Image Sensor	1/1.7'' Progressive Scan CMOS
Min. Illumination	0.009 Lux @ (F1.2, AGC ON), 0.012 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Time	1s ~ 1/100,000s
Slow Shutter	Support
Lens	2.8~12mm @ F1.4, angle of view: 96.0° ~ 32.6°
Lens Mount	AF automatic focusing and motorized zoom lens
Auto-iris	DC drive
Day & Night	IR Cut filter with auto switch
Wide Dynamic Range	Digital WDR
Video Compression	H.264+/H.264/MJPEG
H.264 Type	Baseline Profile / Main Profile / High Profile
Video Bit Rate	32 Kbps - 16 Mbps
Audio compression rate	G.711/ G.722.1/ G.726/ MP2L2
Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.2) / 16Kbps(G.726) / 32- 128Kbps(MP2L2)
Max.Resolution	4096 x 2160
Frame rate	50Hz: 22fps(4096 x 2160), 25fps(3840 x 2160, 1920 x 1080,1280 x 720); 60Hz: 22fps(4096 x 2160), 24fps(3840 x 2160), 30fps(1920 x 1080, 1280 x 720)
Third Stream	Independent with Main Stream and Sub Stream, up to 50/60Hz : 10fps(1280 x 720)
Image Enhancement	BLC/3D DNR/ROI/Defog
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Regional Cropping	Support
Distortion Correction	Support
Day/Night Switch	Auto / Schedule / Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 x 128 24bit bmp format
Network Storage	NAS (Support NFS , SMB/ CFIS),ANR
Alarm Trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP,DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Secutity	User Authentication, Watermark, IP address filtering, Anonymous access

Standard	ONVIF(PROFILE S, PROFILE G), PSIA, CGI, ISAPI
Audio(-S)	1-ch 3.5mm audio in(Mic in/Line in) / out interface
Communication Interface	1 RJ45 10M/100M/1000M Ethernet port
Alarm(-S)	1 input , 1 output (up to DC24V 1A or AC110V 500mA)
Video Output(-S)	1Vp-p composite output(75 Ω/BNC)
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
Reset Button	Yes
Environmental Noise Filtering	Support
Audio I/O	Support dual audio track, stereo
Audio Sampling Rate	16kHz / 32kHz / 44.1kHz / 48kHz
Behavior Analysis	Line crossing detection, Intrusion detection, Region entrance, Region exiting, Unattended baggage, Object removal
Line Crossing Detection	Cross a pre-defined virtual line
Intrusion Detection	Enter and loiter in a pre-defined virtual region
Exception Detection	Scene change detection, Sudden audio increase/decrease, Audio loss detection, Defocus detection
Region Entrance	Enter a pre-defined virtual region from the outside place
Region Exiting	Exit from a pre-defined virtual region
Unattended Baggage	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials
Object Removal	Objects removed from the pre-defined region, such as the exhibits on display
Recognition	Face detection recognition
Statistics	Object Counting (Entrance and Exit object number is accounted and showed on screen in real time)
Protection Level	IP67
Operating Conditions	-30 °C °C – 60 °C (-22 °F - 140 °F), Humidity 95% or less (non- condensing) ; Built-in Heater: -40°C - 60°C
Power Supply	12 VDC ± 10%, PoE (802.3at)
IR Range	Up to 165ft