XProtect™ Essential 1.0

Specification Sheet

Contents

Feature Overview

Key Features

- **Single-server video surveillance solution:**
  Supports up to 26 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 26 cameras simultaneously per server.
- **Multiple language support:**
  Let operators use the system in their native language with support for 20 different languages.
- **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 Essential 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

- Compatible with XProtect Transact that integrates video surveillance with ATM or POS cash register systems for managing loss prevention and fraud.
- 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.

Detailed Product Features

XProtect Essential Server Modules

Recording Server

- Simultaneous digital multi-channel video and audio recording and live viewing (relaying).
- 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 26 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 to additional local storage – 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.
- 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 25 per camera.
- Absolute and relative PTZ positioning.
- PTZ go-to preset position on events.
- Flexible e-mail notification 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, Manual recording; Playback, AVI export, JPG export, Sequences, 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).
- Evidence can be generated as a printed report, a JPEG image or an AVI film.
- Export video digitally zoomed to view area of interest only and to minimize export footprint size.
- Ability to add comments to exported evidence.
- Option to send email.
- De-interlacing of video from analog cameras.
- Fisheye technology for PTZ in 360° recorded images.

XProtect Essential 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.
- 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 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.
- 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 Essential Server

XProtect Essential Recording 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, 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 Essential 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.

*) Running as a 32 bit service/application.

Miscellaneous

Supported Languages

Essential Management Application 1.0

- 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.

Licensing Structure

Base Server License

- An Essential base server license is mandatory for installing the product.
- The Essential base server license includes 2 camera licenses.
- The base server license contains the Essential server modules: Recording Server, Viewer, Recording Server Manager, Image Server, plus the client modules: Smart Client and Remote Client.

Camera License

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

Clients - Unlicensed

- The Smart Client and Remote Client are not licensed and can be installed and used on any number of computers.