COMPANY PROFILE

50 OFFICES
ACROSS THE GLOBE

AxxonSoft

A world's leading developer of intelligent VMS and PSIM software. Since 2003, the company has been creating disruptive technologies that push the Safety & Security industry forward.

OVER 2.5 MILLION
LICENSED VIDEO
CHANNELS

SALES IN 100+
COUNTRIES
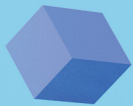
OVER 5,800
CERTIFIED
PARTNERS

500
EMPLOYEES

axxonsoft
EXPERIENCE THE NEXT®

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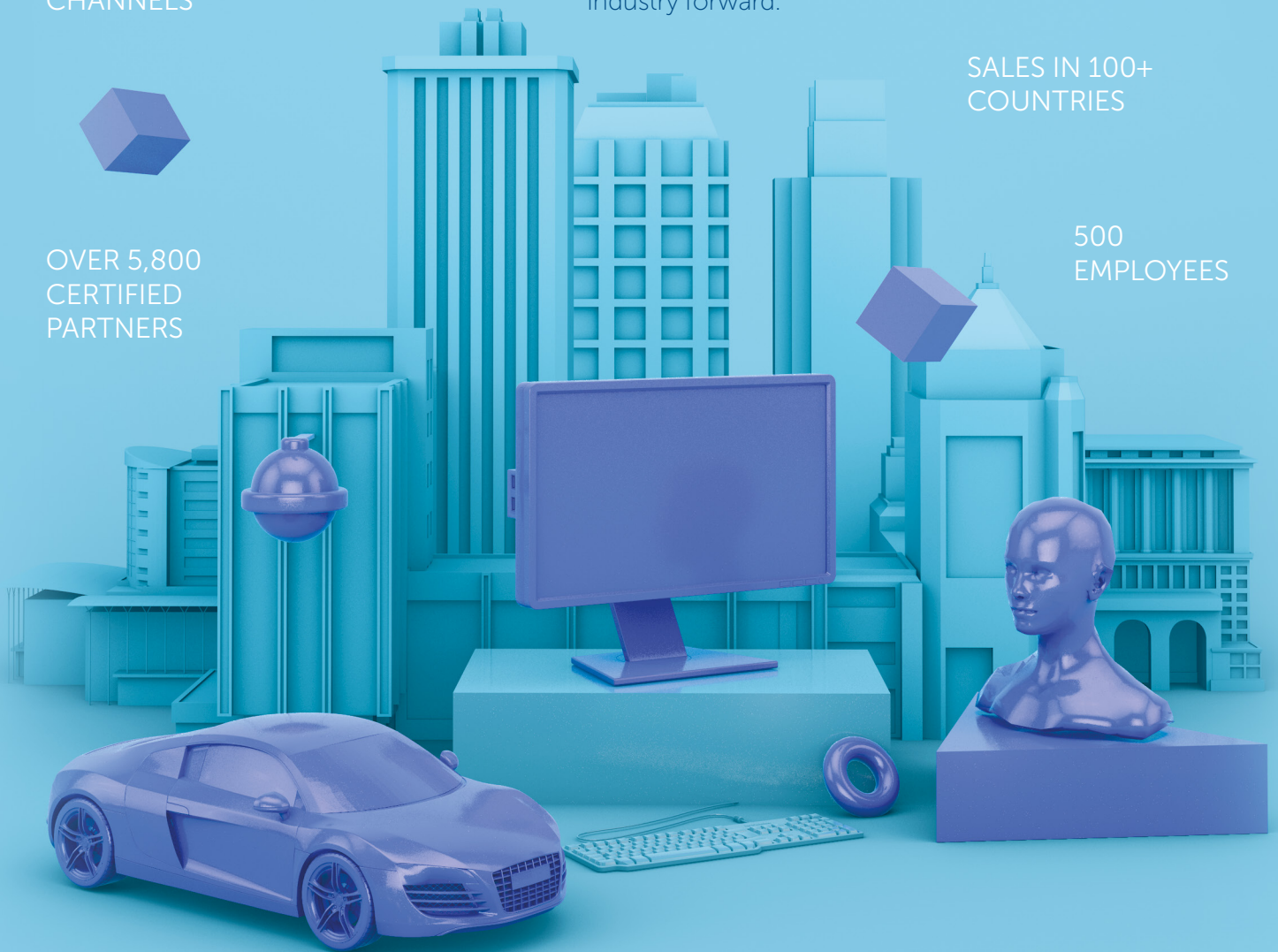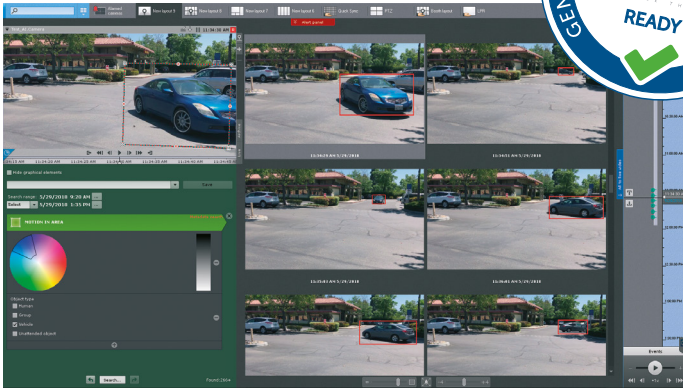
Forensic Search

AxxonSoft is one of the pioneers in Forensic Search technologies for recorded video among VMS vendors. Forensic Search tools greatly reduce the time you spend searching for incidents recorded in the video archive. All the user has to do is enter the parameters for an event of interest; for example, upload a photo of a person, enter a license plate number or the size and color of an object, and AxxonSoft analytics will find all video recordings containing the previously mentioned information in a matter of seconds.

HISTORY OF AXXONSOFT TECHNOLOGY

Artificial Intelligence (AI)

Since 2016, AxxonSoft has been stepping up R&D in deep learning-based video analytics. In 2017, the company implemented a full cycle for training AI video analysis to meet the needs of a particular facility. The AxxonSoft neural network learns to perform customer-specific tasks from video material obtained on the site.

2019 Intel® Distribution of OpenVINO™ toolkit is integrated. AxxonSoft becomes the first VMS developer to support ONVIF Profile T. Behavior Analytics is added to the AI toolset.

2018 The AxxonNet cloud surveillance service is launched. AxxonSoft products ensure GDPR compliance. AI-based video analytics is extended to abandoned item detection.

2017 AI is applied for detecting people and vehicles. More than 10,000 IP devices are now integrated.

2016 Deep learning offers a new approach to fire and smoke detection. Performance is improved with support for the H.265 codec and Intel® Quick Sync Video hardware video decoding.

2015 Intellect is the first software to incorporate ONVIF Profile G. The number of supported IP devices now exceeds 8,500.

2013 New features include dewarping of fisheye camera images via GPU and GreenStream bandwidth optimization technology.

2012 Axxon Next is launched as the NGP-based VMS with unlimited scalability. TimeCompressor technology provides convenient visual synopsis of events.

2011 Forensic Search technologies are introduced for recorded video. Support is added for edge video analytics on IP devices to receive video detection events and metadata (scene descriptions).

2010 AxxonSoft joins ONVIF as a contributing member. Auto Intellect starts recording traffic violations.

2009 Axxon Smart IP is released as the first VMS version based on the NGP. Intellect supports H.264.

2008 134 IP devices from various manufacturers are integrated.

2006 New concepts in the Next Generation Platform (NGP) include Micromodule architecture and a SolidStore filesystem.

2005 Industry-specific solutions are introduced: POS Intellect, Auto Intellect, ATM Intellect, and Face Intellect.

2004 First access control / alarm systems integrations. Support is added for ten Axis IP cameras.

The Motion Wavelet proprietary codec paves the way for building large digital video surveillance systems. The concept of a universal security platform is implemented in Intellect PSIM.

2003

2

Axxon Next VMS

A video surveillance system that combines innovative technologies and experience with deployment on tens of thousands of sites. A balanced product that can meet the needs of any project, regardless of the scale or complexity.
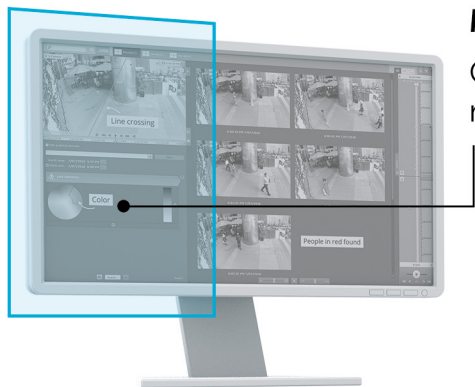
MomentQuest
Quickly find events with multiple criteria

Tag&Track
Use multiple cameras to track objects

3D Interactive 3D map
Intuitive interface to find the exact location of cameras

GreenStream technology
Automatically selects the optimal video stream for the screen resolution

AxxonNet
Cloud service for remote monitoring and situation awareness | axxonnet.com

Autozoom
Use digital zoom to track an object

TimeCompressor
Review hours of recorded video in just minutes

SOFTWARE
Runs on personal computers and servers

FULL FUNCTIONALITY
Even if the system only has one camera

Face search
Quickly find faces that match a picture

Micromodule-based architecture
Increased stability and robustness

ANY SCALE
No limit on the total number of servers and clients

Metadata for IP devices
Receive and process data on moving objects in the FoV

SolidStore
No data fragmentation with our proprietary file system

Failover
The redundancy of servers in the distributed system

ANPR / LPR search
Find all video footage with a car across multiple cameras
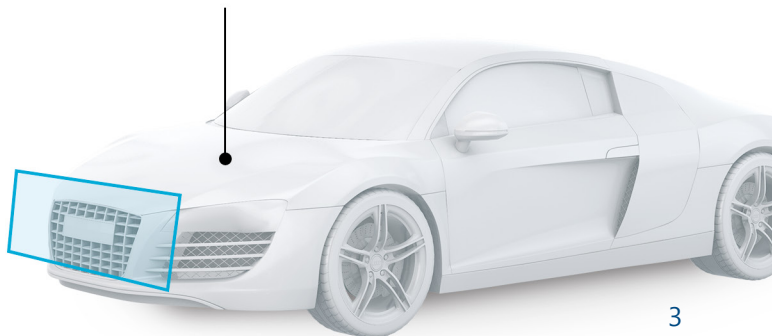
Cross-system client
Manage independent systems in the same interface

Easy to add cameras
Default motion detection recording

Bulk configuration of cameras
Set up a large CCTV system in no time

AXXONSOFT TECHNOLOGIES

AI-powered Analytics

Behavioral Analytics

Behavior Analytics recognizes hazardous situations by detecting specific human postures: for example, a cashier's raised arms, or a person crouching by an ATM. Early alarm notification enables the police or corporate security to neutralize the threat quickly.


Active Shooter detection

Based on Behavior Analytics, the Active Shooter detection tool performs real-time recognition of a person with a gunman's demeanour. Swift alerts to first responders minimize the risks for individuals, groups, and facilities.

Smoke and fire detection

Intelligent fire and smoke video detection operates in areas where other types of sensors are ineffective, e.g. in open spaces. It provides early detection of fire hotspots which leads to a significant reduction in damage.
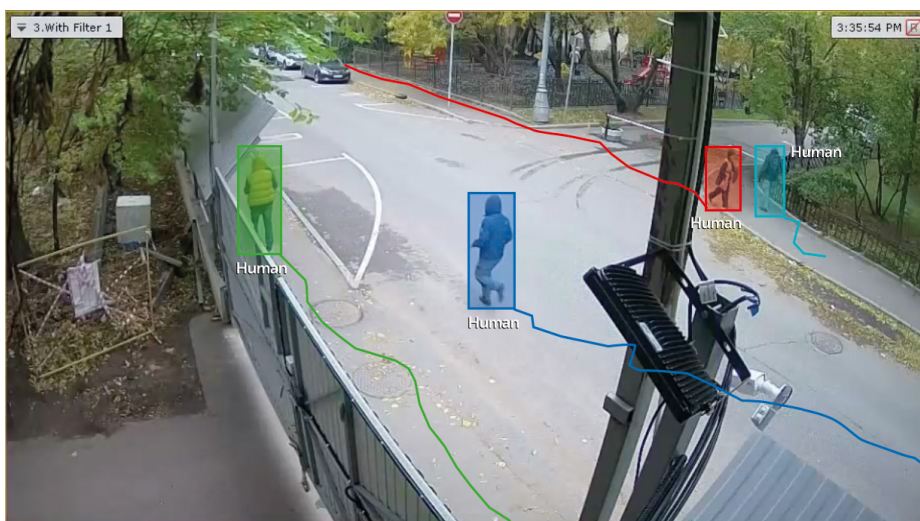
Tracking specific object types

When applied to the Object Tracker, the neural network filter accurately detects specific types of moving objects, e.g. humans or vehicles. This technology can filter out false alarms in busy scenes, where multiple moving objects might interfere with the results.

Smart Forensic Search
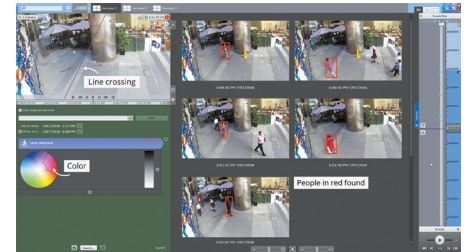
MomentQuest

MomentQuest performs real-time scene analysis and generates a stream of metadata. To retrieve recorded footage of an event of interest, you just enter specific criteria: motion in area(s), crossing of a line, object color or size, etc. Within seconds the system displays the relevant video thumbnails.

TimeCompressor

TimeCompressor captures objects in motion at different times and displays them in a condensed video synopsis. The tool is a viable alternative to scrolling through hours of footage.
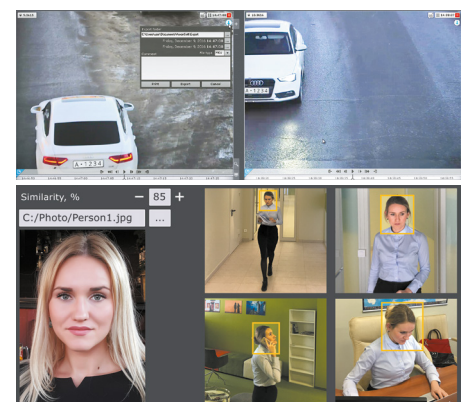
Face and number plate search

Axxon Next captures and recognizes human faces and vehicle number plates. You can quickly check a person's photo or a vehicle number, full or partial, against the video footage. Multiple camera search is also possible.

Axxon Retail Suite

POS supervision

Axxon Next receives data from cash registers and links it to video feeds. The receipt text is superimposed on the video or displayed in a separate pane. You can use receipt data to retrieve POS transaction videos from the recorded footage.

Age and gender guesstimation

The face recognition tool guesstimates age and gender of visitors. The saved data may be used for customer analysis, digital signage targeting, and other marketing purposes.

Visitor counter

This tool counts customers entering or exiting the store or a specific area. The information collected may be used, along with sales data, to estimate your sales conversion rate, and/or for market research.

Heat map

A heat map is a graphic representation of visitor activity (visitor numbers/time spent) in different store areas. The heat map can be generated from either all object or specified object tracking data (similar to the filtering criteria used in MomentQuest).

Queue management

The tool detects the number of people in queueing areas. When you know actual customer numbers, you can manage human resources, in both short and long-term.

Web access to comprehensive reports

You can build custom reports based on POS transaction data, visitor count, queue length, age and gender guesstimation, and other Axxon Retail Suite tools. The web interface enables you to obtain reports from any store within your retail chain via the Internet.

Positive/negative list check

Based on facial recognition, you can launch automatic scenarios when a positive match is found. The positive list may notify store personnel of VIP customer arrivals, while the negative list may indicate shoplifters.

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Minsk

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Krakow

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INSTALLATION SITES

Industry, Retail, Telecom

- AlbChrome, Albania
- Autonet Group, Romania
- Shoprite Retail Stores, USA
- E-Plus, Germany
- SEGMÜLLER, Germany
- Axion Energy, Argentina
- Marks & Spencer, UK
- Lidl, UK
- Abu Dhabi National Oil Company Headquarters, UAE

Transport

- Mexico City International Airport, Mexico
- Balticon terminal, Poland
- The Pan-American Highway, Ecuador
- Valparaiso Port, Chile
- Chubut Port, Argentina
- Pelindo Port, Indonesia
- Wrocław Main Station, Poland
- Casablanca and Rabat international airports, Morocco
- High-speed Moscow—St. Petersburg rail corridor, Russia
- Ulan Bator Traffic Management, Mongolia
- London Underground, UK

Public Places

- Harvard Museum, USA
- Presidential elections 2014, Tunisia
- Jakarta SmartCity, Indonesia
- Safe City Yangsan, South Korea
- Safe Moscow Region, Russia
- Manuel Martínez Valero stadium, Spain
- Provincial Integrated Hospital in Elbląg, Poland
- Eko Hotel & Suites, Nigeria

- Sheraton Libertador Hotel, Argentina
- Grand Trade Business Center, Republika Srpska
- Madrid Stock Exchange, Spain
- Serengeti Golf & Wildlife Estate, South Africa
- Vaal Mall, South Africa
- Ballito Junction Regional Mall, South Africa
- Wettpunkt Casino, Austria

Educational Institutions

- Instituto de Biomecanica de Valencia (IBV), Spain
- Academic Computer Center Cyfronet AGH, Poland
- Koszalin University of Technology, Poland

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