

Imaging Device	1/2.8" 5MP CMOS
Effective Pixels	2592(H)x1944(V)
Min. Illumination	Color: 0.15Lux(F2.0, 1/30sec)
Video Out	HDMI: 1080p@30/25fps(60/50Hz)

Lens	
Focal Length (Zoom Ratio)	2.8mm fixed focal (QND-8011) 4.0mm fixed focal (QND-8021)
Max. Aperture Ratio	F2.0 (QND-8011) F1.6 (QND-8021)
Angular Field of View	H: 104.4°/ V: 76.7°/ D: 136.1°(QND-8011) H: 80.1°/ V: 58.0°/ D: 105.8°(QND-8021)
Focus Control	Fixed

Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~350° / 0°~69° / 0°~355°

Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(Electrical)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR
Motion Detection	4ea, polygonal zones
Privacy Masking	6ea, rectangular zones
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Defocus detection, Motion detection, Tampering
Business Intelligence	People counting
Alarm Triggers	Analytics, Network disconnect
Alarm Events	File upload via FTP and e-mail
	Notification via e-mail
	SD/SDHC/SDXC or NAS recording at event triggers

Network	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Resolution	2592x1944, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)
	MJPEG: Max. 15fps/12fps(60Hz/50Hz)
Smart Codec	WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR
	MJPEG: VBR
Streaming	Unicast(6 users) / Multicast
	Multiple streaming(Up to 3 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, UPnP, Bonjour, LLDP
Security	HTTPS(SSL) Login Authentication
	Digest Login Authentication
	IP Address Filtering
	User access log
Edge Storage	802.1X Authentication(EAP-TLS, EAP-LEAP)
	Micro SD/SDHC/SDXC 1slot 128GB
Application Programming Interface	ONVIF Profile S/G/T
	SUNAPI(HTTP API)
	Wisenet open platform
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OSx10.12, 10.13, 10.14
	Recommended Browser: Google Chrome
	Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OSxonly)
Memory	512MB RAM, 256MB Flash

Environmental	
Operating Temperature / Humidity	-10°C ~ +40°C(-14°F ~ +104°F) / Less than 90% RH
Storage Temperature / Humidity	-30°C ~ +60°C(-22°F ~ +140°F) / Less than 90% RH
Certification	IP42, IK08

Electrical	
Input Voltage	PoE(IEEE802.3af, Class2)
Power Consumption	PoE: Max 5.00W, typical 4.00W

Mechanical	
Color / Material	White / Plastic
RAL Code	RAL9003
Product dimensions / weight	Ø99.0x56.0mm(Ø3.9x2.2"), 165g(0.36 lb)

DORI	
Detect (25PPM/ 8PPF)	40.2m(12.26ft) (QND-8011) 61.7m(202.31ft) (QND-8021)
Observe (63PPM/ 19PPF)	16.1m(4.90ft) (QND-8011) 24.7m(80.92ft) (QND-8021)
Recognize (125PPM/ 38PPF)	8.0m(2.45ft) (QND-8011) 12.3m(40.46ft) (QND-8021)
Identify (250PPM/ 76PPF)	4.0m(1.23ft) (QND-8011) 6.2m(20.23ft) (QND-8021)