



















CAMERAS

CATEGORY	VANDAL												TURRET									
MODEL NUMBER	 IPFDLP428X	 IPV4E28	 IPV428X IPV440X	 IPV428B	 IPV4E212M	 IPV4212MX	 IPVLP428	 IPV5E28	 IPV528	 IPV5E212M	 IPV5213M	 IPV4K212M	 IPT4E28	 IPT428X IPT428BX	 IPT436	 IPT4212MX	 IPT5E28	 IPT528 IPT528B	 IPT5213MX	 IPT4K28X	 IPT4K212M	
DESCRIPTION	4MP Interior Low Profile Dome NDAA Compliant	4MP Vandal Dome NDAA Compliant	4MP Vandal Dome NDAA Compliant	4MP Vandal Dome	4MP Vandal Dome NDAA Compliant	4MP Vandal Dome NDAA Compliant	4MP Low Profile Vandal Dome	5MP Vandal Dome NDAA Compliant	5MP StarView Vandal Dome	5MP Vandal Dome NDAA Compliant	5MP StarView Vandal Dome	4K Vandal Dome	4MP Turret Dome NDAA Compliant	4MP Turret Dome NDAA Compliant	4MP Turret Dome	4MP Turret Dome NDAA Compliant	5MP Turret Dome NDAA Compliant	5MP StarView Turret Dome	5MP LightHunter Turret Dome NDAA Compliant	4K Turret Dome NDAA Compliant	4K Turret Dome	
RESOLUTION	2688 x 1520	2592 x 1520	2688 x 1520	2592 x 1520	2592 x 1520	2688 x 1520	2592 x 1520	2592 x 1944	2592 x 1944	2592 x 1944	2592 x 1944	3840 x 2160	2592 x 1520	2688 x 1520	2592 x 1520	2688 x 1520	2592 x 1944	2592 x 1944	2880 x 1620	3840 x 2160	3840 x 2160	
FPS @ MAX. RESOLUTION	30-fps	20-fps	30-fps	20-fps	20-fps	30-fps	20-fps	20-fps	20-fps	20-fps	20-fps	15-fps	20-fps	30-fps	20-fps	20-fps	20-fps	20-fps	25-fps	20-fps	15-fps	
LENS	Fixed 2.8mm	Fixed 2.8mm	Fixed 2.8mm / 4mm	Fixed 2.8mm	Motorized 2.8-12mm VF	Motorized 2.8-12mm 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 3.6mm	Motorized 2.8-12mm VF	Fixed 2.8mm	Fixed 2.8mm	Motorized 2.7-13.5mm VF	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	1/2.7" Prog Scan CMOS	1/3" 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	1/3" Prog Scan CMOS	1/2" Prog Scan CMOS	
IR LED RANGE (MAX)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	49ft (15M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	131ft (40M)	98ft (30M)	98ft (30M)	
MIN. SCENE ILLUM. (LUX)	0.01 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.005 (Col); 0 (BW, w/ IR)	0.002 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.2 (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)	0.002 (Col); 0 (BW, w/ IR)	0.05 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	
WIDE DYNAMIC RANGE	120dB	Digital	120dB	120dB	Digital	120dB	120dB	Digital	120dB	Digital	120dB	120dB	Digital	120dB	120dB	120dB	Digital	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
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	
MULTI-STREAMING	3	3	3	3	3	3	3	2	3	2	3	3	3	4	3	3	2	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	
ALARM (I/O)	-	-	1/1	1/1	-	1/1	-	-	1/1	-	1/1	1/1	-	-	-	-	-	-	-	-	-	
AUDIO (I/O)	1/1; B/I Mic	-	1/1	2/1	-	1/1	1/1; B/I Mic	-	2/1	-	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	
ADDITIONAL FEATURES	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics
ACCESSORIES	See Camera Accessory Guide																					
USER INSTRUCTION MANUAL	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	
OPERATING TEMP RANGE	-35°C ~ 60°C (-31°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)	-35°C ~ +60°C (-31°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)	-40°C ~ 60°C (-40°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)	-35°C ~ 60°C (-31°F ~ 140°F)	-40°C ~ 60°C (-40°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)	-40°C ~ 60°C (-40°F ~ 140°F)	
CONFORMITY CERTS	CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP67, IK10, CE, FCC	IP66, 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	
POWER	12VDC / PoE 5.5W Max	12VDC / PoE 4W Max	12VDC / PoE 5.5W Max	12VDC / PoE 5.5W Max	12VDC / PoE 6W Max	12VDC / PoE 8.7W Max	12VDC / PoE 4.5W Max	12VDC / PoE 4W Max	12VDC / PoE 5.5W Max	12VDC / PoE 6W Max	12VDC / PoE 8.7W Max	12VDC / PoE 10W Max	12VDC / PoE 4W Max	12VDC / PoE 5.5W Max	12VDC / PoE 5.5W Max	12VDC / PoE 8.16W Max	12VDC / PoE 4W Max	12VDC / PoE 5.5W Max	12VDC / PoE 7W Max	12VDC / PoE 5W Max	12VDC / PoE 8.16W Max	

CAMERAS

CATEGORY	BULLET												PTZ		SPECIALTY				
MODEL NUMBER	 IPB26143M	 IPBW440	 IPB428X	 IPB4E40	 IPB4E212M	 IPB4212MX	 IPB5E40	 IPB540	 IPB5E212M	 IPB5213M	 IPB4K28X	 IPB4K212MX	 IPBP4K180	 IPCSD230	 IPCSD4K22X	 IPFE5360	 IPFE4K360	 IPDB22	
DESCRIPTION	2MP Long Range StarView Bullet	4MP Wi-Fi Bullet NDAA Compliant	4MP Bullet NDAA Compliant	4MP Bullet NDAA Compliant	4MP Bullet NDAA Compliant	4MP Bullet NDAA Compliant	5MP Bullet NDAA Compliant	5MP StarView Bullet	5MP Bullet NDAA Compliant	5MP StarView Bullet	4K Bullet NDAA Compliant	4K Bullet NDAA Compliant	4K, 180° StarView Bullet	2MP PTZ	4K PTZ	5MP 360° Panoramic Fisheye	12MP 360° Panoramic Fisheye	2MP Covert Doorbell	
RESOLUTION	1920 x 1080	2560 x 1440	2688 x 1520	2592 x 1520	2592 x 1520	2688 x 1520	2592 x 1944	2592 x 1944	2592 x 1944	2592 x 1944	3840 x 2160	3840 x 2160	4096 x 1800	1920 x 1080	3840 x 2160	2592 x 1944	4000 x 3000	1920 x 1080	
FPS @ MAX. RESOLUTION	60-fps	15-fps	30-fps	20-fps	20-fps	30-fps	20-fps	20-fps	20-fps	20-fps	15-fps	20-fps	20-fps	30-fps	30-fps	30-fps	15-fps	25-fps	
LENS	Motorized 6.5 - 143mm	Fixed 4.0mm	Fixed 2.8mm	Fixed 4mm	Motorized 2.8-12mm VF	Motorized 2.8-12mm VF	Fixed 4mm	Fixed 4mm	Motorized 2.8-12mm VF	Motorized 2.7-13.5mm VF	Fixed 2.8mm	Motorized 2.8-12mm VF	Fixed 4.2mm x 4	30x, 4.5 - 135mm	22x, 6.5 - 143mm	Fixed 1.4mm Panoramic	Fixed 1.8mm Panoramic	Fixed 2.0mm	
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	1/2.7" Prog Scan CMOS	1/3" Prog Scan CMOS	1/2.7" Prog Scan CMOS	1/3" Prog Scan CMOS	1/2.8" Prog Scan CMOS	1/1.8" Prog Scan CMOS x 4	1/3" Prog Scan CMOS	1/1.8" Prog Scan CMOS	1/2.8" Prog Scan CMOS	1/1.7" Prog Scan CMOS	1/3" Prog Scan CMOS	
IR LED RANGE (MAX)	656ft (200M)	98ft (30M)	98ft (30M)	98ft (30M)	98ft (30M)	164ft (50M)	98ft (30M)	98ft (30M)	98ft (30M)	164ft (50M)	98ft (30M)	164ft (50M)	164ft (50M)	492ft (150M)	656ft (200M)	33ft (10M)	65ft (20M)	16ft (5M)	
MIN. SCENE ILLUM. (LUX)	0.0005 (Col); 0 (BW, w/ IR)	0.2 (Col); 0 (BW, w/ IR)	0.01 (Col); 0 (BW, w/ IR)	0.03 (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)	0.01 (Col); 0 (BW, w/ IR)	0.001 (Col); 0 (BW, w/ IR)	0.05 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	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)	0.05 (Col); 0 (BW, w/ IR)	0.02 (Col); 0 (BW, w/ IR)	
WIDE DYNAMIC RANGE	120dB	Digital	120dB	Digital	Digital	120dB	Digital	120dB	Digital	120dB	120dB	120dB	120dB	120dB	120dB	120dB	Digital	Digital	
DAY/NIGHT	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
MULTI-STREAMING	3	3	3	3	3	3	2	3	2	3	3	3	3	3	3	3	3	2	
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	
ALARM (I/O)	2 / 1	-	-	-	-	1 / 1	-	-	-	1 / 1	-	1 / 1	2 / 1	1 / 1	2 / 1	1 / 1	2 / 1	-	
AUDIO (I/O)	1 / 1	-	1 / 0; B/I Mic	-	-	1 / 1	-	1 / 0; B/I Mic	-	1 / 1	-	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1; B/I Mic	1 / 1; B/I Mic & Spkr	1 / 1; B/I Mic & Spkr	
ADDITIONAL FEATURES	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	WiFi Video Transmission, ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Privacy, VMD	ONVIF, 3D-DNR, BLC, Privacy, VMD	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Privacy, VMD	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Privacy, VMD	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, Corridor, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	Panoramic 180° View, ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, EIS, Video Analytics, Auto-Tracking	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD, EIS, Video Analytics	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	ONVIF, 3D-DNR, BLC, Defog, Privacy, VMD	WiFi Video Transmission, VMD
ACCESSORIES	See Camera Accessory Guide																	Mounting Brackets and Hardware Included	
USER INSTRUCTION MANUAL	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual
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)	-35°C ~ 60°C (-31°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)	-35°C ~ 60°C (-31°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-31°F ~ 140°F)	-40°C ~ +70°C (-40°F ~ 158°F)	-40°C ~ 65°C (-40°F ~ 149°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-40°C ~ 60°C (-40°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)	-30°C ~ +50°C (-22°F ~ 122°F)	
CONFORMITY CERTS	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, CE, FCC	IP67, CE, FCC	IP66, CE, FCC	IP66, CE, FCC	IP66, IK10, CE, FCC	IP66, IK10, CE, FCC	IP65, CE, FCC	
POWER	12VDC / 24VAC / PoE 21W Max	12VDC 4W Max	12VDC / PoE 6.4W Max	12VDC / PoE 4W Max	12VDC / PoE 6.5W Max	12VDC / PoE 9.5W Max	12VDC / PoE 4W Max	12VDC / PoE 6.4W Max	12VDC / PoE 6.5W Max	12VDC / PoE 10W Max	12VDC / PoE 5.5W Max	12VDC / PoE 10.5W Max	24VAC / 24VDC 40W Max	24VAC / 24VDC / PoE (PSE Req'd) 42W Max	24VAC / 24VDC / PoE (PSE Req'd) 60W Max	12VDC / PoE 8.9W Max	12VDC / PoE 21W Max	12VDC4 4W Max	

	HYBRID NVR'S			NETWORK RECORDERS (NVR'S)							
MODEL NUMBER	 HNRX04	 HNR08	 HNRXA16	 NR08XP	 NR16P2	 NR16P4	 NR32XP	 NR648	 NR6416	 NR12816	 NR25616
DESCRIPTION	4ch Analog + 2ch IP Hybrid	8ch Analog + 8ch IP Hybrid	16ch Analog + 8ch IP Hybrid	8ch w/ 8 PoE, NDAA Compliant	16ch w/ 16 PoE	16ch w/ 16 PoE	32ch w/ 16 PoE, NDAA Compliant	64ch NVR	64ch NVR, NDAA Compliant	128ch NVR, NDAA Compliant	256ch VMS Server, NDAA Compliant
MAX. RECORDING RESOLUTION	AHD - 5MP; TVI & CVI - 2MP; CVBS - 750TVL; IP - 5MP	AHD, TVI, CVI - 8MP; CVBS - 750TVL; IP - 8MP	AHD, TVI, CVI - 8MP; CVBS - 750TVL; IP - 8MP	4K (8MP)	12MP	12MP	4K (8MP)	4K (8MP)	12MP	12MP	12MP
VIDEO COMPRESSION	H.264	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265
BANDWIDTH - I/O	40 / 40 Mbps	64 / 64 Mbps	72 / 80 Mbps	80 / 64 Mbps	160 / 320 Mbps	160 / 320 Mbps	160 / 64 Mbps	320 / 320 Mbps	384 / 384 Mbps	512 / 384 Mbps	512 / 384 Mbps
PLAYBACK VIDEO CAPABILITY (fps)	Analog & IP Cameras: 2 x 1080p @30; IP Cameras Only: 5 x 1080p @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	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	2 x 4K @ 30, 3 x 5MP @ 30, 4 x 4MP @ 30, 5 x 3MP @ 30, 8 x 1080p @ 30	3 x 12MP@25, 4 x 4K@30, 8 x 4MP@30, 16 x 1080P@30	3 x 12MP@25, 4 x 4K@30, 8 x 4MP@30, 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	3 x 12MP@25, 4 x 4K@30, 8 x 4MP@30, 16 x 1080P@30, 32 x 960P@25, 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	4 x 12MP@20, 4 x 4K@30, 16 x 1080P@30, 36 x 720P@30, 64 x D1@30	4 x 4K @30; 16 x 1080p @30; 36 x 720p @30; 64 x D1 @30
CONNECTIONS											
HDMI OUTPUT	1 x 1080p - 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; (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)
VGA OUTPUT	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
AUDIO IN / OUT	RCA 4 / 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
USB	Front panel: 1 x USB2.0 Rear panel: 1 x USB2.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	Front panel: 1 x USB2.0 Rear panel: 1 x USB3.0	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	Rear panel: 4 x USB3.0	Rear panel: 4 x USB3.0	Rear panel: 4 x USB3.0
ALARM IN / OUT	-	8 / 4	-	-	4 / 1	16 / 1	16 / 4	16 / 4	24 / 8	24 / 8	24 / 8
ETHERNET	1 - RJ45 Port, 10M/100M	1 - RJ45 Port, 10M/100M/1000M	1 - RJ45 Port, 10M/100M/1000M	1 - RJ45 Port, 10M/100M	1 - RJ45 Port, 10M/100M/1000M	1 - RJ45 Port, 10M/100M/1000M	1 - 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 (adaptive); 2 - RJ45 1000M SFP Ethernet
PoE	-	-	-	8 - 100Mbps RJ45 ports; IEEE 802.3af/at	16 - 100Mbps RJ45 ports; IEEE 802.3af/at	16 - 100Mbps RJ45 ports; IEEE 802.3af/at	16 - 100Mbps RJ45 ports; IEEE 802.3af/at	-	-	-	-
ESATA	-	-	-	-	-	-	-	1	1	1	1
SERIAL INTERFACE	1 x RS485	1 x RS485	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
MINI-SAS PORTS	-	-	-	-	-	-	-	-	2	2	2
OPERATION											
MAXIMUM PoE POWER	-	-	-	30W / port; 108W total	30W / port; 240W total	30W / port; 200W total	30W / port; 200W total	-	-	-	-
RACK MOUNT	No	Yes; Optional Accessory	Yes; Optional Accessory	No	Yes; Optional Accessory	Yes; Ears Included	Yes; Ears Included	Yes; Ears Included	Yes; Shelf or Rails Req'd	Yes; Shelf or Rails Req'd	Yes; Shelf or Rails Req'd
HDD BAYS & SIZES	1 SATA, up to 10TB	2 SATA, up to 10TB each	2 SATA, up to 10TB each	1 SATA, up to 10TB	2 SATA, up to 10TB each	4 SATA, up to 10TB each	4 SATA, up to 10TB each	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	16 SATA, (hot swappable) up to 10TB each; Raid 0, 1, 5, 6, 10, 50, 60
USER INSTRUCTION MANUAL	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual	Click Here for Manual
REMOTE USERS	128	128	128	128	128	128	128	128	128	128	300
PTZ CONTROL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUICK SETUP GUIDE	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG	Click Here for QSG
ONVIF SUPPORT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACCESSORIES	4KTESTMON Video Test Monitor; NSW081P PoE Switch	4KTESTMON Video Test Monitor; XDLBB2 Lockbox; NSW081P & NSW162P PoE Switches; RCKERS1 Rack Ears	4KTESTMON Video Test Monitor; XDLBB2 Lockbox; NSW081P & NSW162P PoE Switches; RCKERS1 Rack Ears	4KTESTMON Video Test Monitor	4KTESTMON Video Test Monitor; XDLBB2 Lockbox; RCKERS1 Rack Ears	4KTESTMON Video Test Monitor; LB3L Lockbox	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW081P, NSW162P & NSW242P PoE Switches	4KTESTMON Video Test Monitor; LB3L Lockbox; NSW081P, NSW162P & NSW242P PoE Switches	4KTESTMON Video Test Monitor; PWR-300A-IN Redundant Power Supply; NASDE08 & DE1600 Disk Enclosures; NSW081P, NSW162P & NSW242P 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, NSW162P & NSW242P 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, NSW162P & NSW242P PoE Switches; FB-HDMI4-C-NB & FB-HDMI6-C-NB HDMI Decoder Cards

	NVR & DISPLAY ACCESSORIES							
MODEL NUMBER	 DC4K	 4KTESTMON	 RCKERS1	 LB3L XDLBB2	 NASDE08 DE1600	 NSW081P NSW162P NSW242P	 FB-HDMI4-C-NB FB-HDMI6-C-NB	 PWR-300A-IN
DESCRIPTION	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
FEATURES	Displays on HDMI or VGA Monitors, up to 4K Resolution	Support CVBS, TVI, CVI, AHD & IP	Provide easy rack mounting	Provide Security and Protection	8 or 16 HDD Bays	10/100Mbps Ethernet Ports	4 & 6ch HDMI outputs for Video Walls	For NVR's w/ large quantities of HDD's
	Decodes up to 12MP (4000 x 3000) Resolution Video	7" Retina Touch Screen	Rigid Galvanized Iron	Removable top Lid for easy Access	Up to 10TB each HDD	1 (8-port) & 2 x Gigabit combo ports	Multi-Window display	Protection against short circuit, overload and overvoltage
	Up to 16 cameras displayed simultaneously	HDMI I/O, up to 4K resolution Audio, Video, PoE and PING Support	No add'l Mount req'd	Keyed Lock , Front Door	Mini-SAS Interface	IEEE802.3af/t, up to 30W for single port	HDMI display output up to 4k	Front panel indicator lights
	Supports H.265, H.264, MPEG4, MPEG2	Battery Operated or 12VDC	Black Color	Rack Mounts Included	Rack Mountable but mounts are not included	Rack Mounts Included	Supports H.265 or H.264	Built-in Fan for heat dissipation
	2-way Audio Decoding		For use w/ HNR08, HNR16 & NR16P2 recorder	Tough Electrolytic Galvanized Iron	For use w/ NR6416, NR12816 & NR25616 recorders	For use w/ Hybrid's, NR32P, NR648, NR6416, NR12816 & NR25616 recorders	For use w/ NR6416, NR12816 & NR25616 recorders	For use w/ NR6416, NR12816 & NR25616

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