# AI VIEW

# AI SECURITY CAMERA
# S-SERIES DATASHEET

made with
Qualcomm
Technologies

| CAMERA | CPU & MEMORY | IMAGE SENSOR | RESOLUTION & FRAME RATE | AI FUNCTION | APPLICATION |
|---|---|---|---|---|---|
| AI VIEW S200 Camera Bullet 33x Optical Zoom EIS | QCS605 32GB+3GB | 1/2.8" - Sony | FHD 2MP 60 fps | Face/body detection Face recognition Object tracking People/vehicle counting Motion detection Pedestrian/vehicle detection License plate detection Intrusion detection | Outdoor Security Smart Parking Safety Alert Violation Law Alert Traffic Highway |
| AI VIEW S201-0803F Camera Bullet 3x Optical Zoom EIS | QCS605 32GB+3GB | 1/1.8" - Sony | UHD 4K 60 fps | Face/body detection Face recognition Object tracking People/vehicle counting Motion detection Pedestrian/vehicle detection License plate detection Intrusion detection | Outdoor Security Smart Parking Safety Alert Violation Law Alert Traffic Highway |
| AI VIEW S201-0802N Camera Bullet 2x Optical Zoom EIS | QCS605 32GB+3GB | 1/1.8" - Sony | UHD 4K 60 fps | Face/body detection Face recognition Object tracking People/vehicle counting Motion detection Pedestrian/vehicle detection License plate detection Intrusion detection | Outdoor Security Smart Parking Safety Alert Violation Law Alert Traffic Highway |
| AI VIEW S500 Camera Dome 33x Optical Zoom EIS | QCS605 32GB+3GB | 1/2.8" - Sony | FHD 2MP 60 fps | Face/body detection Face recognition Object tracking People/vehicle counting Motion detection Pedestrian/vehicle detection License plate detection Intrusion detection | Outdoor Security Smart Parking Safety Alert Violation Law Alert Traffic Highway |

# AI VIEW

# ULTRA ZOOM BULLET S200

## AI Security Camera

| | | | |
|---|---|---|---|
| FPS | FHD 2MP AT 60 FPS | | -40°C ~ +80°C (-40°F to 176°F) |
| | OPTIMIZEDIR WITH 25 M (82 FT) RANGE TO 350M (1148 FT) | | ELECTRONIC IMAGE STABILIZATION |

S200 First-class 2 MP video with 33x optical zoom.

S200 Network Camera is an all-integrated camera delivering 2 megapixel resolution and 33x optical zoom for easy and flexible installation at any distance as well as detailed video for identification. With a wide temperature range, impact resistance and IP66, IK10, this reliable camera is ready for tough environments. Lightfinder, Forensic WDR and OptimizedIR with 25 m (82 ft) in wide field of view and 350 m (1148 ft) in full tele view, or more depending on the scene in challenging light conditions and darkness. S200 offers built-in analytics for proactive surveillance, corridor format and audio in for video with sound.

**HD**TV NETWORK VIDEO    open security & safety alliance    Onvif | SGT

## CAMERA

| | |
|---|---|
| Application | Outdoor Security, Smart parking, Safety Alert, Violation Law Alert, Traffic, Highway |
| Processor | Qualcomm QCS605<br>Qualcomm® Kryo™ 300 CPU, Octa-core 64-bit 2.5GHz 10nm<br>Qualcomm® Adreno™ 615 GPU<br>Qualcomm® Hexagon™ 685 DSP |
| Image Sensor | 1/2.8" CMOS, Sony IMX327 |
| Electronic Shutter Speed | Minimum / Maximum: 2~1/20,000sec<br>Anti Banding |
| Automatic day/night | Support |
| Minimum illumination | Color: 0.01Lux, IR: 0.001Lux F1.4 |

## AI INSIDE

| | |
|---|---|
| AI Features | **Face detection**<br>• Detect face in: 15~20m<br>• Accuracy: 96%<br>• Latency: 0,4~0,6s/frame<br><br>**Face recognition**<br>• Recognize face in: 12~18m<br>• Accuracy: 99,5%<br>• Latency: 0,3~0,5s/frame<br><br>**ANPR**<br>• Detect licence plate in: 200m<br>• Acurracy: 99,5%<br>• Processing speed: 0,3s/frame<br><br>**People counting**<br>• Detect body in: 300m<br>• Accuracy: 98%<br>• Processing speed: 0,3s~0,5s/frame<br><br>**Vehicle counting**<br>• Detect vehicle in: 300m<br>• Accuray: 98%<br>• Processing speed: 0,3s~0,5s/frame |
| Tamper detection | Support by hardware |
| Motion Detection | Multi polygonal zones |

## IMAGE

| | |
|---|---|
| Night Vision Technology | Support |
| Wide Dynamic Range | 120dB |
| Backlight Compensation | BLC, HLC, WDR |
| Digital Noise Reduction | Qualcomm ANR |
| Gain Control | Low / Middle / High |
| White Balance | Manual / Indoor / Outdoor / Bright / Night |
| Video Rotation | Mirror, Flip |
| Bitrate Control | H.265/H.264: CBR |

## VIDEO

| | |
|---|---|
| Resolution | 2MP |
| Frame rate | 60 fps |
| Video compression | H.264, H.265 |
| Image stabilization | EIS |
| Streaming | Allow upto twenty (20) simultaneous multi-streams using H.265, H.264 |

## LENS

| | |
|---|---|
| Optical Zoom | 33x |
| Focal Length | 4.5 - 148.5mm ± 5% |
| FOV (Horizontal, Vertical) | H: 60.1$^o$ (W) - 2.28$^o$ (T)<br>V: 36.2$^o$ (W) - 1.29$^o$ (T)<br>D: 67.28$^o$ (W) - 2.61$^o$ (T) |
| Min. Object Distance | Wide: 0.1m~∞, Tele: 1.5m~∞ |
| Auto IRIS | F1.4(W)-4.2(T) |
| Auto focus | Support |

## AUDIO

| | |
|---|---|
| Audio In | Selectable (mic in/line in)<br>Supply 1.8V, 3mA output current, Impedance detection: 4 to 70 kΩ |
| Audio Out | Lineout:<br>- 30.8 mW (typical) with 32 Ω<br>- 61.6 mW (typical) with 16 Ω |
| Audio compression | Support MP3, AAC, 16-bit PCM, 24-bit PCM, FLAC, sample rate 8/11.025/16/22.05/32/44.1/48/64/88.2/96/176.4/192 kHz |

## NETWORK CONNECTIVITY

| | |
|---|---|
| Interface | RJ-45 cable connector for Network 10/100/1000 Mbps |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTSP, HTTP, HTTPS, SSI/TLS, DHCP |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OS X only) |
| Security | Password Protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication |

## GENERAL

| | |
|---|---|
| Casing | IP66, IK10<br>With a wide temperature range, impact resistance, this reliable camera is ready for tough environments. |
| Color / Material | Body: White / Aluminum<br>Sun-Shield: White / Plastic |
| Operation Temperature / Humidity | -40$^o$~+80$^o$C; 10-100%RH |
| Dimensions | 503 (L) x 242 (W) x 170 (H)  mm |
| Weight | 6,5 kg |
| Memory | 3GB RAM, 32GB Flash |
| IR illumination | Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach 25 m (82 ft) in wide field of view and 350 m (1148 ft) in full tele view, or more depending on the scene.<br>Distance:<br>10°~40°, 25~100m (6W)<br>10°~40°, 50~140m (12W)<br>10°~30°, 70~200m (24W)<br>10°~30°, 150~350m (48W) |
| Wiper & Heater | Support |
| Mirco SD Card | External, up to 256G |
| Power | POE IEEE 802.3af/802.3at<br>16~60W depends on IR LED module (IR LED: 6W, 12W, 24W, 48W) |
| GPS | Support |
| Wi-Fi | Not support |

## PTZ

| | |
|---|---|
| Pan/Tilt/Zoom | Not support |
| PT speed | Not support |

## SYSTEM INTEGRATION

| | |
|---|---|
| Application Programming Interface | ONVIF Profile S/G/T |
| Analytics | Directional detection, Face detection, Motion detection, Enter/Exit, Traffic, ANPR |
| Alarm Triggers | Network disconnect |
| Alarm Events | FTP, Email, Server VA, Sound Alarm output |

# AI VIEW

# 4K BULLET S201-0803F

## AI Security Camera

| | |
|---|---|
| **FPS** UHD 4K 8MP AT 60 FPS | -40°C ~ +80°C (-40°F to 176°F) |
| OPTIMIZEDIR WITH 50 M (164 FT) RANGE | ELECTRONIC IMAGE STABILIZATION |

S201-0803F UHD 4K 8MP video with 3x optical zoom.

S201-0803F Network Camera is an all-integrated camera delivering 8 megapixel resolution and 3x optical zoom for easy and flexible installation at any distance as well as detailed video for identification. With a wide temperature range, impact resistance and IP66, IK10, this reliable camera is ready for tough environments. Lightfinder, Forensic WDR and OptimizedIR with 50 m (164 ft) range ensure details in challenging light conditions and darkness. S201-0803F offers built-in analytics for proactive surveillance, corridor format and audio in for video with sound.

**HDTV** NETWORK VIDEO    open security & safety alliance    Onvif | S G T

## CAMERA

| | |
|---|---|
| **Application** | Outdoor/Indoor Security, Class/Office Attendance, Smart parking, Safty Alert, Violation Law Alert, Traffic |
| **Processor** | Qualcomm QCS605<br>Qualcomm® Kryo™ 300 CPU, Octa-core 64-bit 2.5GHz 10nm<br>Qualcomm® Adreno™ 615 GPU<br>Qualcomm® Hexagon™ 685 DSP |
| **Image Sensor** | 1/2.8" CMOS, Sony IMX327 |
| **Electronic Shutter Speed** | Minimum / Maximum: 2~1/20,000sec<br>Anti Banding |
| **Automatic day/night** | Support |
| **Minimum illumination** | Color: 0.005Lux, IR: 0.001Lux F1.7 |

## AI INSIDE

| | |
|---|---|
| **AI Features** | **Face detection**<br>· Detect face in: 10~12m<br>· Accuracy: 96%<br>· Latency: 0,4~0,6s/frame |
| | **Face recognition**<br>· Recognize face in: 6~8m<br>· Accuracy: 99,5%<br>· Latency: 0,3~0,5s/frame |
| | **ANPR**<br>· Detect licence plate in: 10m<br>· Acurracy: 99,5%<br>· Processing speed: 0,3s/frame |
| | **People counting**<br>· Detect body in: 15m<br>· Accuracy: 98%<br>· Processing speed: 0,3s~0,5s/frame |
| | **Vehicle counting**<br>· Detect vehicle in: 15m<br>· Accuray: 98%<br>· Processing speed: 0,3s~0,5s/frame |
| **Tamper detection** | Support by hardware |
| **Motion Detection** | Multi polygonal zones |

## IMAGE

| | |
|---|---|
| **Night Vision Technology** | Support |
| **Wide Dynamic Range** | 120dB |
| **Backlight Compensation** | BLC, HLC, WDR |
| **Digital Noise Reduction** | Qualcomm ANR |
| **Gain Control** | Low / Middle / High |
| **White Balance** | Manual / Indoor / Outdoor / Bright / Night |
| **Video Rotation** | Mirror, Flip |
| **Bitrate Control** | H.265/H.264: CBR |

## VIDEO

| | |
|---|---|
| **Resolution** | 8MP |
| **Frame rate** | 60 fps |
| **Video compression** | H.264, H.265 |
| **Image stabilization** | EIS |
| **Streaming** | Allow upto twenty (20) simultaneous multi-streams using H.265, H.264 |

## LENS

| | |
|---|---|
| **Optical Zoom** | 3x |
| **Focal Length** | 10.9 - 29 mm ± 5% |
| **FOV (Horizontal, Vertical)** | H: 42°(W) - 15°(T)<br>V: 22.8°(W) - 8.4°(T)<br>D: 48.7°(W) - 17.1°(T) |
| **Min. Object Distance** | Wide: 2.5m～∞, Tele: 6m～∞ |
| **Auto IRIS** | F1.7±5% |
| **Auto focus** | Support |

## AUDIO

| | |
|---|---|
| **Audio In** | Selectable (mic in/line in)<br>Supply 1.8V, 3mA output current, Impedance detection: 4 to 70 kΩ |
| **Audio Out** | Lineout:<br>- 30.8 mW (typical) with 32 Ω<br>- 61.6 mW (typical) with 16 Ω |
| **Audio compression** | Support MP3, AAC, 16-bit PCM, 24-bit PCM, FLAC, sample rate<br>8/11.025/16/22.05/32/44.1/48/64/88.2/96/176.4/192 kHz |

## NETWORK CONNECTIVITY

| | |
|---|---|
| **Interface** | RJ-45 cable connector for Network 10/100/1000 Mbps |
| **Protocol** | IPv4, IPv6, TCP/IP, UDP/IP, RTSP, HTTP, HTTPS, SSl/TLS, DHCP |
| **Web Viewer** | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OS X only) |
| **Security** | Password Protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication |

## GENERAL

| | |
|---|---|
| **Casing** | IP66, IK10 |
| **Color / Material** | Top : White / Aluminum<br>Bottom : White / Aluminum<br>Sun-Shield : White / Aluminum |
| **Operation Temperature / Humidity** | -40°~+80℃; 10-100%RH |
| **Dimensions** | 340 (L) x 157 (W) x 130 (H) mm |
| **Weight** | 4 kg |
| **Memory** | 3GB RAM, 32GB Flash |
| **IR illumination** | Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach up to 50m (164ft) or more depending on the scene |
| **Wiper & Heater** | Support heater |
| **Mirco SD Card** | External, up to 256G |
| **Power** | PoE IEEE 802.3af/802.3at<br>Max 15W |
| **GPS** | Support |
| **Wi-Fi** | Not support |

## PTZ

| | |
|---|---|
| **Pan/Tilt/Zoom** | Not support |
| **PT speed** | Not support |

## SYSTEM INTEGRATION

| | |
|---|---|
| **Application Programming Interface** | ONVIF Profile S/G/T |
| **Analytics** | Directional detection, Face detection, Motion detection, Enter/Exit, Traffic, ANPR |
| **Alarm Triggers** | Network disconnect |
| **Alarm Events** | FTP, Email, Server VA, Sound Alarm output |

# 4K BULLET S20I-0802N

## AI Security Camera

| | | | |
|---|---|---|---|
|  | **UHD 4K 8MP AT 60 FPS** |  | **-40°C ~ +80°C (-40°F to 176°F)** |
|  | **OPTIMIZEDIR WITH 50 M (164 FT) RANGE** |  | **ELECTRONIC IMAGE STABILIZATION** |

S20I-0802N UHD 4K 8MP video with 2x optical zoom.

S20I-0802N Network Camera is an all-integrated camera delivering 8 megapixel resolution and 2x optical zoom for easy and flexible installation at any distance as well as detailed video for identification. With a wide temperature range, impact resistance and IP66, IK10, this reliable camera is ready for tough environments. Lightfinder, Forensic WDR and OptimizedIR with 50 m (164 ft) range ensure details in challenging light conditions and darkness. S20I-0802N offers built-in analytics for proactive surveillance, corridor format and audio in for video with sound.

## CAMERA

| | |
|---|---|
| **Application** | Outdoor/Indoor Security, Class/Office Attendance, Smart parking, Safty Alert, Violation Law Alert, Traffic |
| **Processor** | Qualcomm QCS605<br>Qualcomm® Kryo™ 300 CPU, Octa-core 64-bit 2.5GHz 10nm<br>Qualcomm® Adreno™ 615 GPU<br>Qualcomm® Hexagon™ 685 DSP |
| **Image Sensor** | 1/2.8" CMOS, Sony IMX327 |
| **Electronic Shutter Speed** | Minimum / Maximum: 2~1/20,000sec<br>Anti Banding |
| **Automatic day/night** | Support |
| **Minimum illumination** | Color: 0.005Lux, IR: 0.001Lux F1.4 |

## AI INSIDE

| | |
|---|---|
| **AI Features** | **Face detection**<br>• Detect face in: 10~12m<br>• Accuracy: 96%<br>• Latency: 0,4~0,6s/frame<br><br>**Face recognition**<br>• Recognize face in: 6~8m<br>• Accuracy: 99,5%<br>• Latency: 0,3~0,5s/frame<br><br>**ANPR**<br>• Detect licence plate in: 10m<br>• Acurracy: 99,5%<br>• Processing speed: 0,3s/frame<br><br>**People counting**<br>• Detect body in: 15m<br>• Accuracy: 98%<br>• Processing speed: 0,3s~0,5s/frame<br><br>**Vehicle counting**<br>• Detect vehicle in: 15m<br>• Accuray: 98%<br>• Processing speed: 0,3s~0,5s/frame |
| **Tamper detection** | Support by hardware |
| **Motion Detection** | Multi polygonal zones |

## IMAGE

| | |
|---|---|
| **Night Vision Technology** | Support |
| **Wide Dynamic Range** | 120dB |
| **Backlight Compensation** | BLC, HLC, WDR |
| **Digital Noise Reduction** | Qualcomm ANR |
| **Gain Control** | Low / Middle / High |
| **White Balance** | Manual / Indoor / Outdoor / Bright / Night |
| **Video Rotation** | Mirror, Flip |
| **Bitrate Control** | H.265/H.264: CBR |

## VIDEO

| | |
|---|---|
| **Resolution** | 8MP |
| **Frame rate** | 60 fps |
| **Video compression** | H.264, H.265 |
| **Image stabilization** | EIS |
| **Streaming** | Allow upto twenty (20) simultaneous multi-streams using H.265, H.264 |

## LENS

| | |
|---|---|
| Optical Zoom | 2x |
| Focal Length | 4.36 - 9.33 mm ± 5% |
| FOV (Horizontal, Vertical) | H: 111.96$^{o}$(W)- 47.23$^{o}$(T)<br>V: 58.11$^{o}$(W) - 26.53$^{o}$(T)<br>D: 136.89$^{o}$(W) - 54.16$^{o}$(T) |
| Min. Object Distance | Wide: 1m∼∞, Tele: 2.5m∼∞ |
| Auto IRIS | F1.36∼2.0±5% |
| Auto focus | Support |

## AUDIO

| | |
|---|---|
| Audio In | Selectable (mic in/line in)<br>Supply 1.8V, 3mA output current, Impedance detection: 4 to 70 kΩ |
| Audio Out | Lineout:<br>- 30.8 mW (typical) with 32 Ω<br>- 61.6 mW (typical) with 16 Ω |
| Audio compression | Support MP3, AAC, 16-bit PCM, 24-bit PCM, FLAC, sample rate<br>8/11.025/16/22.05/32/44.1/48/64/88.2/96/176.4/192 kHz |

## NETWORK CONNECTIVITY

| | |
|---|---|
| Interface | RJ-45 cable connector for Network 10/100/1000 Mbps |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTSP, HTTP, HTTPS, SSl/TLS, DHCP |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OS X only) |
| Security | Password Protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication |

## GENERAL

| | |
|---|---|
| Casing | IP66, IK10 |
| Color / Material | Top : White / Aluminum<br>Bottom : White / Aluminum<br>Sun-Shield : White / Aluminum |
| Operation Temperature / Humidity | -40$^{o}$~+80$^{o}$C; 10-100%RH |
| Dimensions | 340 (L) x 157 (W) x 130 (H) mm |
| Weight | 4 kg |
| Memory | 3GB RAM, 32GB Flash |
| IR illumination | Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach up to 50m (114ft) or more depending on the scene |
| Wiper & Heater | Support heater |
| Mirco SD Card | External, up to 256G |
| Power | PoE IEEE 802.3af/802.3at<br>Max 15W |
| GPS | Support |
| Wi-Fi | Not support |

## PTZ

| | |
|---|---|
| Pan/Tilt/Zoom | Not support |
| PT speed | Not support |

## SYSTEM INTEGRATION

| | |
|---|---|
| Application Programming Interface | ONVIF Profile S/G/T |
| Analytics | Directional detection, Face detection, Motion detection, Enter/Exit, Traffic, ANPR |
| Alarm Triggers | Network disconnect |
| Alarm Events | FTP, Email, Server VA, Sound Alarm output |

# AI VIEW

# ULTRA ZOOM SPEED DOME S500

## AI Security Camera

| | |
|---|---|
| **FPS** FHD 2MP AT 60 FPS | -40°C ~ +80°C (-40°F to 176°F) |
| OPTIMIZEDIR WITH 200 M (656 FT) RANGE | ELECTRONIC IMAGE STABILIZATION |

S500 First-class 2 MP video with 33x optical zoom.

S500 Network Camera is an all-integrated camera delivering 2 megapixel resolution and 33x optical zoom for easy and flexible installation at any distance as well as detailed video for identification. With a wide temperature range, impact resistance and IP66, IK10, this reliable camera is ready for tough environments. Lightfinder, Forensic WDR and OptimizedIR with 200m (656 ft) range ensure details in challenging light conditions and darkness. S500 offers built-in analytics for proactive surveillance, corridor format and audio in for video with sound.

**HDTV** NETWORK VIDEO

open security & safety alliance

ONVIF | SGT

## CAMERA

| | |
|---|---|
| **Application** | Outdoor Security, Smart parking, Safety Alert, Violation Law Alert, Traffic, Highway, Building surveillance |
| **Processor** | Qualcomm QCS605<br>Qualcomm® Kryo™ 300 CPU, Octa-core 64-bit 2.5GHz 10nm<br>Qualcomm® Adreno™ 615 GPU<br>Qualcomm® Hexagon™ 685 DSP |
| **Image Sensor** | 1/2.8" CMOS, Sony IMX327 |
| **Electronic Shutter Speed** | Minimum / Maximum: 2~1/20,000sec<br>Anti Banding |
| **Automatic day/night** | Support |
| **Minimum illumination** | Color: 0.01Lux, IR: 0.001Lux F1.4 |

## AI INSIDE

| | |
|---|---|
| **AI Features** | **Face detection**<br>• Detect face in: 15~20m<br>• Accuracy: 96%<br>• Latency: 0,4~0,6s/frame |
| | **Face recognition**<br>• Recognize face in: 12~18m<br>• Accuracy: 99,5%<br>• Latency: 0,3~0,5s/frame |
| | **ANPR**<br>• Detect licence plate in: 200m<br>• Acurracy: 99,5%<br>• Processing speed: 0,3s/frame |
| | **People counting**<br>• Detect body in: 300m<br>• Accuracy: 98%<br>• Processing speed: 0,3s~0,5s/frame |
| | **Vehicle counting**<br>• Detect vehicle in: 300m<br>• Accuray: 98%<br>• Processing speed: 0,3s~0,5s/frame |
| **Tamper detection** | Support by hardware |
| **Motion Detection** | Multi polygonal zones |

## IMAGE

| | |
|---|---|
| **Night Vision Technology** | Support |
| **Wide Dynamic Range** | 120dB |
| **Backlight Compensation** | BLC, HLC, WDR |
| **Digital Noise Reduction** | Qualcomm ANR |
| **Gain Control** | Low / Middle / High |
| **White Balance** | Manual / Indoor / Outdoor / Bright / Night |
| **Video Rotation** | Mirror, Flip |
| **Bitrate Control** | H.265/H.264: CBR |

## VIDEO

| | |
|---|---|
| **Resolution** | 2MP |
| **Frame rate** | 60 fps |
| **Video compression** | H.264, H.265 |
| **Image stabilization** | EIS |
| **Streaming** | Allow upto twenty (20) simultaneous multi-streams using H.265, H.264 |

## LENS

| | |
|---|---|
| Optical Zoom | 33x |
| Focal Length | 4.5 - 148.5mm ± 5% |
| FOV (Horizontal, Vertical) | H: 60.1°(W)- 2.28°(T)<br>V: 39.2°(W) - 1.29°(T)<br>D: 67.28°(W) - 2.61°(T) |
| Min. Object Distance | Wide: 0.1m~∞, Tele: 1.5m~∞ |
| Auto IRIS | F1.4(W)-4.2(T) |
| Auto focus | Support |

## AUDIO

| | |
|---|---|
| Audio In | Selectable (mic in/line in)<br>Supply 1.8V, 3mA output current, Impedance detection: 4 to 70 kΩ |
| Audio Out | Lineout:<br>- 30.8 mW (typical) with 32 Ω<br>- 61.6 mW (typical) with 16 Ω |
| Audio compression | Support MP3, AAC, 24-bit PCM, 16-bit PCM, FLAC, sample rate 8Khz, 11.025 Khz, 16Khz, 22.05Khz, 32Khz, 44.1Khz, 48Khz, 64Khz, 88.2Khz, 96Khz, 176.4Khz, 192Khz |

## NETWORK CONNECTIVITY

| | |
|---|---|
| Interface | RJ-45 cable connector for Network 10/100/1000 Mbps |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTSP, HTTP, HTTPS, SSI/TLS, DHCP |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OS X only) |
| Security | Password Protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication |

## GENERAL

| | |
|---|---|
| Casing | IP66, IK10 |
| Color / Material | Body: Black / Aluminum<br>Head: White / Aluminum |
| Operation Temperature / Humidity | -40°~+80°C; 10-100%RH |
| Dimensions | 380 (L) x 290 (W) x 450 (H) mm |
| Weight | 9 kg |
| Memory | 3GB RAM, 32GB Flash |
| IR illumination | Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach up to 200m (656ft) or more depending on the scene |
| Wiper & Heater | Support (Hidden wiper) |
| Mirco SD Card | External, up to 256G |
| Power | AC 24V/3A |
| GPS | Support |
| Wi-Fi | Not support |

## PTZ

| | |
|---|---|
| Pan/Tilt/Zoom | Pan: 360° endless<br>Tilt: 90°<br>Tour recording, Guard tour, Control queue, On-screen directional indicator, Set new pan 0°, Adjustable zoom speed |
| PT speed | Manual pan speed 0.1~180°/S<br>Manual tilt speed 0.1~90°/S<br>Preset speed 240°/S. |

## SYSTEM INTEGRATION

| | |
|---|---|
| Application Programming Interface | ONVIF Profile S/G/T |
| Analytics | Directional detection, Face detection, Motion detection, Enter/Exit, Traffic, ANPR |
| Alarm Triggers | Network disconnect |
| Alarm Events | FTP, Email, Server VA, Sound Alarm output |