

Shield | Key T4

Desktop Model 32 Cameras



40TB Max Storage **32** Max Cameras **550Mb** Throughput **2840** Total FPS

Shield | Key T8

Desktop Model 48 Cameras



80TB Max Storage **48** Max Cameras **550Mb** Throughput **2840** Total FPS

Shield Key T4 32 Camera NVR		Shield Key T8 48 Camera NVR	
Intel® Core™ i3-8600 Processor 4 Core / 16GB DDR4 Memory	Processing	Intel® Core™ i3-8600 Processor 4 Core / 16GB DDR4 Memory	
Up to: 40TB RAW. 4x Enterprise 7200 RPM, SATA 6Gb/s 3.5" HDD's, 2.5 M MTBF. Video Surveillance & Video Analytics Certified	Video Storage	Up to: 96TB RAW. 4x Enterprise 7200 RPM, SATA 6Gb/s 3.5" HDD's, 2.5 M MTBF. Video Surveillance & Video Analytics Certified	
240GB V-NAND Flash SSD SATA3 Dedicated for OS/VMS	System Storage	240GB V-NAND Flash SSD SATA3 Dedicated for OS/VMS (Optional Mirrored)	
Dual 1Gbit Ethernet Full Duplex RJ45 Copper ports	Networking	Dual 1Gbit Ethernet Full Duplex RJ45 Copper ports	
Hardware RAID 5 Fault Tolerance w/ HW XOR Engine	RAID	Hardware RAID 5 Fault Tolerance w/ HW XOR Engine	
Intel UHD630 QuickSync GPU w/ GPU Tuned FW & Services	GPU	Intel UHD630 QuickSync GPU w/ GPU Tuned FW & Services (Optional Nvidia GPU card)	
Microsoft Windows 10 Enterprise 64bit	OS	Microsoft Windows 10 Enterprise 64bit (Server 2016 Upgrade avail)	
250W Output @ 100-240V, 4-7.5A, 50-60Hz (non hot swap)	Power	CX550 550W ATX12V 80 PLUS BRONZE Certified Active PFC Power Supply 500W Output @ 100-240V, 7-10.5A, 50-60H (non hot swap)	
310 (D) x 200 (W) x 270 (H) (mm) , 12.2" x 7.87" x10.63"	Physical	215.3mm (W) x 426.5mm (H) x 487.5mm (D)	
Shield Key T4 NVR		Shield Key T8 NVR	
3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)	Warranty	3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)	
4x front accessible HDD's	Hot-Swap	4x or 8x front accessible HDD's	
8 x 3.1, USB Ports, 1x Serial RS232	USB/Serial	8 x 3.1, USB Ports, 1x Serial RS232	
D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)	Video Display	D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)	
Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned.	VMS	Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned	
Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)	GPU Support	Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)	



AVIGILON




Western Digital



Shield | Key T8

Desktop Model 64 Cameras



96TB
Max Storage


64
Max Cameras

550Mb
Throughput

3840
Total FPS

Shield | Key R12

2U Rackmount 128 Cameras



120TB
Max Storage

128
Max Cameras



1048Mb
Throughput

7840
Total FPS

Shield Key T8 64 Camera NVR		Shield Key R12 128 Camera NVR
Intel® Core™ i3-8600 Processor 4 Core / 16GB DDR4 Memory	Processing	Intel® Core™ i5-8600 Processor 6 Core / 16GB DDR4 Memory
Up to: 96TB RAW. 4x Enterprise 7200 RPM, SATA 6Gb/s 3.5" HDD's., 2.5 M MTBF. Video Surveillance & Video Analytics Certified	Video Storage	Up to: 120TB RAW. 4x Enterprise 7200 RPM, SATA 6Gb/s 3.5" HDD's., 2.5 M MTBF. Video Surveillance & Video Analytics Certified
240GB V-NAND Flash SSD SATA3 Dedicated for OS/VMS (Optional Mirrored)	System Storage	240GB V-NAND Flash SSD SATA3 Dedicated for OS/VMS (Optional Mirrored)
Dual 1 Gbit Ethernet Full Duplex RJ45 Copper ports	Networking	Dual 1 Gbit Ethernet Full Duplex RJ45 Copper ports
Hardware RAID 5 Fault Tolerance w/ HW XOR Engine	RAID	Hardware RAID 6 Double Fault Tolerance w/ HW XOR Engine
Intel UHD630 QuickSync GPU w/ GPU Tuned FW & Services	GPU	Intel UHD630 QuickSync GPU w/ GPU Tuned FW & Services (Optional Nvidia GPU card)
Microsoft Windows 10 Enterprise 64bit	OS	Microsoft Windows 10 Enterprise 64bit (Server 2016 Upgrade avail)
CX550 550W ATX12V 80 PLUS BRONZE Certified Active PFC Power Supply 500W Output @ 100-240V, 7-10.5A, (non hot swap)	Power	550W Delta Dual Redundant hot swap Output @ 100-240V, 8-10.5A, 50-60Hz
310 (D) x 200 (W) x 270 (H) (mm) , 12.2" x 7.87" x 10.63"	Physical	Standard 19" Rackmount w/Rails 444mm(W) x 87.6mm(H) x 670(D)

Shield Key T8 NVR		Shield Key R12 NVR
3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)	Warranty	3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)
8x front accessible HDD's	Hot-Swap	8x or 12x front accessible HDD's, Redundant Power Supplies, Fans
8 x 3.1, USB Ports, 1x Serial RS232	USB/Serial	8 x 3.1, USB Ports, 1x Serial RS232
D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)	Video Display	D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)
Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned.	VMS	Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned
Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)	GPU Support	Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)





<h2 style="color: orange;">Shield Key R12</h2> <p>2U Rackmount Model 200 Cameras</p> 	<h2 style="color: orange;">Shield Key R24/36</h2> <p>4U Rackmount Models 250 Cameras</p> 
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">144TB</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">200</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 60px; text-align: center;">1680Mb</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 60px; text-align: center;">15000</div> </div> <p>Max Storage Max Cameras Throughput Total FPS</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 60px; text-align: center;">432TB</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">250</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 60px; text-align: center;">1680Mb</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 60px; text-align: center;">15000</div> </div> <p>Max Storage Max Cameras Throughput Total FPS</p>

Shield Key R12 200 Camera NVR		Shield Key R36 250 Camera NVR
Intel® Core™ i5-8600 Processor 6 Core / 16GB DDR4 Memory	Processing	Intel® Core™ i7-8700 Processor 6 Core / 32GB DDR4 Memory
Up to: 144TB RAW. 12x Enterprise 7200 RPM, SATA 6Gb/s 3.5" HDD's., 2.5 M MTBF. Video Surveillance & Video Analytics Certified	Video Storage	Up to: 432TB RAW. 24/36x UltraStar (4TB, 6TB, 8TB, 10TB or 12TB 7200 RPM, SATA 6Gb/s 3.5" HDD's. Video Surveillance Certified
Mirrored 240GB V-NAND Flash SSD SATA3 Dedicated for OS/VMS	System Storage	Mirrored 240GB V-NAND Flash SSD SATA3 Dedicated for OS/VMS
Dual 1Gbit Ethernet RJ45 Copper ports	Networking	Dual 1Gbit Ethernet RJ45 Copper ports
Hardware RAID 6 Double Fault Tolerance w/ HW XOR Engine	RAID	Hardware RAID 6 Double Fault Tolerance w/ HW XOR Engine
Intel UHD630 QuickSync GPU w/ GPU Tuned FW & Services	GPU	Intel UHD630 QuickSync GPU w/ GPU Tuned FW & Services (Optional Nvidia GPU card)
Microsoft Windows Server 2016 Standard 64bit	OS	Microsoft Windows Server 2016 Standard 64bit
550W Delta Dual Redundant hot swap Output @ 100-240V, 8-10.5A, 50-60Hz	Power	1200W Delta Dual Redundant hot swap Output @ 100-240V, 10-19.5A, 50-60Hz
Standard 19" Rackmount w/Rails 2U height 444mm(W) x 87.6mm(H) x 670(D)	Physical	Standard 19" Rackmount w/Rails 4U height 444mm(W) x 178mm(H) x 670(D)

Shield Key R12 NVR		Shield Key R26 NVR
3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)	Warranty	3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)
12x front accessible HDD's, Redundant Power Supplies, Fans	Hot-Swap	24 or 36x front accessible HDD's, Redundant Power Supplies, Fans
8 x 3.1, USB Ports, 1x Serial RS232	USB/Serial	8 x 3.1, USB Ports, 1x Serial RS232
D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)	Video Display	D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)
Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned.	VMS	Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned
Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)	GPU Support	Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)



<h2>Shield Key X4</h2> <p>4 Bay Rugged Mobile</p> 	<h2>Shield Key X2 POE</h2> <p>2 Bay Rugged Mobile w/ POE</p> 
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">15TB</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">32</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">550Mb</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">2840</div> </div> <p>Max Storage Max Cameras Throughput Total FPS</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">4TB</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">24</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">350Mb</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">1920</div> </div> <p>Max Storage Max Cameras Throughput Total FPS</p>

Shield Key X4 32 Camera Rugged NVR		Shield Key X2 16 Camera Rugged NVR
Intel® Core™ i3-7600 Processor 4 Core / 16GB DDR4 Memory	Processing	Intel® Core™ i3-7600Te Processor 4 Core / 16GB DDR4 Memory
Up to: 15TB RAW. 4x SSD (480GB, 960GB, 1.92TB, or 3.84TB Ruggedized, SATA 6Gb/s 3.5" SDD's. Video Surveillance Certified	Video Storage	Up to: 4TB RAW. 2x SSD (480GB, 960GB, 1.92TB, or 3.84TB Ruggedized, SATA 6Gb/s 3.5" SDD's. Video Surveillance Certified
240GB V-NAND Flash SSD SATA3	System Storage	240GB V-NAND Flash SSD SATA3
Dual 1Gbit Ethernet RJ45 Copper ports	Networking	Dual 1Gbit Ethernet RJ45 Copper ports + 4x 1Gb POE ports
Hardware RAID 5 Single Fault Tolerance w/ HW XOR Engine	RAID	RAID Mirroring Fault Tolerance
Intel UHD530 QuickSync GPU w/ GPU Tuned FW & Services	GPU	Intel UHD530 QuickSync GPU w/ GPU Tuned FW & Services (Optional Nvidia GPU card)
Microsoft Windows 10 Enterprise 64bit	OS	Microsoft Windows 10 Enterprise 64bit
6V to 36V DC-In, 3 Pin Terminal Block, 16 Mode Ignition Control 80V Surge Protection. AC 160W power adapter Included	Power	6V to 36V DC-In, 3 Pin Terminal Block, 16 Mode Ignition Control 80V Surge Protection. AC 160W power adapter Included
Ruggedized, mobile, fanless operation 175mm(W) x 250mm(H) x 210mm(D) 6.8" x 9.8" x 8.3"	Physical	Ruggedized, mobile, fanless operation 260mm(W) x 79mm(H) x 215mm(D) 10.2" x 8.5" x 3.1"

Shield Key X4 Rugged NVR		Shield Key X2 Rugged NVR
3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)	Warranty	3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs)
-40°C to 55°C (-40°F to 131°F) Operating. 5% to 95% Humidity, non-condensing	Temperature	-40°C to 75°C (-40°F to 167°F) Operating. 5% to 95% Humidity, non-condensing
IEC 60068-2-27, SSD: 50G @ wallmount, Half-sine, 11 ms IEC 60068-2-64, SSD: 5Grms, 5Hz to 500Hz, 3 Axis	Shock/Vibe	IEC 60068-2-27, SSD: 50G @ wallmount, Half-sine, 11 ms IEC 60068-2-64, SSD: 5Grms, 5Hz to 500Hz, 3 Axis
D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)	Video Display	D-Sub, DVI-D and HDMI. Supports Triple Monitor (NOT Recommended to run video client on this server)
Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned.	VMS	Milestone XProtect, Avigilon ACC6 or ONSSI Ocularis 5 Pre-loaded, GPU Active & Performance tuned
Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)	GPU Support	Intel Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel InTru 3D, Intel Clear Video HD Technology, Intel Insider, Intel UHD Graphics. HWA Encode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only)

