

**Video**

Imaging Device	1/2.8" 2MP CMOS
Effective Pixels	1944(H)x1104(V)
Min. Illumination	Color: 0.15Lux(F1.6, 1/30sec) B/W: 0.015Lux(F1.6, 1/30sec)

**Lens**

Focal Length (Zoom Ratio)	4.44~142.6mm(32x) zoom
Max. Aperture Ratio	F1.6 (Wide)~F4.4 (Tele)
Angular Field of View	H: 62.8°(Wide)~2.23°(Tele) / V: 36.80°(Wide)~1.26°(Tele)
Min. Object Distance	1.5m(59.06ft)
Focus Control	Oneshot AF
Lens Type	DC auto iris

**Operational**

Camera Title	Displayed up to 45 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNRIII
Digital Image Stabilization	Support
Defog	Support
Motion Detection	4ea, rectangular zone
Privacy Masking	32ea, rectangular zone - Mosaic
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror
Analytics	Face detection, Motion detection, Appear/Disappear, Enter/Exit, Tampering, Virtual line
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and e-mail Notification via e-mail NAS recording at event triggers Alarm output
Wiper	Support

**Network**

Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.264: Main/Baseline/High, MJPEG
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.264: Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Smart Codec	Manual(5ea area)
Bitrate Control	H.264: CBR or VBR MJPEG: VBR
Streaming	Unicast(10 users) / Multicast Multiple streaming(Up to 10 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication(EAP-TLS, EAP-LEAP)
Application Programming Interface	ONVIF Profile S SUNAPI (HTTP API) SVNP 1.2 Wisenet open platform
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, ~MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	512MB RAM, 128MB Flash

**Environmental**

Operating Temperature / Humidity	-40°C~+60°C (-40°F~+140°F) / Less than 90% RH * Start up should be done at above -30°C
Storage Temperature / Humidity	-30°C~+60°C (-22°F~+140°F) / Less than 90% RH
Certification	IP67, IK10 CE2460, EX II 2 GD, Ex d IIC T6 Gb IP67 Ex tb IIIC T85°C Db

**Electrical**

Input Voltage	24VAC
Power Consumption	24VAC: Max 28W

**Mechanical**

Color / Material	Silver / Stainless(SUS316L)
Product dimensions / weight	Ø162 x 244mm(Ø6.38 x 9.61"), 7Kg(15.43 lb)