

CATEGORY	VANDAL DOME CAMERAS															
MODEL	IPV4E28X	IPV4E40X	IPV4E28BX	IPV428AIX	IPVLP428X	IPV4E212MX	IPV4213MAIX	IPV5E28X	IPV528X	IPV5E212MX	IPV5213MX	IPV4K212MX				
Video																
Resolution	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	4K (8MP) 3840 x 2160				
FPS @ Max Resolution	25	25	25	30	30	25	30	25	30	30	30	20				
Lens	Fixed 4mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.7~13.5mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.7~13.5mm	MVF 2.8~12mm				
Chipset	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar				
Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.7" CMOS	1/3" CMOS	1/2.7" CMOS	1/2.8" CMOS				
IR LED Max Range	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	131ft (40M)				
Min Scene Illum (Lux)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)				
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB				
Corridor Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Video Streams	3	3	3	3	3	2	3	2	3	2	3	3				
General																
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Material	Plastic	Plastic	Plastic	Metal	Plastic	Plastic	Metal	Plastic	Metal	Plastic	Metal	Metal				
Onboard Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Alarm I / O	n/a	n/a	n/a	1 / 1	n/a	n/a	1 / 1	n/a	1 / 1	n/a	1 / 1	1 / 1				
Audio I / O	n/a	n/a	n/a	1 / 1	1 / 1 B/I Mic	1 / 0 B/I Mic	1 / 1 B/I Mic	1 / 0 B/I Mic	1 / 1	1 / 0 B/I Mic	1 / 1 B/I Mic	1 / 1 B/I Mic				
Operating Temp Range	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)				
Conformity Cert's	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10				
Power	12VDC / PoE 5.5W	12VDC / PoE 5.5W	12VDC / PoE 5.5W	12VDC / PoE 4.5W	12VDC / PoE 6W	12VDC / PoE 7.5W	12VDC / PoE 7W	12VDC / PoE 4.5W	12VDC / PoE 7W	12VDC / PoE 7.5W	12VDC / PoE 7W	12VDC / PoE 9W				
SMART Detection Features																
Motion	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support				
Ultra Motion	Support	Support	Support	Support	Support	n/a	Support	Support	Support	Support	n/a	Support				
Tampering	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support				
Audio	n/a	n/a	n/a	Support	Support	Support	Support	n/a	Support	Support	Support	Support				
Scene Change	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a				
Defocus	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a				
Cross Line	Support	Support	Support	n/a	n/a	Support	n/a	Support	n/a	Support	n/a	n/a				
Enter Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
Leave Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
Intrusion	Support	Support	Support	n/a	n/a	Support	n/a	Support	n/a	Support	n/a	n/a				
Human Body	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
Deep Learning SMART Features																
Smart Intrusion	n/a	n/a	n/a	Support	Support	n/a	Support	n/a	Support	n/a	Support	Support				
People Counting	n/a	n/a	n/a	Support	Support	n/a	Support	n/a	Support	n/a	Support	Support				
People Flow Counting	n/a	n/a	n/a	Support	Support	n/a	Support	n/a	Support	n/a	Support	Support				
Crowd Density Monitoring	n/a	n/a	n/a	Support	Support	n/a	Support	n/a	Support	n/a	Support	Support				
Face Capture	n/a	n/a	n/a	Support	Support	n/a	Support	n/a	Support	n/a	Support	Support				
Heat Map	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
Auto Tracking	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
Panoramic Linkage	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				

CATEGORY	TURRET CAMERAS															
MODEL	IPT4E28X	IPT428AIX	IPT428AIBX	IPT440AIX	IPT4E212MX	IPT4213MAIX	IPT5E28X	IPT5180X	IPT5C28X	IPT528AIX	IPT528AIBX	IPT5213MX	IPT4KE28X	IPT4K28AIX	IPT4K28TAIX	IPT4K212MX
																
Video																
Resolution	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	4K (8MP) 3840 x 2160	4K (8MP) 3840 x 2160	4K (8MP) 3840 x 2160	4K (8MP) 3840 x 2160
FPS @ Max Resolution	30	30	30	30	25	30	25	30	25	30	30	25	20	20	20	20
Lens	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 4mm	MVF 2.8~12mm	MVF 2.8~13.5mm	Fixed 2.8mm	Pano 1.68mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.7~13.5mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm
Chipset	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar
Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.8" CMOS
IR LED Max Range	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	98ft (30M)	66ft (20M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)
Min Scene Illum (Lux)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.001 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.001 (Col); 0 (BW, w/ IR)	0.0025 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Corridor Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video Streams	3	3	3	3	2	3	2	3	3	3	3	3	2	3	3	3
General																
NDA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Material	Plastic	Metal	Metal	Metal	Plastic	Metal	Plastic	Metal	Metal	Metal	Metal	Metal	Plastic	Metal	Metal	Metal
Onboard Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	n/a	Yes	Yes	Yes
Alarm I / O	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Audio I / O	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	B/I Mic & Spkr	1 / 0 B/I Mic
Operating Temp Range	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Conformity Cert's	IP67	IP67	IP67	IP67	IP67	IP67, IK10	IP67	IP67, IK10	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67, IK10
Power	12VDC / PoE 6W	12VDC / PoE 4W	12VDC / PoE 4W	12VDC / PoE 4W	12VDC / PoE 8W	12VDC / PoE 7W	12VDC / PoE 6W	12VDC / PoE 5.5W	12VDC / PoE 7W	12VDC / PoE 9W	12VDC / PoE 9W	12VDC / PoE 7W	12VDC / PoE 4.5W	12VDC / PoE 5W	12VDC / PoE 8W	12VDC / PoE 8W
SMART Detection Features																
Motion	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Ultra Motion	Support	Support	Support	Support	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Tampering	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Audio	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Scene Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Defocus	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cross Line	Support	n/a	n/a	n/a	Support	n/a	Support	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	n/a
Enter Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Leave Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Intrusion	Support	n/a	n/a	n/a	Support	n/a	Support	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	n/a
Deep Learning SMART Features																
Smart Intrusion	n/a	Support	Support	Support	n/a	Support	n/a	Support	Support	Support	Support	Support	n/a	Support	Support	Support
People Counting	n/a	Support	Support	Support	n/a	Support	n/a	n/a	Support	Support	Support	Support	n/a	Support	Support	Support
People Flow Counting	n/a	Support	Support	Support	n/a	Support	n/a	n/a	Support	Support	Support	Support	n/a	Support	Support	Support
Crowd Density Monitoring	n/a	Support	Support	Support	n/a	Support	n/a	n/a	Support	Support	Support	Support	n/a	Support	Support	Support
Face Capture	n/a	Support	Support	Support	n/a	Support	n/a	n/a	Support	Support	Support	Support	n/a	Support	Support	Support

CATEGORY	IP BULLET CAMERAS																
MODEL																	
Video																	
Resolution	2MP 1920 x 1080	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	4MP 2688 x 1520	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620	4K (8MP) 3840 x 2160	4K (8MP) 3840 x 2160	4K (8MP) 3840 x 2160	4K (8MP) 4096 x 1800
FPS @ Max Resolution	60	25	30	30	25	30	30	30	25	25	25	30	30	20	20	20	20
Lens	MVF 4.7 ~ 47mm	Fixed 2.8mm	Fixed 4mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.8~12mm	MVF 2.7~13.5mm	MVF 2.8~143mm	Fixed 4mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.7~13.5mm	Pano 1.68mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	Fixed 4.2mm x 4
Chipset	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	HiSilicon
Sensor	1/2.8" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/1.8" CMOS
IR LED Max Range	164ft (50M)	164ft (50M)	164ft (50M)	131ft (40M)	164ft (50M)	164ft (50M)	164ft (50M)	492ft (150M)	164ft (50M)	131ft (40M)	164ft (50M)	164ft (50M)	66ft (20M)	98ft (30M)	98ft (30M)	164ft (50M)	164ft (50M)
Min Scene Illum (Lux)	0.001 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.0005 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Corridor Mode	n/a	Yes	Yes	Yes	Yes	n/a	Yes	Yes	n/a	Yes	Yes	Yes	n/a	Yes	Yes	Yes	n/a
Video Streams	3	2	3	3	2	3	3	3	2	3	2	3	3	3	3	3	3
General																	
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Material	Metal	Plastic	Plastic	Plastic	Plastic	Metal	Metal	Metal	Plastic	Plastic	Plastic	Metal	Metal	Plastic	Plastic	Metal	Metal
Onboard Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alarm I / O	2 / 1	n/a	n/a	n/a	n/a	1 / 1	1 / 1	2 / 1	n/a	n/a	n/a	1 / 1	n/a	n/a	n/a	1 / 1	2 / 1
Audio I / O	1 / 1	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 1	1 / 1	1 / 1	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 0 B/I Mic	1 / 1 B/I Mic & Spkr	1 / 1
Operating Temp Range	-40°C ~ 60°C (-40°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 70°C (-40°F ~ 158°F)
Conformity Cert's	IP67, IK10	IP67	IP67	IP67	IP67	IP67	IP67, IK10	IP67	IP67	IP67	IP67	IP67, IK10	IP67	IP67	IP67	IP67	IP67
Power	12VDC / PoE 20W	12VDC / PoE 6W	12VDC / PoE 6W	12VDC / PoE 4W	12VDC / PoE 8.5W	12VDC / PoE 9.5W	12VDC / PoE 8.5W	12VDC / PoE 21W	12VDC / PoE 6W	12VDC / PoE 5W	12VDC / PoE 8.5W	12VDC / PoE 8W	12VDC / PoE 5.5W	12VDC / PoE 6.5W	12VDC / PoE 10.5W	12VDC / PoE 10.5W	24VAC / 24VDC 40W
SMART Detection Features																	
Motion	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Ultra Motion	n/a	Support	Support	Support	Support	n/a	Support	n/a	Support	Support	n/a	Support	Support	Support	Support	Support	n/a
Tampering	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Audio	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Scene Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Defocus	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cross Line	n/a	Support	Support	n/a	Support	n/a	n/a	n/a	Support	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a
Enter Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Leave Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Intrusion	n/a	Support	Support	n/a	Support	Support	n/a	n/a	Support	n/a	Support	n/a	n/a	Support	n/a	n/a	n/a
Human Body	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Deep Learning SMART Features																	
Smart Intrusion	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	n/a	Support	Support	n/a	Support	Support	Support
People Counting	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	n/a	Support	Support	n/a	n/a	Support	Support
People Flow Counting	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	n/a	Support	Support	n/a	n/a	Support	Support
Crowd Density Monitoring	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	n/a	Support	Support	n/a	n/a	Support	Support
Face Capture	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	n/a	Support	Support	n/a	n/a	Support	Support

CATEGORY	PAN / TILT / ZOOM						FISHEYE	
MODEL	IPCS233X	IPCS2428X	IPCS2425X	IPCS254X	IPCS24K25X	MODEL	IPFE5360X	IPFE12360X
								
Video								
Resolution	2MP 1920 x 1080	2MP 1920 x 1080	4MP 2688 x 1520	5MP 2880 x 1620	4K (8MP) 3840 x 2160	Resolution	5MP 2592 x 1944	12MP 4000 x 3000
FPS @ Max Resolution	60	25	30	30	30	FPS @ Max Resolution	30	20
Lens	33x 4.5~148.5mm	Fixed 2.8mm & MVF 4x, 2.8~12mm	MVF 25x 4.8~120mm	MVF 4x 2.8~12mm	MVF 25x 6~150mm	Lens	Fixed 1.4mm Pano	Fixed 1.8mm Pano
Chipset	Mstar	Mstar	Mstar	Mstar	Mstar	Chipset	Mstar	Mstar
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/1.8" CMOS	Sensor	1/2.8" CMOS	1/1.7" CMOS
IR LED Max Range	492ft (150M)	164ft (50M)	328ft (100M)	164ft (50M)	656ft (200M)	IR LED Max Range	33ft (10M)	49ft (15M)
Min Scene Illum (Lux)	0.001 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	Min Scene Illum (Lux)	0.01 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)
WDR	120dB	120dB	120dB	120dB	Digital	WDR	120dB	Digital
Corridor Mode	n/a	Yes	n/a	n/a	n/a	Corridor Mode	n/a	n/a
Video Streams	5	2	3	3	3	Video Streams	3	3
General								
NDA Compliant	Yes	Yes	Yes	Yes	Yes	NDA Compliant	Yes	Yes
Material	Metal	Metal	Metal	Metal	Metal	Material	Metal	Metal
Onboard Storage	Yes	n/a	Yes	Yes	Yes	Onboard Storage	Yes	Yes
Alarm I / O	1 / 1	n/a	2 / 1	1 / 1	2 / 1	Alarm I / O	1 / 1	2 / 1
Audio I / O	1 / 1	1 / 1 B/I Spkr & 2 x Mic	1 / 1	1 / 1	1 / 1	Audio I / O	1 / 1 B/I Mic	1 / 1 B/I Mic & Spkr
Operating Temp Range	-40°C ~ 70°C (-40°F ~ 158°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-40°C ~ 65°C (-40°F ~ 149°F)	Operating Temp Range	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Conformity Cert's	IP66	IP66	IP67, IK10	IP66	IP66	Conformity Cert's	IP67, IK10	IP67, IK10
Power	24VAC/24VDC/PoE (Injector Req'd) 60W	12VDC / PoE 16W	12VDC / PoE 21W	12VDC / PoE 18W	24VAC/24VDC/PoE (Injector Req'd) 60W	Power	12VDC / PoE 8.5W	12VDC / PoE 12W
SMART Detection Features								
Motion	Support	Support	Support	Support	Support	Motion	Support	Support
Ultra Motion	n/a	n/a	n/a	n/a	n/a	Ultra Motion	n/a	n/a
Tampering	Support	n/a	Support	Support	Support	Tampering	Support	Support
Audio	Support	Support	Support	Support	Support	Audio	Support	Support
Heat Map	n/a	n/a	n/a	n/a	n/a	Heat Map	Support	n/a
Deep Learning SMART Features								
Smart Intrusion	Support	Support	Support	Support	Support	Smart Intrusion	n/a	Support
People Counting	Support	Support	Support	Support	Support	People Counting	n/a	n/a
People Flow Counting	Support	Support	Support	Support	Support	People Flow Counting	n/a	n/a
Crowd Density Monitoring	Support	n/a	Support	Support	Support	Crowd Density Monitoring	n/a	n/a
Face Capture	Support	n/a	Support	Support	Support	Face Capture	n/a	n/a
Heat Map	n/a	n/a	n/a	n/a	n/a	Heat Map	n/a	Support
Auto Tracking	Support	n/a	Support	Support	Support	Auto Tracking	n/a	n/a
Panoramic Linkage	n/a	Support	n/a	n/a	n/a	Panoramic Linkage	n/a	n/a

For additional information, please visit us online at www.univiewtechnology.com or call 1-888-288-7644

CATEGORY	NETWORK VIDEO RECORDERS (NVR)										
MODEL	NR041XP	NR081XP	NR162XP	NR164X	NR324XP	NR328X	NR648X	NR6416	NR12816	NR12824	NR25624
											
PoE											
Interface	4 x RJ-45 10M/100M self-adaptive Ethernet Interface	8 x RJ-45 10M/100M self-adaptive Ethernet Interface	16 x RJ-45 10M/100M self-adaptive Ethernet Interface	n/a	16 x RJ-45 10M/100M self-adaptive Ethernet Interface	n/a	n/a	n/a	n/a	n/a	n/a
Maximum Power	Max 30W for single port Max 50W in total	Max 30W for single port Max 75W in total	Max 30W for single port Max 240W in total	n/a	Max 30W for single port Max 150W in total	n/a	n/a	n/a	n/a	n/a	n/a
Supported Standard	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	n/a	IEEE 802.3af/at	n/a	n/a	n/a	n/a	n/a	n/a
General											
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply	48V DC / 1.35A Power Consumption: ≤ 10W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	53V DC / 1.8A Power Consumption: ≤ 10W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 15W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 25W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 20W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 25W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 25W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 25W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 50W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 50W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)	100 ~ 240V AC Power Consumption: ≤ 70W (without HDD) -10°C ~ +55°C (+14°F ~ +131°F)
Working Environment	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)	Humidity ≤ 90% RH (non-condensing)
Dimensions	205mm × 212mm × 46mm (8.1" × 8.3" × 1.8")	205mm × 212mm × 46mm (8.1" × 8.3" × 1.8")	380mm × 315mm × 53mm (15.0" × 12.4" × 2.1")	442mm × 426mm × 89mm (17.4" × 16.8" × 3.5")	400mm × 363mm × 74mm (15.7" × 14.3" × 2.9")	442mm × 426mm × 89mm (17.4" × 16.8" × 3.5")	442mm × 426mm × 89mm (17.4" × 16.8" × 3.5")	482mm × 477mm × 131mm (18.8" × 19.0" × 5.1")	482mm × 477mm × 131mm (18.8" × 19.0" × 5.1")	533mm × 484.6mm × 175.5mm (21.0" × 19.1" × 6.9")	533mm × 484.6mm × 175.5mm (21.0" × 19.1" × 6.9")
Weight	≤ 0.98kg (2.16lb) FCC, CE	≤ 0.98kg (2.16lb) FCC, CE	≤ 2.6kg (5.73lb) FCC, CE	≤ 5.7kg (12.57lb) FCC, CE	≤ 4kg (8.82lb) FCC, CE	≤ 5.7kg (12.57lb) FCC, CE	≤ 5.7kg (12.57lb) FCC, CE	≤ 5.7kg (12.57lb) FCC, CE	≤ 10 kg (22.05 lb) FCC, CE	≤ 10 kg (22.05 lb) FCC, CE	≤ 12.5 kg (27.56 lb) FCC, CE
Certifications	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)	(UL – Power Supply only)
SMART Features											
Face Detection (Capture)	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Intrusion Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Cross Line Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Audio Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Human Body Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
VCA Playback/Backup	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Face Search	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Behavior Search	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
People Counting (Regular)	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
People Flow Counting (Deep Learning)	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Crowd Density Monitoring (Deep Learning)	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Intelligent Mark	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Scene Change Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Defocus Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Auto Tracking	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Face Recognition by Camera	n/a	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support
Face Recognition by NVR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Support	Support
Vehicle Recognition by Camera	n/a	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support
Heat Map	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Object Left Behind	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Object Removed	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
SIP by Camera	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
SIP by NVR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
UMD by Camera	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
UMD by NVR (w/ UVT IPC)	Support	Support	Support	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dual-lens Cameras	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Box-Dome Linkage	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Thermal Imaging Cameras (Fire Detection, Smoking Detection, Temperature Measurement, Smoking and Fire Detection)	n/a	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support
Non-Economic Fisheye configuration	n/a	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support
Dewarping by NVR	n/a	n/a	Support	Support	Support	Support	Support	Support	Support	n/a	n/a

AHD TURRET CAMERAS						
CATEGORY	UHDT228X	UHDT2EC28X	UHDT2C28X	UHDT528X	UHDT5EC28X	UHDT5C28X
MODEL						
Video						
Resolution	2MP 1920 x 1080	2MP 1920 x 1080	2MP 1920 x 1080	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620
Protocol	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS
Frame Rates	TVI / AHD / CVI: 1080P @ 30fps, 1080P @ 25fps; 720P @ 30fps, 720P @ 25fps CVBS: NTSC, PAL	TVI / AHD / CVI: 1080P @ 30fps, 1080P @ 25fps; 720P @ 30fps, 720P @ 25fps CVBS: NTSC, PAL	TVI / AHD / CVI: 1080P @ 25fps, 1080P @ 25fps; 720P @ 30fps, 720P @ 25fps CVBS: NTSC, PAL	TVI: 5MP @ 20fps, 5MP @ 12.5fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps AHD: 5MP @ 20fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVI: 5MP @ 25fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVBS: NTSC, PAL	TVI: 5MP @ 20fps, 5MP @ 12.5fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps AHD: 5MP @ 20fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVI: 5MP @ 25fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVBS: NTSC, PAL	TVI: 5MP @ 20fps, 5MP @ 12.5fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps AHD: 5MP @ 20fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVI: 5MP @ 25fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVBS: NTSC, PAL
Lens	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm
Chipset	Fullhan	Fullhan	Fullhan	Fullhan	Fullhan	Fullhan
Sensor	1/3" CMOS	1/3" CMOS	1/2.9" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
IR LED Max Range	65ft (20M)	n/a	n/a	65ft (20M)	n/a	n/a
White Light Illuminators Range	n/a	One; 65ft (20M)	Two; 130ft (40M)	n/a	One; 65ft (20M)	Two; 130ft (40M)
Min Scene Illum (Lux)	0.02 (Col); 0 (BW, w/ IR)	0.02 (Col); 0 (BW, w/ white light on)	0.005 (Col); 0 (BW, w/ white light on)	0.02 (Col); 0 (BW, w/ IR)	0.02 (Col); 0 (BW, w/ white light on)	0.005 (Col); 0 (BW, w/ white light on)
WDR	Digital	Digital	Digital	Digital	Digital	Digital
General						
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes
Material	Plastic	Plastic	Metal	Plastic	Plastic	Metal
Power Interface	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel
Video Output	BNC	BNC	BNC	BNC	BNC	BNC
Alarm I / O	n/a	n/a	n/a	n/a	n/a	n/a
Audio I / O	n/a	n/a	1 / 0 B/I Mic	n/a	n/a	1 / 0 B/I Mic
Operating Temp Range	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Conformity Cert's	IP67	IP67	IP67	IP67	IP67	IP67
Power	12VDC 2.88W	12VDC 2.4W	2.13W	12VDC 3.6W	12VDC 2.4W	12VDC 3.28W

AHD TURRET CAMERAS						
CATEGORY	UHD8228X	UHD82EC28X	UHD82C28X	UHD8528X	UHD85EC28X	UHD85C28X
MODEL						
Video						
Resolution	2MP 1920 x 1080	2MP 1920 x 1080	2MP 1920 x 1080	5MP 2880 x 1620	5MP 2880 x 1620	5MP 2880 x 1620
Protocol	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS
Frame Rates	TVI / AHD / CVI: 1080P @ 30fps, 1080P @ 25fps; 720P @ 30fps, 720P @ 25fps CVBS: NTSC, PAL	TVI / AHD / CVI: 1080P @ 30fps, 1080P @ 25fps; 720P @ 30fps, 720P @ 25fps CVBS: NTSC, PAL	TVI / AHD / CVI: 1080P @ 25fps, 1080P @ 25fps; 720P @ 30fps, 720P @ 25fps CVBS: NTSC, PAL	TVI: 5MP @ 20fps, 5MP @ 12.5fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps AHD: 5MP @ 20fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVI: 5MP @ 25fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVBS: NTSC, PAL	TVI: 5MP @ 20fps, 5MP @ 12.5fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps AHD: 5MP @ 20fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVI: 5MP @ 25fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVBS: NTSC, PAL	TVI: 5MP @ 20fps, 5MP @ 12.5fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps AHD: 5MP @ 20fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVI: 5MP @ 25fps, 4MP @ 30fps, 4MP @ 25fps, 1080P @ 30fps, 1080P @ 25fps CVBS: NTSC, PAL
Lens	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm
Chipset	Fullhan	Fullhan	Fullhan	Fullhan	Fullhan	Fullhan
Sensor	1/3" CMOS	1/3" CMOS	1/2.9" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
IR LED Max Range	65ft (20M)	n/a	n/a	65ft (20M)	n/a	n/a
White Light Illuminators Range	n/a	One; 65ft (20M)	Two; 130ft (40M)	n/a	One; 65ft (20M)	Two; 130ft (40M)
Min Scene Illum (Lux)	0.02 (Col); 0 (BW, w/ IR)	0.02 (Col); 0 (BW, w/ white light on)	0.005 (Col); 0 (BW, w/ white light on)	0.02 (Col); 0 (BW, w/ IR)	0.02 (Col); 0 (BW, w/ white light on)	0.005 (Col); 0 (BW, w/ white light on)
WDR	Digital	Digital	Digital	Digital	Digital	Digital
General						
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes
Material	Plastic	Plastic	Metal	Plastic	Plastic	Metal
Power Interface	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel	5.5mm Barrel
Video Output	BNC	BNC	BNC	BNC	BNC	BNC
Alarm I / O	n/a	n/a	n/a	n/a	n/a	n/a
Audio I / O	n/a	n/a	1 / 0 B/I Mic	n/a	n/a	1 / 0 B/I Mic
Operating Temp Range	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Conformity Cert's	IP67	IP67	IP67	IP67	IP67	IP67
Power	12VDC 2.88W	12VDC 2.44W	12VDC 3.12W	12VDC 3.6W	12VDC 2.4W	12VDC 3.28W

CATEGORY	AHD HYBRID VIDEO RECORDERS (HVR)		
MODEL	HNR041X	HNR081X	HNR162X
			
Video & Audio Inputs			
Analog Video	4-ch, BNC	8-ch, BNC	16-ch, BNC
IP Video	2-ch (only IP up to 6-ch), each channel up to 4MP	4-ch (only IP up to 12-ch), each channel up to 8MP	8-ch (only IP up to 24-ch), each channel up to 8MP
Supported Analog Camera Types	AHD Input: 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps TVI Input: 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps CVI Input: 8MP @ 15fps, 5MP @ 25fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps CVBS Input	AHD Input: 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps TVI Input: 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps CVI Input: 8MP @ 15fps, 5MP @ 25fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps CVBS Input	AHD Input: 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 60fps TVI Input: 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 60fps CVI Input: 8MP @ 15fps, 5MP @ 25fps, 4MP @ 30fps, 1080p @ 30fps, 720p @ 30fps CVBS Input
Audio	1-ch, RCA	1-ch, RCA	1-ch, RCA
Audio Compression	G.711U	G.711U	G.711U
Video & Audio Outputs			
CVBS Output	1-ch, BNC	1-ch, BNC	1-ch, BNC
VGA Output	1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
HDMI Output	3840 x 2160 / 30Hz, 1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	3840 x 2160 / 30Hz, 1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	3840 x 2160 / 30Hz, 1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
Audio Output	1-ch, RCA	1-ch, RCA	1-ch, RCA
Synchronous Playback	4	8	16
Live view display	HDMI / VGA: 1 / 4 / 6 / 8 / 9	HDMI / VGA: 1 / 4 / 6 / 8 / 9 / 16	HDMI / VGA: 1 / 4 / 6 / 8 / 9 / 16 / 25
Two-way Audio	1-ch, RCA	1-ch, RCA	1-ch, RCA
Network			
Incoming Bandwidth	40Mbps (Up to 48Mbps after all analog channel conversion)	40Mbps (Up to 56Mbps after all analog channel conversion)	80Mbps (Up to 112Mbps after all analog channel conversion)
Outgoing Bandwidth	48Mbps	64Mbps	160Mbps
Remote Users	128	128	128
Protocols	TCP/IP, P2P, UPnP, DHCP, HTTP, HTTPS, DNS, DDNS, SMTP	TCP/IP, P2P, UPnP, DHCP, HTTP, HTTPS, DNS, DDNS, SMTP	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SMTP
Supported Browsers	IE (IE10/11) for Windows Firefox (version 52.0 and above) for Windows Chrome (version 45 and above) for Windows Edge (version 79 and above) for Windows	IE (IE10/11) for Windows Firefox (version 52.0 and above) for Windows Chrome (version 45 and above) for Windows Edge (version 79 and above) for Windows	IE (IE10/11) for Windows Firefox (version 52.0 and above) for Windows Chrome (version 45 and above) for Windows Edge (version 79 and above) for Windows
Encoding			
Recording Resolution	8MP Lite / 5MP Lite / 4MP Lite / 1080P / 720P / CIF	8MP Lite / 5MP Lite / 4MP Lite / 1080P / 720P / CIF	8MP Lite / 5MP Lite / 4MP Lite / 1080P / 720P / CIF
Recording Frame Rate	Main Stream: 8MP Lite @ 8fps, 5MP Lite @ 12fps, 4MP Lite @ 15fps, 1080p @ 15fps, 720p @ 30fps Sub-Stream: D1 @ 8fps, D1 @ 12fps, D1 @ 15fps, D1 @ 15fps, D1 @ 30fps	Main Stream: 8MP Lite @ 8fps, 5MP Lite @ 12fps, 4MP Lite @ 15fps, 1080p @ 15fps, 720p @ 30fps Sub-Stream: D1 @ 8fps, D1 @ 12fps, D1 @ 15fps, D1 @ 15fps, D1 @ 30fps	Main Stream: 8MP Lite @ 8fps, 5MP Lite @ 12fps, 4MP Lite @ 15fps, 1080p @ 15fps, 720p @ 30fps Sub-Stream: D1 @ 8fps, D1 @ 12fps, D1 @ 15fps, D1 @ 15fps, D1 @ 30fps
Audio Sample Rate	8KHz, 16 bit per channel	8KHz, 16 bit per channel	8KHz, 16 bit per channel
Audio Bit Rate	64Kbps per channel	64Kbps per channel	64Kbps per channel
Decoding			
Frame Rate Capability	Analog: 4 x 8MP Lite @ 8, 4 x 5MP Lite @ 12, 4 x 4MP Lite @ 15, 4 x 1080P @ 15 IP: 1 x 4MP @ 30, 2 x 1080p @ 30	Analog: 8 x 8MP Lite @ 8, 8 x 5MP Lite @ 12, 8 x 4MP Lite @ 15, 8 x 1080P @ 15 IP: 1 x 8MP @ 30, 2 x 4MP @ 30, 4 x 1080p @ 30	Analog: 16 x 8MP Lite @ 8, 16 x 5MP Lite @ 12, 16 x 4MP Lite @ 15, 16 x 1080P @ 15, 16 x 720P @ 30 IP: 24 x D1 @ 30, 16 x 720P @ 30, 8 x 1080P @ 30
Hard Disk Drive			
SATA	1 Interface	1 Interface	2 Interfaces
Maximum Capacity	Up to 10TB	Up to 10TB	Up to 10TB
System Alarm			
General	Motion Detection	Motion Detection	Motion Detection
Alert	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording / Snapshot Abnormal	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording / Snapshot Abnormal	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording / Snapshot Abnormal
External Interfaces			
Network	1 x RJ45 10M/100M self-adaptive Ethernet Interface	1 x RJ45 10M/100M self-adaptive Ethernet Interface	1 x RJ45 10M/100M self-adaptive Ethernet Interface
USB	Rear panel: 2 x USB2.0	Rear panel: 2 x USB2.0	Rear panel: 1 x USB3.0 Front panel: 1 x USB2.0
RS232	n/a	n/a	n/a
RS485	1	1	1
Alarm In	4 – Terminal Strip	4 – Terminal Strip	4 – Terminal Strip
Alarm Out	1 – Terminal Strip	1 – Terminal Strip	1 – Terminal Strip
General			
NDAA Compliant	Yes	Yes	Yes
Power Supply	12V DC; Power Consumption: ≤ 10 W (without HDD)	12V DC; Power Consumption: ≤ 10 W (without HDD)	12V DC; Power Consumption: ≤ 12 W (without HDD)
Working Environment	-10°C ~ + 55°C (+14°F ~ +131°F), Humidity ≤ 90% RH(non-condensing)	-10°C ~ + 55°C (+14°F ~ +131°F), Humidity ≤ 90% RH(non-condensing)	-10°C ~ + 55°C (+14°F ~ +131°F), Humidity ≤ 90% RH(non-condensing)
Dimensions	260 × 226 × 47mm (10.2 × 8.9 × 1.8")	260 × 226 × 47mm (10.2 × 8.9 × 1.8")	380 × 326 × 53mm (15.0 × 12.8 × 2.1")
Weight	1.1Kg (2.42lb)	1.1Kg (2.42lb)	≤2.0 Kg (4.4lb)
Certifications	FCC, CE (UL – Power Supply only)	FCC, CE (UL – Power Supply only)	FCC, CE (UL – Power Supply only)