



**> IP Video Surveillance**  
with high performance management

open platform IP video  
management  
software

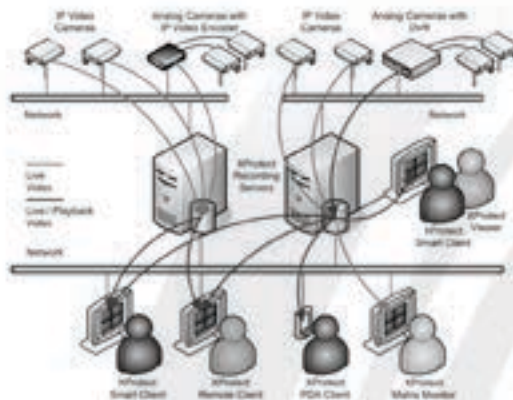


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[www.imotionsecurity.com](http://www.imotionsecurity.com)

# > IP video analysis and management

iMotion Security is the right product for larger installations or multiple sites that need robust surveillance software with the full functionality of advanced management, flexible scheduling, fast searching, analysis, and integration with other systems.

Controlling unlimited numbers of cameras, multiple servers and multiple sites, iMotion Security interfaces with the widest choice of network video and computer hardware equipment – easy to install and easily scalable for future expansions.



## > Key Benefits

- **Scalable solution:** Support for multiple servers, sites and clients allows you to design the system to fit your organization.
- **Freedom to choose:** Compatible with more than 200 different IP-based video camera and encoder products (MJPEG and MPEG4) from over 30 different manufacturers.
- **Dependable, robust and stable:** Proven in daily operation with more than 150,000 cameras worldwide.
- **High performance:** Achieved on standard computer equipment by utilizing powerful multi-threaded technology.
- **Flexible remote access:** Reach your video surveillance data from any location at any time using a desktop computer, laptop or PDA.
- **Open architecture:** IP technology and a versatile API/SDK provides you endless integration possibilities with access control, POS or ATM systems, alarms, gate barriers, etc.
- **Maximize disk utilization:** Only store the images you need by saving to archive by motion detection, events or recording schedules you define.
- **Export evidence material fast:** Deliver authentic video proof to public authorities or for internal investigations.
- **Licensing per video channel:** Grow your installation along with your needs incrementally per camera.
- **Future-safe:** The IP approach is the foundation of tomorrow – available today. Ongoing product enhancements give you long-term returns on your surveillance investment.

# > Key Product Features

comprehensive video management tools

## SYSTEM, ADMINISTRATION & INTEGRATION

- 1 **Multi-server and multi-site video surveillance solution:** Unlimited recording of MJPEG and MPEG-4 video from IP cameras and IP video encoders with analog cameras.
- 2 **Automatic camera model detection:** Supports more than 200 IP cameras and IP video encoder models from over 25 different vendors.
- 3 **Unlimited number of recording servers:** Supporting unlimited cameras and continuously recording up to 64 cameras per server activated by motion or event with speed up functionality.
- 4 **Scheduled archiving:** Move video data multiple times per day to a local or a networked drive.
- 5 **Built-in Video Motion Detection:** Independent of camera model and supporting up to 64 cameras simultaneously per server.
- 6 **Integration options:** Recording Server API/SDK, TCP/IP activated events, and support for client plug-ins.

## REMOTE OPERATIONS

- 1 **Live view and playback:** From remote web-based, PDA and full client, or local clients supporting up to 64 cameras from multiple servers at the same time.
- 2 **Advanced views layout:** Work with private and shared server-stored camera views containing up to 8x8 layouts, Hotspot, Matrix and Carousel elements, static and active HTML maps, all distributed across multiple computer monitors and windows.
- 3 **Intelligent PTZ:** Manual control, presets, go to preset on event, patrolling with multiple schemes and pausing option, joystick control and scanning.
- 4 **Virtual Matrix:** Control live camera views on remote computers for distributed viewing.
- 5 **Input/Output Event Control:** Via cameras or networked I/O devices for event control, manual event buttons and event list in recordings.
- 6 **Multi-channel audio:** Listen-in and recording with instant playback.

## SEARCH, EXPORT & SECURE DATA

- 1 **Post recording processing:** Smart Search, Digital PTZ with optional image smoothing, or IPIX post-recording PTZ.
- 2 **Evidence export:** JPEG, AVI, WAV and native database formats with stand-alone recording viewer, data encryption and logs, user notes and report printing.
- 3 **Authentication:** Microsoft Active Directory user accounts, and XProtect user names and passwords.
- 4 **Authorization:** Microsoft Active Directory user accounts and groups, and XProtect user profiles, all controlling access privileges and allowed actions at camera level.
- 5 **Logging:** Stores user actions by time, locations and cameras, and full system operation.
- 6 **Alerting:** Notify users on event or motion detection by sound, e-mail and SMS.



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# > Detailed Product Features

## Imotion Enterprise Server Modules

### RECORDING SERVER

- ▶ Simultaneous digital multi-channel video and audio recording.
- ▶ Connectivity to cameras and video encoders supports both MJPEG and MPEG4.
- ▶ Auto-detect camera models during setup.
- ▶ Flexible multi-site, multi-server license structure charged per camera.
- ▶ Unlimited number of installed cameras; simultaneous recording and live view of up to 64 cameras per server.
- ▶ Recording technology: secure high speed database holding JPEG images or MPEG4 streams including audio.
- ▶ Recording speed: 30+ frames per second per camera, limited only by hardware.
- ▶ Recording quality depends entirely on camera and video server capabilities: no software limitation.
- ▶ Start cameras on live view requests from clients.
- ▶ Unlimited recording capacity with multiple archives possible per day.
- ▶ Hourly to daily database archiving with optional automatic move to network drive saves storage capacity on the local server - with images still available transparently for playback.
- ▶ Built-in, real time, camera independent motion detection (VMD); fully adjustable sensitivity, zone exclusions, recording activation with frame rate speed up, and alert activation through email or SMS.
- ▶ Pan Tilt Zoom preset positions, up to 50 per camera.
- ▶ PTZ go-to preset position on events.
- ▶ Combine PTZ patrolling and go-to positions on events.
- ▶ Set multiple patrolling schedules per camera per day; i.e. different for day/night/weekend.
- ▶ PTZ scanning on supported devices: viewing or recording while moving slowly from one position to another.
- ▶ VMD-sensitive PTZ patrolling among selected presets.
- ▶ On pre-defined events Matrix remote commands are automatically sent to display live video remotely on computers running the Matrix Monitor or the Smart Client with Matrix Plug-in.
- ▶ 'On-the-fly' configuration changes per server while recording is in operation.
- ▶ Flexible online, sound, e-mail and SMS notification and patrolling scheduling per camera, triggered by clock or event.
- ▶ Run the Recording Server as a Windows Service or as an integrated part of the Live View Monitor application described as follows.



### LIVE VIEW MONITOR

- ▶ The Live View Monitor includes all the features of the Recording Server plus more:
- ▶ Local live video viewing.
- ▶ Multi-channel audio listen-in with mute function.
- ▶ Dual or triple computer monitor viewing with Hotspot window and Carousel display.
- ▶ View up to 64 cameras simultaneously with optional update on motion only.
- ▶ Viewing speed: 30+ frames per second per camera, limited only by hardware.
- ▶ Quick Browse function to playback latest recorded video.
- ▶ Start and stop one or all cameras manually.
- ▶ Activate up to 8 pre-defined event buttons per camera, globally (all cameras) or camera-specific.
- ▶ Activate output signals on camera or dedicated devices.
- ▶ Option to hide Administrator button from other users.
- ▶ Pause PTZ patrolling and control the movement manually; after a timeout with no activity the camera reverts to its scheduled patrolling.
- ▶ Take manual control over a PTZ camera that runs a patrolling scheme; after a timeout with no activity the camera reverts to its scheduled patrolling.
- ▶ Send Matrix remote commands to display live video remotely on computers running the Matrix Monitor or the Smart Client with Matrix Plug-in.
- ▶ Joystick functionality for supported cameras.
- ▶ IPIX technology for PTZ in 360° recorded images.



# > Detailed Product Features

## Imotion Enterprise Server Modules

### RECORDING VIEWER

- ▶ Playback recorded video and audio locally on the Recording Server.
- ▶ View up to 16 cameras time-synched during playback.
- ▶ Scrollable activity timeline with magnifying feature. Instant search on recordings based on date/time and activity/ alarm (Video Motion Detection).
- ▶ 'Smart Search' for highlighted image zones and objects.
- ▶ Evidence can be generated as a printed report with time and date stamp, as a JPEG image, or in AVI film.
- ▶ Export audio recordings in WAV or AVI format.
- ▶ Export video digitally zoomed to view area of interest only and to minimize export footprint size.
- ▶ Export 'Evidence CD' containing native database and Recording Viewer for instant, easy viewing by authorities.
- ▶ Encryption & password protection option for exported recordings and files.
- ▶ Ability to add comments to exported evidence, also encrypted.
- ▶ Option to send email.
- ▶ De-interlacing of video from analog cameras.
- ▶ IPIX technology for PTZ in 360° recorded images.

### PDA SERVER

- ▶ Remote access for PDA Client.
- ▶ Handle login and session requests between PDA clients and Image Server.
- ▶ Resize video surveillance images to fit the screen layout of PDA Client.

### IMAGE SERVER

- ▶ Remote access for Smart and Remote Clients.
- ▶ Built-in web server for download and launch of clients and plug-ins.
- ▶ Set up one Master and multiple Slave Servers.
- ▶ Authenticate access based on Microsoft Active Directory user account, or XProtect user name and password.
- ▶ Authorize access privileges per Microsoft Active Directory user account/group, XProtect user profile or grant full access.
- ▶ User profiles control access to: Live view, PTZ, PTZ presets, output control, events and audio; Playback, AVI export, JPG export, DB export, Sequences, Smart Search and Audio; Setup, Edit private views, Edit public views.
- ▶ Audit logs of exported evidence by user and file.
- ▶ Audit logs of client user activity by time, locations and cameras.

### HTTP SERVER/REAL-TIME FEED SERVER

- ▶ Remote access for web browser without installing any client software.
- ▶ View live video or playback 1-4 cameras' recordings.
- ▶ Export video as AVI files.
- ▶ Authenticate access based on user name and password.
- ▶ Authorize access either as 'Anonymous', 'Predefined user only' with full access to all cameras, or 'Restrict user access by camera'.
- ▶ Restrict access to playback and AVI export.
- ▶ Audit logs of client user activity by time and cameras.



# > Detailed Product Features

## Imotion Enterprise Server Modules

### XPROTECT REMOTE CLIENT

- ▶ View live video or playback 1-16 cameras' recordings from the same or different servers simultaneously.
- ▶ Advanced video navigation including fast/slow playback, jump to date/time, single step and video motion search.
- ▶ Individual views can be user-defined in various layouts: view or playback camera images from multiple servers simultaneously in the same view.
- ▶ Shared views can be managed centrally via the server with admin/user rights and user groups.
- ▶ Import static or active HTML maps for fast navigation to cameras and good premise overviews.
- ▶ Activate Matrix via graphical premise maps using JavaScript or integrate with centralized access control systems.
- ▶ Control output port relay operation, like control of gates.
- ▶ Quick overview of sequences with detected motion and preview window.
- ▶ Quick overview of events/alerts.
- ▶ Control PTZ cameras remotely, also using preset positions.
- ▶ Remote PTZ Point-and-Click control.
- ▶ Remote PTZ zoom to a marked rectangle.
- ▶ Take manual control over a PTZ camera that runs a patrolling scheme; after a timeout with no activity the camera reverts to its scheduled patrolling.
- ▶ IPIX 1x2 or 2x2 'Quad View' for viewing all 360° at once.
- ▶ Optional video compression in streaming from server to client gives better use of bandwidth.
- ▶ Create AVI files or save JPEG images.
- ▶ Print incident reports with free-text user comments.
- ▶ System logon using XProtect user name and password.



Smart Client :  
Advanced search  
detects activity in  
areas indicated



Easy to use  
user interface



Build-in map function that provides  
intuitive overview of the system  
and offers integrated access to  
all system components

# > Detailed Product Features

## Imotion Enterprise Server Modules

### SMART CLIENT

- ▶ Smart Client includes all the features of XProtect Remote Client plus more:
- ▶ Live view digital zoom allows zoomed-out recordings while the operator digitally can zoom in to see details.
- ▶ 'Update On Motion Only' optimizes CPU usage by letting motion detection control whether the image should be decoded and displayed or not. The visual effect is a still image in the view until motion is detected.
- ▶ Shared and private camera views offer 1x1 up to 8x8 layouts in addition to asymmetric views.
- ▶ Multiple computer monitor support with a main window and any number of either windowed or full screen views.
- ▶ Hotspot function for working in details with a camera selected from a view containing multiple cameras.
- ▶ Carousel function allows a specified view to rotate between pre-defined cameras not necessarily present in the view at the same time.
- ▶ Matrix function to view live video from multiple cameras through the Image Server in any view layout with customizable rotation path, remotely controlled by computers sending Matrix remote commands.
- ▶ Send Matrix remote commands to display live video remotely on computers running the Matrix Monitor or the Smart Client with Matrix Plug-in.
- ▶ Cameras' built-in audio sources available live and in playback.
- ▶ Goto PTZ preset positions directly from camera menu.
- ▶ Goto a specific camera directly from camera menu.
- ▶ Copy camera images to clipboard.
- ▶ Manually trigger events by activating an administrator defined event from a list.
- ▶ Audible alerts activated by motion detection or event occurrence per camera.
- ▶ Smart Search lets you quickly search selected areas of camera images for motion. Within a camera image, you can mark a specific area, multiple areas or overlapping areas for detecting motion sequences.
- ▶ Graphical timeline displays scrollable view of recorded sequences by adjustable time spans for an excellent graphical overview of when images have been recorded.
- ▶ Digital zoom function is also available in playback mode.
- ▶ Many features for printing images.
- ▶ Export 'Evidence CD' containing native database and
- ▶ Recording Viewer for instant, easy viewing by authorities.
- ▶ Encryption & password protection option for exported recordings and files.
- ▶ Assign keyboard shortcuts to common actions.
- ▶ Assign common actions to joystick buttons.
- ▶ System logon using Microsoft Active Directory user accounts.



The Floating Window option in the XProtect Smart Client enables you to watch a potentially huge number of cameras at the same time - that's good overview! Create as many floating views as you want in different groups like buildings, departments, or all entrances. To instantly find recordings in chosen time periods, browse by adjustable time spans with the Timeline Browser.

# > Detailed Product Features

## Imotion Enterprise Server Modules

### INTEGRATION OPTIONS

- ▶ Compatible with XProtect Transact that integrates video surveillance with ATM or POS cash register systems for managing loss prevention and fraud.
- ▶ Compatible with XProtect Central for alarm overviews and operational status in larger video surveillance installations.
- ▶ Integrate with access control systems, alarms, gates, building management systems, etc. using hardware I/O, internal events and TCP/IP events.

With the Intercam Software Development Kit (SDK) you can integrate video into other software products by using the API to view live images, playback recorded activities, 'go to' specific times, and search for motion.

Create, import and use HTML pages for navigation between views or to trigger a virtual matrix in XProtect Smart and Remote Clients.

Develop third party plug-ins for the Smart Client to expand with new functionality.

### PDA CLIENT

- ▶ View live or playback video from a single server or from multiple servers in half-screen or full-screen formats.
- ▶ In live view you can control Pan/Tilt/Zoom cameras manually or use preset positions, and control the cameras' output relays to trigger external actions like opening doors or gates, turning on lights, etc.
- ▶ To find recordings, you can jump to specific time/date or to next detected motion, or use motion detection sequence overviews.
- ▶ When viewing recordings, you can playback at variable speed or single step image by image.
- ▶ The PDA client connects to the XProtect Enterprise server using any IP connection; typically wireless LAN, GPRS, etc.
- ▶ Video compression from the server to PDA optimizes bandwidth usage.
- ▶ System logon using XProtect user name and password.

### MATRIX MONITOR

- ▶ Virtual Matrix showing live video directly from up to 4 cameras at a time triggered remotely by Matrix remote commands.
- ▶ Camera view shifts by FIFO (first-in-first-out)
- ▶ Multiple events can control a single Matrix monitor and single events can control multiple monitors.
- ▶ Manually confirm or auto-accept Matrix remote commands.
- ▶ Show live video at the maximum speed (frame rate) allowed by your cameras.



Basic view and playback on a PDA device from the same or multiple servers. In live mode the operator can Pan-Tilt-Zoom (PTZ) and control input/output devices (i.e. open gate, turn on lights, etc.) In browse mode, the operator can search recordings based on time/date and motion detection.

