





# 2MP · 20M IR · Smart Stream II · SNV · Defog · VIVOCloud

VIVOTEK's FD8169A is an easy-to-use fixed dome network camera specifically designed for indoor security applications, with a 2MP sensor enabling a viewing resolution of 1920x1080 at a smooth 30 fps. Dynamic and highly adaptable, the FD8169A is an all-in-one camera capable of capturing high quality video at high resolutions of up to 2 Megapixels.

The FD8169A features VIVOTEK's sophisticated Smart Stream II technology, allowing the camera to optimize image quality for desired regions, and thus ensure maximum efficiency of bandwidth usage and savings of up to 50% on bandwidth and storage requirements.

What's more, in order to adapt to constantly changing lighting conditions, the FD8169A features a removable IR-cut filter as well as IR illuminators effective up to 20M for superior image quality around the clock. Incorporating a number of advanced features standard for VIVOTEK cameras, including video rotation, defog, a dedicated MicroSD/ SDHC/SDXC card slot, and VIVOTEK's 32-channel recording software, the FD8169A is the ideal solution for your indoor surveillance needs.

## **Key Features**

- · 2-Megapixel CMOS Sensor
- · 30 fps @ 1920x1080
- · Real-time H.264, MJPEG Compression (Dual Codec)
- · Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 20 Meters
- · Built-in 802.3af Compliant PoE
- · Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- · Supports ONVIF Standard to Simplify Integration and **Enhance Interoperability**
- · SNV (Supreme Night Visibility) for Low Light Conditions
- · Smart Stream II to Optimize Bandwidth Efficiency
- · 3D Noise Reduction
- · Smart IR Technology to Avoid Overexposure
- · VIVOCloud Mobile App
- · Trend Micro IoT Security within Standard Warranty Period



Without Smart Stream II



Moving Region

Ordinary Camera VIVOTEK SNV Camera



Library

Retail





Restaurant

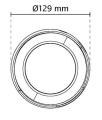


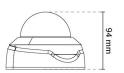
#### **Technical Specifications**

System Information           CPU         Multimedia Soc (System-on-Chip)           Flash         128M8           RAM         256M8           Camera Features           Image Sensor         1/2.9 Progressive CMOS           Maximum Resolution         1920x1080 (2MP)           Lens Type         Fixed-focal           Focal Length         f = 2.8 m           Aperture         F1.8           Field of View         51.8 (Chor)           3132** (Olagonal)         Characteristic           WDR Technology         WDR Enhanced           WDR Technology         WDR Enhanced           WDR Technology         WDR Enhanced           Minimum Illumination         0.06 Lux ⊕ F1.8 (Color)           Molitic         emrecal Maximum Resolution           R Illuminators         d PT2**         48x digital zoom (4x on 1E plug-in, 12x built-in)           R Illuminators         Self type: MicroSD/SDHC/SDMC/SDMC card slot sensor Recording           Video         Video           Compression           Maximum Frame Rate         1.264 & MyEG           Maximum Frame Rate         3.0 fps ® 1020x1080           Maximum Streams         4.281 digitat be resolution, quality and bitrate smart Stream III <th>Technical Specifications</th> <th></th>	Technical Specifications		
CPU         Multimedia Soc (System-on-Chip)           Flash         128MB           RAM         256MB           Camera Features         172.9 Progressive CMOS           Image Sensor         172.9 Progressive CMOS           Maximum Resolution         1920x1080 (2MP)           Lens Type         Fixed-focal           Focal Length         f = 2.8 mm           Aperture         F1.8           Field of View         114 (Hortzontal) of 17 (Vertical) or 132 (Ouagonal)           Shutter Time         17.5 sec. to 1/32,000 sec.           WDR Technology         WDR Enhanced           Day/Night         Removable IR-cut filter for day & night function           Minimum illumination         0.05 Lux # F1.8 (Sc/W)           Pan/Tilt/Zoom Functionalities         ePT.2. (ASC)           48x digital zoom (4x on Ite plug-in, 12x built-in)         WE St. (ASC)           IR Illuminators         Built-in in R Illuminators, effective up to 20 meters with Smart IR           IR ILD-78         Slotype: MicroSD/SDHC/SDXC card slot seamles Recording           Video         Video           Compression         H.264 & MyPEG           Maximum Streams         4 simultaneous streams           S/N Ratio         68.5 dB           Dynamic Range         69.4 dB <th>Model</th> <th>FD8169A</th>	Model	FD8169A	
Flash         128MB           RAM         256MB           Camera Features         172.9 Progressive CMOS           Image Sensor         172.9 Progressive CMOS           Maximum Resolution         1920x1080 (2MP)           Lens Type         Fixed-focal           Focal Length         f = 2.8 mm           Aperture         F1.8           Field of View         114 (Horizontal) (61 (Vertical) (132* (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         0.05 Lux @ F1.8 (Se/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 with Smart IR ILED*B           IR Illuminators         Souther F1.8 (Se/W)           On-bard Storage         Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording           Video         Video           Compression         H.264 & MyPEG           Maximum Frame Rate         4 simultaneous streams           S/N Ratio         69.5 dB           Dynamic Range         69.4 dB           Video Streaming	System Information		
RAM         256MB           Camera Features           Image Sensor         1/2.9 Progressive CMOS           Maximum Resolution         1920x1080 (2MP)           Lens Type         Fixed-focal           Focal Length         f = 2.8 mm           Aperture         F1.8           Field of View         114' (Horizontal) of 12' (Vertical) 13'2' (Dilagonal)           Shutter Time         1/5 sec. to 1/32.000 sec.           WDR Technology         WDR Enhanced           Monation Illumination         0.06 Lux @ F1.8 (Color) o.01 Lux @ F1.8 (B/W)           Pan/Tilt/Zoom Functionalities         ePTZ: 48x (Glor) d.01 Lux @ F1.8 (B/W)           IR Illuminators         Built-in IR Illuminators, effective up to 20 meters with Smart IR IR ILLUMINATION (IRLUM) Expert IRLUDIANCE (IRLUDIANCE)           On-board Storage         Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording           Video         H.264 & MJPEG           Maximum Frame Rate         30 fps @ 1920x1080           Maximum Stream         4 simultaneous streams           S/N Ratio         68.5 d8           Dynamic Range         59.4 d8           Video Streaming         Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, bashapness, white balance, exposure control, gain,	CPU	Multimedia SoC (System-on-Chip)	
Image Sensor 1/2.9 Progressive CMOS  Maximum Resolution 1920x1080 (2MP)  Lens Type Fixed-focal  Focal Length F= 2.8 mm  Aperture F1.8  Field of View 11/4 (Horizontal) 61 (Vertical) 132 (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 0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)  Pan/Tilt/Zoom Functionalities PTZ: 48x (digital zoom (4x on IE plug-in, 12x built-in) 48x (digital zoom (4x on IE plug-in, 12x built-in) 81 (IE LED) 81	Flash	128MB	
Image Sensor         1/2.9 Progressive CMOS           Maximum Resolution         1920x1080 (2MP)           Lens Type         Fixed-focal           Focal Length         f = 2.8 mm           Aperture         F1.8           Field of View         114' (Horizontal) of 132' (Outsponal)           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         0.06 Lux @ F1.8 (Color) o.01 Lux @ F1.8 (E/W)           Pan/Tilt/Zoom Functionalities         ePTZ: description of the distriction of the plug-in, 12x built-in)           IR Illuminators         description of type: MicroSD/SDHC/SDXC card slot seamers Recording           Video         Video           Compression         H.264 & MJPEG           Maximum Frame Rate         30 fps @ 1920x1080 in both compression modes           Maximum Streams         4 simultaneous streams           S/N Ratio         68.5 d8           Dynamic Range         69.4 d8           Video Streaming         Adjustable resolution, quality and bitrate           Smart Stream II         mirror privary masks sharpness, white balance, exposure control, gain, backlight compensation, privary masks sharpness, white balance, exposure control, gain, backlight compensation, pri	RAM	256MB	
Maximum Resolution         1920x1080 (2MP)           Lens Type         Fixed-focal           Focal Length         Fixed-focal           Aperture         Fix.8           Field of View         Fix.8           Field of View         1/3 few (Horizontal) of 1/2 (Vertical) of 1/	Camera Features		
	Image Sensor	1/2.9 Progressive CMOS	
Focal Length Aperture Field of View Field of View Field of View Field of View Removable IR-cut filter for day & night function Minimum Illumination  O.06 Lux @ F1.8 (Color) O.01 Lux @ F1.8 (Color) O.01 Lux @ F1.8 (Color) O.01 Lux @ F1.8 (E/W)  Pan/Tilt/Zoom Functionalities Rilluminators Rilluminators, effective up to 20 meters with in Englicy Rilluminators Rilluminators Rilluminators, effective up to 20 meters with Earner Rilluminators, effective up to 20 meters with Earner Rilluminators, effective up to 20 meters Rilluminators, effective up to 10 clients Rilluminators Rilluminators Removale Illuminators Removale Illuminators Rilluminators Rilluminators Removale Illuminators R	Maximum Resolution	1920x1080 (2MP)	
Aperture F1.8  Field of View S1.4 (Horizontal) 611 (Vertical) 132* (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 0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)  Pan/Tilt/Zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)  IR Illuminators with Smart IR Illuminators, effective up to 20 meters with Smart IR IR LED*8  On-board Storage Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Video  Video  Maximum Frame Rate 30 fps @ 1920x1080 in both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  Image Settings Configurable brighness, contrast, saturation, shabelight compensation, privacy masks Scheduled profile settings, 3D noise reduction, video rotation, defog  Audio*  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  Live viewing for up to 10 clients  PV4, IPV4, IPV6, TCP/IP, HTTP, DHCP, RTS, DPNP, RTSS/RTP/ SPPPE, Coo, Qo, S, NMP, FTP, DHCP, RTP, DNC, DNS, DPPPE, Coo, Qo, S, NMP, FTP, DHCP, RTP, DS, DNS, DPPPE, Coo, Qo, S, NMP, FTP, DHCP, RTP, PSS, LIVE AND ADD AND AND AND AND AND AND AND AND	Lens Type	Fixed-focal	
Field of View Shutter Time 1/5 sec. to 1/32,000 sec.  WDR Technology WDR Enhanced  Day/Night Removable IR-cut filter for day & night function 0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)  Pan/Tilt/Zoom Functionalities 8PT.2: 48x digital zoom (4x on IE plug-in, 12x built-in)  IR Illuminators chromatic in Illuminators, effective up to 20 meters with 5mart IR IR LED*8  On-board Storage Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Video  Video  H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 in both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  Image Settings Contrast saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy mask Scheduled profile settings, 3D noise reduction, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  Live viewing for up to 10 clients  PV4, IPV4, IPV6, TCP/IP, HTTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, Qo, SN, MPF, FTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, FTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, FTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, FTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, FTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, FTP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNS, DDNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPP6, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPC, PPC, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DPC, PPC, ECOS, QO, SN, MPF, STP, DHCP, NTP, DNC, DNS, DNS, PPC, ECOS, DNS, DPC, ECOS	Focal Length	f = 2.8 mm	
Field of View 132' (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 0.06 Lux ® F1.8 (Color) 0.01 Lux ® F1.8 (B/W)  Pan/Tilt/Zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)  IR Illuminators with Smart IR Illuminators, effective up to 20 meters with Smart IR IR LED'8  On-board Storage Solut type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Compression H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 d8  Dynamic Range 69.4 d8  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  Image Settings Settings be brightness, contrast, saturation, sharpness, white balance, exposure control, gain, sharpness, white balance, exposure control	Aperture	F1.8	
MDR Technology  MDR Enhanced  Day/Night  Removable IR-cut filter for day & night function  Minimum Illumination  0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)  Pan/Tilt/Zoom Functionalities  ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)  IR Illuminators  With Smart IR Illuminators, effective up to 20 meters with Smart IR IR LED*8  On-board Storage  Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Compression  H.264 & MJPEG  Maximum Frame Rate  30 fps @ 1920x1080	Field of View	61° (Vertical)	
Day/Night Removable IR-cut filter for day & night function  Minimum Illumination 0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)  Pan/Tilt/Zoom Functionalities ePTZ. 48x digital zoom (4x on IE plug-in, 12x built-in)  IR Illuminators with Smart IR Illuminators, effective up to 20 meters with Smart IR IR LED*8  On-board Storage Slot type: MicroSD/SDHC/SDXC card slot seamless Recording  Video  Compression H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 d8  Dynamic Range 69.4 d8  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  Image Settings Settings brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy mask Scheduled profile settings, 3D noise reduction, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPPP, RTSP/RTP/ PTCP, ICMP, SMTP, FTP, DNS, DDNS, PPOEC, CoS, QoS, SMTP, ETP, DNS, DDNS	Shutter Time	1/5 sec. to 1/32,000 sec.	
Minimum Illumination  O.06 Lux @F1.8 (Color) O.01 Lux @F1.8 (B/W)  Pan/Tilt/Zoom Functionalities  ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)  Built-in IR illuminators, effective up to 20 meters with Smart IR IR LED*8  On-board Storage  Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Compression  H.264 & MJPEG  Maximum Frame Rate  30 fps @ 1920x1080 In both compression modes  Maximum Streams  4 simultaneous streams  S/N Ratio  68.5 dB  Dynamic Range  69.4 dB  Video Streaming  Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability  One-way audio  Compression  G.711, G.726  Interface  Built-in microphone  Effective Range  5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users  Live viewing for up to 10 clients  IPV4, IPV6, TCP/IP, HTTP, HTTPS, UPPR, RTSP/RTP/ RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PDNS, PDPC, CoS, QoS, SMNP, 802, IX, UPP, ICMR, ARP, SSL, RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PDPC, CoS, QoS, SMNP, 802, IX, UPP, ICMR, ARP, SSL, RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PDPC, CoS, QoS, SMNP, 802, IX, UPP, ICMR, ARP, SSL, RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPTP, ICTOR, SMTP, ETP, DHCP, NTP, DNS, DDNS, DDNS, PPTP, ICTOR, SMTP, ETP, DHCP, NTP, DNS, DDNS, DDNS, PPTP, ICTOR, SMTP, ETP, DHCP, NTP, DNS, DDNS, DDNS, PPTP, ICTOR, SMTP, ETP, DHCP, NTP, DNS, DDNS, DDNS	WDR Technology	WDR Enhanced	
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 with Smart IR IR LED*8  On-board Storage Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Compression H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients    IPV4, IPV6, TCP/IP, HTTP, HTTPS, UPPP, RTSP/RTP/ RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PDNS, PTPC, CoS, QoS, SMMP, 802, IX, UUP, ICMP, ARP, SSL, PTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, DDNS, PTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, DDNS, PTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS,	Day/Night	Removable IR-cut filter for day & night function	
IR Illuminators 48x digital zoom (4x on IE plug-in, 12x built-in)  IR Illuminators Built-in IR illuminators, effective up to 20 meters with Smart IR IR LED*8  On-board Storage Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Compression H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  IPv4, IPv6, TCP/IP, HTTP, DNS, DDNS, PTCP, ICMP, ART, SSL, PTCP, ICMP, SMTP, ETP, DNS, DDNS, PTCP, ICMP, SMTP, ETP, DNCM, SMP, SSL, PDP, CC, SS, SMM, 80.20.13, Upp ICMP, ARR, SSL, PTCP, ICMP, SMTP, ETP, DNS, DDNS, PTCP, ICMP, SMTP, ETP, DNS, D	Minimum Illumination		
IR Illuminators with Smart IR IR LED*8  On-board Storage Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording  Video  Compression H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients    Pv4,   Pv6, TCP/ P, HTTP, DNS, DDNS, PTCP, ICP, NTP, DNS, DDNS, PTCP, ICMP, ARR, SSL, PPOEC, CoS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, CoS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, CoS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, CoS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, CoS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, CoS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, SNM, BOZI, XU, DDP, ICMP, ARR, SSL, PPOEC, COS, QOS, S	Pan/Tilt/Zoom Functionalities		
Video  Compression H.264 & MJPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  Protocols Protocols Prof. CCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/ RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PROF. CCS, OS, SNMP, 802.1X, UDP, ICMP, ARP, SSL,	IR Illuminators	with Smart IR	
Compression H.264 & MIPEG  Maximum Frame Rate 30 fps @ 1920x1080 In both compression modes  Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  Protocols PPP4, IPV6, TCP/IP, HTTP, HTTPS, UPNP, RTSP/RTP/, PTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPP6, CoS, QoS, SMMP, 802.11x, UPNP, LRMP, ARP, SSL, PPP6, CoS, QoS, SMMP, 802.11x, UPNP, LRMP, ARP, SSL, PPP6, CoS, QoS, SMMP, 802.11x, UPNP, LRMP, ARP, SSL, PPP6, CoS, QoS, SMMP, 802.11x, UPNP, LRMP, ARP, SSL,	On-board Storage		
Maximum Frame Rate       30 fps @ 1920x1080 In both compression modes         Maximum Streams       4 simultaneous streams         S/N Ratio       68.5 dB         Dynamic Range       69.4 dB         Video Streaming       Adjustable resolution, quality and bitrate Smart Stream II         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, video rotation, defog         Audio*       Audio Capability         Compression       G.711, G.726         Interface       Built-in microphone         Effective Range       5 meters         *Audio feature is only available on part number 100168800G and 100192100G.         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, SMMP, 802.1X, UDP, ICMP, ARP, SSL, PPPOE, CoS, QoS, SMMP, 802.1X, UDP, ICMP, ARP, SSL, PPPOE, CoS, QoS, SMMP, 802.1X, UDP, ICMP, ARP, SSL,	Video		
Maximum Streams 4 simultaneous streams  S/N Ratio 68.5 dB  Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  IPv4, IPv6, TCP/IP, HTTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SMMP, 802.1X, UDP, ICMP, ARP, SSL, PPPOE, CoS, QoS, SMMP, 802.1X, UDP, ICMP, ARP, SSL, PPPOE, CoS, QoS, SMMP, 802.1X, UDP, ICMP, ARP, SSL, PPPOE, CoS, QoS, SMMP, 802.1X, UDP, ICMP, ARP, SSL,	Compression	H.264 & MJPEG	
S/N Ratio  68.5 dB  Dynamic Range  69.4 dB  Video Streaming  Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability  One-way audio  Compression  G.711, G.726  Interface  Built-in microphone  Effective Range  5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users  Live viewing for up to 10 clients  Protocols    IPV4, IPV6, TCP/IP, HTTP, HTTPS, UPPP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL,	Maximum Frame Rate		
Dynamic Range 69.4 dB  Video Streaming Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  Protocols PPPoE, CoS, QoS, SNMP, 802.1X, UDP, RTSP/RTP/ RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPOE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL,	Maximum Streams	4 simultaneous streams	
Video Streaming  Adjustable resolution, quality and bitrate Smart Stream II  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, video rotation, defog  Audio*  Audio Capability  One-way audio  Compression  G.711, G.726  Interface  Built-in microphone  Effective Range  5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users  Live viewing for up to 10 clients  Protocols  Protocols  Protocols  Protocols  Protocols  Adjustable resolution, quality and bitrate Smart Stream II  Live viewing for up to 10 clients	S/N Ratio	68.5 dB	
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, video rotation, defog  Audio*  Audio Capability  One-way audio  Compression  G.711, G.726  Interface  Built-in microphone  Effective Range  5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users  Live viewing for up to 10 clients  Protocols  Protocols  IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPGE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL,	Dynamic Range	69.4 dB	
Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks Scheduled profile settings, 3D noise reduction, video rotation, defog  Audio*  Audio Capability One-way audio  Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  Protocols P	Video Streaming		
Audio Capability  Compression  G.711, G.726  Interface  Built-in microphone  Effective Range  5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users  Live viewing for up to 10 clients  Protocols  Protocols  Protocols  Protocols  One-way audio  Built-in microphone  Built-in microphone  Students  Live viewing  Fire, 100168800G and 100192100G.  Protocols  Protocols  Protocols  One-way audio	Image Settings	Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks Scheduled profile settings, 3D noise reduction,	
Compression G.711, G.726  Interface Built-in microphone  Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  Protocols Protoco	Audio*		
Interface  Built-in microphone  Effective Range  5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users  Live viewing for up to 10 clients  Protocols  Protocols  Protocols  Built-in microphone  5 meters  Live viewing  100168800G and 100192100G.  Protocols  Protocols  Built-in microphone	Audio Capability	One-way audio	
Effective Range 5 meters  *Audio feature is only available on part number 100168800G and 100192100G.  Network  Users Live viewing for up to 10 clients  Protocols Protocols Protocols Protocols Protocols Protocols S meters	Compression	G.711, G.726	
*Audio feature is only available on part number 100168800G and 100192100G.  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, ARP, SSL,	Interface	Built-in microphone	
Network  Users Live viewing for up to 10 clients  Protocols Protocols Live Viewing for up to 10 clients  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, ARP, SSL,	Effective Range	5 meters	
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, ARP, SSL,	*Audio feature is only available on	part number 100168800G and 100192100G.	
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, ARP, SSL,	Network		
Protocols RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL,	Users	Live viewing for up to 10 clients	
	Protocols	RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL,	

Interface	10 Base-T/100 BaseTX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.	
ONVIF	Supported, specification available at www.onvif.org	
Intelligent Video		
Video Motion Detection	Five-window video motion detection	
Alarm and Event		
Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection	
Alarm Events	Event notification using HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card	
General		
Connectors	RJ-45 for Network/PoE connection	
LED Indicator	System power and status indicator	
Power Input	IEEE 802.3af PoE Class 0	
Power Consumption	Max: 8.5 W	
Dimensions	Ø: 129 mm x 94 mm	
Weight	Net: 416.4 g	
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL	
Operating Temperature	Starting Temperature: $0^{\circ}\text{C} \sim 50^{\circ}\text{C} (32^{\circ}\text{F} \sim 122^{\circ}\text{F})$ Working Temperature: $-10^{\circ}\text{C} \sim 50^{\circ}\text{C} (14^{\circ}\text{F} \sim 122^{\circ}\text{F})$	
Humidity	90%	
Warranty	24 months	
System Requirements		
Operating System	Microsoft Windows 8/7	
Web Browser	Internet Explorer 10/11 Chrome version 58.0.3029 or above	
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above	
Included Accessories		
Others	Quick installation guide, alignment sticker, screw pack	

## Dimensions





#### **Compatible Accessories**

#### Mounting Kits



AM-21A L-shape Bracket



AM-528 Mounting Adapter



## **Cloud-based Solution**



## **Ordering Information**

Model	Description	Part Number
FD8169A	2MP, 20M IR, Fixed-focal, Operating Temp10°C $\sim 50^\circ\text{C}$	100144600G
FD8169A (Audio)	2MP, 20M IR, Fixed-focal, Build-in Mic, Operating Temp10 $^{\circ}\text{C} \sim 50 ^{\circ}\text{C}$	100168800G
FD8169A (Black)	2MP, 20M IR, Fixed-focal, Build-in Mic, Operating Temp10°C $\sim$ 50°C, Black	100192100G

Distributed by:



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