

Horizon

by dvtel

Horizon 7.0

Network Video Recorder

Scalable and affordable video surveillance with enterprise-grade performance and functionality

The Horizon NVR delivers best-in-class performance, stability, and unique price positioning for video installations requiring up to 100 cameras. Horizon is an ideal choice for securing high-performance small-to-medium sized business video installations with independent or multiple sites.

Feature-rich, highly scalable and third party compliant with an open standard, Horizon offers unsurpassed value for environments like retail premises, offices, small to mid-size manufacturing facilities, warehouses, educational institutions, and more. Set-up is exceptionally simple with no operator training required, allowing users to view cameras and review recordings on dedicated workstations through a powerful EZ Client web interface from connected PCs.

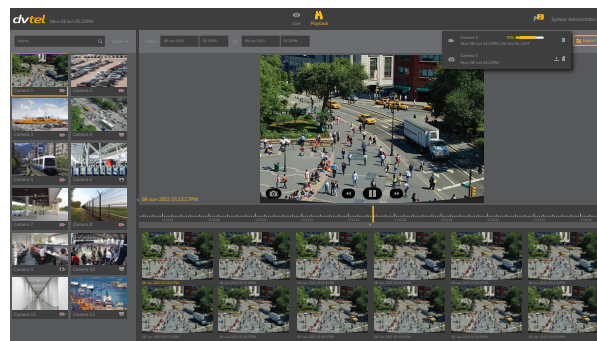
Key Features & Benefits

- Pre-loaded with Horizon management software
- Quick and easy to deploy
- ONVIF Profile S-conformant
- Sleek and modern EZ Client web interface
- Adaptive streaming for optimal viewing experience
- Health monitoring with DVTEL Cloud Services



- Enhanced and modern EZ Client web interface with sleek and efficient interface, allowing for effortless deployment, simple user experience, touch screen optimization and supported on multiple operating systems and browsers
 - Provides optimal viewing experience by allowing for fluid resizing and positioning of content based on the content to be displayed, the device type and screen resolution using responsive web design
 - Optimized for touch functionality in an ongoing effort to use the latest technology and techniques to enhance the user experience
- Thumbnail search option in Control Center and EZ Client for quick and easy forensic investigation
- Digital zoom indication in Control Center for PTZ zoom functionality

United VMS 7.0 EZ Client



Playback

System Features

Overview

- Auto discovery of IP cameras and encoders
- Feature-rich ControlCenter client application
- Supports third-party cameras and ONVIF Profile S-conformant edge devices
- Supports monitoring, search, snapshot and export from EZ Client
 - For additional information about Transcoder specifications, see *United VMS-7.0-ReleaseNotes*
- Supports up to two monitors
- Automatic software updates of client applications
- Mobile viewing applications supported over iPhone, iPad and Android mobile devices
- Integrates with access control systems

Search and Export

- Creates bookmark to mark a time of interest
- Applies Smart Search criteria to locate video for evidence
- Video and audio can be exported to DVTEL's proprietary file format or AVI file using industry-standard codecs, with or without audio
- Exported files have digital signature for evidence management
- Clips can be exported to a file or directly burned to DVD
- Thumbnail search functionality in ControlCenter and EZ Client
- Sites/system filter

Alarm Management

- Pre- and post-alarm recordings
- User-defined alarms can display live and playback video
- Sends alarms to a specific user, group or multiple recipients
- Accepts, snoozes, forwards or clears alarms
- Email notifications upon alarm or any other configured event

Monitoring

- Supports Guard Tours (layout tours) and camera sequences
- Interactive HTML map support with links and command operations
- CCTV keyboard support, connected either to workstation or encoder
- PTZ control including digital zoom control for clear identification
- Digital zoom indication in ControlCenter

Recording

- Records video or video linked with audio
- Supports H.264, MPEG-4, and MJPEG video compression formats
- Manual, schedule, alarm, motion detection and event-based recording triggers
- Recording lifespan can be set per camera and by recording trigger type

Playback from Archive

- Instant replay of any camera displayed over tile in ControlCenter
- Synchronized playback of multiple concurrent video sources or video and audio sources
- Controls playback speed and frame-by-frame playback
- Locks clips to be kept indefinitely
- Timeline colors indicate recording trigger – schedule, manual, alarm, event

Event Logging and Reporting

- Automatic execution of actions in response to events
- Events in the system are audited and updated in the database
- Reports can be viewed, exported to file, printed and sent via email

User Management

- Configures users, user groups and their camera access rights and privileges
- Authenticates user login

Remote Connectivity

- One ControlCenter can monitor multiple Horizon systems concurrently
- Remote connection to Horizon over Wide Area Network
- User-definable video downscaling when transmitting video over Wide Area Network

Integrations

- Access control systems
- Point-of-sale software

The Choice is Yours

The Horizon NVR is available various models, allowing you to choose the form factor that fits your site and storage needs.

Horizon 7.0 Workstation

The Horizon NVR Workstation is a reliable, cost-effective solution for installations requiring up to 48 cameras. This open-standard NVR eliminates the need for additional client workstations solely for viewing purposes. With its extended storage reaching up to 12TB and improved performance, it allows for more cameras and higher throughput, which is ideal for control centers that monitor many live HD streams.



Workstation with Extended Storage

1U Rack-Mount Raid Server



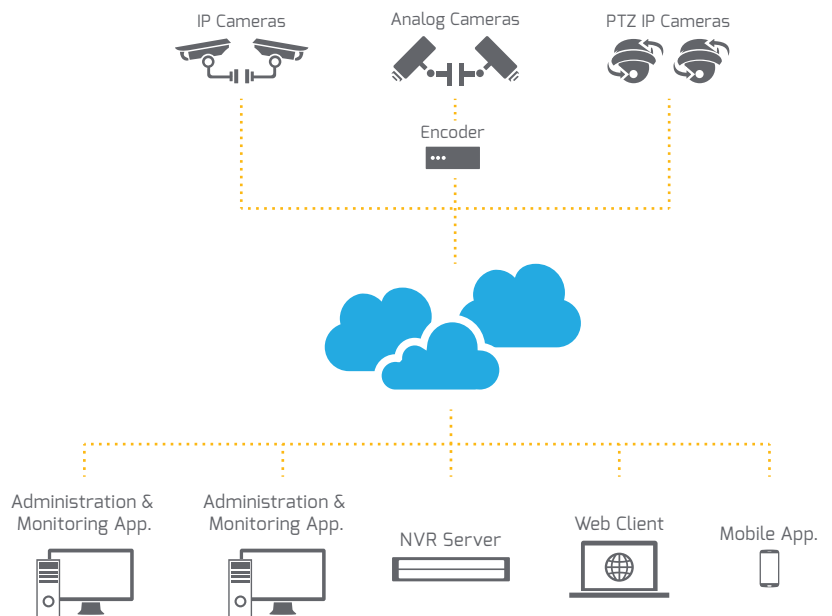
2U Rack-Mount Raid Server

Horizon 7.0 1U and 2U Rack-Mount Raid Servers

The Horizon NVR Raid Server is a powerful and cost-effective solution for installations requiring up to 100 cameras. Its advanced feature set allows you to easily view, record and playback high-quality video and audio. The 1U server provides up to 12TB of storage and the 2U server provides up to 32TB.

NVR Server Architecture

Adding more Horizon NVRs to your network allows you to grow your system according to your needs. ControlCenter provides one, unified interface to view all of your NVRs.



Workstation

Technical Specifications		Video Specifications
Processor	Intel® Xeon® E5-1620 v3 @ 3.5GHz	Supports up to 48 camera channels and maximum 120Mbps recording up to 210 frames per second display at resolution of 1080p* *Reduced frames per second in higher resolution.
Memory	2x4GB	
Storage	6TB, 8TB, 10TB, or 12TB 5.4K RPM SATA Hard drives	
Optical Drive	8x Slimline DVD+/-RW	
Network Interface	Dual NIC 1 Gigabit Ethernet RJ45 port	
Operating System	Microsoft® Windows® 8.1 Pro	

Mechanical and Environmental Specifications		Supplied Accessories
Form Factor	Mid-Tower/Desktop	USB Keyboard
Power Supply	Single, Cabled, 685W	USB Mouse
Dimensions	414 x 172.6 x 471mm/16.30 x 6.79 x 18.54" (H x W x D)	Power Cords
Weight	12.40 kg (27.40 lb)	DMS-59 to DVI Dual (2) Display Adapter

Rack-Mount RAID Servers (1U and 2U)

Technical Specifications		1U	2U
Form Factor			
Processor		Intel® Xeon® E5-2407 @ 2.2GHz	Intel® Xeon® E5-2620 @ 2.0GHz, 7.2QPI
Memory		8GB	8GB
Storage		3TB, 6TB, 9TB or 12TB (usable after Raid 5); Near-line SAS, hot-swappable, RAID 5 Up to 192TB DAS Expansion Option	16TB, 20TB, 24TB, 28TB or 32TB (usable after Raid 5); Near-line SAS, hot-swappable, RAID 5 Up to 192TB DAS Expansion Option
Network Interface		Dual NIC 1 Gigabit Ethernet RJ45 port	On-board Quad Gigabit Ethernet RJ45 Port
Operating System		Microsoft® Windows® Server 2012 R2 Standard Embedded	Microsoft® Windows® Server 2012 R2 Standard Embedded
Video Specifications		Up to 100 camera channels and max. 160Mbps recording throughput	Up to 100 camera channels and max. 200Mbps recording throughput

Mechanical and Environmental Specifications		
	1U	2U
Form Factor		
Power Supply	Single non-redundant, 350W	Dual, Hot-plug, Redundant Power Supply (1+1), 495W
Dimensions	42.8 x 434 x 482.4 mm/1.66 x 17.09 x 18.99" (H x W x D)	87.3 x 440 x 684 mm/3.4 x 17.3 x 26.9 in (H x W x D)
Weight	19.3 kg (42.55 lbs.)	Max: 32.5 Kg (71.51 lbs.)

Client Workstation Requirements

Name	Minimum	Recommended
Operating System	Windows 7 Professional, 32-bit	Windows 7 Professional, 64-bit Windows 8.1 64-bit
Processor	Intel Dual Core 2.4 GHz	Intel E3-1245 v3 or better
RAM	4GB	8GB
Hard Drive	5400 RPM; 60 GB for OS+SW	7200 RPM; 80 GB for OS+SW
Network Interface	100/1000 Mbps	1Gbps
Video Card	Intel HD 4000 Series	Intel HD 4000/6000 Series

Ordering Information

Workstation	1U	2U
HRZ-NVRWKS-06 Horizon NVR Workstation w/ 24 video channels, 5 users, 5 mobile connections, dual-monitor support, 6TB raw (5.85TB usable) non-RAID internal storage.	HRZ-NVRSMB-03 Horizon NVR RAID Server w/ 24 video channels, 10 users, 5 mobile connections, 4TB raw (2.85TB usable) RAID-5 configured internal storage.	HRZ-NVRENT-16 Horizon 2U NVR RAID Server w/ 24 video channels, 10 users, 5 mobile connections, 20TB raw (15.85TB usable) RAID-5 configured internal storage.
HRZ-NVRWKS-08 Horizon NVR Workstation w/ 24 video channels, 5 users, 5 mobile connections, dual-monitor support, 8TB raw (7.85TB usable) non-RAID internal storage.	HRZ-NVRSMB-06 Horizon NVR RAID Server w/ 24 video channels, 10 users, 5 mobile connections, 8TB raw (5.85TB usable) RAID-5 configured internal storage.	HRZ-NVRENT-20 Horizon 2U NVR RAID Server w/ 24 video channels, 10 users 5 mobile connections, 24TB raw (19.85TB usable) RAID-5 configured internal storage.
HRZ-NVRWKS-10 Horizon NVR Workstation w/ 24 video channels, 5 users, 5 mobile connection, dual-monitor support, 10TB raw (9.85TB usable) non-RAID internal storage.	HRZ-NVRSMB-09 Horizon NVR RAID Server w/ 24 video channels, 10 users, 5 mobile connections, 12TB raw (8.85TB usable) RAID-5 configured internal storage.	HRZ-NVRENT-24 Horizon 2U NVR RAID Server w/ 24 video channels, 10 users, 5 mobile connections, 28TB raw (23.85TB usable) RAID-5 configured internal storage.
HRZ-NVRWKS-12 Horizon NVR Workstation w/24 video channels, 5 users, 5 mobile connection, dual-monitor support, 12TB raw (11.85TB usable) non-RAID internal storage.	HRZ-NVRSMB-12 Horizon NVR RAID Server w/ 24 video channels, 10 users 5 mobile connections, 16TB raw (11.85TB usable) RAID-5 configured internal storage.	HRZ-NVRENT-28 Horizon 2U NVR RAID Server w/ 24 video channels, 10 users 5 mobile connections, 32TB raw (27.85TB usable) RAID-5 configured internal storage.
		HRZ-NVRENT-32 Horizon 2U NVR RAID Server w/ 24 video channels, 10 users, 5 mobile connections, 36TB raw (31.85TB usable) RAID-5 configured internal storage.