zoom Functionalities ePT2. 48x digital zoom (4x on IE plug-in, 12x built in) IR Illuminators Micro5D/SDHC/SDXC card slot Video Video Value # F1.2 (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc)	CPU	Multimedia SoC (System-on-Chip)
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Aperture F13 ~ F2.5 Auto-iris P-iris Field of View 28 ~ 8.2 (Horizontal) 21 ~ 61 (Vertical) 37 ~ 107 (Diagonal) Shutter Time 1/5 sec. to 1/32,000 sec. WDR Technology WDR Enhanced Day/Night Removable IR-cut filter for day & night function Minimum Illumination 0.27 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (Kolor) Minimum Illumination 0.27 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (Kolor) More Pan/tilt/zoom Functionalities ePT2: 48x digital zoom (4x on IE plug-in, 12x built in) IR Illuminators Built-in IR illuminators, effective up to 30 meters with Smart IR On-board Storage MicroSD/SDHC/SDXC card slot Video Compression H.264 & MJPEG Maximum Frame Rate H.264: 25 fos at 2560x1920 30 fos at 1920x1080 MJPEC: 25 fos at 2560x1920 30 fos at 1920x1080 MJPEC: 25 fos at 2560x1920 30 fos at 1920x1080 Maximum Streams 3 simultaneous streams S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white blaiance, exposure control, gain, backlight compensation, privary masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone Audio output Network Users Live viewing for up to 10 clients Protocols Inetface 108asert/100 Basert Ethernet (RJ-45)	Lens Type	Vari-focal
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Field of View 28" - 82" (Horizontal) 21" - 61" (Vertical) 37" - 107" (Diagonal) Shutter Time 1/5 sec. to 1/32,000 sec. WDR Technology WDR Enhanced Day/Night Removable IR-cut filter for day & night function Minimum Illumination 0.27 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W) Pan/tilt/zoom Functionalities ePT2: 484 digital zoom (4x on IE plug-in, 12x built in) IR Illuminators Built-in IR illuminators, effective up to 30 meters with Smart IR On-board Storage MicroSD/SDHC/SDXC card slot Video Compression H.264 & MJPEG Maximum Frame Rate H.264: 25 ps at 2560x1920 30 ps at 1920x1080 MJPEG: 250x1080 MJPE	Aperture	F1.3 ~ F2.5
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Day/Night Removable IR-cut filter for day & night function Minimum Illumination 0.27 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (R/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 30 meters with Smart IR On-board Storage MicroSD/SDHC/SDXC card slot Video Video Video Waximum Frame Rate H.264: 25 fps at 2560x1920 30 fps at 1920x1080 MpPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MpPEG: 25 fps at 2560x1920 30 fps at 1920x1080 Maximum Streams 3 simultaneous streams S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 30 Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone Audio output Network Users Live viewing for up to 10 clients IPv4, IPv6, TCP/IP, HTTP, UPPR, RTSP/RTP/RTCP, ICMP, SR71, UpP, ICMP	Shutter Time	1/5 sec. to 1/32,000 sec.
Minimum Illumination 0.27 Lux ⊕ F1.3 (Color) 0.001 Lux ⊕ F1.3 (B/W) Pan/tilt/zoom Functionalities ePT2: 48x digital zoom (4x on IE plug-in, 12x built in) IR Illuminators Built-in IR illuminators, effective up to 30 meters with Smart IR On-board Storage MicroSD/SDHC/SDXC card slot Video MicroSD/SDHC/SDXC card slot Compression H. 264 & MJPEG Maximum Frame Rate H. 264: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG. 25 fps at 2560x1920 30 fps at 1920x1080 Maximum Streams 3 simultaneous streams S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable image size, quality and bitrate Image Settings Adjustable image size, 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, seamless recording, smart stream, 3D Noise Reduction Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone Audio output Network 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	WDR Technology	WDR Enhanced
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Video Compression H.264 & MJPEG Maximum Frame Rate H.264: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 Maximum Streams 3 simultaneous streams S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable resolution, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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 10Base-T/100 BaseTX Ethernet (RJ-45)		with Smart IR
Compression H.264 & MJPEG Maximum Frame Rate H.264: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 Maximum Streams 3 simultaneous streams S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable resolution, quality and bitrate Image Settings Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, UPP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, DPNS, COS, QOS, SNMP, 802.1X, UDP, ICMP Interface 108ase-T/100 BaseTX Ethernet (RJ-45)	-	MicroSD/SDHC/SDXC card slot
Maximum Frame Rate H.264: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEC: 25 fps at 2560x1920 30 fps at 1920x1080 Maximum Streams 3 simultaneous streams S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable resolution, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure controj gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP Interface 10Base-T/100 BaseTX Ethernet (RJ-45)	Video	
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S/N Ratio Above 62 dB Dynamic Range 69 dB Video Streaming Adjustable resolution, quality and bitrate Image Settings Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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 Frame Rate	25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920
Dynamic Range 69 dB Video Streaming Adjustable resolution, quality and bitrate Image Settings Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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)	Maximum Streams	3 simultaneous streams
Video Streaming Adjustable resolution, quality and bitrate Image Settings Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone Audio output Network Users Live viewing for up to 10 clients Protocols IPv4, IPv6, TCP/IP, HTTP, UPP, 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)	S/N Ratio	Above 62 dB
Image Settings Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Oapability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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 10Base-T/100 BaseTX Ethernet (RJ-45)	Dynamic Range	69 dB
overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recording, smart stream, 3D Noise Reduction Audio Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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)	Video Streaming	Adjustable resolution, quality and bitrate
Audio Capability Audio input/output (full duplex) Compression AAC, G.711, G.726 Interface Built-in microphone 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 10Base-T/100 BaseTX Ethernet (RJ-45)	Image Settings	overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile
Compression AAC, G.711, G.726 Interface Built-in microphone 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 10Base-T/100 BaseTX Ethernet (RJ-45)	Audio	
Interface Built-in microphone 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	Audio input/output (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 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)	Interface	
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)	Network	
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, audio detection
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
General	
Smart Focus System	Remote focus
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V power input DC 12V power input Digital input* Digital output* Analog video output
LED Indicator	System power and status indicator
Power Input	24V AC 12V DC IEEE 802.3at PoE
Power Consumption	Max. 9.54W (DC 12V) Max. 10.47W (AC 24V) Max. 10.49W (PoE)
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 7/8/Vista/XP/2000
Web Browser	Mozilla Firefox 7~10 (Streaming only) Internet Explorer 7.x, 8.x, 9.x, 10.x, 11.x
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, desiccant bag, screw
Dimensions	

Dimensions



Compatible Accessories

Mounting Kits



AM-215 L Shape Bracket



AM-516 Adaptor Ring



AM-520 Mounting Adapter



AM-51A Mounting Adapter



AM-102 Recessed Kit

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