



## Avigilon Control Center

with High Definition Stream Management (HDSM)



Give your facility the extra protection of the industry's leading HD surveillance solution



### Transmit HD Video

view live footage using the least amount of bandwidth



### Record HD Video

using the least amount of hard drive space



### Search HD Video

faster than any other HD solution



### Playback HD Video

with the highest image quality and most detail



### Export HD Video

without any loss in quality

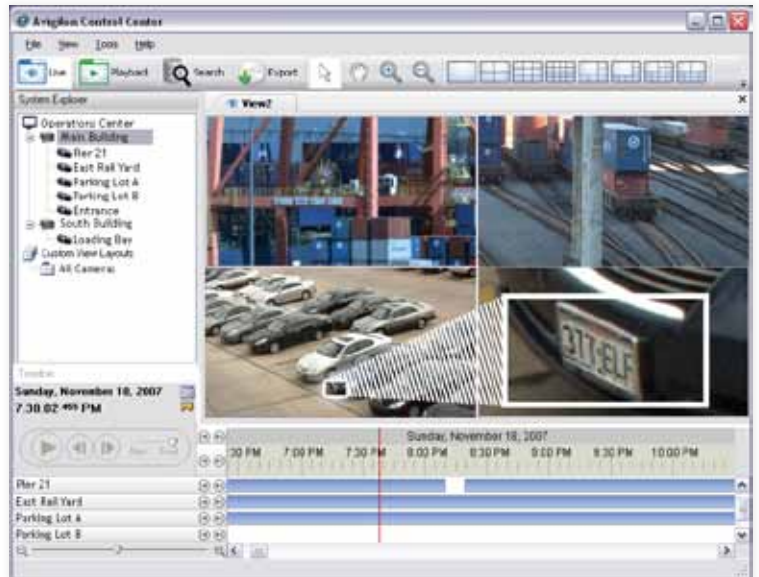
## Overview

Avigilon Control Center, with High Definition Stream Management (HDSM), is the award winning high definition network video management solution that delivers full situation awareness and indisputable detail, leading to faster response times, reduced investigation times, and superior overall protection.

Available as stand alone software, or pre-installed and configured on an Avigilon NVR, the Avigilon Control Center is a secure distributed network platform with enterprise class reliability for capturing, managing, and storing high definition multi-megapixel surveillance video while efficiently managing bandwidth and storage.

Avigilon Control Center records and manages both audio and video from the world's broadest range of multi-megapixel IP cameras, from 1 to 16 megapixels. In addition, the system can accommodate conventional and PTZ analog cameras and both audio and video from a broad range of 3rd party IP cameras, and encoders from leading manufacturers. It provides the best evidence that only the industry's leading High Definition surveillance solution can deliver while leveraging existing security investments. Avigilon Control Center provides the ability to build a hybrid system that allows a budget conscious migration from analog to digital.

Focused on the needs of security professionals, Avigilon Control Center has a powerful, yet intuitive, easy to use interface that allows operators to efficiently evaluate and respond to events with minimal training.



## Multi-Megapixel High Dynamic Range Image Display

Maintain situational awareness while analyzing detailed regions of interest from a single camera or multiple. Use multiple viewing tabs and cycle them automatically to allow one operator views of cameras from multiple locations throughout large enterprise systems. Save viewing parameters for simple and repeatable setup of complex multi-camera viewing configurations.

Digitally zoom and pan within an image while automatic dynamic contrast enhancement reveals low light details for unmatched digital PTZ performance using a mouse or surveillance joystick. Avigilon Control Center supports control room monitor wall displays of live or recorded high definition surveillance footage across multiple high resolution widescreen monitors.

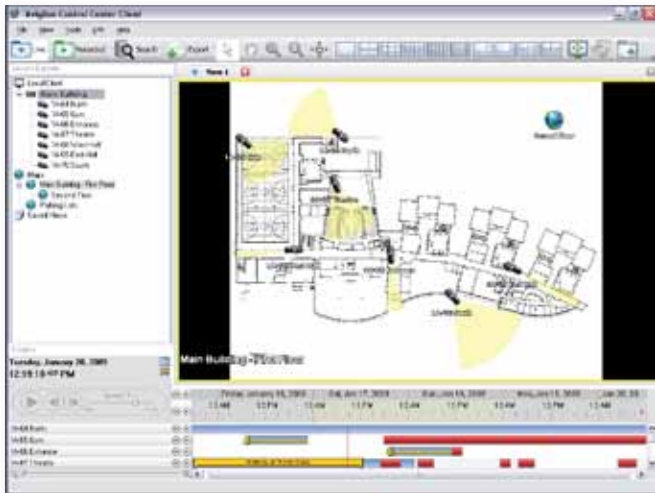
## Data Protection and Storage Management

Redundant recording to multiple NVRs allows a full live mirror of all high definition video. Automatic fail-over NVRs ensure uninterrupted recording if a NVR becomes unavailable.

Integrated backup and restore functionality allows recorded HD video from multiple cameras to be securely transferred from an NVR on a defined scheduled. Restored HD video can be imported to a different NVR for instant playback of archived video.

Allocate more storage capacity to recent events and taper archived surveillance footage for maximum record times with Avigilon HDSM Data Aging.





## Integrated Graphic Mapping for System Layout

Advanced graphic mapping interface enables operators to layout cameras and servers on an imported map for easy navigation of large surveillance systems. Maps can be layered and nested allowing easy navigation through satellite maps, multi-story buildings and very large areas.

## High Definition Recording and Playback

### Timeline

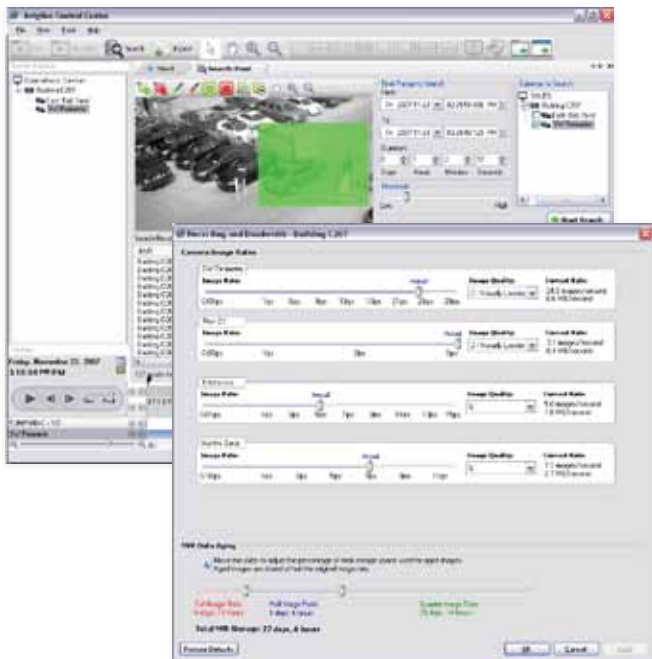
Advanced timeline interface with unique integrated drag to zoom capability allows full control over high definition surveillance video playback in forward and reverse at variable speeds up to 8 times faster than real time. A rapidly updating playback system allows intuitive jog, or shuttle, playback to identify key events and subtle changes.

### Bookmark and Export HD Surveillance Footage

Securely bookmark and export movies or still images in industry standard formats or in Avigilon lossless format for dynamic offsite forensic enhancement by third parties such as law enforcement officials. Exported video can be managed via the Avigilon Control Center Player, a powerful playback application with all the tools required for analyzing and reviewing captured HD surveillance footage. Bookmarked events are indexed to allow rapid searching using user defined metadata. Bookmark protection ensures bookmarked events are kept permanently on the NVR.

### Event Triggered Recording

Set recording parameters independently for each camera to record on schedule, motion or external alarm events. Collect reference images at predetermined intervals between triggered full motion recording events.



## Video Search

Find scene changes, missing objects, and events fast, with the industry's quickest high definition video search. Unique sub-region thumbnail searching allows you to rapidly find small changes within HD surveillance covering large areas.

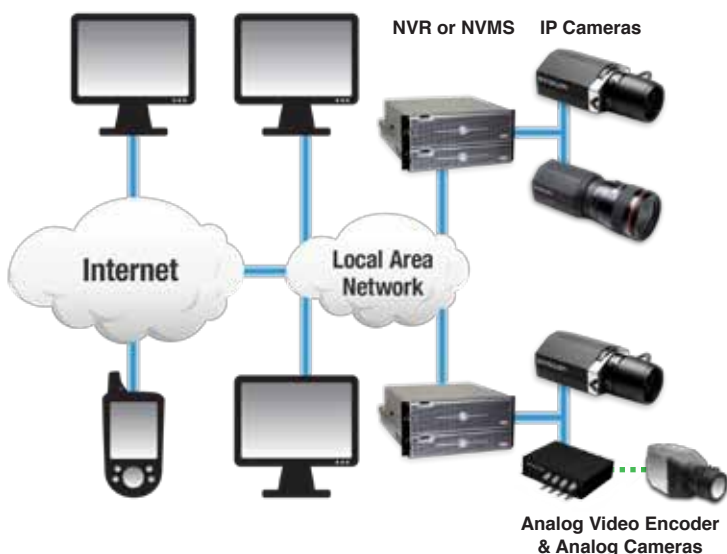
Quickly and accurately navigate through large amounts of recorded high definition video with camera specific event logs.

## Bandwidth Management and Remote Viewing

Tune camera bandwidth usage to optimize image quality and network bandwidth availability with Avigilon HDSM progressive lossless compression.

Remotely connect to multiple recorders to view live and recorded surveillance footage over the local area network, over a low bandwidth wide area network connection, or using remote desktop technology on a standard web browser or compatible mobile device.

Avigilon HDSM ensures minimal bandwidth utilization while providing the highest possible image quality.



## Advanced Control Center Features

### Acquisition Manager

Avigilon's unique high definition acquisition manager ensures all Avigilon cameras, regardless of resolution, are always configured to collect the best possible image over a wide range of lighting conditions.

Configure multiple independent camera specific motion detection zones for pre, or post motion triggered recording. Configure groups of cameras to record from a single alarm event.

### Simple Camera and Server Installation

Complex network configuration is eliminated by the Avigilon Control Center plug and play capabilities for NVRs and cameras which automatically identify themselves on the network, without manual configuration or searching, allowing fast and consistent system deployment and management.

### Detailed Management, Monitoring, and Reporting of System Status and Security

Maintain detailed logs of storage, network, and overall system status to ensure the highest possible system uptime required for critical applications.

Administrative access allows and controls hierarchical user groups with varying security privileges, limit access to live and recorded data from individual cameras based on a user's configured privileges.

Avigilon Control Center recording runs as a low level operating system service, which prevents tampering and ensures recording automatically resumes in the event of a power failure or system reset.

Powerful rules engine enables administrators and operators to map any camera or system event to a set output action, including triggering output alarm relays, for faster identification and improved response times. Programmable e-mail alerts provide rapid remote notification in the event of camera tampering, system alert, alarm, or motion event.

### Fast and Accurate Online System Design

Avigilon Control Center's unique integrated online tools greatly simplify and accelerate system design decisions related to camera and lens selection as well as bandwidth requirements and storage times. Automatic bill of materials generation assures fast and accurate system ordering and deployment.

### Scalable Integration with Legacy Systems

A flexible and scalable open system, Avigilon Control Center's distributed architecture features a .NET based XML capable API that can easily be integrated with other systems, such as access control and building management. Allowing security professionals to meet current infrastructure requirements maintaining a single user interface and minimizing training costs, while benefiting from a new level of HD video surveillance performance.

