



3.5 İNÇ SABİT DİSK VERİ SAYFASI

Akıllı. Sağlam. Güvenli. Yapay Zekalı Güvenlik Uygulamaları için ideal hale getirilmiştir

Seagate[®] SkyHawk[™] AI, güvenlik çözümlerinde etkin bir yapay zeka (AI) için dünyanın amaca yönelik tasarlanmış ilk diskidir.





En Uygun Uygulamalar

- Ağ video kayıt cihazları (NVR)
- Yapay zekanın etkin olduğu NVR sistemleri
- Video-edge NVR'ler
- Gelişmiş analizlere sahip NVR'ler

Önemli Avantajları

Her zaman çalışır durumda olan ve yapay zekanın etkin olduğu güvenlik sistemlerinde yapay zeka için ek iş yükü desteğiyle birlikte, üstün görüntü bütünlüğü için **ImagePerfect™ Al üretici yazılımı**.

64 adet HD kameraya kadar aynı anda ve kesintisiz kayıt yaparken **ek olarak 16 adet** yapay zeka akışını da destekleyen özel tasarım.

Her zaman çalışır durumda olan ve yapay zekanın etkin olduğu güvenlik sistemlerinde gerek duyulan **ağır iş yükleriyle başa çıkmak üzere tasarlandı**. Yılda 550 TB iş yükü ile SkyHawk AI, standart güvenlik disklerine göre 3 kattan daha fazla iş yüküyle başa çıkmak üzere tasarlandı.

16'dan fazla yuvaya sahip NVR sistemlerinde üstün ve sürdürülebilir performans için **gelişmiş titreşim yönetimi**.

2 milyon saat arızalar arası ortalama süre ve 5 yıllık sınırlı garanti sayesinde **artırılmış** güvenilirlik ve azaltılmış toplam sahip olma maliyeti.

Tüm SkyHawk Al disklerinde bulunan ve sektörde lider veri kurtarma oranlarına sahip Seagate güvenlik laboratuvarlarına erişim sağlayan ücretsiz 2 yıllık Rescue Veri Kurtarma Hizmet planları sayesinde **rakipsiz veri koruması**.





Teknik Özellikler	10.TD			
Standart Model Numaraları	10 TB	8 TB	6 TB	4 TB
Arabirim	ST10000VE0004	0.0000.50004	ST6000VE001	ST4000VE00
Özellikler ve Performans	SATA 6 Gb/sn	SATA 6 Gb/sn	SATA 6 Gb/sn	SATA 6 Gb/sr
Desteklenen Disk Yuvası				and the second
Yapay Zeka Akışları ¹	16+	16+	16+	16+
HD Kamera Desteği	16	16	16	16
Maks. Sürdürülebilir Veri Aktarma Hızı OD (MB/sn)	En fazla 64 adet	En fazla 64 adet	En fazla 64 adet	En fazla 64 ade
Önbellek (MB)	235 MB/sn	235 MB/sn	226 MB/sn	226 MB/sn
Gövenflidik/Vex Börünlágá	256	256	256	256
Kararmaya Karşı Dayanıklı				HEAD NAME OF STREET
Yükleme/Boşaltma Çevrimleri	Evet	Evet	Evet	Evet
Okunan Her Bit Başına Onarılamayan Okuma Hataları, Maks.	300.000	300.000	300.000	300,000
Yıllık Çalışma Süreleri (7/24)	10E15 başına 1 tane	10E15 başına 1 tane	10E15 başına 1 tane	10E15 başına 1 taı
İş Yükü Oranı Limiti (WRL) 2	8.760	8.760	8.760	8.760
Arızalar Arası Ortalama Süre	550	550	550	550
Garanti, Sınırlı (yıl) ³	2.000.000 sa	2.000.000 sa	2.000.000 sa	2.000.000 sa
Güc Yönetimi	5	5	5	
	NO STATE OF THE PARTY OF	THE RESERVE OF THE PERSON OF T		5
Başlatma Akımı, Tipik (12V, A)	1,8	1,8	1,8	
Ortalama Çalışma Gücü (W)	7,2 W	7,2 W	9.5 W	1,8
Boşta Ortalaması (W)	4,9 W	4,9 W	7,5 W	9,5 W
Bekleme Modu/Uyku Modu, Tipik (W) /oltaj Toleransı (5 V)	0,8/0,8	0.8/0.8	0,6/0,6	7,5 W
/oltaj Toleransi (5 V)	±%5	±%5	±%5	0,6/0,6
ortaj i oleransi (12 V)	±%10	±%10	±%10	±%5
			1/810	±%10
alışır halde (ortam, min °C)	5	5	5	经长期首条 经 等原则
alışır halde (disk kutusu, maks. °C) ⁴	70	70	70	5
alışmaz halde, (ortam, min. °C)	-40	-40		70
ziksel			-40	-40
ikseklik (mm/inç, maks.)	26,11 mm/1,028 inc	26,11 mm/1,028 inc	26 11 14 200 1	84 /3月本第45月20日
enişlik (mm/inç, maks.)	101,85 mm/4,01 inç	101,85 mm/4,01 inc	26,11 mm/1,028 inç	26,11 mm/1,028 inç
erinlik (mm/inç, maks.)	146,99 mm/5,787 inç	146,99 mm/5,787 inç	101,85 mm/4,01 inc	101,85 mm/4,01 inç
urlık (g/lb)	650 g/1,433 lb	650 g/1,433 lb	146,99 mm/5,787 inç	146,99 mm/5,787 inç
rton Birim Miktarı	20	20	705 g/1,55 lb	705 g/1,55 lb
let Başına Karton Sayısı/Katman Başına Karton Sayısı	40/8	20	20	20

^{1 16} adel yapay zeka akici = 8 yapay zeka kanali.

seagate.com



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² Skyklawk Al gövenlik diskleri her zuman 550 TByril düzeyindeki iş yüküyle çalışır duremda olacak şokilde tatarlanmıştır. Daha yöktek işlem iş yükleri için Scagarc'in işletme sındı disk tekliflerine bakırı.

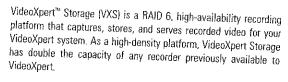
⁴ Seagate, aşın sıcaklık koşullamıda çalışlamanızı önemez. Aşın sıcaklık Koşullarında çalışını üninün kullanım ömiü azəfacaklır.

VideoXpert™ Storage

450 MBPS RECORDING THROUGHPUT, UP TO 96 TB RAW CAPACITY, RAID 6

Product Features

- Recording throughput up to 450 Mbps (300 Streams) meets demanding performance requirements for write-intensive applications
- Hardware designed to eliminate single points of failure, including RAID 6 Storage for optimum reliability
- Includes support for 3rd party cameras without a translation interface
- ONVIF compliant: Supports ONVIF S compliant cameras and devices
- Multicast recording support allows for recording of multicast data streams for restricted bandwidth scenarios
- Failover and redundant recording maximizes system uptime for mission-critical applications
- Serves up to 32 simultaneous playback streams independently of recording throughput



The VideoXpert Storage hardware platform is designed to maximize uptime and ensure that you never lose access to your mission-critical video data. Its RAID 6 storage configuration provides double parity protection of recorded data; the hard drive bay is cooled through the use of high capacity, redundant fans to ensure that the drives are kept at an optimum operating temperature; and its fully redundant power supplies guard against power supply failures.

The platform's operating system is contained on an SSD, freeing more space for video and ensuring high reliability as well as maximizing performance and throughput. Hard drives belonging to the RAID array are front-loading and hot-swappable, making it easy to remove and replace failed drives. VideoXpert Storage servers also maintain performance levels in both normal and RAID error conditions, preventing dips in performance and ensuring that users can always obtain the video they need through VideoXpert.

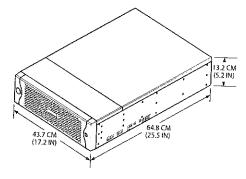
VideoXpert Storage hardware includes the Storage software, complete with a 3-year upgrade plan and Pelco support.



- Includes support for audio recording and playback for Pelco cameras
- Includes VideoXpert Storage software with 3-year upgrade plan and full platform support
- Performance Levels Maintained during RAID Error Conditions

The Storage platform maximizes support for recording groups within VideoXpert. It allows you to configure pre- and post-event recording periods within VideoXpert, so that you capture the appropriate amount of video for any event. You can also configure "bump-on-alarm" recording schedules. You can set VideoXpert Storage to operate using unicast or multicast streams, making Storage easily adaptable to your surveillance network. VideoXpert Storage also supports failover and redundant recording schemes, ensuring your video remains available even if a single Storage server in the cluster fails

The VideoXpert Storage platform natively supports third-party IP cameras as well as Optera cameras, so you can bring your 3rd party cameras into VideoXpert without expensive translation interfaces. Using VideoXpert Storage, your third-party cameras appear and operate within VideoXpert just as native Pelco cameras.









TEHNINAL SPENINGSTIONS

MODELS

Your model number consists of your VideoXpert software distribution, the base model (VXS), the total storage capacity, and country code, if you want the unit shipped with a particular power cord. For example, an ultimate model with 96 TB storage with a US power cord is modeled as U1-VXS-96-US.

Distribution	Model	Storage (in TB)	Country Code (optional)
(Ultimate) U1 (Enterprise) E1		48	
	VXS	72	US = North America EUK = Europe/United
		96	Kingdom

SUPPLIED ACCESSORIES

USB drive

Contains resource and recovery information

Rack Mount Kit

Brackets, rails, and hardware

Power cord

For applicable models, otherwise, order the

PWRCRD model supporting your region

OPTIONAL ACCESSORIES

VXS-HDD-6TB

Replacement 6 TB hard drive and carrier for

VXS Models

PWRCRD-S-AR PWRCRD-S-AU

Standard power cord, Argentina

Standard power cord, Australia

SYSTEM

Processor

Intel Xeon E3-1276 v3

Memury

32 GB DDR3 ECC

Operating System

Microsoft Windows Server 2012

SSD Storage (OS) Raid Level 200 GB RAID 6

Effective Capacity

VXS-48 32.70 TB VXS-72 54.50 TB VXS-96 76.40 TB

Drive Interface

SAS/SATA II

USB Ports

USB 2.0 2 front, 2 rear

USB 3.0 2 rear

NETWORK

Interface

2, 1 Gbps Ethernet RJ-45 ports (1000Base-T)

Recording Throughput Viewing Throughput

300 Streams/450 Mbps 32 Streams/176 Mbps

FRONT PANEL INDICATORS

Unit Status

Blue, red, off

Primary Network

Green, off Green, off

Secondary Network Hard Disk Status

OS Drive (SSD)

Amber, off

RAID Drives (HDD)

Blue, red, off

Power Status

Green, off

Power Fail Status

Red. off

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www.pelco.com/community

POWER

Power Input	100 to 240 VAC, 50/60 Hz, autoranging
Power Supply	Internal, redundant
Power Consumption* 120 VAC	Operating Average
48 TB	308 W, 2.57 A, 1051 BTU/H
72 TB	361 W, 3.01 A, 1231 BTU/H
96 TB	414 W, 3.45 A, 1411 BTU/H
240 VAC	
48 TB	302 W, 1.26 A, 1031 BTU/H
72 TB	354 W, 1.48 A, 1209 BTU/H
96 TB	406 W, 1.69 A, 1386 BTU/H

^{*}Power budgets represent worst-case scenarios. Actual power consumption may vary based on workload and environment, but a power budget estimate is usually 20%-25% greater than actual power measurements when using the Linpack HPL workload application.

ENVIRONMENTAL

Operating Temperature

10° to 35°C (32° to 95°F) at unit air intake

Storage Temperature

Relative Humidity
Operating

20% to 95%, noncondensing 5% to 95%, noncondensing

-40°to 60°C (-40° to 140°F)

Non-Operating
Operating Altitude
Operating Vibration

-16 to 3,048 m (-50 to 10,000 ft) 0.25 G at 3 Hz to 200 Hz at a sweep rate of

0.5 octave/minute

Note: The temperature at the unit air intake, measured at the front of the bezel, can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent hard disk drive failure and unit damage, make sure the temperature at the air intake of the unit is continuously within the operating temperature range.

PHYSICAL

Construction

Steel and plastic cabinet

Finish

Front Panel

Dark gray with metallic silver end caps

Chassis Sil Dimensions (without rails) 64

64.8 x 43.7 x 13.2 cm (25" D x 17.2" W x 5.2" H)

Unit Weight

35.5 kg (78 lb)

Mounting (RU)

3 RU (rack rails and hardware supplied)

CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Class A
- ICES-003
- UL/cUL Listed
- C-TickCCC*
- KCC

At the time of this publication, certifications are pending. Consult the factory or www.pelco.com for the current status of certifications.

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VideoXpert™

SCALABLE VIDEO MANAGEMENT AND SURVEILLANCE SYSTEM

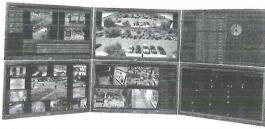
Product Features

- Designed to eliminate single points of failure and ensure reliability though fault-tolerant software, distributed architecture, and multiple levels of redundancy
- Provides scalability and modular expansion
- Provides migration paths for Endura® and Digital Sentry® systems
- Aggregates VMS networks and manage all video through a single system (VideoXpert Ultimate distributions)
- Available in hardware and software-only distributions, for measured performance or convenient migration of customer-owned hardware
- Microsoft® Windows®-based for easy setup and maintenance
- VX Toolbox provides administration interface for device and system management capabilities
- Supports up to 6 monitors per workstation, each driven by independent CPUs, displaying up to 25 streams per monitor
- Workstations available with 3D mouse and programmable keyboard accessories to maximize operator control

VideoXpert is a video management solution designed to fit surveillance operations of any size. Whether your operation has 100 cameras or 10,000, VideoXpert presents a solution to display, record, and manage your video resources.

VideoXpert servers can be clustered to provide redundancy and scalability within a single environment, enabling the system to grow in tune with your surveillance needs. As you add cameras, users, or recording devices, you can add servers and storage, enabling the system to support the additional resources and perform to your expectations. VideoXpert Ultimate can even aggregate other VideoXpert systems, tying multiple VideoXpert systems into a single interface. Through aggregation, administrators can build and maintain a concerted video management system containing multiple sites.

Designed for Windows platforms, VideoXpert is easy to install, quick to setup, and should be familiar to most users. The system supports unicast and multicast transmission modes, making it easy to adapt to your current network scheme. Simplified interfaces ensure that users can adopt and use the system with relative ease. From the Webbased Admin Portal, you can configure the system, manage the database of devices, configure users and permissions, and assign cameras to recording devices. Through the Ops Center software, operators gain access to high quality video and powerful investigative tools.



- Extensible through plug-ins including mapping, video information overlays (eConnect), and license plate recognition (PlateSmart)
- Create and assign tags, organizing network resources as you see fit
- Native RAID 6 storage solution supports 3rd party and Pelco Optera cameras
- ONVIF compliant: Supports ONVIF S compliant cameras and devices
- Investigation mode enables operators to synchronize video playback and export investigative playlists covering scenes of interest
- Supported languages: German, Spanish, French, Italian, Korean, Polish, Portuguese, Russian, Turkish, Arabic, Japanese and Chinese (Simplified)

Administrators can migrate current Endura and Digital Sentry hardware and environments to VideoXpert, re-purposing hardware and reusing current video management infrastructures while gaining the benefits of VideoXpert. VideoXpert can also utilize NSM5200/NSM5300 and Digital Sentry storage hardware as recording solutions, preserving the video stored on those devices while providing access to VideoXpert features.

As distributed systems, VideoXpert Ultimate and Enterprise architecture ensure that there is no single point of failure that would compromise the system or video recording services. The system is designed with multiple levels of redundancy—through both purposebuilt hardware and sophisticated failover and redundant recording schemes—maximizing system uptime. The architecture allows individual components to continue operating in the event of failures elsewhere in the system.

VideoXpert can integrate with physical security systems and other building systems to deliver situational awareness and control. Built around open standards, VideoXpert includes a complete application programing interface (API), software development kits (SDKs), and dedicated technical support, allowing other systems' manufacturers to develop interfaces leveraging VideoXpert's capabilities. VideoXpert also supports third-party IP cameras, allowing users to choose across hundreds of camera options from Pelco and third-party partners when configuring a system.







VideoXpert consists of four major components: Core, Media Gateway, Ops Center, and Storage Server. The Core performs central management operations, maintaining the system database, administering user rights and permissions, routing traffic, and other central operations. The Media Gateway handles all requests for video, ensuring that users at all levels of network access, LAN, WAN and even cellular, receive the right type of video for their application. The Ops Center Client is the operator console, providing an intuitive, but powerful interface from which users can access and investigate video throughout the system. The Storage Server (VXS) records video and delivers recorded video to users.

CORE

The Core is the heart of the VideoXpert system, it maintains the database of cameras and recording devices. The Core also hosts a convenient Web interface called the Admin Portal, from which you can configure and manage the system. Through the Admin Portal, you can administer user accounts and permissions, determining the system functions and devices users can access. You can create and assign "tags" to quickly organize cameras and devices within the system. You can also configure and respond to events within the system.

The Core browser provides basic access to video streaming resources, ensuring that users with appropriate permissions can view video from the system even without a hard client, using just a standard web browser.

MEDIA GATEWAY

The Media Gateway routes video traffic to appropriate users as requested. When a user requests a video stream, the Core fields the request and determines whether the user possesses the appropriate permissions to view the video stream. If the user can view the stream, the Media Gateway connects the user with the appropriate device — camera, encoder, or recorder as necessary.

Like Core servers, Media Gateways can be added to VideoXpert modularly, allowing a system with 1000 cameras to support 20 users, or a system with 100 cameras to support 200 users. You can add Media Gateways to the system in tune with media delivery needs.

CORE/MEDIA GATEWAY COMBINATION

While you can leverage separate Core and Media Gateway servers for systems of sufficient scale, most systems can easily support a single server acting as a combined, Core and Media Gateway for your VideoXpert server. The double-duty server provides the complete range of VideoXpert functionality that you would expect for systems with fewer than 2000 cameras and 100 simultaneous users.

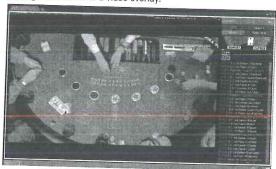
OPS CENTER

The Ops Center is a Windows-based application, providing an optimal environment from which users can watch live and recorded video. With the support of Enhanced Decoders, the Ops Center supports up to six monitors, each capable of displaying up to 25 video streams simultaneously. Through the Ops Center, users can configure and recall complete workspaces, enabling operators to quickly log in and get to work.

The application provides mechanisms to sort cameras by tags and other criteria, making it easy for users to find the cameras they need. Users can switch between live and recorded video on the fly, ensuring a seamless viewing experience. With appropriate permissions, users can also share workspaces and even use the same tabs simultaneously, enabling collaboration within your surveillance operations.

The Ops Center also provides an Investigation Mode, through which users can create playlists from multiple video clips encompassing important scenes from an investigation. Users can export and encrypt their investigations, storing clips relevant to their investigation independent of the system's network video storage for evidentiary safe-keeping and quick access.

The Ops Center supports modular plug-ins, exposing additional functionality for operators as required by your surveillance operations. The **Mapping** plug-in enables operators to arrange and find cameras on maps. Through mapping, operators can find and the camera providing the view they need, when they need it. The **PlateSmart** plug-in exposes license plate numbers, to track vehicles as they come and go. The **eConnect** plug-in displays real-time gaming information as a video overlay.



STORAGE

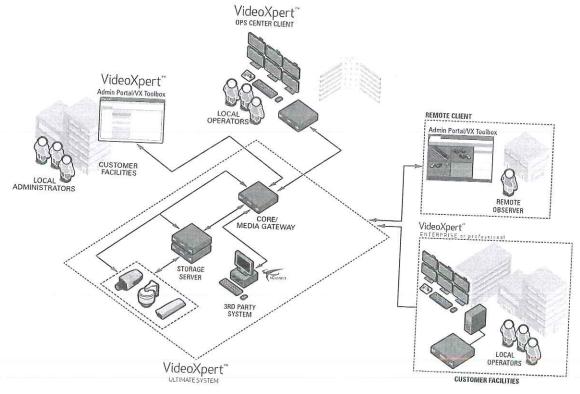
VideoXpert Storage (VXS) is a RAID 6, high-availability recording platform that captures recorded video for your VideoXpert system. The system's operating system is contained on an SSD, freeing more space for video and ensuring higher reliability; hard drives belonging to the RAID array are front-loading, making it easy to remove and replace failed drives. Storage servers also maintain performance levels in both normal and RAID error conditions, preventing dips in performance and ensuring that users can always obtain the video they need through VideoXpert.

VideoXpert Storage natively supports third-party IP cameras via ONVIF S and driver packages, so you can bring your cameras into VideoXpert without expensive translation interfaces.

You can configure Storage through Admin Portal or VX Toolbox, making it easy to set recording schedules and assign cameras to your storage servers. Storage supports motion, alarm, and bump-on-alarm style recording, so you can always capture events relevant to your environment at high quality. Storage also supports redundant recording, ensuring that VideoXpert continues recording video even if a single Storage server falls offline.

SYSTEM TOPOLOGY

VideoXpert Ultimate allows for expansion at any level of your security environment. Your system begins with a single server hosting the Core and Media Gateway. In addition your system requires the OPS Center and Storage Server. As your surveillance needs grow, you can add servers to expand management networks



VIDEOXPERT ACCESSORY SERVER

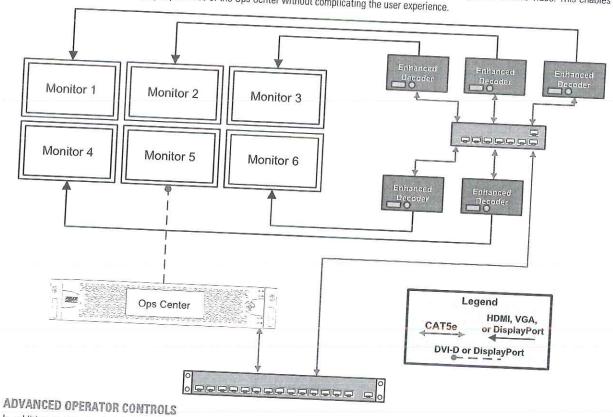
You can install the VideoXpert Accessory Server to provide NTP, basic DHCP, active failover, and load balancing services for smaller networks. The Accessory Server offers a native, multipurpose solution to control your time and addressing services from within VideoXpert.

When acting as a load balancer, the Accessory Server bridges multiple Core/Media Gateway (CMG) servers, optimizing performance and providing redundancy for your VideoXpert network. With the Accessory Server, you can easily increase your VideoXpert network's capacity and ensure the system's uptime so that users always have access to video.

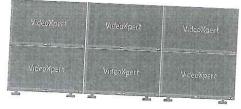
OPERATOR WORKSPACE TOPOLOGY

The Ops Center supports up to six monitors: one connected directly to the Ops Center, and the other five driven independently by Enhanced Decoders. The Enhanced Decoders enable each monitor connected through a workstation to display up to 25 video streams while maintaining a seamless user

Enhanced Decoder-driven monitors operate just like native monitors; users can move windows across monitors seamlessly. But, when the user requests a video stream or plug-in, the Enhanced Decoder communicates directly with VideoXpert servers to get and decode video. This enables operators to maximize the display-capabilities of the Ops Center without complicating the user experience.



In addition to the standard keyboard and mouse, Ops Center workstations support an Enhanced Keyboard, and Enhanced Mouse, and the KBD5000. The Enhanced keyboard includes programmable keys to which operators can map shortcuts to their favorite tabs and workspaces; The new Enhanced Mouse or your existing KBD5000 are mapped to the full range of Ops Center controls; an operator can perform any and all operations using either control.









ENHANCED KEYBOARD



ENHANCED 3D MOUSE

Processor		Core/CMG	Media Gatew	ay Ops Center	Storage	Enhanced Decoder Accessory Server Shared Display Decode
to test as two total		Intel® Xeon® E3-1275 v3		Intel® Xeon®	9	
Memory		32 GB DDR3 EC	C 8 GB D	DR3 Non-ECC	E3-1276 v3	W. G. G. G. G. G. G. G. G. G. G. G. G. G.
Operating Sy	untare.			32 GB DDR3 E	CC 8 GB DDR4	
		Microsoft® Windows® Server 2012		Windows 7 (64 bi Windows 10 (64 b	it) Windows® Serv	ver Windows 10 IOT Enterprise
SSD Storage		480 GB	120 GB	120 GB	2012	(Shared Display Decoder)
	Storage	1 TB		N/A	200 GB	256 GB
HDD	RAID Level		N/A	IVA	Up to 96 TB	
1100	Effective	1		RAID 6		
	Capacity	N/A		N/A	VXS-48: 32.70 T	B N/A
Optical Drive	Optical Drive			0.8(0,0)	VXS-72: 54.50 TI VXS-96: 76.40 TE	3
	USB 2.0		N/A	DVD±RW	17.0 00. 70.40 11	N/A
1100 0	USB 3.0		1 front, 2 rear		2 front, 2 rear	27,000,07
USB Ports	USB 3.1		2 rear	2 rear		
	USB 3.1 Type-C		N		1 front A	
MINIMUM	SYSTEM			/A		1 front, 4 rear
REQUIREM		Core/CMG	Media Gateway	Ops Center & Shared Display Decoder	Storage	Enhanced Decoder Accessory Server
200		Intel i7	Intel i7	64-bit CPU	Intel® Xeon® E3-1276 v3	Enhanced Decoder and
/lemory		16 GB	8 GB	8 GB (2x 4 GB dual- channel) ²	32 GB DDR3 ECC	Accessory Server are not available as a software
perating System		Wilcosoft Windows Server 2012		Windows 7 SP1 or later (64-bit) or Windows 10 (64-bit)	Microsoft® Windows® Server	distribution.
deo System		Intel	HD Graphics P4700 or be	tter	2012	Refer to Ops Center minimum system requirements for Shared
terface					VGA interface	Display Decoder requirements.
oilia a ta	utions tested without a al-channel memory may	ntivirus software inst				- requirements.

		Core/CMG	Media Gateway		Storage	Enhanced Decoder Accessory Server Shared Display Decod
Video System Memory		Intel HD Graphics P4700		Intel HD Graphics P4700; supports optional upgrade		Intel HD
Memory			Shared	Shared; 1 GB for OPS WKS6		Shared
Video Outputs	6	2x DisplayF	ort, DVI-D, VGA	2x DisplayPort, DVI-D VGA; Supports up to 6 outputs for OPS-	VGA interface; VXS models are designed to be configured remotely through web	DiI D
Max Resolution	DisplayPort	3840 x 2160 at 6		WKS6	interface.	
	DVI-D and VGA		1920 x 1200 at 60 hz			3840 x 2160 at 60 hz
Video Standards	NTSC	60 Hz				1920 x 1200 at 60 hz
AFTIALO DIANA	PAL	Fare-to-	75 Hz			60 Hz
NETWORKIN	G	1				50 Hz
nterface		Core/CMG	Media Gateway	Ops Center	Storage	Enhanced Decoder Accessory Server Shared Display Decoder
hroughput		Gigabit Ethernet (1000Base-T) ports (2x)				Gigabit Ethernet (1000Base-T)
			N/A		450 Mbps recording / 176 Mbps playback (Simultaneously)	N/A

PROPERTY OF THE PROPERTY OF TH

Buttons		Core/CMG	Media Gateway	Ops Center	Storage	Enhanced Decoder Accessory Server Shared Display Decode
	Unit Status		Power, configu	ration/reset		Power
Primary Network Secondary Network Software Status Indicators Hard Disk Status	Green, amber, red			Blue, red, off	White, flashing white	
			Green, amber, red		Green, off	Green, orange, off
	Network		Green, amber, red		Green, off	N/A
	Software Status	Green, а	mber, red (based on diagno	neticel		
	1	Green, red, off (behind bezel)		N/A	<u> </u>	
	Hard Disk Status				OS Drive (SSD): Amber, off	
				RAID Drives:	Flashing white	
	Power Status				Blue, red, off	
Power Fail Status		N/A		Green, off	N/A	
OWER					Red, off	N/A

		Core/CMG	Media Gateway	Ops Center	Storage	Enhanced Decoder Accessory Server	
Power Input						Shared Display Decoder	
Power Supply		100 to 240 VAC 50/60 Hz, autoranging					
томы эцруу		Internal			Internal, Redundant	External, 65 W	
100 VAC		160 W, 1.60 A, 547 BTU/H 160 W, 1.39 A, 547 BTU/H			Power Supply		
	115 VAC				N/A		
	120 VAC				N/A		
			N/A		414W, 3.45A,		
220 VAC		160 W, 0.72 A, 547 BTU/H				19.5 VDC, 3.34 A	
240 VAC							
* Power c	240 VAC * Power consumption is based upon		N/A		N/A 406W, 1.69A, 1386 BTU/H *		

^{*} Power consumption is based upon maximum capacity.

Operating Temperature	Core/CMG	Media Gateway	Ops Center	Storage	Enhanced Decoder Accessory Server Shared Display Decoder
Non-Operating Temperature	10° to 35°C (32° to 95°F) at unit air intake (front of unit)			5° to 35°C (41° to 95°F)	
Operating Relative Humidity	-40° to 65°C (-40° to 149°F)			-40° to 60°C (-40° to 140°F)	-40° to 65°C (-40° to 149°F)
Jon-Operating Relative Humidity	20% to 80%, noncondensing			20% to 95%, noncondensing	20% to 80%, noncondensing
perating Altitude	10% per hour 5% to 9			5% to 95%, noncondensing	10% per hour
perating Vibration ote: The temperature at the unit air in	0.25 G a	-15 to 3,048 m (-5) at 3 Hz to 200 Hz at a swee	en rate of 0.5 cotour /	minute	0.66 GRMS

Note: The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating

Const		Core/CMG	Media Gateway	Ops Center	Storage	Enhanced Decoder Accessory Server
Construction			Shared Display Decoder			
Finish Front Panel		T				
Chassis		Black				
Dimensions (D x W x H)		 	Dark gray			
		50.0	50.8 x 43.4 x 8.9 cm (20 x 17.1 x 3.5 in)			Black
						3.6 x 17.8 x 18.2 cm (1.14 x 7.0
Mounting (RU					(25 x 17.2 x 5.2 in)	x 7.2 in)
Init Weight		13.06 kg (28.8 lb)			3 RU	N/A (mount included)
		1 .0.00 NG (20.0 ID)	12.38 kg (27.29 lb)	12.38 kg (27.29 lb)	35.5 kg (78 lb)	1.41 kg (3.12 lb)

SOFTWARE LICENSES, SERVERS, AND WORKSTATION MODELS

While Pelco servers, workstations, and recorders do not require activation licenses, certain software features and platform upgrades do. Aggregated cameras and cameras recorded to VideoXpert Storage require a single license per channel. Consult Pelco Sales to ensure you obtain all the necessary equipment and licenses

Due to the complexity of network and system design for larger distributions, VideoXpert Ultimate requires either training certification, or that the installation be Due to the complexity or network and system design for larger distributions, videoxpert ortimate requires either training certification, or that the installation be performed by Pelco Professional Services. While not required for Enterprise distributions, it is strongly recommended that system installers and administrators be Pelco-

Distribution	Model	
	CMG-SVRP	VideoXpert Core and Media Cotange III
	COR-SVRP	VideoXpert Core and Media Gateway all-in-one hardware; EU, US, and UK power cords included VideoXpert Core server hardware; EU, US, and UK power cords included
(Ultimate) U1 or (Enterprise) E1	MGW-SVRP	VideoXpert Core server hardware; EU, US, and UK power cords included Media Gateway server hardware; EU, US, and UK power cords included
	NSM-1UP	Media Gateway server hardware; EU, US, and UK power cords included Upgrade license enabling NSA/5209/5209
	DSS-1UP	Upgrade license enabling NSM5200/5300 models to support VideoXpert systems, 100 channel licenses included Upgrade license enabling DS source to a support VideoXpert systems.
	1C-SUP1	Upgrade license enabling DS servers to serve as recorders within VideoXpert, 50 channel licenses included Software upgrade subscription; entitles you to upgrades for one year
	1C-SUP3	Software upgrade subscription; entitles you to upgrades for three years
	1C	Camera license
	32C	32 camera licenses
E1	OPS-WKSP	Ops Center workstation; EU, US, and UK power cords included
E1	OPS-WKS6P	Ups Center workstation with warm 1.1
E1	BASE	(D10U-A2-DEC). EU, US, and UK power cords included Enterprise base license, including ass Co.
U1 AGG-1C		Enterprise base license, including one Core, one Media Gateway, one VXS license, and 32 camera licenses Ultimate site upgrade license for managing one camera

STORAGE MODELS

Use the table below to find the model number for your VideoXpert Storage Server. The model number consists of the VideoXpert distribution, model, the amount of storage, and the country-code (where applicable). Models ending in US and EUK include power cords for their respective regions; models without a country code do not. For example, an Enterprise Storage Server with 48 TB of storage for the US is labeled E1-VXS-48-US.

Distribution	Model	Storage (in TB)	Country Code (optional)		
(Ultimate) U1 (Enterprise) E1	0,000		oute (optional)	Description VXS with 48 TB storage (32.70 TB effective storage)	
	VXS	48	EUK = Europe/United Kingdom		
		1998		VXS with 72 TB storage (54.50 TB effective storage)	
OXPORT PLAY		96		VXS with 96 TB storage (76.40 TB effective storage)	

The VideoXport player decrypts, validates, and plays-back secured exports from VideoXpert. You can download the player directly from VideoXpert along with an exported video file or you can download it from Pelco.com. These are the minimum system requirements for non-VideoXpert machines running the VideoXport player: Hardware Requirements

4 GB RAM

200+ GB of free HDD space or more GPU that supports OpenGL 3.0 or higher 1024 x 768 or higher screen resolution 100/1000 Ethernet Network Interface Card

Sound Card

Software Requirements

Windows 7 Pro or Ultimate 64 bit or higher

.NET 4.6.1 or higher OpenGL 3.0 or higher Direct3D 9 or higher

TREMINIMARASINITATIONS

SUPPORTED LANGUAGES

The Admin Portal and Ops Center interfaces are available in:

Portuguese

Spanish

Russian

French

Turkish

Italian

Arabic

Korean

· Chinese (simplified)

Polish

Japanese

SUPPLIED ACCESSORIES

Keyboard (Core, Media Gateway, CMG, and Ops Center models) Mouse (Core, Media Gateway, CMG, and Ops Center models) USB drive containing resource and recovery information Rack mount kit

Power cord (for applicable models)

OPTIONAL POWER ACCESSORIES

	TO TEACHINE
PWRCRD-S-AR	Standard power cord, Argentina
PWRCRD-S-AU	Standard power cord, Australia
PWRCRD-S-EU	Standard power cord, Europe
PWRCRD-S-UK	Standard power cord, United Kingdon
PWRCRD-S-US	Standard power cord, United States
PWRCRD-R-AR	Round power cord, Argentina
PWRCRD-R-AU	Round power cord, Australia
PWRCRD-R-EU	Round power cord, Europe
PWRCRD-R-UK	Round power cord, United Kingdom
PWRCRD-R-US	Round power cord, United States

VIDEOXPERT ACCESSORY SERVER

VX-A3-ACC

VideoXpert Accessory Server with US, Europe, and United Kingdom power cords

OPS CENTER CLIENT OPTIONAL ACCESSORIES

VX-A3-DEC

Enhanced Decoder and mount with US,

VX-A3-SDD

Europe, and United Kingdom power cords Shared Display Decoder with US, Europe, and

United Kingdom power cords

3DX-600-3DMOUSE

Enhanced 3D Mouse and Joystick

Y-U0023-G910KBD A1-KBD-3D-KIT2

Enhanced Keyboard

Enhanced Keyboard and 3D Mouse Combination Kit

STORAGE SERVER ACCESSORIES

VXS-HDD-6TB

Replacement 6 TB hard drive and carrier for

VXS Models

STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum, Steering Committee
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the International Standards for Organization / Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1), "Information Technology," Subcommittee 29, Working Group 11
- Compliance, ISO/IEC 14496 standard (also known as MPEG-4)
- Compliance, International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies'
- Compliance, Open Network Video Interface Forum (ONVIF) Profile S

CERTIFICATIONS

At the time of this publication, certifications for Class A products are pending. Consult the factory, our Web site (www.pelco.com), or the most recent B.O.S.S.® update

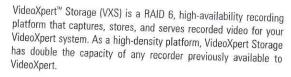
CE	Core/CMG	Media Gateway	Ops Center	Storage	Enhanced Decoder Accessory Server Shared Display Decoder	Enhanced 3D Mouse 3DX-600-3DMOUSE	Enhanced Keyboard Y-U0023-G910KBD
FCC, Part 15 ICES-003	Class A	Class A	Class A	Class A	Class B	Class B	Class B
UL/cUL Listed							
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VideoXpert™ Storage

450 MBPS RECORDING THROUGHPUT, UP TO 96 TB RAW CAPACITY, RAID 6

Product Features

- Recording throughput up to 450 Mbps (300 Streams) meets demanding performance requirements for write-intensive applications
- Hardware designed to eliminate single points of failure, including RAID 6 Storage for optimum reliability
- Includes support for 3rd party cameras without a translation interface
- ONVIF compliant: Supports ONVIF S compliant cameras and devices
- Multicast recording support allows for recording of multicast data streams for restricted bandwidth scenarios
- Failover and redundant recording maximizes system uptime for mission-critical applications
- Serves up to 32 simultaneous playback streams independently of recording throughput



The VideoXpert Storage hardware platform is designed to maximize uptime and ensure that you never lose access to your mission-critical video data. Its RAID 6 storage configuration provides double parity protection of recorded data; the hard drive bay is cooled through the use of high capacity, redundant fans to ensure that the drives are kept at an optimum operating temperature; and its fully redundant power supplies guard against power supply failures.

The platform's operating system is contained on an SSD, freeing more space for video and ensuring high reliability as well as maximizing performance and throughput. Hard drives belonging to the RAID array are front-loading and hot-swappable, making it easy to remove and replace failed drives. VideoXpert Storage servers also maintain performance levels in both normal and RAID error conditions, preventing dips in performance and ensuring that users can always obtain the video they need through VideoXpert.

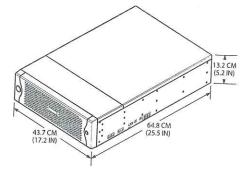
VideoXpert Storage hardware includes the Storage software, complete with a 3-year upgrade plan and Pelco support.



- Includes support for audio recording and playback for Pelco cameras
- Includes VideoXpert Storage software with 3-year upgrade plan and full platform support
- Performance Levels Maintained during RAID Error Conditions

The Storage platform maximizes support for recording groups within VideoXpert. It allows you to configure pre- and post-event recording periods within VideoXpert, so that you capture the appropriate amount of video for any event. You can also configure "bump-on-alarm" recording schedules. You can set VideoXpert Storage to operate using unicast or multicast streams, making Storage easily adaptable to your surveillance network. VideoXpert Storage also supports failover and redundant recording schemes, ensuring your video remains available even if a single Storage server in the cluster fails.

The VideoXpert Storage platform natively supports third-party IP cameras as well as Optera cameras, so you can bring your 3rd party cameras into VideoXpert without expensive translation interfaces. Using VideoXpert Storage, your third-party cameras appear and operate within VideoXpert just as native Pelco cameras.









REMINIMAL ABBREMENTS

MODELS

Your model number consists of your VideoXpert software distribution, the base model (VXS), the total storage capacity, and country code, if you want the unit shipped with a particular power cord. For example, an ultimate model with 96 TB storage with a US power cord is modeled as U1-VXS-96-US.

Distribution	Model	Storage (in TB)	Country Code (optional)	
(Ultimate) U1		48	US = North America EUK = Europe/United Kingdom	
(Enterprise) E1	VXS	72 96		

SUPPLIED ACCESSORIES

USB drive

Contains resource and recovery information

Rack Mount Kit

Brackets, rails, and hardware

Power cord

For applicable models, otherwise, order the

PWRCRD model supporting your region

OPTIONAL ACCESSORIES

VXS-HDD-6TB

Replacement 6 TB hard drive and carrier for

VXS Models

PWRCRD-S-AR PWRCRD-S-AU

Standard power cord, Argentina

Standard power cord, Australia

SYSTEM

Processor Memory

Intel Xeon E3-1276 v3 32 GB DDR3 ECC

Operating System

Microsoft Windows Server 2012

SSD Storage (OS)

200 GB

Raid Level

RAID 6

Effective Capacity

VXS-48 32,70 TB VXS-72 54.50 TB VXS-96

Drive Interface

76.40 TB SAS/SATA II

USB Ports

2 front, 2 rear

USB 2.0

USB 3.0

2 rear

NETWORK

Interface

2, 1 Gbps Ethernet RJ-45 ports (1000Base-T)

Recording Throughput

300 Streams/450 Mbps

Viewing Throughput

32 Streams/176 Mbps

FRONT PANEL INDICATORS

Unit Status Primary Network

Blue, red, off Green, off

Secondary Network

Hard Disk Status OS Drive (SSD) Green, off

RAID Drives (HDD)

Amber, off Blue, red, off

Power Status Power Fail Status

Green, off Red, off

Pelco by Schneider Electric

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POWER

Power Input Power Supply Power Consumption* 120 VAC	100 to 240 VAC, 50/60 Hz, autoranging Internal, redundant Operating Average
48 TB 72 TB 96 TB 240 VAC	308 W, 2.57 A, 1051 BTU/H 361 W, 3.01 A, 1231 BTU/H 414 W, 3.45 A, 1411 BTU/H
48 TB 72 TB 96 TB	302 W, 1.26 A, 1031 BTU/H 354 W, 1.48 A, 1209 BTU/H 406 W, 1.69 A, 1386 BTU/H

*Power budgets represent worst-case scenarios. Actual power consumption may vary based on workload and environment, but a power budget estimate is usually 20%-25% greater than actual power measurements when using the Linpack HPL workload application.

ENVIRONMENTAL

Operating Temperature

10° to 35°C (32° to 95°F) at unit air intake

Storage Temperature -40° to 60°C (-40° to 140°F)

Relative Humidity

Operating 20% to 95%, noncondensing Non-Operating 5% to 95%, noncondensing Operating Altitude -16 to 3,048 m (-50 to 10,000 ft) Operating Vibration 0.25 G at 3 Hz to 200 Hz at a sweep rate of

0.5 octave/minute

Note: The temperature at the unit air intake, measured at the front of the bezel, can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent hard disk drive failure and unit damage, make sure the temperature at the air intake of the unit is continuously within the operating temperature range

PHYSICAL.

Construction

Steel and plastic cabinet

Finish

Front Panel

Dark gray with metallic silver end caps Silver

Chassis

64.8 x 43.7 x 13.2 cm

Dimensions (without rails)

(25" D x 17.2" W x 5.2" H)

Unit Weight

35.5 kg (78 lb)

Mounting (RU)

3 RU (rack rails and hardware supplied)

CERTIFICATIONS/RATINGS

- · CE, Class A
- · FCC, Class A
- ICES-003 UL/cUL Listed
- C-Tick
- CCC*
- KCC

At the time of this publication, certifications are pending. Consult the factory or www.pelco.com for the current status of certifications.

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