



# FD8381-EV

Fixed Dome Network Camera



5MP 25 fps · 30M IR · Smart Focus System · IP66 · IK10 · Extreme Weather Support with PoE · Smart Stream

VIVOTEK FD8381-EV is a brand-new professional outdoor dome network camera offering up to 25 fps @ 5-Megapixel or 30 fps @ 1080p resolution with superb image quality. Equipped with new image technology, FD8381-EV provides excellent image quality and finer detail than ever before. The powerful 3D Noise Reduction technology and Smart Stream technology enable the FD8381-EV to optimize resolution on a desired object or area to maximize efficiency of bandwidth usage.

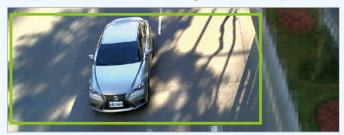
The IP66-rated housing is also designed to ensure the camera body to withstand rain and dust and guarantees smooth operation under a multitude of harsh weather condition, while IK10-rated design protects FD8381-EV from vandal damages. Additionally, the wide operating temperature range further enhances the FD8381-EV's performance and reliability in extremely cold and warm weather even with PoE.

## **Key Features**

- · 5-Megapixel CMOS Sensor
- · 25 fps @ 2560x1920
- $\cdot$  3 ~ 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
- $\cdot$  Real-time H.264, and MJPEG Compression
- · Two-way Audio
- WDR Enhancement for Unparalleled Visibility in Extremely Bright and Dark Environments
- · Smart Focus System for Remote and Precise Focus Adjustment
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- · 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

#### Smart Stream-

Smartly Allocates Bandwidth While Retaining Good Video Quality on ROI



Manual Mode



Auto Mode



Airport



Outdoor Sidewalk



Train Station



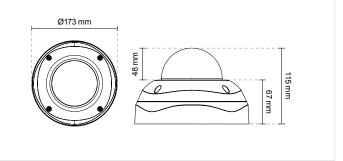
Extreme Weather

#### **Technical Specifications**

System Information           CPU         Multimedia SoC Gystem-on-Chip)           Flash         256 MB           RAM         512 MB           Camera Features           Image 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         Piris           Field of View         28° - 82° (Horizontal)           23° - 10° (Vertical)         37° - 10° (Vertical)           37' - 10° (Diagonal)         Colspan="2">		
CPU         Multimedia Soc (System-on-Chip)           Flash         256 MB           RAM         212 MB           Camera Features         Image 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         Piris           Fleid of View         28° - 82° (Horizontal) 23° - 10° (Yoltencial) 37° - 10° (Yoltencial) 38° - 10° (Yoltencial) 39° (Yoltencial) 39	Model	FD8381-EV
Flash         256 MB           RAM         512 MB           Camera Features         173.2° Progressive CMOS           Maximum Resolution         2560x1920           Lens Type         Vari-focal           Focal Length         f − 3 − 10 mm           Aperture         F1.3 − F2.5           Auto-iris         Piris           Field of View         28° − 82° (Horizontal) 21° − 61° (Vertical) 37° − 107° (Diagonal)           Shutter Time         1/5 sec. to 1/32,000 sec.           WDR Exhanced         Removable IR-cut filter for day & night function           Minimum Illumination         0.27 Lux @ F1.3 (Colv)           On-board Storage         ePTZ. 4 dk digital zoom (dx on IE plug-in, 12x built in)           R Illuminators         g8 with Smart IR           On-board Storage         H.264 ± MyPEC           Maximum Frame Rate         H.264 ± MyPEC           Maximum Frame Rate         H.264 ± MyPEC           Maximum Streams         3 simultaneous streams           S/N Ratio         A bove 62 dB           Dynamic Range         69 dB           Video Streaming         A djustable resolution, quality and bit rate, time stamp, text sturation, sharpness, white balance, exposure control, gain, backlight compensation, pravacy masis, scendendig prolife, scendendig prolife, compensation, pravacy masis, scendendi		
RAM         512 MB           Camera Features         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         Priris           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           More Technology         WDR Enhanced           Maximum Illumination         0.27 Lux ⊕ F1.3 (Color) 0.001 Lux ⊕ F1.3 (Color) 0.001 Lux ⊕ F1.3 (Color)           Pan/tilt/zoom Functionalities         ePT2. 48x digital zoom (4x on 1E plug-in, 12x built in)           RIlluminators         dePT2. 48x digital zoom (4x on 1E plug-in, 12x built in)           Video         Video           Video           Compression         H.264 & MJPEG           Maximum Frame Rate         H.264 x MJPEG           Maximum Streams         3 simultaneous streams           S/N Ratio         Above 62 dB           Ophanic Range         69 dB           Video Streaming         Adjüstable irange size, quality and bit rate, time stamp, text overlay, filp & mirr	CPU	Multimedia SoC (System-on-Chip)
Camera Features           Image 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" (Verrical) 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 (G/W)           Partilit/zoom Functionalities         ePTZ 48x digital zoom (4x on IE plug-in, 12x built in)           Ri Illuminators         MicroSD/SDHC/SDXC card slot           Video           Compression         H.264 & MJPEG           Maximum Frame Rate         1/2.56 ps at 2560x1920 30 fps at 1920x1080           Maximum Streams         3 simultaneous streams           S/N Ratio         Above 62 dl           Dynamic Range         69 dl           Video Streaming         Adjustable resolution, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, startardium, sharpness, white blalance, exposure control, gain, backlight	Flash	256 MB
Image 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         Piris           Field of View         28 - 82° (Horizontal) 27 - 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         0.20 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (R/W)           Partiti/zoom Functionalities         ePTZ: 48k 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         McSO/SDHC/SDXC card slot           Video         Video           Compression         H.264: 2.5 fps at 2560x1920 30 fps at 1920x1080           Maximum Frame Rate         H.264: 2.5 fps at 2560x1920 30 fps at 1920x1080           Maximum Streams         3 simultaneous streams           S/N Ratio         Abdo Sec dB           Dynamic Range         69 dB           Video Streaming         Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mi	RAM	512 MB
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 (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 (Golon) 0.001 Lux @ F1.3 (B/W)           Par/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         Video           Compression         H.264* 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080           S/N Ratio         Aboue 62 dB           Dynamic Range         69 dB           Video Streaming         Adjustable resolution, quality and bit rate, time stamp, text overlay, flip & mirror, configurable brightness, contrast, solution, seamless recording, smart stream, 3D Noise Reduction           Autio	Camera Features	
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) 23° ~ 10° (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)           0.7 Lux @ F1.3 (Golor)         Combination           IR Illuminators         Built-in IR illuminators, effective up to 30 meters with Smart IR           On-board Storage         MicroSD/SDHC/SDXC card slot           Video         Video           Compression         H. 264 & MIJPEG           Maximum Frame Rate         H. 264 & MIJPEG           Maximum Stream         3 simultaneous streams           S/N Ratio         Above 62 dB           Dynamic Range         69 dB           Video Streaming         Adjustable resolution, quality and bit rate, time stamp, text saturation, sharpness, white balance, exposure control, gain, best participants, screening start stream, 3D Noise Reduction           Audio Capability         Audio input/output (full duplex)           Compression         AAC, G.711, G.726 <t< th=""><th>Image Sensor</th><th>1/3.2" Progressive CMOS</th></t<>	Image Sensor	1/3.2" Progressive CMOS
Focal Length   f = 3 - 10 mm   Aperture   F1.3 - F2.5   Auto-iris   P-iris   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 (Colon)   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   Video   H. 264 & MJPEG   Maximum Frame Rate   H. 264 & MJPEG   Maximum Frame Rate   H. 264 & MJPEG   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 operating seating, seamless recording, smart stream, 3D Noise Reduction   Audio   Audio Input/output (full duplex)   Compression   AAC, G.711, G.726   Interface   Live viewing for up to 10 clients   Protocols   IP-4 IP-5 TED INCE NTT, DNS, DDNS, PPPGE, CoS, QoS, SMMP, 802 IX, UDP, ICMP   Interface   10Base-T/100 BaseTX Ethernet (RJ-45)	Maximum Resolution	2560×1920
Aperture F1.3 ~ 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 (Color)  Monimum Illumination 0.27 Lux @ F1.3 (Color)  Monimum Illuminators Built-in IR Illuminators, effective up to 30 meters with Smart IR  R Illuminators 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 MJPEC. 25 fos at	Lens Type	Vari-focal
Field of View 28° - 82' (Horizontal) 21' - 61' (Vertical) 21' - 61' (Ver	Focal Length	$f = 3 \sim 10 \text{ mm}$
Field of View 28" - 82" (Horizontal) 21" - 61" (Vertical) 37" - 107" (Chagonal)  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 fps at 1920x1080 MyPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MyPEG: 250x1920 30 fps at 1920x1080 MyPEG:	Aperture	F1.3 ~ F2.5
Shutter Time	Auto-iris	P-iris
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 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  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 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 bit rate, time stamp, text overlay, filp & mirror, configurable brightness, contrast, saturation, sharpness, white balance, 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 External microphone input Audio output  Network  Users Live viewing for up to 10 clients  Protocols IPV4, IPV6, TCP/IP, HTTP, HTTPS, UPPP, RTSP/RTP/RTCP, IGMP, S02.1X, UDP, ICMP  Interface 108aseTX Ethernet (RJ-45)	Field of View	21° ~ 61° (Vertical)
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  ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)  IR Illuminators  Built-in IR illuminators, effective up to 30 meters with 5mart IR  On-board Storage  MicroSD/SDHC/SDXC card slot  Video  Compression  H.264 & MJPEG  Maximum 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  Moving 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, starutation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, seamless recordings, smart stream, 3D Noise Reduction  Audio  Audio Capability  Audio input/output (full duplex)  Compression  AAC, G.711, G.726  Interface  External microphone input Audio output  Network  Users  Live viewing for up to 10 clients  Protocols  IP44, IP46, TCP/IP, HTTP, UPP, RTSP/RTP/RTCP, IGMP, SB21X, UDP, ICMP  BOD ABSETX Ethernet (RJ-45)	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       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       It 264: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 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       External microphone input Audio output         Network       Live viewing for up to 10 clients         Protocols       Ilive viewing for up to 10 clients         Protocols       Ilive viewing for up to 10 clients         Interface       Live viewing for up to 10 clients </th <th>WDR Technology</th> <th>WDR Enhanced</th>	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 30 meters with 5mart IR  On-board Storage MicroSD/SDHC/SDXC card slot  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 MJPEG: 25 fps at 2550x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 26 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 27 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 28 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 29 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 20 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 21 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 22 fps at 2560x1920 30 fps at 1920x1080  MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30	Day/Night	Removable IR-cut filter for day & night function
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 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080  More de discovered by the composition of the composition	Minimum Illumination	
with Smart IR  On-board Storage MicroSD/SDHC/SDXC card slot  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 MJPEG: 25 fps at 2560x1920 30 fps at 1920x1080 MJPEG: 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 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 10Base-T/100 BaseTX Ethernet (RJ-45)		
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       External microphone input 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, ICMP         Interface       10Base-T/100 BaseTX Ethernet (RJ-45)	IR Illuminators	
Compression H.264 & MJPEG  Maximum Frame Rate	On-board Storage	MicroSD/SDHC/SDXC card slot
Maximum Frame Rate       H.264: 25 fps at 2560x1920 30 fps at 1920x1080 MPEC: 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 input/output (full duplex)         Compression       AAC, G.711, G.726         Interface       External microphone input Audio output         Network       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       108ase-T/100 BaseTX Ethernet (RJ-45)	Video	
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 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 External microphone input Audio output  Network  Users Live viewing for up to 10 clients  Protocols IPv4, IPv6, TCP/IP, HTTP, UPPP, 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	H.264 & MJPEG
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 External microphone input Audio output  Network  Users Live viewing for up to 10 clients  Protocols IPv4, IPv6, TCP/IP, HTTP, UPPP, 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 Capability Audio input/output (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, 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       External microphone input Audio output         Network       Users         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)	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 (Capability)       Audio input/output (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, UPPP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, DPNS, 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 External microphone input Audio output  Network  Users Live viewing for up to 10 clients  Protocols IPv4, IPv6, TCP/IP, HTTP, UPPP, 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)	Video Streaming	Adjustable resolution, quality and bitrate
Audio Capability  Audio input/output (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, 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 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	
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	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, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTR, 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,
OND/IF	Interface	10Base-T/100 BaseTX Ethernet (RJ-45)
Supported, specification available at www.onvir.org	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*1 Digital output*1 Analog video output
LED Indicator	System power and status indicator
Power Input	24V AC 12V DC IEEE 802.3at POE
Power Consumption	Max. 18.37W (DC 12V) Max. 21.57W (AC 24V) Max. 21.95W (PoE)
Dimensions	Ø: 173 mm x 115 mm
Weight	Net: 1256g
Casing	Weather-proof IP66-rated housing Vandal-proof IK10-rated housing
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: -40°C ~ 50°C (-40°F ~ 122°F) Working Temperature: -50°C ~ 50°C (-58°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, mounting plate, 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

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