



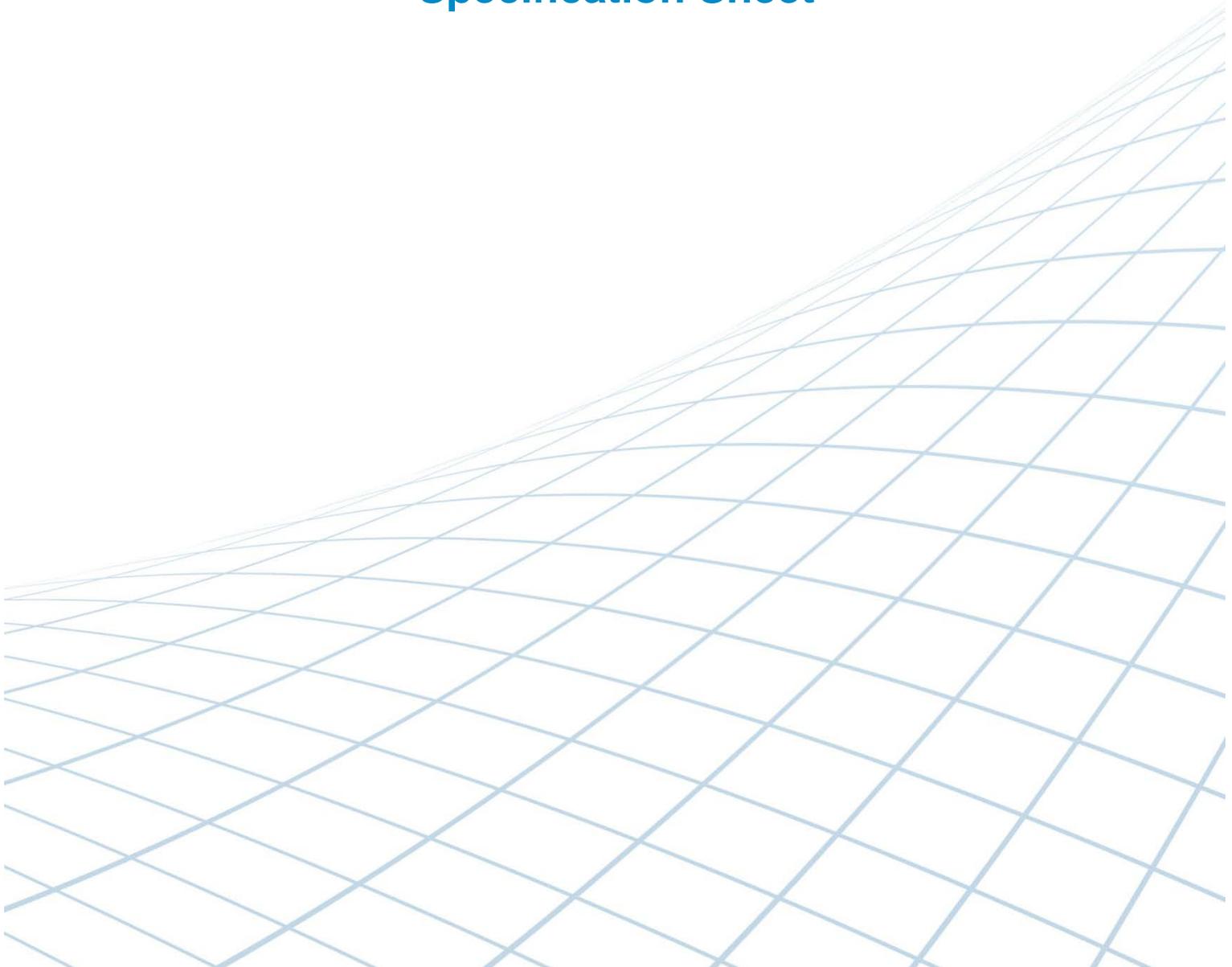
milestone

The Open Platform Company



XProtect™ Professional 7.0

Specification Sheet





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Feature Overview

Key Features

- **Open Platform:**
Open API/SDK, supports seamless integration with third party applications.
- **Single-server video surveillance solution:**
Supports up to 64 IP cameras, IP video encoders with analog cameras.
- **Optimized Recording Storage Management:**
Unique data storage and archiving solution that combines superior performance and scalability and cost efficient long-term video storage.
- **Wide IP camera and device support:**
Supports connection of more than 839 IP cameras, IP video encoders and selected DVR models from over 79 different vendors through dedicated device integration.
- **ONVIF™ and PSIA compliant:**
Supports ONVIF™ and PSIA compliant cameras and devices.
- **Wide compression technology support:**
Supports the new compression methods; MPEG4 ASP, MxPEG and H.264, besides MJPEG and MPEG4.
- **System configuration wizards:**
Guides the user through the process of adding cameras, configuring video and recording, adjustment of motion detection and user configuration.
- **Sequence Explorer:**
Displaying sequences and time intervals in thumbnail pre-views, the Sequence Explorer gives unparalleled visual overview of recorded video combined with smooth navigation.
- **Overlay buttons**
Intuitive control of cameras, camera-integrated devices and other integrated systems- directly from the camera view.
- **Independent Playback**
Instant and independent playback function allows you to independently playback recorded video for one or more cameras, while in live viewing or playback mode.
- **Built-in Video Motion Detection:**
Independent of camera model and supporting up to 64 cameras simultaneously per server.
- **Multiple language support:**
Let operators use the system in their native language with support for 20 different languages.
- **Multi-channel, two-way audio:**
Communicate with people at gates/entrances or broadcast messages to many people at once with multi-channel, two-way audio.
- **Fast evidence export:**
Quickly deliver authentic evidence to public authorities by exporting video to various formats, including video from multiple cameras with viewer, logs, and user notes included.

Administration Features

- **Single Management Application:** A new Management Application provides a consolidated single point management access to XProtect Professional Recording Server.
- **System configuration wizards:** Guides the user through the process of adding cameras, configuring video and recording, adjustment of motion detection and user configuration.
- **Automated device discovery:** Enables fast discovery of camera devices using methods such as Universal Plug And Play, Broadcast and IP Range scanning.
- **Smart bulk configuration option:** Change settings across multiple devices simultaneously and in a very few clicks.
- **Adaptable application behavior:** Guides novice users, while expert users can optimize the application for efficient use.
- **Export/import of system and user configuration data:** System backup for reliable system operation and fast system recovery. System cloning for efficient rollout of multiple systems with the same, or similar, configuration.
- **Import of off-line configuration data:** Enabling off-line editing of configuration data, including camera and device definitions.
- **Automatic system restore points:** A 'Restore Point' is created each time a configuration change is confirmed. Enables easy rollback to previously defined system configuration points and enables cancelation of undesired configuration changes and restoration of earlier valid configurations.

Integration Options

- XProtect's Open Software Development Kit (SDK) makes it possible to video enable your business processes, through seamless integration of third party applications, such as video analytics, access systems, etc.
- 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.
- Create, import and use HTML pages for navigation between views.
- Develop third party plug-ins for the Smart Client to expand with new functionality.



Detailed Product Features

XProtect Professional Server Modules

Recording Server

- Simultaneous digital multi-channel video and audio recording and live viewing (relaying).
- Two-way audio enables integrated control of microphones and speakers connected to IP devices.
- Bandwidth optimized multi-streaming by splitting a single camera video stream to differentiated streams for live view and recording, where each can be optimized independently with respect to frame rate and resolution.
- Connectivity to cameras and video encoders supports MJPEG, MPEG4, MPEG4 ASP*, H.264* and MxPEG.
- 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 and MxPEG streams including audio.
- Recording speed: 30+ frames per second per camera, limited only by hardware.
- Recording quality depends entirely on camera and video encoder 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.
- Start recording on event.
- Client initiated start of recording based on pre-defined recording time and access privileges.
- Pan Tilt Zoom (PTZ) preset positions, up to 50 per camera.
- Absolute and relative PTZ positioning.
- 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 between PTZ positions.
- VMD-sensitive PTZ patrolling among selected presets allows sending of Wipe and Wash commands to supported PTZ models.
- 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.
- Flexible notification (e-mail and SMS) and camera patrolling scheduling, triggered by time or event.

Recording Server Manager

- Local console management of the Recording Server accessible from the notification area.
- Start and stop Recording Server service.
- Access to Recording Server configuration settings.
- Access to Recording Server help system.
- View system status and log information.

Image Server

- Remote access for Smart and Remote Clients.
- Built-in web server for download and launch of clients and plug-ins.
- Authenticate access based on local Windows user account, or XProtect user name and password.
- Authorize access privileges per local Windows user account/group, XProtect user profile or grant full access.
- User profiles control access to: Live view, PTZ, PTZ presets, Output control, Events, Listen to microphone, Talk to speaker, Manual recording; Playback, AVI export, JPG export, DB export, Sequences, Smart Search and audio. As well as Set up views, Edit private views and Edit shared public views.
- Audit logs of exported evidence by user and file.
- Audit logs of client user activity by time, locations and cameras.

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, a JPEG image, an AVI film or in the native database format.
- 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.
- Fisheye 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.



XProtect Professional Client Modules

Smart Client

- Smart Client includes all the features of XProtect Remote Client plus more:
- Installed per default on Recording Server for local viewing and playback of video and audio.
- Start recording on cameras for a pre-defined time (default 5 minutes). Subject to privileges set by administrator.
- Independent Playback capability allows for instant playback of recorded video for one or more cameras, while in live and playback mode.
- 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 10x10 layouts in addition to asymmetric views.
- Views optimized for both 4:3 and 16:9 screen ratios.
- 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 with individual timing and order with multiple appearances. Carousel function can be controlled allowing the operator to pause carousel function and to switch to previous or next camera.
- Overlay buttons provides intuitive control of cameras, camera-integrated devices and other integrated systems- directly from the camera view.
- Cameras' built-in audio sources available in live and in playback.
- Separate pop-up window displaying sequences and time intervals in thumbnail pre-views, the Sequence Explorer gives unparalleled visual overview of recorded video combined with smooth navigation.
- Presents recorded sequences for individual cameras, or all cameras in a view.
- Seamlessly available in both Live and Playback modes.
- Smooth navigation with sliding preview and "drag-and-throw" function for video thumbnails.
- Instant playback of video sequences.
- Application Options allows users to adapt the layout and personalize the application to their particular preferences.

Remote Client

- View live video or playback recordings for 1-16 cameras 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.
- Control output port relay operation, for example 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.
- Grandeye/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.



Minimum System Requirements

XProtect Professional Server

XProtect Professional Recording Server 7.0

- **HW Platform:**
Minimum 2.4 GHz CPU and 1 GB RAM (2.4 GHz dual core processor and 2 GB RAM or more recommended). Minimum 1 GB disk space available, excluding space needed for recordings.
- **OS:**
Microsoft® Windows® XP Professional (32 bit or 64 bit*), Windows Server 2003 (32 bit or 64 bit*), Windows Server 2008 R1/R2 (32 bit or 64 bit*), Windows Vista™ Business (32 bit or 64 bit*), Windows Vista Enterprise (32 bit or 64 bit*), Windows Vista Ultimate (32 bit or 64 bit*), Windows 7 Professional (32 bit or 64 bit*), Windows 7 Enterprise (32 bit or 64 bit*) and Windows 7 Ultimate (32 bit or 64 bit*).
- **Software:**
Microsoft .NET 3.5 Framework SP1, or newer.
DirectX 9.0 or newer required to run Playback Viewer application.

XProtect Enterprise PDA Server 1.0

- **HW Platform:**
Minimum 2.4 GHz CPU and 1 GB RAM (2.4 GHz dual core processor and 2 GB RAM or more recommended). Minimum 1 GB disk space available.
- **OS:**
Microsoft Windows XP Professional (32 bit or 64 bit*), Windows Server 2003 (32 bit or 64 bit*).
- **Software:**
Microsoft .NET 2.0 (not compatible with newer versions).
Internet Information Server (IIS) 5.1.

XProtect Professional Clients

XProtect Smart Client 5.0

- **HW Platform:**
Minimum 2.4 GHz CPU, 1 GB RAM (more powerful CPU and higher RAM recommended for Smart Clients running high number of cameras and multiple views and displays).
- **Graphics Card:**
AGP or PCI-Express, minimum 1024 x 768 (1280 x 1024 recommended), 16 bit colors.
- **OS:**
Microsoft Windows XP Professional (32 bit or 64 bit*), Windows Server 2003 (32 bit or 64 bit*), Windows Server 2008 R1/R2 (32 bit or 64 bit*), Windows Vista Business (32 bit or 64 bit*), Windows Vista Enterprise (32 bit or 64 bit*), Windows Vista Ultimate (32 bit or 64 bit*), Windows 7 Professional (32 bit or 64 bit*), Windows 7 Enterprise (32 bit or 64 bit*) and Windows 7 Ultimate (32 bit or 64 bit*).
- **Software:**
DirectX 9.0 or newer required to run Playback Viewer application.
Microsoft .NET 3.5 Framework SP1, or newer.

XProtect Remote Client 3.6

- **HW Platform:**
Minimum 2.4 GHz CPU, RAM 1 GB (2 GB or higher recommended on Microsoft Windows Vista).
- **OS:**
Microsoft Windows XP Professional (32 bit or 64 bit*), Windows Server 2003 (32 bit or 64 bit*), Windows Server 2008 R1/R2 (32 bit or 64 bit*), Windows Vista Business (32 bit or 64 bit*), Windows Vista Enterprise (32 bit or 64 bit*) and Windows Vista Ultimate (32 bit or 64 bit*), Windows 7 Professional (32 bit or 64 bit*), Windows 7 Enterprise (32 bit or 64 bit*) and Windows 7 Ultimate (32 bit or 64 bit*).
- **Software:**
DirectX 9.0 or newer required to run Playback Viewer application.
Microsoft Internet Explorer 6.0, or newer, 32 bit version required.

XProtect PDA Client 1.0

- **HW Platform:**
Intel StrongARM® or 100% compatible.
Minimum 32 Mbyte RAM.
- **OS:**
Microsoft Windows Pocket PC 2003/2003 SE/Mobile 5.0.
- **Network:**
Ethernet (256 Kbit or higher recommended).

XProtect Matrix Client 2.3

- **HW Platform:**
Minimum 2.4 GHz CPU, RAM 1 GB (2 GB or higher recommended on Microsoft Windows Vista).
- **OS:**
Microsoft Windows XP Professional (32 bit or 64 bit*), Windows Server 2003 (32 bit or 64 bit*), Windows Server 2008 (32 bit or 64 bit*), Windows Vista Business (32 bit or 64 bit*), Windows Vista Enterprise (32 bit or 64 bit*) and Windows Vista Ultimate (32 bit or 64 bit*).
- **Software:**
DirectX 9.0 or newer required to run Playback Viewer application.

*) Running as a 32 bit service/application.



Miscellaneous

Supported Languages

Professional Management Application 7.0

- English, German, French, Spanish, Italian, Danish, Simplified Chinese, and Japanese.

XProtect Smart Client 5.0

- English, Arabic, Simplified Chinese, Traditional Chinese, Czech, German, Danish, Spanish, French, Hungarian, Italian, Japanese, Korean, Dutch, Polish, Russian, Swedish, Turkish, Slovak, and Finnish.

XProtect Remote Client 3.6

- English, German, French, Spanish, Simplified Chinese, Japanese, Italian, Danish, and Swedish.

PDA Client 1.0

- English and Simplified Chinese.

Matrix Monitor 2.3:

- English.

Licensing Structure

Base Server License

- An XProtect Professional Base Server license is mandatory for installing the product.
- The Base Server license contains:
 - Unlimited numbers of Recording Server licenses
 - Unlimited numbers of Smart Clients, Remote Clients, PDA Clients and Matrix Monitor licenses.

Camera License

- To connect to a camera, a Device License per camera channel is required.
- In total, for all copies of the product installed under a given Base Server license, the product may only be used with as many cameras as you have purchased camera licenses for.
- Video encoders with multiple analog cameras require a license per channel to operate.
- Camera Licenses can be purchased in any numbers. To extend the installation with additional Camera Licenses, the Base Server License number (SLC) is required when ordering.

Client License:

- All client modules are not licensed and can be installed and used on any number of computers.