

## CAMERAS

CATEGORY	VANDAL														TURRET													
MODEL NUMBER	IPV428X	IPV428AIX	IPV4E28X	IPV4E28BX	IPV4E40X	IPV440AIX	IPV4E212MX	IIPV4213MAIX	IPVLP428X	IPV5E28X	IPV528X	IPV5E212MX	IPV5213MX	IPV4K212MX	IPT4E28X	IPT428BX	IPT428AIBX	IPT440AIX	IPT4213MAIX	IPT4E212MX	IPT5E28X	IPT528AIX	IPT528AIBX	IPT5C28X	IPT5213MX	IPT4KE28X	IPT4K28AIX	IPT4K212MX
DESCRIPTION	4MP NDAA Compliant	4MP Intelligent, LightHunter, NDAA Compliant	4MP NDAA Compliant	4MP NDAA Compliant	4MP NDAA Compliant	4MP Intelligent, LightHunter NDAA Compliant	4MP NDAA Compliant	4MP Intelligent, LightHunter, NDAA Compliant	4MP Low Profile LightHunter NDAA Compliant	5MP LightHunter NDAA Compliant	5MP LightHunter NDAA Compliant	5MP NDAA Compliant	5MP LightHunter NDAA Compliant	4K LightHunter NDAA Compliant	4MP LightHunter NDAA Compliant	4MP NDAA Compliant	4MP Intelligent, LightHunter, NDAA Compliant	4MP Intelligent, NDAA Compliant	4MP Intelligent, LightHunter, NDAA Compliant	4MP NDAA Compliant	5MP NDAA Compliant	5MP Intelligent, LightHunter, NDAA Compliant	5MP Color Hunter NDAA Compliant	5MP LightHunter NDAA Compliant	4K NDAA Compliant	4K Intelligent, NDAA Compliant	4K LightHunter NDAA Compliant	
RESOLUTION	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2880 x 1620	2880 x 1620	2880 x 1620	2880 x 1620	3840 x 2160	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2880 x 1620	2880 x 1620	2880 x 1620	2880 x 1620	3840 x 2160	3840 x 2160	3840 x 2160	
FPS @ MAX. RESOLUTION	30-fps	30-fps	25-fps	25-fps	25-fps	30-fps	25-fps	30-fps	30-fps	25-fps	30-fps	25-fps	30-fps	20-fps	30-fps	30-fps	30-fps	30-fps	30-fps	25-fps	25-fps	30-fps	25-fps	25-fps	20-fps	20-fps	20-fps	
LENS	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 4mm	Fixed 4mm	Motorized 2.8-12mm VF	Motorized 2.7-13.5mm VF	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Motorized 2.8-12mm VF	Motorized 2.7-13.5mm VF	Motorized 2.8-12mm VF	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 4mm	Motorized 2.7-13.5mm VF	Motorized 2.8-12mm VF	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm	Motorized 2.7-13.5mm VF	Fixed 2.8mm	Fixed 2.8mm	Motorized 2.8-12mm VF	
IMAGE SENSOR	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/3" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.8" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.8" Prog Scan CMOS
IR LED RANGE (MAX)	98ft (30M)	98ft (30m)	98ft (30m)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	131ft (40M)	98ft (30M)	98ft (30M)	98ft (30M)	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)	0.003 (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)	.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)	.003 (Col); 0 (BW, w/ IR)	0.01 (Col); 0.003 (Col)	0.003 (Col); 0 (BW, w/ IR)	.003 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	.003 (Col); 0 (BW, w/ IR)	0.001 (Col); 0 (BW, w/ IR)	0.002 (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)		
WIDE DYNAMIC RANGE	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
DAY/NIGHT	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
VIDEO COMPRESSION	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265
MULTI-STREAMING	3	3	3	2	2	3	2	3	3	2	3	2	3	3	3	3	3	3	3	2	2	3	3	3	2	3	3	
ONBOARD STORAGE	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	-	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot
ALARM (I/O)	1/1	1/1	-	-	-	1/1	-	1/1	-	-	1/1	-	1/1	1/1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AUDIO (I/O)	1/1	1/1	-	-	-	1/1	1/0; B/I Mic	1/1; 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	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
ADDITIONAL FEATURES	ONVIF, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	
ACCESSORIES	See Camera Accessory Guide																											
USER INSTRUCTION MANUAL	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>
OPERATING TEMP RANGE	-35°C ~ 60°C (-31°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)	-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 CERTS	IP67, IK10, CE, FCC	CE, FCC	CE, FCC	IP67, IK10, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, CE, FCC	IP67, IK10, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, IK10, CE, FCC
POWER	12VDC / PoE 5.5W Max	12VDC / PoE 4.5W Max	12VDC / PoE 5.5W Max	12VDC / PoE 5.5W Max	12VDC / PoE 5.5W	12VDC / PoE 4.5W Max	12VDC / PoE 7.5W Max	12VDC / PoE 7W Max	12VDC / PoE 6W Max	12VDC / PoE 4.5W Max	12VDC / PoE 4.5W Max	12VDC / PoE 7.5W Max	12VDC / PoE 7W Max	12VDC / PoE 9W Max	12VDC / PoE 6W Max	12VDC / PoE 5.5W Max	12VDC / PoE 4W Max	12VDC / PoE 4W Max	12VDC / PoE 7W Max	12VDC / PoE 8W Max	12VDC / PoE 6W Max	12VDC / PoE 9W Max	12VDC / PoE 7.5W Max	12VDC / PoE 7W Max	12VDC / PoE 4.5W Max	12VDC / PoE 5W Max	12VDC / PoE 8.16W Max	

## CAMERAS

CATEGORY	BULLET																PTZ				FISHEYE				
MODEL NUMBER																									
DESCRIPTION	2MP & 4MP Long Range, (NDAA Compliant 4MP only)		4MP Wi-Fi NDAA Compliant	4MP NDAA Compliant	4MP NDAA Compliant	4MP Intelligent, LightHunter NDAA Compliant	4MP NDAA Compliant	4MP NDAA Compliant	4MP intelligent, LightHunter, NDAA Compliant	5MP NDAA Compliant	5MP Lighthunter NDAA Compliant	5MP Color Hunter NDAA Compliant	5MP NDAA Compliant	5MP Lighthunter NDAA Compliant	4K NDAA Compliant	4K Intelligent NDAA Compliant	4K NDAA Compliant	4K, Panoramic, 180° StarView	4MP Dual Lens, Dual Light, Color Hunter NDAA Compliant	2MP Dual Lens, Dual Light, NDAA Compliant	2MP LightHunter NDAA Compliant	5MP NDAA Compliant	4K LightHunter NDAA Compliant	5MP 360° Panoramic NDAA Compliant	12MP 360° Panoramic
RESOLUTION	1920 x 1080 (2MP) 2688 x 1520 (4MP)		2560 x 1440	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2880 x 1620	2880 x 1620	2880 x 1620	2880 x 1620	2880 x 1620	3840 x 2160	3840 x 2160	3840 x 2160	4096 x 1800	3840 x 1080	1920 x 1080	1920 x 1080	2880 x 1620	3840 x 2160	2592 x 1944	4000 x 3000
FPS @ MAX. RESOLUTION	60-fps (2MP) 30-fps (4MP)		15-fps	25-fps	30-fps	30-fps	25-fps	30-fps	30-fps	25-fps	25-fps	25-fps	25-fps	30-fps	20-fps	20-fps	20-fps	20-fps	25-fps	25-fps	60-fps	30-fps	30-fps	30-fps	15-fps
LENS	Motorized 6.5 – 143mm		Fixed 4.0mm	Fixed 2.8mm	Fixed 4mm	Fixed 2.8mm	Motorized 2.8-12mm VF	Motorized 2.8-12mm VF	Motorized 2.7-13.5mm VF	Fixed 4mm	Fixed 2.8mm	Fixed 4mm	Motorized 2.8-12mm VF	Motorized 2.7-13.5mm VF	Fixed 2.8mm	Fixed 2.8mm	Motorized 2.8-12mm VF	Fixed 4.2mm x 4	Dual 4mm Fixed Lens	Fixed 2.8mm & 4x, 2.8-12mm MVF	33x, 4.5 – 148.5mm	4x, 2.8 – 12mm	25x, 6 – 150mm	Fixed 1.4mm Panoramic	Fixed 1.8mm Panoramic
IMAGE SENSOR	1/2.8" Prog Scan CMOS		1/2.7" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/3" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/1.8" Prog Scan CMOS x 4	1/2.9" Prog Scan CMOS	1/2.8" Prog Scan CMOS	1/2.8 Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/1.8" Prog Scan CMOS	1/2.8" Prog Scan CMOS	1/1.7" Prog Scan CMOS
IR LED RANGE (MAX)	656ft (200M), 2MP; 492ft (150M), 4MP		98ft (30M)	164ft (50M)	164ft (50M)	98ft (30M); 131ft (40M) 'ADX'	164ft (50M)	164ft (50M)	164ft (50M)	164ft (50M)	131ft (40M)	98ft (30M)	164ft (50M)	164ft (50M)	98ft (30M)	98ft (30M)	164ft (50M)	164ft (50M)	Dual White Light LED's; 98ft (30M)	164ft (50M)	492ft (150M)	164ft (50M)	656ft (200M)	33ft (10M)	65ft (20M)
MIN. SCENE ILLUM. (LUX)	0.0005 (Col); 0 (BW, w/ IR)		0.2 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	.003 (Col); 0 (BW, w/ IR)	0.01 (Col); 0.003 (Col) 'ADX'; 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)	0.001 (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)	0.01 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.001 (Col); 0 (BW, w/ IR)	0.0005 (Color)	0.002 (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)	0.01 (Col); 0 (BW, w/ IR)	0.05 (Col); 0 (BW, w/ IR)
WIDE DYNAMIC RANGE	120dB		Digital	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	Digital	120dB	120dB	120dB	Digital	120dB	Digital
DAY/NIGHT	TRUE		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
VIDEO COMPRESSION	H.265		H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265
MULTI-STREAMING	3		3	2	3	3	2	3	3	2	3	3	2	3	3	3	3	3	2	2	5	3	3	3	3
ONBOARD STORAGE	Micro-SD Slot		Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	-	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot	Micro-SD Slot
ALARM (I/O)	2/1		-	-	-	-	1/1	1/1	-	-	1/1	-	1/1	-	-	1/1	-	2/1	1/1	-	1/1	1/1	1/1	1/1	2/1
AUDIO (I/O)	1/1		-	1/0, w/ Bt MIC	1/0; Bt Mic	1/0; Bt Mic	1/0; Bt Mic	1/1	1/1	1/0; Bt Mic	1/1	1/1	1/0; Bt Mic	1/1	1/0; Bt Mic	1/1; Bt Mic & Spkr	1/1	1/1	1/1, w/ Bt SPKR & 2 x MIC	1/1	1/1	1/1	1/1	1/1; Bt Mic	1/1; Bt Mic & Spkr
ADDITIONAL FEATURES	ONVIF, Corridor, 3D-DNR, BLC, Video Analytics		WiFi Video Transmission, ONVIF, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	AI Analytics, ONVIF, Corridor, 3D-DNR, BLC, Defog	ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	Panoramic 180° View, ONVIF, 3D-DNR, BLC, Defog, Video Analytics	White Light, ONVIF, 3D-DNR, BLC, Defog, Video Analytics	White Light, ONVIF, Corridor, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, 3D-DNR, BLC, Video Analytics	ONVIF, 3D-DNR, BLC, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Video Analytics
ACCESSORIES	See Camera Accessory Guide																								
USER INSTRUCTION MANUAL	<a href="#">Click Here for Manual</a>		<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>
OPERATING TEMP RANGE	-40°C ~ +60°C (-40°F ~ 140°F)		-30°C ~ +50°C (-22°F ~ 122°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)	-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)	-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)	-30°C ~ 60°C (-22°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)
CONFORMITY CERTS	IP67, CE, FCC		IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP67, CE, FCC	CE, FCC	IP67, CE, FCC	CE, FCC	IP67, CE, FCC	IP67, CE, FCC	IP66, CE, FCC	IP66, CE, FCC	IP66, CE, FCC	IP66, CE, FCC	IP66, CE, FCC	IP66, CE, FCC
POWER	12VDC / 24VAC / PoE 21W Max		12VDC 4W Max	12VDC / PoE 6W Max	12VDC / PoE 6W Max	12VDC / PoE 6.4W Max; 4W Max (ADX)	12VDC / PoE 8.5W Max	12VDC / PoE 9.5W Max	12VDC / PoE 8.5W Max	12VDC / PoE 6W Max	12VDC / PoE 5W Max	12VDC / PoE 9W Max	12VDC / PoE 8.5W Max	12VDC / PoE 8W Max	12VDC / PoE 6.5W Max	12VDC / PoE 10.5W Max	12VDC / PoE 10.5W Max	24VAC / 24VDC 40W Max	12VDC / PoE 4W	12VDC / PoE 16W	24VAC / 24VDC / PoE (Injector Req'd) 60W Max	12VDC / PoE 18W Max	24VAC / 24VDC / PoE (Injector Req'd) 58W Max	12VDC / PoE 8.5W Max	12VDC / PoE 21W Max

HYBRID NVR'S		NETWORK RECORDERS (NVR'S)													
MODEL NUMBER	<b>HNRX08</b>	<b>HNRXA16</b>	<b>NR04XP</b>	<b>NR08XP</b>	<b>NR16XP2</b>	<b>NR164X</b>	<b>NR32XP</b>	<b>NR324X</b>	<b>NR328X</b>	<b>NR648X</b>	<b>NR6416</b>	<b>NR12816</b>	<b>NR12824</b>	<b>NR25624</b>	
<b>DESCRIPTION</b>	8ch Analog + 8ch IP Hybrid	16ch Analog + 8ch IP Hybrid	4ch w/ 4 PoE, NDAA Compliant	8ch w/ 8 PoE, NDAA Compliant	16ch w/ 16 PoE, NDAA Compliant	16ch NDAA Compliant	32ch w/ 16 PoE NDAA Compliant	32ch NDAA Compliant	32ch, NDAA Compliant	64ch NDAA Compliant	64ch NDAA Compliant	128ch NDAA Compliant	128ch NDAA Compliant	256ch NDAA Compliant	
<b>MAX. RECORDING RESOLUTION</b>	AHD, TVI, CVI - 8MP; CVBS - 750TVL; IP - 8MP	AHD, TVI, CVI - 8MP; CVBS - 750TVL; IP - 8MP	4K (8MP)	4K (8MP)	4K (8MP)	12MP	4K (8MP)	12MP	12MP	4K (8MP)	12MP	12MP	12MP	12MP	
<b>VIDEO COMPRESSION</b>	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	
<b>BANDWIDTH - I/O</b>	64 / 64 Mbps	72 / 80 Mbps	64 / 48Mbps	80 / 64 Mbps	160 / 64 Mbps	384 / 384 Mbps	160 / 64 Mbps	384 / 384 Mbps	384 / 384 Mbps	320 / 320 Mbps	384 / 384 Mbps	512 / 384 Mbps	768 / 768Mbps	512 / 384 Mbps	
<b>PLAYBACK VIDEO CAPABILITY (fps)</b>	1 x 8MP @ 30; 1 x 6MP @ 30; 1 x 5MP @ 30; 2 x 4MP @ 30; 2 x 3MP @ 30; 3 x 3MP @ 25; 4 x 1080p @ 30; 8 x 720P @ 30	2 x 8MP @30; 2 x 6MP @30; 3 x 8MP @30; 4 x 4MP @30; 4 x 3MP @30; 6 x 3MP @25; 8 x 1080p @30; 16 x 720P @30	1 x 4K @ 30, 4 x 5MP @ 25, 4 x 4MP @ 25, 4 x 3MP @ 25, 4 x 1080p @ 30	2 x 4k @ 30, 3 x 5MP @ 30, 4 x 4MP @ 30, 5 x 3MP @ 30, 8 x 1080p @ 30	2 x 4K @ 30fps; 4 x 4MP @ 30fps; 5 x 3MP @ 30fps; 8 x 1080P @ 30fps; 16 x 720P @ 30f	2 x 12MP @ 30; 4 x 4K @ 30; 8 x 4MP @ 30; 9 x 4MP @ 25; 16 x 1080p @ 30	2 x 4K @ 30; 4 x 4MP @ 30; 5 x 3MP @ 30; 8 x 1080P @ 30; 16 x 720P @ 30; 32 x D1 @ 30	2 x 12MP @ 30; 4 x 4K @ 30; 8 x 4MP @ 30; 9 x 4MP @ 25; 16 x 1080p @ 30; 32 x 960p @ 25	2 x 12MP @ 30; 4 x 4K @ 30; 8 x 4MP @ 30; 9 x 4MP @ 25; 16 x 1080p @ 30; 32 x 960p @ 25	2 x 12MP @ 30; 4 x 4K @ 30; 8 x 4MP @ 30; 16 x 1080P @ 30; 32 x 960P @ 25	3 x 12MP @ 25, 4 x 4K @ 30, 8 x 4MP @ 30, 16 x 1080P @ 30, 32 x 960P @ 25, 64 x D1 @ 30	4 x 12MP@20, 4 x 4K@30, 16 x 1080P@30, 36 x 720P@30, 64 x D1@30	4 x 12MP@20, 4 x 4K@30, 16 x 1080P@30, 36 x 720P@30, 64 x D1@30	5 x 4K@30, 20 x 1080P@30, 24 x 1080P@25, 40 x 960P@25, 45 x 720P@30, 54 x 720P@25, 96 x D1	5 x 4K@30, 20 x 1080P@30, 24 x 1080P@25, 40 x 960P@25, 45 x 720P@30, 54 x 720P@25, 96 x D1
<b>CONNECTIONS</b>															
<b>HDMI OUTPUT</b>	1 x 4K - 720p	1 x 4K - 720p	1 x 4K - 720p	1 x 4K - 720p	1 x 4K - 720p	2 x 4K - 720p	1 x 4K - 720p	2 x 4K - 720p	2 x 4K - 720p	2 x 4K - 720p	2 x 4K - 720p; (Add'l 4 or 6 optional)	2 x 4K - 720p; (Add'l 4 or 6 optional)	2 x 4K - 720p; (Add'l 4 or 6 optional)	2 x 4K - 720p; (Add'l 4 or 6 optional)	
<b>VGA OUTPUT</b>	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	1 x 1080 - 720p	
<b>AUDIO IN / OUT</b>	RCA 4 / 1	RCA 1 / 1	RCA 4 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	RCA 1 / 1	
<b>USB</b>	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Rear panel: 2 x USB2.0	Rear panel: 2 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: 2 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 2 x USB2.0 Rear panel: 1 x USB3.0	Rear panel: 4 x USB3.0	Rear panel: 4 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
<b>ALARM IN / OUT</b>	8 / 4	-	-	-	4 / 1	16 / 4	16 / 4	16 / 4	16 / 4	16 / 4	24 / 8	24 / 8	24 / 8	24 / 8	
<b>ETHERNET</b>	1 - RJ45 Port, 10M/100M/1000M	1 - RJ45 Port, 10M/100M/1000M	1 - RJ45 Port, 10M/100M	1 - RJ45 Port, 10M/100M	1 - RJ45 Port, 10M/100M/1000M	2 - RJ45 Port, 10M/100M/1000M	1 - RJ45 Port, 10M/100M/1000M	2 - RJ45 Port, 10M/100M/1000M	2 - RJ45 Port, 10M/100M/1000M	2 - RJ45 Port, 10M/100M/1000M	2 - RJ45 Port, 10M/100M/1000M	4 - RJ45 Port 10M/100M/1000M (adaptive); 2 - RJ45 1000M SFP Ethernet	4 - RJ45 Port 10M/100M/1000M (adaptive); 2 - RJ45 1000M SFP Ethernet	4 - RJ45 Port, 10M/100M/1000M	4 - RJ45 Port 10M/100M/1000M (adaptive);
<b>PoE</b>	-	-	4 - 100Mbps RJ45 ports; IEEE 802.3af/at;	8 - 100Mbps RJ45 ports; IEEE 802.3af/at	16 - 100Mbps RJ45 ports; IEEE 802.3af/at	-	16 - 100Mbps RJ45 ports; IEEE 802.3af/at	-	-	-	-	-	-	-	-
<b>ESATA</b>	-	-	-	-	-	-	-	-	-	1	1	1	1	1	
<b>SERIAL INTERFACE</b>	1 x RS485	1 x RS485	-	-	-	-	-	-	-	1 x RS232; 1 x RS485	1 x RS232; 1 x RS485	1 x RS232; 1 x RS485	1 x RS232; 1 x RS485	1 x RS232; 1 x RS485	
<b>MINI-SAS PORTS</b>	-	-	-	-	-	-	-	-	-	-	2	2	2	2	
<b>OPERATION</b>															
<b>MAXIMUM PoE POWER</b>	-	-	30W / port; 54W total	30W / port; 108W total	30W / port; 240W total	-	30W / port; 200W total	-	-	-	-	-	-	-	
<b>RACK MOUNT</b>	Yes; Optional Accessory	Yes; Optional Accessory	No	No	Yes; Optional Accessory	Yes; rack ears included	Yes; Ears Included	Yes; rack ears included	Yes; rack ears included	Yes; Ears Included	Yes; Shelf or Rails Req'd	Yes; Shelf or Rails Req'd	Yes; Shelf or Rails Req'd	Yes; Shelf or Rails Req'd	
<b>HDD BAYS &amp; SIZES</b>	2 SATA, up to 10TB each	2 SATA, up to 10TB each	1 SATA, up to 8TB each	1 SATA, up to 10TB	2 SATA, up to 10TB each	4 SATA, up to 10TB each; Raid 1, 5	4 SATA, up to 10TB each	4 SATA, up to 10TB each; Raid 1, 5	8 SATA, up to 10TB each; Raid 1, 5	8 SATA, up to 10TB each; Raid 0, 1, 5, 6, 10	16 SATA, (hot swappable) up to 10TB each; Raid 0, 1, 5, 6, 10, 50, 60	16 SATA, (hot swappable) up to 10TB each; Raid 0, 1, 5, 6, 10, 50, 60	24 SATA, (hot swappable) to 10TB each; Raid 0, 1, 5, 6, 10, 50, 60	24 SATA, (hot swappable) up to 10TB each; Raid 0, 1, 5, 6, 10, 50, 60	
<b>USER INSTRUCTION MANUAL</b>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Manual Link</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	<a href="#">Click Here for Manual</a>	
<b>REMOTE USERS</b>	128	128	128	128	128	128	128	128	128	128	128	128	128	256	
<b>PTZ CONTROL</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>QUICK SETUP GUIDE</b>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">QSG Link</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	<a href="#">Click Here for QSG</a>	
<b>ONVIF SUPPORT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>ACCESSORIES</b>	4KTESTMON Video Test Monitor; XDLBB2 Lockbox; NSW081P & NSW162PX PoE Switches; RCKERS1 Rack Ears	4KTESTMON Video Test Monitor; XDLBB2 Lockbox; NSW081P & NSW162PX PoE Switches; RCKERS1 Rack Ears	4KTESTMON Video Test Monitor	4KTESTMON Video Test Monitor	4KTESTMON Video Test Monitor; XDLBB2 Lockbox; RCKERS1 Rack Ears	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW081P, NSW162PX & NSW242PX PoE Switches	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW162PX & NSW242PX PoE Switches	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW081P, NSW162PX & NSW242PX PoE Switches	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW081P, NSW162PX & NSW242PX PoE Switches	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW081P, NSW162PX & NSW242PX PoE Switches	4KTESTMON Video Test Monitor; PWR-300A-IN Redundant Power Supply; NASDE08 & DE1600 Disk Enclosures; NSW081P, NSW162PX & NSW242PX PoE Switches; FB-HDMI4-C-NB & FB-HDMI6-C-NB HDMI Decoder Cards	4KTESTMON Video Test Monitor; PWR-300A-IN Redundant Power Supply; NASDE08 & DE1600 Disk Enclosures; NSW081P, NSW162PX & NSW242PX PoE Switches; FB-HDMI4-C-NB & FB-HDMI6-C-NB HDMI Decoder Cards	4KTESTMON Video Test Monitor; PWR-DC12-550A-IN Redundant Power Supply; NASDE08 & DE1600 Disk Enclosures; NSW081P, NSW162PX & NSW242PX PoE Switches	4KTESTMON Video Test Monitor; PWR-DC12-550A-IN Redundant Power Supply; NASDE08 & DE1600 Disk Enclosures; NSW081P, NSW162PX & NSW242PX PoE Switches	

NVR & DISPLAY ACCESSORIES								
MODEL NUMBER	<b>DC4K</b>	<b>4KTESTMON</b>	<b>RCKERS1 RCKERS2</b>	<b>LB3L XDLBB2</b>	<b>NASDE08 DE1600</b>	<b>NSW081P NSW162PX NSW242PX</b>	<b>FB-HDMI4-C-NB FB-HDMI6-C-NB</b>	<b>PWR-300A-IN PWR-DC12-550A-IN</b>
<b>DESCRIPTION</b>	Video Decoder	Multi-Function Video Test Monitor	Rack Ears	Lockbox	Mini-SAS Disk Enclosure	8, 16 & 24 Port PoE Network Switches	HDMI Output Decoder Cards	Redundant Power Supply
<b>FEATURES</b>	Displays on HDMI or VGA Monitors, up to 4K Resolution Decodes up to 12MP (4000 x 3000) Resolution Video Up to 16 cameras displayed simultaneously Supports H.265, H.264, MPEG4, MPEG2 2-way Audio Decoding	Support CVBS, TVI, CVI, AHD & IP 7" Retina Touch Screen HDMI I/O, up to 4K resolution Audio, Video, PoE and PING Support Battery Operated or 12VDC	Provide easy rack mounting Rigid Galvanized Iron No add'l Mount req'd Black Color For use w/ Hybrids and NR16XP2	Provide Security and Protection Removable top Lid for easy Access Keyed Lock , Front Door Rack Mounts Included Tough Electrolytic Galvanized Iron	8 or 16 HDD Bays Up to 10TB each HDD Mini-SAS Interface Rack Mountable but mounts are not included For use w/ NR6416, NR12816, NR12824 & NR25624 recorders	10/100Mbps Ethernet Ports NDAA Compliant, 16 & 24 Port Units only IEEE802.3af/t, up to 30W for single port Rack Mounts Included For use w/ all NVR's without built-in PoE Switch	4 & 6ch HDMI outputs for Video Walls Multi-Window display HDMI display output up to 4k Supports H.265 or H.264 For use w/ 16-bay and 24-bay HDD recorders	For NVR's w/ large quantities of HDD's Protection against short circuit, overload and overvoltage Front panel indicator lights Built-in Fan for heat dissipation For use with 16-bay and 24-bay HDD recorders

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