

Quick Reference Guide

CATEGORY	VANDAL DOME CAMERAS																		
MODEL																			
Video																			
Resolution / Description	4MP, White	4MP, White	4MP, Black	4MP, White	4MP, LightHunter, AI, White	4MP, LightHunter, White	4MP, LightHunter, Low Profile, White	4MP, Dual Lens, MultiView, White	4MP, White	4MP, LightHunter, AI, White	5MP, White	5MP, LightHunter, White	5MP, LightHunter, White	5MP, LightHunter, White	5MP, LightHunter, White	4 x 5MP MultiView, LightHunter, AI, White	4K (8MP), AI, White	4K (8MP), AI, White	4K (8MP), LightHunter, White
FPS @ Max Resolution	30 @ 2560 x 1440	25 @ 2688 x 1520	25 @ 2688 x 1520	25 @ 2688 x 1520	30 @ 2688 x 1520	30 @ 2688 x 1520	30 @ 2688 x 1520	25 @ 2688 x 1520	25 @ 2560 x 1440	25 @ 2688 x 1520	30 @ 2688 x 1520	25 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	20 @ 3840 x 2160	20 @ 3840 x 2160	20 @ 3840 x 2160
Lens	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 4mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.8~12mm	MVF 2.7~13.5mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.7~13.5mm	MVF 2.7~13.5mm	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	Mstar	Mstar	Mstar
Sensor	1/2.9" 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	1/3" 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	1/2.8" CMOS
IR LED Max Range	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	98ft (30M)	164ft (50M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	131ft (40M)
Min Scene Illum (Lux)	0.01 (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)	0.005 (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)	0.002 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.003 (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	120dB	120dB
Corridor Mode	n/a	Yes	Yes	Yes	Yes	Yes	Yes	n/a	n/a	Yes	Yes	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video Streams	2	2	3	3	3	3	3	3	2	2	3	2	3	3	3	2	2	3	3
General																			
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Material	Metal	Plastic	Plastic	Plastic	Metal	Metal	Plastic	Metal	Metal	Metal	Metal	Plastic	Metal	Metal	Metal	Plastic	Metal	Metal	Metal
Onboard Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alarm I / O	n/a	n/a	n/a	n/a	1 / 1	1 / 1	1 / 1	1 / 1	n/a	n/a	1 / 1	n/a	1 / 1	1 / 1	1 / 1	3 / 2	n/a	1 / 1	1 / 1
Audio I / O	0 / 0 B/I Mic	0 / 0 B/I Mic	n/a	n/a	1 / 1 B/I Mic	1 / 1 B/I Mic	1 / 1 B/I Mic	1 / 1 B/I Mic	0 / 0 B/I Mic	1 / 1 B/I Mic	0 / 0 B/I Mic	1 / 1 B/I Mic	1 / 1	1 / 1 B/I Mic	1 / 1 B/I Mic	1 / 1 B/I Mic	0 / 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)	-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, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	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 4W	12VDC / PoE 5.5W	12VDC / PoE 5.5W	12VDC / PoE 5.5W	12VDC / PoE 4.5W	12VDC / PoE 6.5W	12VDC / PoE 6W	12VDC / PoE 9.1W	12VDC / PoE 6W	12VDC / PoE 8W	12VDC / PoE 7W	12VDC / PoE 4.4W	12VDC / PoE 7W	12VDC / PoE 6.5W	12VDC / PoE 7W	12VDC / PoE 48.7W	12VDC / PoE 6W	12VDC / PoE 9W	
SMART Detection Features																			
Motion	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Ultra Motion	n/a	Support	Support	Support	Support	Support	Support	Support	n/a	n/a	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	Support	Support	Support
Audio	Support	Support	n/a	n/a	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	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	n/a	n/a
Cross Line	n/a	Support	Support	Support	n/a	n/a	n/a	n/a	n/a	Support	n/a	Support	n/a	n/a	n/a	Support	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	n/a	n/a	n/a	Support	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	Support	n/a	n/a	n/a
Intrusion	n/a	Support	Support	Support	n/a	n/a	n/a	n/a	Support	Support	Support	Support	n/a	n/a	n/a	Support	Support	n/a	n/a
Human Body	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a	Support	Support	n/a	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a
Deep Learning SMART Features																			
Smart Intrusion	n/a	n/a	n/a	n/a	Support	Support	Support	Support	n/a	n/a	Support	n/a	Support	Support	Support	Support	n/a	Support	Support
People Counting	n/a	n/a	n/a	n/a	Support	Support	Support	Support	n/a	n/a	Support	n/a	Support	Support	Support	Support	n/a	Support	Support
People Flow Counting	n/a	n/a	n/a	n/a	Support	Support	Support	Support	n/a	n/a	Support	n/a	Support	Support	Support	Support	n/a	Support	Support
Crowd Density Monitoring	n/a	n/a	n/a	n/a	Support	Support	Support	Support	n/a	n/a	Support	n/a	Support	Support	Support	Support	n/a	Support	Support
Face Capture	n/a	n/a	n/a	n/a	Support	Support	Support	Support	n/a	n/a	Support	n/a	Support	Support	Support	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	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	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	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Color Retrieval	n/a	n/a	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	n/a	n/a

CATEGORY	TURRET CAMERAS																						
MODEL	IPT4B28X	IPT4E528X	IPT428AIX	IPT4M28X	IPT4U212MX	IPT4B212MX	IPT4213MAIX	IPT4W128X	IPHT426X	IPTS5E28X	IPT5180X	IPTS5C28X	IPTS28AIX	IPT5M28X	IPTS213MX	IPT4KE528X	IPT4KE528BX	IPT4K28AIX	IPT4K28AIBX	IPT4K28TAIX	IPT4K212MX	IPT4K180X	IPT4KW128X
																							
Video																							
Resolution / Description	4MP, White	4MP, White	4MP, LightHunter, Ai, White	4MP, LightHunter, White	4MP, White	4MP, White	4MP, LightHunter, Ai, White	4MP, ColorHunter+, Ai, White	4MP, Thermal / Optical, White	5MP, Ai, White	5MP, Pano 180°, Ai, White	5MP, ColorHunter, Ai, White	5MP, LightHunter, White	5MP, LightHunter, Ai, White	5MP, LightHunter, White	4K (8MP), Ai, White	4K (8MP), Ai, Black	4K (8MP), Ai, White	4K (8MP), Ai, Black	4K (8MP), ColorHunter, Ai, White	4K (8MP), LightHunter, Ai, White	4MP, Pano 180°, Ai, White	4K (8MP), ColorHunter+, Ai, White
FPS @ Max Resolution	25 @ 2560 x 1440	25 @ 2688 x 1520	30 @ 2688 x 1520	30 @ 2688 x 1520	25 @ 2560 x 1440	25 @ 2688 x 1520	30 @ 2688 x 1520	25 @ 2688 x 1520	30 @ 2688 x 1520	25 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	25 @ 2880 x 1620	20 @ 3840 x 2160	20 @ 3840 x 2160	20 @ 3840 x 2160	20 @ 3840 x 2160	20 @ 3840 x 2160	20 @ 3840 x 2160	30 @ 3840 x 2160	20 @ 3840 x 2160
Lens	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.8~12mm	MVF 2.7~13.5mm	Fixed 2.8mm	Fixed 2.8mm	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	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	Pano 1.68mm	Fixed 2.8mm
Chipset	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar
Sensor	1/2.9" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.7" 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	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
IR LED Max Range	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	164ft (50M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	66ft (20M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	66ft (20M)	131ft (40M)	131ft (40M)
Min Scene Illum (Lux)	0.01 (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)	0.003 (Col); 0 (BW, w/ IR)	0.0003 (Col)	0.01 (Col)	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)	0.003 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.0025 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.0003 (Col)
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	DWDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Corridor Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	n/a	n/a	Yes	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	n/a	Yes
Video Streams	2	2	3	3	2	2	3	2	2	3	3	3	3	3	3	2	2	3	3	3	3	3	2
General																							
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Material	Metal	Plastic	Metal	Metal	Metal	Metal	Metal	Plastic	Metal	Plastic	Metal	Metal	Metal	Metal	Metal	Plastic	Plastic	Metal	Metal	Metal	Metal	Metal	Plastic
Onboard Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	n/a	Yes	Yes	Yes	Yes	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	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Audio I / O	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 0 B/I Mic	B/I Mic & Spkr	0 / 0 B/I Mic	0 / 0 B/I Mic	0 / 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)	-40°C ~ 70°C (-40°F ~ 158°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	IP67, IK10	IP67	IP67	IP67	IP67, IK10	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67, IK10	IP67, IK10	IP67
Power	12VDC / PoE 4W	12VDC / PoE 4.4W	12VDC / PoE 4W	12VDC / PoE 6.5W	12VDC / PoE 6W	12VDC / PoE 7.5W	12VDC / PoE 7W	12VDC / PoE 2.8W	12VDC / PoE 12W	12VDC / PoE 2.8W	12VDC / PoE 5.5W	12VDC / PoE 7W	12VDC / PoE 9W	12VDC / PoE 6.5W	12VDC / PoE 7W	12VDC / PoE 4.5W	12VDC / PoE 5W	12VDC / PoE 5W	12VDC / PoE 8W	12VDC / PoE 8W	12VDC / PoE 8W	12VDC / PoE 5.5W	12VDC / PoE 3.9W
SMART Detection Features																							
Motion	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Ultra Motion	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	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	Support	Support	Support	Support	Support	Support	Support
Audio	Support	Support	Support	Support	Support	Support	Support	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	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	n/a	n/a	n/a	n/a	n/a	n/a
Cross Line	n/a	Support	n/a	n/a	n/a	Support	n/a	Support	Support	Support	n/a	n/a	n/a	n/a	n/a	Support	Support	n/a	n/a	n/a	n/a	Support	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	n/a	n/a	n/a	n/a	Support	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	n/a	n/a	n/a	n/a	Support	n/a
Intrusion	n/a	Support	n/a	n/a	Support	Support	n/a	Support	Support	Support	n/a	n/a	n/a	n/a	n/a	Support	Support	n/a	n/a	n/a	n/a	Support	n/a
Deep Learning SMART Features																							
Smart Intrusion	n/a	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	n/a	Support	n/a	Support	Support	Support	n/a	n/a	Support	Support	Support	Support	Support	n/a
People Counting	n/a	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	Support	Support	Support	n/a	n/a	Support	Support	Support	Support	n/a	n/a
People Flow Counting	n/a	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	Support	Support	Support	n/a	n/a	Support	Support	Support	Support	n/a	n/a
Crowd Density Monitoring	n/a	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	Support	Support	Support	n/a	n/a	Support	Support	Support	Support	n/a	n/a
Face Capture	n/a	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	Support	Support	Support	n/a	n/a	Support	Support	Support	Support	n/a	n/a
Color Retrieval	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	Support	Support	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Quick Reference Guide

CATEGORY	IP BULLET CAMERAS																		
MODEL	IPLPRB2447MX	IPB4B28X	IPB4E528X	IPB428AIX	IPB4U212MX	IPB4B212MX	IPB4213MAIX	IPB46143MX	IPTHB480X	IPB528X	IPB5M28X	IPB5213MX	IPB5180X	IPB4KE528X	IPB4K28AIX	IPB4K212MX	IPB4K180X	IPBP4K180X	IPBP16180
																			
Video																			
Resolution / Description	2MP LPR, White	4MP, White	4MP, White	4MP LightHunter, AI, White	4MP, White	4MP, White	4MP, LightHunter, AI, White	4MP Long Range, LightHunter, White	4MP, Thermal / Optical, White	5MP, LightHunter, White	5MP, LightHunter, White	5MP, LightHunter, White	5MP, Pano 180°, AI, White	4K (8MP), White	4K (8MP), AI, White	4K (8MP), White	4K (8MP), Pano 180°, AI, White	4K (8MP), Wide Angle, ColorHunter, White	16MP, Multi-Sensor, LightHunter, White
FPS @ Max Resolution	60 @ 1920 x 1080	25 @ 2560 x 1440	25 @ 2655 x 1520	30 @ 2655 x 1520	25 @ 2560 x 1440	25 @ 2655 x 1520	30 @ 2655 x 1520	30 @ 2655 x 1520	30 @ 2655 x 1520	25 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	30 @ 2880 x 1620	20 @ 3840 x 2160	20 @ 3840 x 2160	20 @ 3840 x 2160	30 @ 5120 x 1440	20 @ 5120 x 1440	30 @ 4800 x 2688
Lens	MVF 4.7 ~ 47mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	MVF 2.8~12mm	MVF 2.7~13.5mm	MVF 6.5~143mm	Fixed 8mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.7~13.5mm	Pano 1.68mm	Fixed 2.8mm	Fixed 2.8mm	MVF 2.8~12mm	Pano 1.68mm	2x Fixed 4mm	4x Fixed 2.8mm
Chipset	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Mstar	Hisilicon
Sensor	1/2.8" CMOS	1/2.9" CMOS	1/3" CMOS	1/3" CMOS	1/2.7" CMOS	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS	4x 1/1.8" CMOS
IR LED Max Range	164ft (50M)	98ft (30M)	164ft (50M)	131ft (40M)	164ft (50M)	164ft (50M)	492ft (150M)	164ft (50M)	131ft (40M)	262ft (80M)	164ft (50M)	164ft (50M)	66ft (20M)	98ft (30M)	164ft (50M)	66ft (20M)	98ft (30M)	164ft (50M)	164ft (50M)
Min Scene Illum (Lux)	0.001 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.005 (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)	0.002 (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)	0.01 (Col); 0 (BW, w/ IR)	0.0005 (Col)	0.001 (Col); 0 (BW, w/ IR)
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	130dB	Digital
Corridor Mode	n/a	n/a	Yes	Yes	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Video Streams	3	2	2	3	2	2	3	3	3	3	3	3	3	2	3	3	3	2	3
General																			
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Material	Metal	Plastic	Plastic	Plastic	Metal	Plastic	Metal	Metal	Metal	Plastic	Metal	Metal	Metal	Metal	Plastic	Metal	Metal	Metal	Metal
Onboard Storage	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alarm I / O	2 / 1	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	2 / 1	2 / 2	0 / 0	1 / 1	1 / 1	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0	1 / 1	2 / 1
Audio I / O	1 / 1	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	1 / 1	1 / 1	0 / 0	1 / 1	1 / 1	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0	1 / 1	1 / 1
		B/I Mic	B/I Mic	B/I Mic	B/I Mic	B/I Mic	B/I Mic	B/I Mic & Spkr	B/I Mic	B/I Mic	B/I Mic	B/I Mic	B/I Mic	B/I Mic	B/I Mic & Spkr	B/I Mic	B/I Mic & Spkr	B/I Mic x 2 & Spkr	B/I Mic
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)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 158°F)	-40°C ~ 70°C (-40°F ~ 158°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 ~ 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	IP67, IK10	IP67, IK10
Power	12VDC / PoE 20W	12VDC / PoE 5.5W	12VDC / PoE 6W	12VDC / PoE 4W	12VDC / PoE 7.5W	12VDC / PoE 9.6W	12VDC / PoE 8.5W	12VDC / PoE 21W	12VDC / PoE 12W	12VDC / PoE 4.4W	12VDC / PoE 10W	12VDC / PoE 8W	12VDC / PoE 5.5W	12VDC / PoE 6.9W	12VDC / PoE 10.5W	12VDC / PoE 10.5W	12VDC / PoE 5.5W	12VDC / PoE 13W	24VAC/24VDC (injector) 27W
SMART Detection Features																			
Motion	n/a	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Ultra Motion	n/a	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	Support	Support	Support	Support	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	Support	Support
Audio	n/a	Support	Support	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	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	n/a	n/a
Cross Line	n/a	n/a	Support	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a
Enter Area	n/a	n/a	n/a	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	Support	Support	n/a
Leave Area	n/a	n/a	n/a	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	Support	Support	n/a
Intrusion	n/a	n/a	Support	n/a	Support	Support	n/a	n/a	Support	n/a	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a
Human Body	n/a	n/a	n/a	n/a	Support	Support	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Support	n/a
Deep Learning SMART Features																			
Smart Intrusion	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	Support	Support	Support	n/a	Support	Support	Support	Support	n/a
People Counting	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	Support	Support	n/a	n/a	Support	Support	n/a	n/a	n/a
People Flow Counting	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	Support	Support	n/a	n/a	Support	Support	n/a	Support	n/a
Crowd Density Monitoring	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	Support	Support	n/a	n/a	Support	Support	n/a	Support	n/a
Face Capture	n/a	n/a	n/a	Support	n/a	n/a	Support	Support	n/a	Support	Support	Support	n/a	n/a	Support	Support	n/a	n/a	n/a
Color Retrieval	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Support	n/a	n/a	n/a	n/a	n/a	n/a	Support	n/a

Quick Reference Guide

CATEGORY	PTZ						FISHEYE	
MODEL	IPCSD2428X	IPCSD416X	IPCSD425X	IPCSD54X	IPCSD4K25X	MODEL	IPFE5360X	IPFE12360X
								
Video								
Resolution / Description	2MP, Dual Lens, 4x, White	4MP, LightHunter, 16x, White	4MP, LightHunter, 25x, White	5MP, Active Deterrence, 4x, White	4K (8MP), LightHunter, 25x, White	Resolution / Description	5MP, Panoramic 360° Fisheye, White	12MP, Panoramic 360° Fisheye, White
FPS @ Max Resolution	25 @ 1920 x 1080	30 @ 2688 x 1520	30 @ 2688 x 1520	30 @ 2880 x 1620	30 @ 3840 x 2160	FPS @ Max Resolution	30 @ 2592 x 1944	20 @ 4000 x 3000
Lens	Fixed 2.8mm & MVF 4x, 2.8~12mm	MVF 16x 5.5~88mm	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	1/2.9" 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	164ft (50M)	328ft (100M)	328ft (100M)	164ft (50M)	656ft (200M)	IR LED Max Range	33ft (10M)	49ft (15M)
Min Scene Illum (Lux)	0.002 (Col); 0 (BW, w/ IR)	0.005 (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	Yes	n/a	n/a	n/a	n/a	Corridor Mode	n/a	n/a
Video Streams	2	2	3	3	3	Video Streams	3	3
General								
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	NDAA Compliant	Yes	Yes
Material	Metal	Metal	Metal	Metal	Metal	Material	Metal	Metal
Onboard Storage	n/a	Yes	Yes	Yes	Yes	Onboard Storage	Yes	Yes
Alarm I / O	n/a	2 / 1	2 / 1	1 / 1	2 / 1	Alarm I / O	1 / 1	2 / 1
Audio I / O	B/I Spkr & 2 x Mic	1 / 1	1 / 1	B/I Mic & Spkr	1 / 1	Audio I / O	1 / 1 B/I Mic x 2	B/I Mic x 2 & Spkr
Operating Temp Range	-20°C ~ 60°C (-4°F ~ 140°F)	-40°C ~ 70°C (-40°F ~ 158°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, IK10	IP67, IK10	IP66	IP66	Conformity Cert's	IP67, IK10	IP67, IK10
Power	12VDC / PoE 16W	12VDC / PoE 21W	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	n/a	Support	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	n/a	Support	Support	Support	People Counting	n/a	n/a
People Flow Counting	Support	n/a	Support	Support	Support	People Flow Counting	n/a	n/a
Crowd Density Monitoring	n/a	n/a	Support	Support	Support	Crowd Density Monitoring	n/a	n/a
Face Capture	n/a	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	n/a	Support	Support	Support	Support	Auto Tracking	n/a	n/a
Panoramic Linkage	Support	n/a	n/a	n/a	n/a	Panoramic Linkage	n/a	n/a

Quick Reference Guide

CATEGORY	NETWORK VIDEO RECORDERS (NVR)										
MODEL	NR041XP	NR081XP	NR162XPC	NR164X	NR164XPQ	NR324XPC	NR324XPQ	NR648XC	NR6416X	NR12816X	
Video & Audio Inputs											
Video Inputs	4	8	16	16	16	32	32	64	64	128	
Audio Inputs	1	1	1	1	1	1	1	1	1	1	
Video & Audio Outputs											
HDMI / VGA Output	HDMI: 4K (3840 x 2160) / 30Hz, 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz VGA: 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	HDMI: 4K (3840 x 2160) / 30Hz, 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz VGA: 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	HDMI: 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 VGA: 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: 4K (3840 x 2160) / 30Hz, 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz VGA: 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	HDMI: 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 VGA: 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: 4K (3840 x 2160) / 30Hz, 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz VGA: 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	HDMI: 4K (3840 x 2160) / 30Hz, 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz VGA: 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	HDMI 1 / HDMI 2: 3840 x 2160 / 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 VGA 1 / VGA 2: 1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz	HDMI1: 8K(7680x4320) @60Hz HDMI1&2: 4K(3840x2160) @30Hz, 1920x1080 @60Hz, 1920x1080 @50Hz, 1600x1200 @60Hz, 1280x1024 @60Hz, 1280x720 @60Hz, 1024x768 @60Hz VGA1&2: 1920x1080 @60Hz, 1920x1080 @50Hz, 1600x1200 @60Hz, 1280x1024 @60Hz, 1280x720 @60Hz, 1024x768 @60Hz	HDMI1: 8K(7680x4320) @60Hz HDMI1&2: 4K(3840x2160) @30Hz, 1920x1080 @60Hz, 1920x1080 @50Hz, 1600x1200 @60Hz, 1280x1024 @60Hz, 1280x720 @60Hz, 1024x768 @60Hz	
Recording Resolution	4K / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	4K / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	12MP / 4K / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	32MP / 16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	32MP/16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF	32MP/16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF	
Audio Output	1-ch, RCA	1-ch, RCA	1-ch, RCA	1-ch, RCA	1-ch, RCA	1-ch, RCA	1-ch, RCA	2-ch, RCA	2-ch, RCA	2-ch, RCA	
Audio Compression	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	G.711A, G.711U	
Synchronous Playback	4-ch	8-ch	16-ch	16-ch	16-ch	16-ch	16-ch	16-ch	16-ch	16-ch	
Live View Display (per monitor)	1 / 4	1 / 4 / 6 / 8 / 9	1 / 4 / 6 / 8 / 9 / 16	1 / 4 / 6 / 8 / 9 / 16	1 / 4 / 6 / 8 / 9 / 16	1 / 4 / 6 / 8 / 9 / 16 / 25 / 32	1 / 4 / 6 / 8 / 9 / 16 / 25 / 32	HDMI 1 / VGA 1: 1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 64; HDMI 2 / VGA 2: 1 / 4 / 6 / 8 / 9 / 16 / 25 / 36	1 / 4 / 6 / 8 / 9 / 16 / 32 / 64	1 / 4 / 6 / 8 / 9 / 16 / 32 / 64	
Total Live Display (combined all monitor outputs)	4	9	32	32	32	64	64	128	64	64	
Corridor Mode Screen	3 / 4	3 / 4 / 5 / 7 / 9	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32	
Snapshot											
FTP / Schedule / Event Snapshot	4-ch snapshot, up to D1 resolution	4-ch snapshot, up to D1 resolution	4-ch snapshot, up to D1 resolution	16-ch snapshot, up to 1080P resolution	4-ch snapshot, up to 4K video or 1080P image resolution	4-ch snapshot, up to D1 resolution	4-ch snapshot, up to D1 resolution	16-ch snapshot, up to 1080p resolution	64-ch snapshot, up to 1080P resolution	128-ch snapshot, up to 1080P resolution	
Network											
Incoming Bandwidth	80Mbps	80Mbps	320Mbps	384Mbps	320Mbps	320Mbps	320Mbps; Smart: 160Mbps	384Mbps	640Mbps	640Mbps	
Outgoing Bandwidth	64Mbps	64Mbps	160Mbps	384Mbps	160Mbps	160Mbps	160Mbps	384Mbps	640Mbps	640Mbps	
Remote Users	128	128	128	128	128	128	128	128	128	128	
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPV6	P2P, UPnP, NTP, DHCP, PPPoE	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPV6, IPV4	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, NFS, TSP, 802.1x, IPV6	TCP/IP, P2P, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, RTSP, 802.1x, IPV6	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, 802.1x, IPV6	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, 802.1x, IPV6	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, 802.1x, IPV6	
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	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	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	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
Decoding											
Format	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	
Live View / Playback	4K / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	4K / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	12MP / 4K / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	32MP / 16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF	32MP/16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF	
Capability (fps)	Ultra 265 / H.265: 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080p @ 30 H.264: 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080p @ 30	Ultra 265 / H.265: 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080p @ 30 H.264: 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080p @ 30	Ultra 265 / H.265: 2 x 16MP @ 30, 2 x 12MP @ 30, 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080p @ 30 H.264: 2 x 16MP (4800 x 2688) @ 30, 2 x 12MP @ 30, 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080P @ 30	2 x 12MP @ 30, 4 x 4K @ 30, 8 x 4MP @ 30, 9 x 4MP @ 25, 16 x 1080P @ 30	Ultra 265 / H.265: 2 x 16MP @ 30, 2 x 12MP @ 30, 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080p @ 30 H.264: 2 x 16MP (4800 x 2688) @ 30, 2 x 12MP @ 30, 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080P @ 30	Ultra 265 / H.265: 2 x 16MP @ 30, 2 x 12MP @ 30, 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080p @ 30 H.264: 2 x 16MP (4800 x 2688) @ 30, 2 x 12MP @ 30, 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080P @ 30	Ultra 265 / H.265: 2 x 16MP @ 30, 2 x 12MP @ 30, 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080p @ 30 H.264: 2 x 16MP (4800 x 2688) @ 30, 2 x 12MP @ 30, 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080P @ 30	2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30 Smart: 2 x 12MP@30, 2 x 4K@30, 6 x 4MP@30, 8 x 3MP@30, 12 x 1080P@30, 16 x 720P@30	2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8 x 4K@30, 12 x 5MP@30, 16 x 4MP@30, 20 x 3MP@30, 32 x 1080P@30, 54 x 960P@30, 64 x 720P@30	2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8 x 4K@30, 12 x 5MP@30, 16 x 4MP@30, 20 x 3MP@30, 32 x 1080P@30, 54 x 960P@30, 64 x 720P@30	
Hard Disk Drive											
SATA	1 Interface	1 Interface	2 Interfaces	4 Interfaces	4 Interfaces	4 Interfaces	4 Interfaces	8 Interfaces	16 Interfaces	16 Interfaces	
Maximum Capacity	Up to 8TB	Up to 8TB	Up to 10TB for each	Up to 10TB for each	Up to 12TB for each	Up to 10TB for each	Up to 12TB for each	Up to 12TB for each	Up to 16TB for each	Up to 16TB for each	
Disk Array	n/a	n/a	n/a	RAID 1, 5	RAID 1, 5	n/a	support	n/a	RAID 0, 1, 5, 6, 10, 50, 60	RAID 0, 1, 5, 6, 10, 50, 60	
Extension Board	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
eSATA / Mini-SAS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1 eSATA Interface / 0	1 eSATA Interface / 0	
System Alarm											
General	Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss Alarm Input, Audio Detection	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss Alarm Input, Audio 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	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	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	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal	

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

CATEGORY	NETWORK VIDEO RECORDERS (NVR)									
MODEL	NR041XP	NR081XP	NR162XPC	NR164X	NR164XPQ	NR324XPC	NR324XPQ	NR648XC	NR6416X	NR12816X
External Interfaces										
Network	1 x RJ-45 10M / 100M self-adaptive Ethernet Interface	1 x RJ-45 10M / 100M self-adaptive Ethernet Interface	1 x RJ45 10M/100M/1000M self-adaptive Ethernet Interface	2 x RJ-45 10M / 100M / 1000 self-adaptive Ethernet Interface	1 x RJ45 10M/100M/1000M self-adaptive Ethernet Interface	1 x RJ-45 10M / 100M / 1000 self-adaptive Ethernet Interface	1 x RJ-45 10M / 100M / 1000 self-adaptive Ethernet Interface	2 x RJ-45 10M / 100M / 1000 self-adaptive Ethernet Interface	2 RJ45 10M/100M/1000M self-adaptive Ethernet Interface	2 RJ45 10M/100M/1000M self-adaptive Ethernet Interface
USB	Rear panel: 1 x USB2.0, 1 x USB3.0	Rear panel: 1 x USB2.0, 1 x USB3.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 2 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 2 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 2 x USB3.0
RS232	n/a	n/a	n/a	1	n/a	n/a	n/a	1	1	1
RS485	n/a	n/a	1	1	1	1	1	1	1	1
Alarm In	n/a	n/a	8-ch	16-ch	16-ch	16-ch	16-ch	16-ch	16-ch	16-ch
Alarm Out	n/a	n/a	2-ch	4-ch	4-ch	4-ch	4-ch	10-ch	10-ch	10-ch
Decoding Card Slots (optional)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2 Slots	2 Slots
Power Output	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12V	12V
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	16 x RJ-45 10M/100M self-adaptive Ethernet Interface	16 x RJ-45 10M/100M self-adaptive Ethernet Interface	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	Max 30W for single port Max 150W in total	Max 30W for single port Max 150W in total	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	IEEE 802.3af/at	IEEE 802.3af/at	n/a	n/a	n/a
General										
NDAA Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply	48V DC / 1.35A Power Consumption: ≤ 10W (without HDD)	53V DC / 1.8A Power Consumption: ≤ 10W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 20W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 25W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 12W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 20W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 12W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 50W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 50W (without HDD)	100 ~ 240V AC Power Consumption: ≤ 50W (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)	-10°C~+ 55°C (+14°F~+131°F); Humidity ≤ 90% RH (non-condensing)	-10°C~+ 50°C (+14°F~+122°F); Humidity ≤ 90% RH (non-condensing)	-10°C~+ 50°C (+14°F~+122°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)	-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	205mm × 212mm × 46mm (8.1" × 8.3" × 1.8")	205mm × 212mm × 46mm (8.1" × 8.3" × 1.8")	380mm × 322mm × 53mm (15.0" × 12.7" × 2.1")	442mm × 426mm × 89mm (17.4" × 16.8" × 3.5")	400mm × 368mm × 74mm (15.0" × 14.5" × 2.9")	400mm × 368mm × 74mm (15.7 × 14.5 × 2.9")	400mm × 368mm × 74mm (15.7 × 14.5 × 2.9")	442mm × 448mm × 93mm (17.4" × 17.6" × 3.7")	482mm × 533mm × 131mm (19.0"×21.0"×5.1")	482mm × 533mm × 131mm (19.0"×21.0"×5.1")
Weight	≤ 0.98Kg (2.16lb)	≤ 0.98Kg (2.16lb)	≤ 2.6Kg (5.73lb)	≤ 5.7Kg (12.57lb)	≤ 4Kg (8.8lb)	≤ 4Kg (8.82lb)	≤ 4Kg (8.8lb)	≤ 6Kg (13.23lb)	≤ 6.5 Kg (14.3 lb)	≤ 6.5 Kg (14.3 lb)
SMART Features										
Ultra Motion Detection	IPC:4	IPC:8	IPC:16	IPC:16	IPC:16 ; NVR:8	IPC:8	IPC:32 ; NVR:8	IPC:16	IPC:64	IPC:128
Smart Intrusion Prevention	IPC:4	IPC:8	IPC:16	IPC:16	IPC:16 ; NVR:4	IPC:8	IPC:32 ; NVR:4	IPC:16	IPC:64	IPC:128
Face Detection/Capture	IPC:4	IPC:8	IPC:16	IPC:16	IPC:16 ; NVR:4	IPC:8	IPC:32 ; NVR:4	IPC:16	IPC:64	IPC:128
Face Recognition	N/A	N/A	IPC:16	IPC:16	IPC:16 ; NVR:8	IPC:8	IPC:32 ; NVR:8	IPC:16	IPC:64	IPC:128
Plate Recognition	N/A	N/A	IPC:16	IPC:16	IPC:16	IPC:8	IPC:32	IPC:16	IPC:64	IPC:128
Dewarping by NVR	N/A	N/A	1x9MP	2x5MP or 1x4K	1x9MP	1x9MP	1x9MP	N/A	1x12MP	1x12MP
Human Body Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
VCA Playback/Backup	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Face Search	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Behavior Search	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
People Counting (Regular)	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
Crowd Density Monitoring (Deep Learning)	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Intelligent Mark	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Scene Change Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Defocus Detection	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Auto Tracking	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Vehicle Recogniton by Camera	n/a	n/a	n/a	Support	n/a	n/a	Support	n/a	Support	Support
Heat Map	n/a	n/a	Support	n/a	Support	Support	Support	Support	Support	Support
Object Left Behind	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Object Removed	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Dual-lens Cameras	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Box-Dome Linkage	Support	Support	Support	Support	Support	Support	Support	Support	Support	Support
Point of Sale (POS)	4	8	16	16	16	16	32	16	64	128
Thermal Imaging Cameras (Fire Detection, Smoking Detection, Temperature Measurement, Smoking and Fire Detection)	n/a	n/a	n/a	Support	Support	n/a	Support	n/a	Support	Support
Color Attributes Search by NVR	n/a	n/a	Support	Support	Support	Support	Support	Support	Support	Support

Quick Reference Guide

CATEGORY	AHD TURRET CAMERAS					
MODEL	UHDT228X	UHDT2EC28X	UHDT2C28X	UHDT528X	UHDT5EC28X	UHDT5C28X
						
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	0 / 0 B/I Mic	n/a	n/a	0 / 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	24VDC 3.12W	12VDC 3.6W	12VDC 2.4W	12VDC 3.28W
CATEGORY	AHD BULLET CAMERAS					
MODEL	UHDB228X	UHDB2EC28X	UHDB2C28X	UHDB528X	UHDB5EC28X	UHDB5C28X
						
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	0 / 0 B/I Mic	n/a	n/a	0 / 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

Quick Reference Guide

CATEGORY	AHD HYBRID VIDEO RECORDERS (HVR)			
MODEL	HNR041X	HNR081X	HNR162X	HNR322X
Video & Audio Inputs				
Analog Video	4-ch, BNC	8-ch, BNC	16-ch, BNC	32-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	4-ch (only IP up to 36-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	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	1-ch, RCA
Audio Compression	G.711U	G.711U	G.711U	G.711U
Video & Audio Outputs				
CVBS Output	1-ch, BNC	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	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	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	1-ch, RCA
Synchronous Playback	4	8	16	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	HDMI / VGA: 1 / 4 / 6 / 8 / 9 / 16 / 25 / 36
Two-way Audio	1-ch, RCA	1-ch, RCA	1-ch, RCA	1-ch, RCA
SnapShot				
FTP / Schedule / Event Snapshot	n/a	n/a	n/a	32-ch snapshot, up to 704 x 576 resolution
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)	80Mbps (Up to 144Mbps after all analog channel conversion)
Outgoing Bandwidth	48Mbps	64Mbps	160Mbps	160Mbps
Remote Users	128	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	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	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	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 @ 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 @ 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 @ 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 @ 30fps
Audio Sample Rate	8KHz, 16 bit per channel	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	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	Analog: 16x8MP Lite @ 8, 16x5MP Lite @ 12, 16x4MP Lite @ 15, 16x1080P @ 15, 16x720P @ 30 IP: 16x720P @ 30, 8x1080P @ 30, 4x4MP @ 30, 2x8MP @ 30
Hard Disk Drive				
SATA	1 Interface	1 Interface	2 Interfaces	2 Interfaces
Maximum Capacity	Up to 10TB	Up to 10TB	Up to 10TB each	Up to 10TB each
System Alarm				
General	Motion Detection	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	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	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	Rear panel: 1 x USB3.0; Front panel: 1 x USB2.0
RS232	n/a	n/a	n/a	n/a
RS485	1	1	1	1
Alarm In	4 – Terminal Strip	4 – Terminal Strip	4 – Terminal Strip	4 – Terminal Strip
Alarm Out	1 – Terminal Strip	1 – Terminal Strip	1 – Terminal Strip	1 – Terminal Strip
General				
NDA compliant	Yes	Yes	Yes	Yes
Power Supply	12V DC; Power Consumption: ≤ 10 W (without HDD) -10℃ ~ + 55℃ (+14℉ ~ +131℉), Humidity ≤ 90% RH(non-condensing)	12V DC; Power Consumption: ≤ 10 W (without HDD) -10℃ ~ + 55℃ (+14℉ ~ +131℉), Humidity ≤ 90% RH(non-condensing)	12V DC; Power Consumption: ≤ 12 W (without HDD) -10℃ ~ + 55℃ (+14℉ ~ +131℉), Humidity ≤ 90% RH(non-condensing)	12V DC; Power Consumption: ≤ 38W (without HDD) -10℃ ~ + 55℃ (+14℉ ~ +131℉), Humidity ≤ 90% RH(non-condensing)
Working Environment				
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")	380 × 326 × 53mm (15.0 × 12.8 × 2.1")
Weight	1.1Kg (2.42lb)	1.1Kg (2.42lb)	42.0 kg (4.4lb)	42.6kg (5.72lb)
Certifications	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)
SMART Features				
Ultra Motion Detection	Analog camera - Support	Analog camera - Support	Analog camera - Support	Analog camera - Support
Face Detection	IP camera - Support	IP camera - Support	IP camera - Support	IP camera - Support
Intrusion Detection	n/a	n/a	IP camera - Support	n/a
Cross Line Detection	n/a	n/a	IP camera - Support	n/a
Enter Area / Leave Area	n/a	n/a	IP camera - Support	n/a
Defocus Detection	n/a	n/a	IP camera - Support	IP camera - Support
Scene Change Detection	n/a	n/a	IP camera - Support	IP camera - Support
Object Removed	n/a	n/a	IP camera - Support	IP camera - Support
Object Left Behind	n/a	n/a	IP camera - Support	IP camera - Support
Auto Tracking	n/a	n/a	IP camera - Support	IP camera - Support

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