

Camera	VIM-1250	VIM-1350	VIM-1450	VIM-1550	VIM-3140	VIM-4340	VIM-4350	
Image Sensor	1/2.8" Sony Startvis CMOS	1/2.8" Sony Startvis CMOS	1/2.8" Sony Startvis CMOS	1/2.8" Sony Startvis Exmor CMOS	1/3" OV CMOS	1/3" OV CMOS	1/2.8" Sony Startvis Exmor CMOS	
Core Processor	ARM9 Architecture	ARM9 Architecture	ARM9 Architecture	ARM9 Architecture	ARM9 Architecture	ARM9 Architecture	ARM9 Architecture	
Operating System	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	
Signal System	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	
Minimum Illumination	Color: 0.002 Lux @ (F1.2, AGC On) B/W: 0.01 Lux @ (F1.2, AGC on); 0 Lux with IR	Color: 0.002 Lux @ (F1.2, AGC On) B/W: 0.001 Lux @ (F1.2, AGC On); 0 Lux with IR	Color: 0.002 Lux @ (F1.2, AGC On) B/W: 0.001 Lux @ (F1.2, AGC On); 0 Lux with IR	Color: 0.002 Lux @ (F1.4, AGC ON) B/W: 0.03 Lux @ (F1.4, AGC ON); 0 Lux with IR	Color: 0.3 Lux @ (F1.4, AGC On) B/W: 0.01 Lux @ (F1.4, AGC on); 0 Lux with IR	Color: 0.5 Lux @ (F1.4, AGC On) B/W: 0.01 Lux @ (F1.4, AGC on); 0 Lux with IR	Color: 0.002 Lux @ (F1.4, AGC On) B/W: 0.03 Lux @ (F1.4, AGC On); 0 Lux with IR	
Shutter Time	1s to 1/100,000s	1s to 1/100,000s	1s to 1/100,000s	1s to 1/100,000s	1s to 1/100,000s	1/100000s 1s	1/100000s 1s	
Lens	2.8mm, Angle of View: 113.5o /83.3o	2.8mm, Angle of View: 97o /78o /50o	2.8mm, Horizontal Angle of View: 79o /50o	Motorized 2.8-12mm Angle of View: 92o ~ 38.6o	2.8 - 12mm, Motorized Lens, Angle of View: 90.8o ~ 32.1o	2.8-12mm, Motorized Lens, Angle of View: 90.8o ~ 32.1o	2.8-12mm, Motorized Lens, Angle of view ~ 92o ~ 38.6o	
Lens Mount	φ12	φ12	φ12	φ14	φ14	φ14	φ14	
Auto Iris	N/A	N/A	N/A	DC Drive	DC Drive	DC Drive	DC Drive	
Adjustment Range				Pan: 0o ~ 355o, Tilt: 0o ~ 75o Rotation: 0o ~ 355o		Pan: 0o ~ 355o, Tilt: 0o ~ 75o, Rotation 0o ~ 355o	Pan: 0o ~ 355o, Tilt: 0o ~ 75o, Rotation 0o ~ 355o	
Day & Night	Dual IR Cut Filter with Auto Switch	Dual IR Cut Filter with Auto Switch	Dual IR Cut Filter with Auto Switch	IR Cut Filter with Auto Switch	IR Cut Filter with Auto Switch	IR Cut Filter with Auto Switch	IR Cut Filter with Auto Switch	
Wide Dynamic Range	100 dB	100 dB	100dB	100dB	120 dB	120 dB	100 dB	
Digital Noise Reduction	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR	
Focus				Auto	Auto	Auto	Auto	
Compression Standard								
Video Compression	H.265/H.264 HP/MP/BP/M-JPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264 HP/MP/BP/M-JPEG	H.265/H.264 HP/MP/BP/M-JPEG	H.265/H.264/HP/MP/BP/M-JPEG	H.265/H.264/MP/BP/M-JPEG	
Encoder Type			High Profile/Main Profile/Base Line Profile					
Video Bit Rate	32Kbps ~ 16Mbps	32Kbps ~ 16Mbps	64K ~ 8Mbps	32Kbps ~ 16Mbps	32Kbps ~ 16Mbps	32Kbps ~ 16Mbps	32Kbps ~ 16Mbps	
Audio Compression	G.711A/G.711U/ADPCM/AAC	G.711/G.726/ADPCM	G.711/G.726/ADPCM	G.711A/G.711U/ADPCM/AAC	G.711A/G.711U/ADPCM/AAC	G.711 A/G.711U/ADPCM/AAC	G.711A/G.711U/ADPCM/AAC	
Audio Bit Rate	G.711 8KHz, 64Kbps AAC 48KHz, 96-320Kbps ADPCM 8KHz, 32Kbps	8K ~ 48Kbps	8K ~ 48Kbps	G711 8KHz, 64kbps ADPCM 8KHz, 32kbps AAC 48KHz, 96-320kbps	G711 8KHz, 64kbps ADPCM 8KHz, 32kbps AAC 48KHz, 96-320kbps	G711 8KHz, 64kbps ADPCM 8KHz, 32kbps AAC 48KHz, 96-320kbps	G711 8KHz, 64kbps ADPCM 8KHz, 32kbps AAC 48KHz, 96-320kbps	
Image								
Max Image Resolution	1920x1080	1920x1080	1920 x 1080	1920 x 1080	2560x1440	2560x1440	1920x1080	
Frame Rate	50Hz: 25fps (1920x1080), 25fps (1280x960), 50fps (1280x720) 60Hz: 30fps (1920x1080), 30fps (1280x960), 60fps (1280x720)	50Hz: 25fps (1920x1080), 25fps (1280x720) 60Hz: 30fps (1920x1080), 30fps (1280x720)	50Hz: 25fps (1920x1080), 25fps (1280x720) 60Hz: 30fps (1920x1080), 30fps (1280x720)	50Hz: 25fps (1920x1080), 25fps (1280x960), 25fps (1280x720), Up to 1280*720@50fps 60Hz: 30fps (1920x1080), 30fps (1280x960), 30fps (1280x720), Up to 1280*720@60fps	PAL: 1440p@25fps, QXGA@25fps, 960p@25fps, 720p@25fps, Up to 1280*720@50fps NTSC: 1440p@25fps, QXGA@30fps, 1080p@30fps, 960p@30fps, 720p@30fps, Up to 1280*720@60fps	PAL: 1440p@25fps, QXGA@25fps, 1080p@25fps, 960@25fps, 720p@25fps, Up to 1280*720@50fps NTSC: 1440p@25fps, QXGA@30fps, 1080p@30fps, 960p@30fps, 720p@30fps, Up to 1280*720@60fps	PAL: 1440p@25fps, QXGA@25fps, 1080p@25fps, 960@25fps, 720p@25fps, Up to 1280*720@50fps NTSC: 1440p@25fps, QXGA@30fps, 1080p@30fps, 960p@30fps, 720p@30fps, Up to 1280*720@60fps	50Hz: 25fps (1920x1080), 25fps (1280x960), 25fps (1280x720), Up to 1280*720@50fps 60Hz: 30fps (1920x1080), 30fps (1280x960), 30fps (1280x720), Up to 1280*720@60fps
Triple Stream	Mainstream: 1080P (1920x1080) Substream: D1 (704x576) 3rd Stream: 720P (1280x720)	Mainstream: 1080P (1920x1080) Substream: D1 (704x576) 3rd Stream: CIF (352x288)	Mainstream: 1080P (1920*1080) Substream: D1 (704*576) 3rd Stream: CIF (352*288)	Mainstream: 1080P (1920*1080) Substream: D1 (704*576) 3rd stream: 720P (1280*720)	Mainstream: 1440P (2560x1440) Substream: D1 (704x576) 3rd Stream: CIF (352x288)	Mainstream: 1440P(2560x1440) Substream: D1 (704x576) 3rd Stream: CIF (352*288)	Mainstream: 1080P (1920*1080) Substream: D1 (704*576) 3rd Stream: 720P (1280*720)	
Image Settings	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	
HLC	Y	Y	Y	Y	Y	Y	Y	
Smart Defog	Y	Y	Y	Y	Y	Y	Y	
Corridor	Y	N/A	N/A	Y	Y	Y, Available for 720P and above	Y	
EIS	Y	Y	Y	Y	Y	Y	Y	
ROI	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	
Privacy Mask	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	
Picture Overlay	200 x 200, BMP 24bit, Zone Configurable	200 x 200, BMP 24bit, Zone Configurable	200x200, BMP 24 bit, Zone Configurable	200x200, BMP 24bit, Zone Configurable	200 x 200, BMP 24bit, Zone Configurable	200 x 200, BMP 24bit, Zone Configurable		
OSD					16x16, 32x32, 24x24, 48x48, 64x64, 96x96 Size Letters such as Week, Date, Time, Total 5 Regions	16x16, 32x32, 24x24, 48x48, 64x64, 96x96 Size Letters such as week, date, time, Total 5 regions"		
Network								
Browser	IE10+, Firefox24 on Windows	IE10+, Firefox24 on Windows	IE10+, Firefox24 on Windows	IE10+, Firefox24 on Windows	IE10+, Firefox24 on Windows	IE10+, Firefox24 on Windows	IE10+, Firefox24 on Windows	
Mobile		P2P (IOS/Android)	P2P (IOS/Android)					
Network Storage	FTP	NAS	NAS	FTP			FTP	
Video Analytics	Tripwire/Perimeter/Object Abandoned/ Object Removed/Loitering/Scene Change/Blur Image/Abnormal Audio	Tripwire/Perimeter/Object Abandoned/ Object Removed/Loitering/Scene Change/Blur Image/Abnormal Audio	Tripwire/Perimeter/Object Abandoned/ Object Removed/Loitering/Scene Change/Blur Image	Line/Perimeter/Object Abandoned/ Object Removed/Loitering/Scene Change/Blur Image/Abnormal Audio	See Video Content Analysis	See Video Content Analysis	"Tripwire/Perimeter/Object Abandoned/ Object Removed/Loitering/ Focus/Scene Change/Abnormal Audio"	
Alarm Trigger	Video Analytics/IP Conflict/MAC Conflict/Port Alarm/Mask Alarm	Video Analytics/VIP Conflict/MAC Conflict/Port Alarm	Video Analytics/IP Conflict/MAC Conflict/Port Alarm	Video Analytics/IP Conflict/MAC Conflict/Port Alarm/Mask Alarm				
Protocols	IPV4/IPV6/HTTP/802.1x/FTP/SMTP/UPnP/SNMP/DNS/DDNS/ NTP/RTSP/ PPPoE/NT/UPnP/SMTP/SNMP/IGMP/802.1X/QoS/IPV6/ Bonjour	TCP/IP/ICMP/HTTP/HTTPS/FTP/DHCP/DHCP/DNS/DDNS/RTP/RTSP/ RTCP/ PPPoE/NT/UPnP/SMTP/SNMP/IGMP/802.1X/QoS/IPV6/ Bonjour	TCP/IP/ICMP/HTTP/HTTPS/FTP/DHCP/DNS/DDNS/ RTP/RTSP/RTCP/PPPoE/NT/ UPnP/ SMTP/SNMP/IGMP/802.1X/QoS/IPV6/ Bonjour	IPV4/IPV6/HTTP/802.1x/FTP/SMTP/UPnP/SNMP/DNS/DDNS/ NTP/RTSP/ TCP/UDP/DHCP/PPPoE	IPV4/IPV6/HTTP/802.1x/FTP/SMTP/UPnP/SNMP/DNS/DDNS/ NTP/RTSP/ TCP/UDP/DHCP/PPPoE	IPV4/IPV6/HTTP/802.1x/FTP/SMTP/UPnP/SNMP/DNS/DDNS/ NTP/RTSP/ TCP/UDP/DHCP/PPPoE	IPV4/IPV6/HTTP/802.1x/FTP/SMTP/UPnP/SNMP/DNS/DDNS/ NTP/RTSP/ TCP/UDP/DHCP/PPPoE	
User Permission	4 Level/8 Users	4 Level/8 Users via web browser	4 Level/8 Users via web browser	4 Level/8 Users via web browser	4 Level/8 Users	4 Level/8 Users		
Remote Connection	3 Users Access at the same time via web browser	2-ch Access	2-ch Access	4-ch Access	4 Users Access at the Same Time	4 Users access at the same time		
NTP	Y		Y	ONVIF (Profile S)				
System Compatibility	ONVIF (Profile S)	ONVIF (Profile S)	ONVIR (Profile S)		ONVIF (Profile S)	ONVIF (Profile S)	ONVIF (Profile S)	
Interface								
Audio Input	1-ch, Built-in Mic	N/A	N/A	1-ch	1-ch	1-ch, Built-in Mic	1-ch, Built-in Mic	
Audio Output	1-ch	N/A	2-ch Access	1-ch	1-ch	1-ch	1-ch	
Communication Interface	1-ch RJ45 10M/100M Ethernet Interface	1-ch RJ45 10M/100M Ethernet Interface	Y	1-ch RJ45 10M/100M Ethernet Interface	1-ch RJ45 10M/100M Ethernet Interface	1-ch RJ45 10M/100M Ethernet interface	1-ch RJ45 10M/100M Ethernet interface	
Alarm Input	1-ch	N/A	ONVIR (Profile S)	2-ch	2-ch	2-ch	2-ch	
Alarm Output	1-ch	N/A	N/A	1-ch	1-ch	1-ch	1-ch	
Video Output	N/A	N/A	N/A	1Vp-p Composite Output (75Ω/BNC) for internal setup	1-ch	1-ch Vp-p composite output (75Ω, BNC)	1-Vp-p composite output (75 Ω, BNC), for internal setup	
OnBoard Storage	MicroSD Slot, Up to 128GB	MicroSD	N/A	Micro SD Slot, up to 128GB (card not included)	Micro SD Card Slot, up to 128GB	Built-in Micro SD Card Slot, up to 128 GB	MicroSD Slot, up to 128GB (card not included)	
Reset Button	N/A			Yes		Y	Y	
Extension	N/A	N/A	N/A	1x USB	1x USB	1x USB	1x USB	
General								
Operating Conditions	-30o C ~ 60o C (-22o F ~ 140o F) (IR off) -20o C ~ 40o C (-4o F ~ 104o F) (IR on) 0 ~ 95% RHG"	-35o C ~ 60o C (-31o F ~ 140o F) (IR off) -35o C ~ 40o C (-31o F ~ 104o F) (IR on) 0 ~ 95% RHG	-35o C ~ 60o C (IR Off) (-31o F ~ 140o F) -35o C ~ 40o C (IR On) (-31o F ~ 104o F) 0 ~ 95% RHG	-30o C ~ 60o C (IR Off) (-22o F ~ 140o F) -30o C ~ 40o C (IR On) (-22o F ~ 104o F) 0 ~ 95% RHG	-30o C ~ 60o C (-22o F ~ 140o F) - IR Off -30o C ~ 40o C (-22o F ~ 104o F) - IR On 0 ~ 95% RHG	-30o C ~ 60o C (-22o F ~ 140o F) - IR Off -30o C ~ 40o C (-22o F ~ 104o F) - IR On 0 ~ 95% RHG	-30o C ~ 60o C (-22o F ~ 140o F) - IR Off -30o C ~ 40o C (-22o F ~ 104o F) - IR On 0 ~ 95% RHG	-30o C ~ 60o C, (-22o F ~ 140o F) (IR Off) -30o C ~ 40o C (-22o F ~ 104o F) (IR On) 0 ~ 95% RHG
Power Supply	12VDC ±10%PoE (802.3af)	12VDC ±10% POE (802.3af)	12VDC + 10%, PoE (802.3af)	12VDC + 10%, PoE (802.3af)	12VDC ±20%, PoE (802.3af)	DC12V±10%, AC 24V±10%, PoE	DC12V±10%/AC 24V±10%, PoE	
Power Consumption	Max 5W (IR Off) (ICR Instant Switch 10W) Max 8W (IR On)	Max. 3W (IR Off) (ICR Instant Switch 7W) Max. 5W (IR On)	Max. 3.5W (IR Off) (ICR Instant Switch 7.5W) Max. 5.5W (IR On)	Max. 2.7W (IR off) (ICR Instant Switch 8.4W) Max. 7W (IR on)	3.2W (IR Off) (ICR Instant Switch 8.5W) 7.4W (IR On)	5.0W (IR off), 7.7W (IR on)	Max. 3.7W (IR off) (ICR Instant Switch 7.5W) Max. 7.3W (IR On)	
Circuit Protection	TVS 6000V, Lightning/Surge Protection (Power 2000V, RJ45 1000V)	TVS 6000V, Lightning/Surge Protection (Power 2000V, RJ45 1000V)	TVS 6000V, Lightning/Surge Protection (Power 2000V, RJ45 1000V)	TVS 6000V, Lightning/Surge 2000V protection	TVS 6000V, Lightning/Surge 2000V Protection	TVS 6000V, Lightning/Surge 2000V Protection	TVS 6000V, Lightning/Surge 2000V Protection	
Impact Protection	Only for Indoor Installation	IP66, IK10	IP66	IP67	IP67	IP66	IP66, IK10	
IR Range	10-15m (32.8-49.2ft)	20-30m (66-98ft)	15-25m (49-82ft)	30m-50m (98.4-164ft)	30-50m (98.4-164ft)	20-30m (65.6-98.4ft)	20-30m (65.6-98.4 ft.)	
IR LEDs	10 pcs φ3 IR LEDs	24 pcs IR LEDs	36pcs IR LEDs	54pcs φ5 Array IR LEDs	54pcs, φ5 Array IR LEDs	32 pcs	32 pcs, φ5 IR LEDs	
Dimensions	116 x 116 x 60mm (4.6 x 4.6 x 2.4in)	121 x 80 x 91mm (4.8 x 3.1 x 3.6in)	169x67x70mm (6.7x2.6x2.8in)	337mmx107mmx107mm (13.2x4.2x4.2in) - (Measurement taken when sunshield is not fully extended)	337 x 107 x 107mm (13.2 x 4.2 x 4.2in) (Measurement taken when sunshield is not fully extended)	150 x 150 x 122mm (5.9 x 5.9 x 4.8in)	150 x 150 x 122mm (5.9 x 5.9 x 4.8in)	
Weight	0.25KG (.55lbs.) (IP Camera only), 0.4KG (0.88lbs.) (with packing box)	600g (1.3lbs.) (IP Camera only), 800g (1.76lbs.) (with packing box)	400g (IP Camera only) (.88 lbs); 600g (with packing box) (1.3 lbs)	1.3KG (IP Camera only) (2.9 lbs); 1.6KG (with packing box) (3.5 lbs)	1.3kg/2.87lbs (IP Camera only), 1.6kg/3.5lbs (with Packing Box)	1.0kg (3.3lbs) (IP Camera only), 1.3kg (2.87lbs) (with packing box)	1kg (2.2lbs) (IP Camera only), 1.3kg (2.9lbs) (with packing box)	
Video Content Analysis								
High Performance VCA					Advanced tracking algorithm, low false alarm rate	Advanced tracking algorithm, low false alarm rate		
Detection Zones					Minimum/maximum object size classification	Minimum/maximum object size classification		
Detection Behavior					Tripwire/Perimeter/Object Abandoned/ Object Removed/Loitering/Scene Change/Blur Image/Abnormal Audio	Tripwire/Perimeter/Object Abandoned/ Object Removed/Loitering/Scene Change/ Blur Image/Abnormal Audio		
On-screen Display					Real-time display of tracking data and events	Real-time display of tracking data and events		
Tamper Detection					Detect camera tampering	Detect camera tampering		
Alert Hold-Off Time (Entry Route)					Selectable from 1 to 300 seconds	Selectable from 1 to 300 seconds		