



starNET PRO VMS Software Solution

COSTAR
VIDEO SYSTEMS
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COSTAR

starNET | starNET PRO | starNET PRO FEDERATION



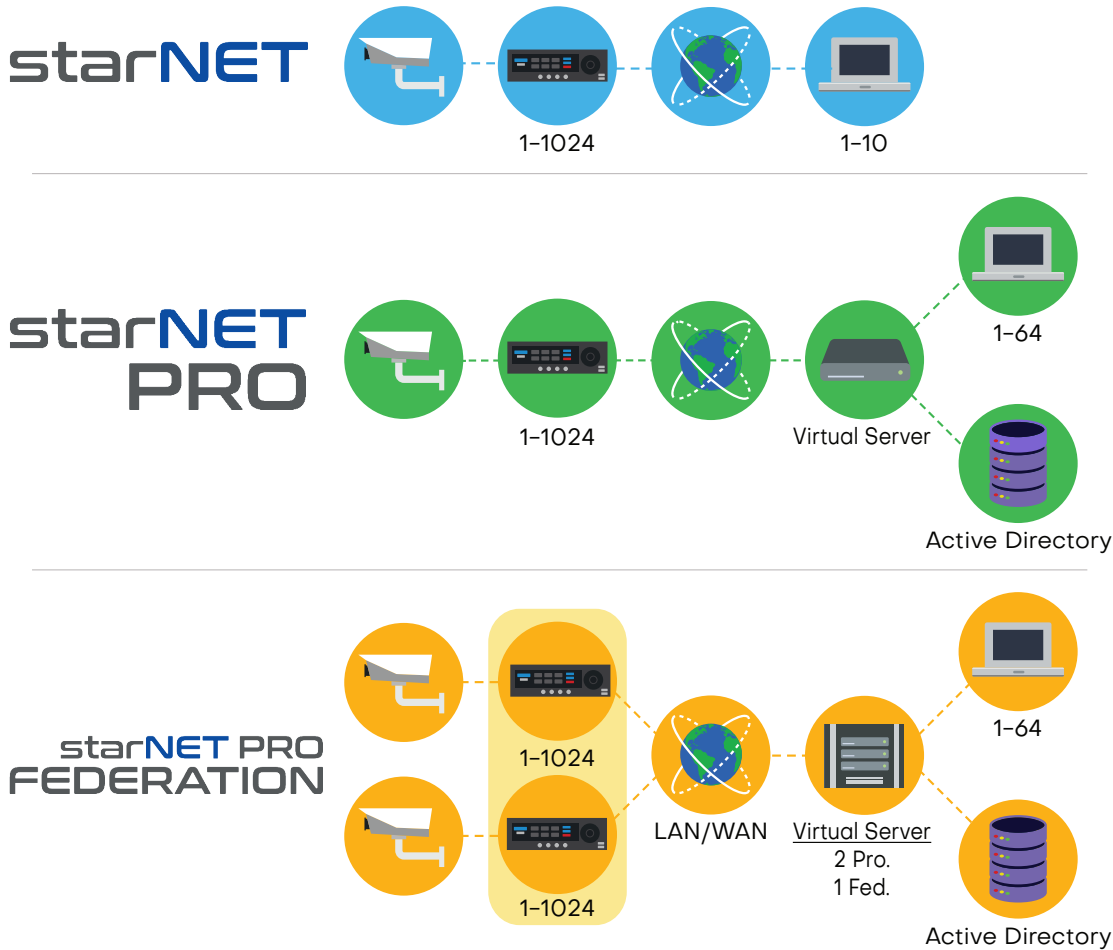
Costar's StarNET Pro Software Solution Suite is a highly scalable and fully integrated network video surveillance solution that's ready to fit your needs.

Costar's StarNET Pro Software is a surveillance solution for both large enterprises and small business customers. Sporting an intuitive GUI, this suite makes it easy for installers and those unfamiliar with IT networks to easily navigate its rich feature set of powerful recording options.

Providing a general-purpose video recording application, StarNET Pro meets a wide range of surveillance needs. From cameras to recorders to the user interface and beyond, this software delivers on a premium experience. Designed with FREE and one-time charge options, our tiered cost structure allows you to pick and choose the features you need instead of purchasing unnecessary additions.

It is the perfect solution for project-based surveillance rollouts. When the time comes to transform and update a project, this system will allow you to seamlessly integrate your customer's requirements. In addition, utilizing Costar's family of cameras, keyboards, recorders, extended storage products, analytics appliances, and more will help ensure a future-proof surveillance solution.

Born out of Costar's deep understanding of the surveillance market, StarNET Pro is a premier surveillance software solution. It is prepared to meet and excel you and your customer's needs and provides a scalable solution for a wide range of customer applications.



StarNET on Desktop

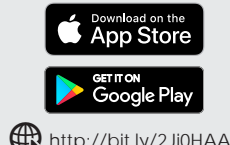


StarNET Desktop Icon



StarNET Pro/Federation Desktop Icon

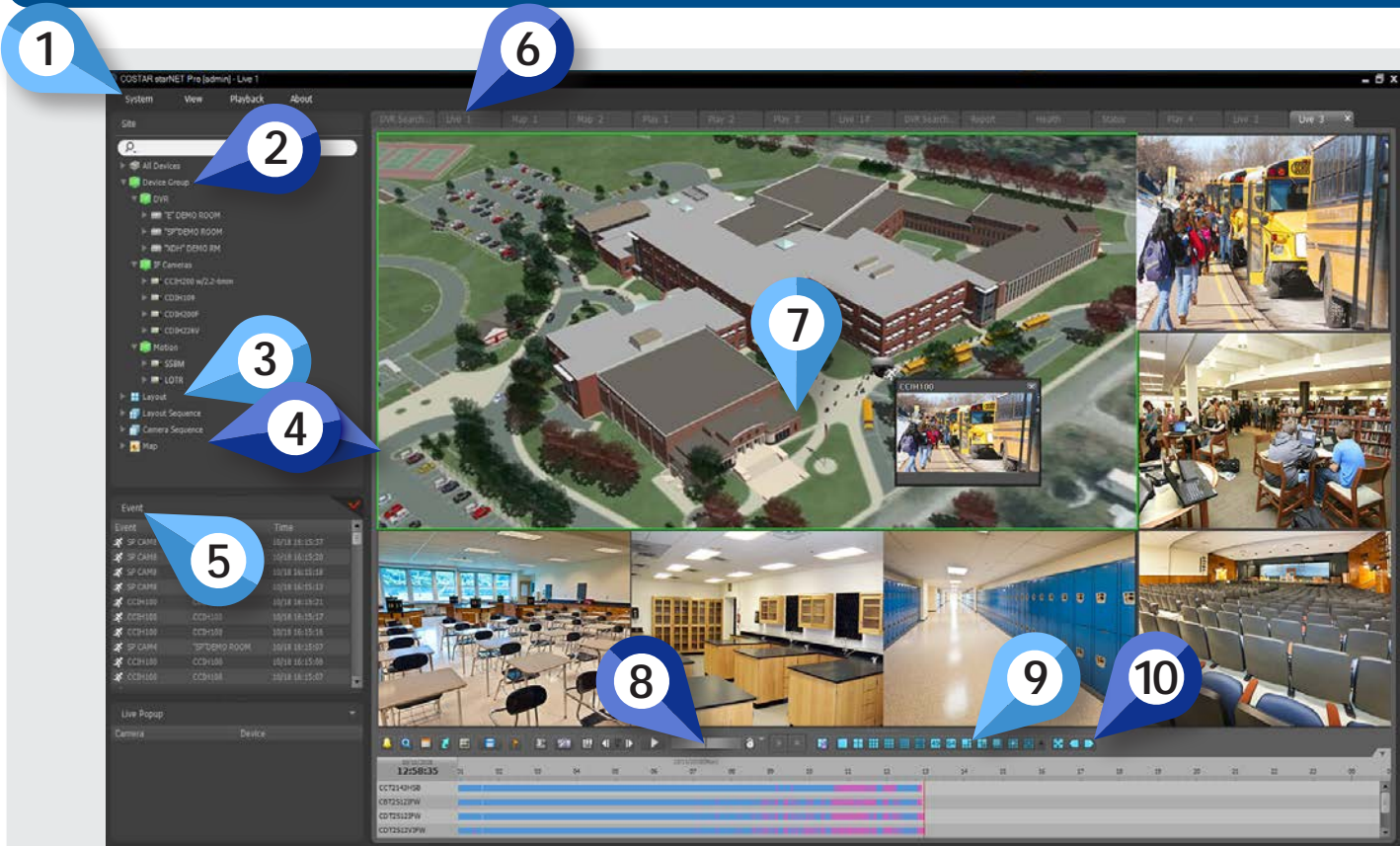
StarNET on Mobile



<http://bit.ly/2Jj0HAA>



STARNET PRO GUI



Key Features of StarNET Pro

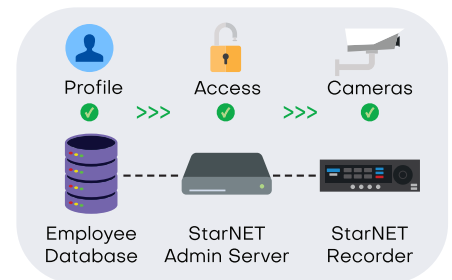
- 1 User Management**
Gives administrators the ability to configure and set up preferences for the system
- 2 Logical Grouping**
Group recorders for easy access to user defined regions or combine multiple recorders in the same location to appear as one recorder
- 3 Favorite Layouts**
Each user can customize and save screen view layouts
- 4 Map**
Using a JPEG background image, cameras can be plotted on the map for a quick visual reference to the live image view
- 5 Events**
View real time event activity and quickly access the video
- 6 Tabs**
Organize and view live feeds, playback, maps, events, logs, analytics, and statuses on a single monitor or detach to see on multiple monitors
- 7 Camera Grid**
Divide the screen from a single image to a 64 camera grid
- 8 Playback Bar**
Play, pause, and use multiple tools to search recorded video
- 9 Layout Views**
Design and save your own customized screen layouts
- 10 Next/Previous Cameras**
Scroll through as many as 64 live images or videos

ACTIVE DIRECTORY

What is Active Directory?

Maintaining a large number of users, profiles, passwords, and authority levels can be rather cumbersome and tedious in this day and age. When changes need to be made on a network, it would be easy just to make one change and have it update on all other device locations. This is where Active Directory comes in.

An active directory is a centralized location that ensures security and ease of mind when managing a directory of multiple network credentials. Network credentials include users, groups, systems, networks, applications, digital assets, authority levels, and more, and using an active directory allows you to update one network database in one location and have the entire system update. Within StarNET Pro, this could mean adding new employee credentials to all networked devices or maybe deleting employee credentials on all networked devices when the employee leaves the company. Easy solution to solving what's usually a large, tedious, and complicated problem.





COSTAR

starNET PRO

Costar's StarNET Pro is a program that manages multiple NVRs and IP cameras for small to large-scale applications.

Centralized Admin User Control

MODULE

StarNet Pro VMS Software Administration service module is the bedrock where all other service modules are registered to.

StarNet Pro VMS Software Administration service module allows centralized management of access privileges and centralized device management, such as device FW upgrade, remote device configuration, and configuration of all the other StarNet Pro VMS Software service modules being used.

> Real Time Health Monitoring (included in MODULE)

StarNet Pro allows for real time health status monitoring for all registered devices.

The client program automatically displays the health monitoring results not only with a summary list, but also with a detailed list including status, the device's model name, the number of cameras supported by the device, and problem.

> Event Monitoring (included in MODULE)

StarNet Pro VMS Software Event Monitoring service module allows centralized event dispatch services.

StarNet Pro VMS Software Event Monitoring service allows you to route a specific set of events to a specific group of users based on the event types, schedule, and user groups.

For example, system health-related events can be routed to maintenance department operators, while other events can be routed to loss prevention department operators.

> Live Streaming (included in MODULE)

StarNet Pro VMS Software Streaming service module allows Up to 64 remote users to access the live video stream.

System Failover

MODULE

StarNet Pro VMS Software Failover service modules provide service grade redundancy. You can provide Failover services to different service modules, such as Administration, Event Monitoring, Event Monitoring, and Live Streaming.

If one of the PC servers fails or if one of the services is interrupted, the corresponding Failover module will take over the operation with minimal interruption. If the failed servers or services are recovered, the operation will recover and go back to normal operation.

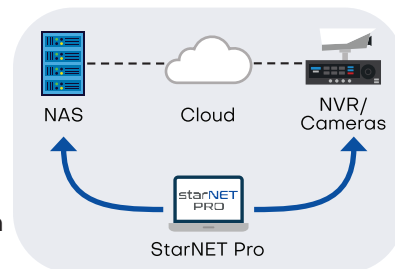
Centralized Video Backup

MODULE

StarNet Pro VMS Software Backup service module can be used to provide an offline backup of video.

StarNet Pro VMS Software Backup service allows you to choose a set of cameras to be archived on a pre-programmed schedule. It allows you to archive your video while minimizing the network traffic during your peak hours of operation.

StarNet Pro VMS Software Backup service provides two additional options to maximize the data retention period of your offline backup storage: Summary backup and Event video only backup mode.



Federation

MODULE

StarNet Pro VMS Software Federation module works in a very similar way as the StarNet Pro VMS Software Administration service module, and it allows you to create a Federation of multiple StarNet Pro VMS Software systems scaling to a virtual unlimited number of devices.

StarNet Pro VMS Software Federation service allows the centralized user management access privilege control over devices registered to the multiple StarNet Pro VMS Software systems.

For example, each StarNet Pro VMS license can manage Up to 1,024 recorders, and each device can have Up to 64 IP cameras. Each StarNet Pro VMS license can have Up to 65,536 cameras, and StarNet Pro VMS Software Federation allows multiples of these licenses to scale your system.

BENEFITS



Reliability

Costar's StarNET Pro Software supports stable multi-channel video recording and outstanding searching performance. In addition, failover, and backup improve its reliability while operating consistently without any failure.



Performance

Costar's StarNET Pro Software supports Full HD live and record video at 30ips on up to 1,024 channels on our free version and unlimited channels on our Pro version.

*Depending on the number of simultaneous remote clients, up to 64 Costar's StarNET Pro Software Streaming servers and/or 64 Costar's StarNET Pro Software servers can be used without an additional license fee.



Easy Installation/Integration

Costar's StarNET Pro Software allows true plug-and-play installation by using our For Every Network (FEN) dynamic naming service, which automates the network configuration and allows for quicker installation.



Usability

Costar's StarNET Pro Software provides intuitive GUI that lets you operate your surveillance system more easily and quickly. Items like mapping, event search, and time search make finding your information quicker & easier.



Scalability

The scale of Costar's StarNET Pro Software is not measurable because any number of services can be coupled to one solution. This means any enterprise-level solution can be covered with this software.

SECURITY

Video Fingerprinting

Embedded fingerprints in the video deter tampering with recorded footage. This feature adds special markers to the video and audio that allows you to easily match the original footage to review if any sections have been added, edited, or removed.

Secure Sockets Layer (SSL)

The SSL protocol is a security standard for establishing an encrypted connection between devices ensuring secure data transmissions.

PRODUCT CHART

COSTAR	starNET	starNET PRO	starNET PRO FEDERATION
SCALABILITY			
System Type	Small Business	Small Enterprise	Large Enterprise
Number of Recorders	1-1024	1-1024 (with Central Admin)	Scalable (with Central Admin)
Virtual Server	-	✓	✓
FEATURES			
User Management	Decentralized	Centralized	Centralized
Cost	FREE	Per Recorder	Per Recorder
Cloud Management	-	✓	✓
Backup	-	✓ (Separate License Needed)	✓ (Separate License Needed)
Fail Over	-	✓	✓
Monitoring	-	✓	✓
Streaming	-	✓	✓
Active Directory	-	✓	✓
Mobile Support	✓	✓	✓
# of Simultaneous Remote Clients	10	64	64
USABILITY			
Mapping	✓	✓	✓
Event Monitor	Basic	Advanced	Advanced
Device Health Monitor	✓	✓	✓
RECORDER INTEGRATIONS			
Access Control Integration	✓	✓	✓
POS Integration	✓	✓	✓
Recorder Product Family	XDI, ET	XDI, ET	XDI, ET

SERVER SYSTEM

RECOMMENDED	
OS	Microsoft® Windows® 7 (Home Premium, Professional, Ultimate), Microsoft® Windows® 8 (Pro, Enterprise), Microsoft® Windows® 8.1 (Pro, Enterprise), Microsoft® Windows® 10 (Home, Pro), Microsoft® Windows® Server 2003 / 2008 / 2012 / 2016 ESXi 6.0+ Hyper-V Microsoft Hyper-V
CPU	Intel Core i5-3570 3.30GHz/Intel Xeon E3 or faster (4 cores or more)
RAM	2GB or more
VGA	AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1280 x 1024, 32bpp or higher)
HDD	2GB or more free space for each service (For example : 4GB or more free space when installing administration and monitoring services)
LAN	Gigabit Ethernet or faster

CLIENT SYSTEM

	RECOMMENDED	MINIMUM
OS	Microsoft® Windows® 10 64-bit (Home Premium, Professional, Ultimate) (Microsoft® Windows® 8 (Pro, Enterprise) compatible)	Microsoft® Windows® XP Home SP 3
CPU	Intel Core II Quad 8200 2.33 GHz or faster	Intel Pentium IV 3.0 GHz or faster
RAM	2GB or more	1.5GB or more
VGA	AMD Radeon™ HD 3650 or NVIDIA GeForce 8400GS (AMD recommended) (1024 x 768, 24bpp or higher)	AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1024 x 768, 24bpp or higher)
HDD	350 MB or more free space	350 MB or more free space
LAN	Gigabit Ethernet or faster	10 /100 Mbps Ethernet or faster



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