Intellect Enterprise

Open PSIM platform for unlimited scalability and integration

Axxon Intellect Enterprise 4.8 is your choice when managing hundreds or thousands of cameras in a custom-built security system, or when you need integrated CCTV with access control, intruder alert, fire detection and sophisticated functionalities such as face recognition, road traffic monitoring, and bundled POS monitoring.

- Unlimited scalability
- Hybrid system to manage analog and IP cameras simultaneously
- Integration with access control, intruder alert and fire alarm systems
- Video and Audio Analysis, and Forensic Search
- Additional modules: POS, license plate recognition, facial recognition and face search, road traffic monitoring
- Fully customizable GUI
- Event-driven management model
- Video compression: H.264, MPEG-4, MJPEG, Motion Wavelet (native)
- Megapixel camera compatibility
- Panoramic (fisheye) camera image dewarping
- Support for external storage
- Notification Services (Voice, SMS, MMS, Email)
- Advanced web-based reporting system
- Video signal quality control
- Failover service
- Mobile & web access

These capabilities make Intellect Enterprise 4.8 a perfect solution for large deployments for banking, city surveillance, gas stations, oil and gas facilities, critical infrastructure, and transportation (airports and railways). POS integration allows coordinated management of retail premises, guaranteeing security and safety in day-to-day operations.

With more than one million licenses sold in the last 5 years, Intellect Enterprise 4.8 is a future-proof software suite that is ready to meet the highest standards for flexibility and ease of use. Designed to work at large deployments, you will appreciate in value its stability even in the hardest conditions of restricted bandwidth and minimal hardware footprint.

As a unified security management system, Axxon Intellect integrates any and all security applications, systems and devices – including new IP-based systems, best-of-breed point solutions and products, and legacy devices – into a single environment.

Because it’s built with an object-oriented architecture, Axxon Intellect is easy to install, easy to use, and easy to manage. The system is easily expanded, so as your company reaches new levels of growth, you can build on your initial investments. You’ll never have to put your company through the frustration or financial stress of changing systems.

Axxon Intellect has built-in intelligent video and audio analytics to recognize events as they occur, and the ability to respond appropriately.

The Intellect Enterprise modules can be installed and launched at different computers connected over a network, thus providing a complete solution for remote operation, control, and monitoring.
System architecture

Powerful system for video and audio analysis

Axxon Intellect Enterprise 4.8 incorporates a powerful system for analysis of video images. It includes the following video detection tools:

- motion – captures any movement in the scene
- background change – triggered when an attempt is made to turn the camera
- drop of image quality – triggered when the image quality deteriorates due to blurring, soiling or blinding of the lens or darkening of the image, etc.
- abandoned objects – triggered when an object (briefcase, box, bag, etc.) appears in the scene and remains motionless for some time
- cross line – triggered when a moving object crosses the virtual line in the user-specified direction
- motion in a restricted area – recognizes movement in a user-specified area
- stopping in a restricted area – triggered when any object stops and remains motionless for some time within a user-specified area
- loitering – triggered when an object remains in a user-specified area for some time
- zone entry – triggered when any object appears within a user-specified area
- zone exit – triggered when the object leaves the user-specified area or when the object located in the area disappears from the camera’s field of view
- on-board video analytics on IP cameras
- audio analytics: broken glass and car alarms
- store traffic counting and queue management.

Forensic search

Forensic Search is a system for searching through video recordings in the archive. During video recording, Forensic Search records the characteristics of all moving objects in the scene.

Forensic Search allows searching the video footage for records that match certain parameters: area and direction of motion of an object, its speed, size and color, etc. Within seconds, Forensic Search finds all records that match the user’s query.
Axxon’s License Plate Recognition module, powered by the Adaptive Recognition engine and integrated into Axxon Intellect, is ideal for both law enforcement agencies and commercial enterprises (parking operators).

The Traffic Control module gives you the real-time traffic data necessary to optimize traffic flows, foresee problems, and ease traffic congestion. Traffic detectors warn you of possible bottlenecks and give you the guidance you need to assess gridlock, prevent roadblocks, supervise traffic flows and monitor road capacity usage for long-term planning.

Axxon Intellect Enterprise 4.8 includes a Face Recognition and Face Search modules, powered by Cognitec and VeriLook face recognition engines. The Face Recognition module automatically detects and captures a human face within the video frame and compares it to photos database in order to positively identify persons of interest. The Face Search module creates a database of all faces captured by video cameras and lets you search the database for similar faces.

- People identified regardless of facial hair, hairstyle, eyewear, aging or angle, and in a variety of background conditions.
- Easy integration with existing systems.
- Automatic synchronization with user databases.
- Integration with access control systems.

Axxon Intellect’s integrated POS system synchronizes a video image of the cash area and text on each check, and lets you keep a close eye on the process of exchanging goods for cash.

- Synchronous data display: the text of receipts is superimposed over video of transactions.
- Notification of suspicious activities: giving money back, providing discounts, canceling purchases, etc.
- Store traffic counting and queue management capabilities can be used to analyze workloads and optimize store operations.
- Flexible networking capabilities over LAN, WAN or dial-up connections.
- Easy integration with most popular POS terminals. For terminals that aren’t supported out of the box, we’ll provide you with a customized solution.
## Technical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>Max Video inputs</td>
<td>Unlimited</td>
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<tr>
<td>Max remote client stations</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Supported codecs</td>
<td>H.264, MPEG4, MJPEG, Motion Wavelet, MxPEG</td>
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<tr>
<td>Image resolution</td>
<td>Up to 10 megapixels</td>
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<tr>
<td>Export possibilities</td>
<td>AVI, JPEG, BMP, XLS, WAV</td>
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<tr>
<td>Digital zoom</td>
<td>x2, x4, x8, x16</td>
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<tr>
<td>Audio monitoring &amp; recording</td>
<td>Yes</td>
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<tr>
<td>Synchronized audio/video</td>
<td>Yes</td>
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<tr>
<td>Duplex audio streaming</td>
<td>Yes</td>
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<tr>
<td>PTZ control</td>
<td>Dialog window, mouse, USB joystick, analog PTZ control panel</td>
</tr>
<tr>
<td>I/O dry contacts (per computer)</td>
<td>64 In / 64 Out</td>
</tr>
<tr>
<td>Video capture cards</td>
<td>FX4, FX8, FX16, FX-HD4</td>
</tr>
<tr>
<td>Software video compression</td>
<td>FX4, FX8, FX16, FX-HD4</td>
</tr>
<tr>
<td>Hardware video compression</td>
<td>Stretch VRC6xxx, Stretch VRC7xxx</td>
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<tr>
<td>Mobile client devices</td>
<td>Cell phone, PDA, iPhone</td>
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<tr>
<td>Video analytics</td>
<td>Motion, Background change, Drop of image quality, Abandoned object, Line crossing, Movement in a restricted area, Stopping in a restricted area, Loitering, Zone entry, Zone exit, Store traffic counting and queue management, On-board video analytics on IP cameras</td>
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<tr>
<td>Forensic Search</td>
<td>Search criteria: crossing a virtual line in a user-defined direction, motion in the zone, zone entry, motion from one area to another, item appeared in the zone, item disappeared in the zone, stopping in the zone, presence in the zone for over 10 seconds, abandoned object, Additional criteria: find objects of the selected color or objects that cross a line/polyline with the selected speed</td>
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<tr>
<td>Audio analytics</td>
<td>Powered by Audio Analytic engine: car alarms, glass break</td>
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<tr>
<td>Optional video modules</td>
<td>License plate recognition, Facial recognition, Face search, Road traffic monitoring, POS integration</td>
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<tr>
<td>Event management</td>
<td>User-defined rules, Advanced programmable script language for greater flexibility</td>
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<tr>
<td>Built-in object map management</td>
<td>2D blueprint, Visual 3D modeling</td>
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<tr>
<td>Min RAM</td>
<td>2 GB (4 GB recommended)</td>
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<tr>
<td>Video card</td>
<td>ATI, Nvidia, Min: 512 MB</td>
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<tr>
<td>CPU</td>
<td>Intel Core 2 Duo or higher</td>
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</tbody>
</table>

### Compatible IP cameras


### Compatible PTZ

Pelco, Panasonic, Samsung, Sony, Sensormatic, Mitreron, Nevis, JVC, Ganz, CNB, Dynacolor, Fastrax II, LTC, Kalatel, Kocom, Vortex, VCL, Dongyang, CBC, American Dynamics, Lilin, DTRMX, Yan, Sunkwang, Everfocus, Sanyo, Videotec, Yoko, Oko and TC-404

### Compatible Access Control, Fire and Security Alarm Systems

Honeywell, Sorhea, Intrepid, Unipos, Satel, Paradox, HID, Paxton, Optex, Polon, Salto

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