Facial recognition technology has evolved significantly over the last few years, moving the surveillance arena from science fiction to real-world reality. With the proliferation of video surveillance systems, an enormous amount of images are being captured. When it comes to processing this information, the effectiveness of real-time human monitoring is quickly reaching its limits. For this reason, organizations are requiring best-of-breed video management systems, as well as automated video analysis.

Perform face recognition in real time across your entire infrastructure

HP Autonomy and Milestone Systems have integrated their best-of-breed video surveillance solutions to help security operators perform facial recognition in real time across the entire surveillance infrastructure. HP Face Recognition enables biometric identification of people, as well as a whole range of other security and commercial applications built around facial analysis. The solution identifies a face in real time from digital video, and can perform one-to-one verification for bio-metric verification or one-to-many identification for the closest match from a database. The solution also allows automatic enrollment, enabling new use cases like detecting loitering or repeat visitors.

Detect suspicious persons

The HP Autonomy and Milestone Systems integrated solution enables operators to detect and track suspicious persons. The integration is compatible with Milestone XProtect Corporate, Enterprise, and Professional products. Here’s how it works:

1. A network surveillance camera, connected to the XProtect VMS platform, delivers video to the XProtect Recording Server.
2. The XProtect Recording Server in turn delivers video to the HP Face Recognition solution which detects and matches individual faces against a face database to perform verification via the HP developed plug-in, of identify–flagged individuals.
3. The solution sends the associated event information of the detected individual to the XProtect Alarm Manager.
4. The XProtect Smart Client user interface is then enabled to allow users to monitor alarms, and view live, recorded video and associated meta-data.
Facial recognition specifications

The HP Autonomy and Milestone Systems integrated solution requires a minimum of 32 pixels for inter-pupil separation, and offers robust capabilities against the normal variations experienced in the imagery such as small pose deviations, minor partial face occlusions, beard and hairstyle changes, people wearing glasses (except dark sunglasses), etc.

Figure 1: System diagram of the HP Video Analytics and Milestone XProtect®

The benefits

Elevate ROI and effectiveness – HP Face Recognition enables surveillance systems to deliver greater value by getting even more power from video data and databases to achieve a new level of effectiveness in real-time identity verification, threat assessment, and time-sensitive risk mitigation.

Faster deployment with greater future flexibility – Milestone XProtect works with surveillance infrastructure products such as cameras, networking, servers, software, etc. from a wide array of vendors to address the needs of your current installation and to meet future requirements.

Boost productivity – An advanced interface combined with seamless automation allows you to secure infrastructures of any sizes with accelerated access to actionable intelligence, streamlined workflow, and the elimination of manual, error-prone processes.

About HP Autonomy

HP Autonomy is a global leader in software that processes unstructured human information, including social media, email, video, audio, text and web pages. Using HP Autonomy’s information management and analytics technologies, organizations can extract meaning in real time from data in virtually any format or language, including structured data. A range of purpose-built market offerings helps organizations drive greater value through information analytics, unified information access, archiving, eDiscovery, enterprise content management, data protection and marketing optimization.

Additional information is available at autonomy.com.

About Milestone

Founded in 1998, Milestone Systems is a world-leading provider of open platform IP video management software (VMS) with headquarters in Copenhagen, Denmark. The company’s objective is to improve its clients’ organizational processes and increase overall security through the management and distribution of digital video data. Integrated with the HP Facial Recognition solution, the Milestone XProtect® VMS is powerful, reliable, easy to use and proven in more than 100,000 installations worldwide. Based on a true open platform, XProtect VMS enables integration with the industry’s widest choice in cameras and best-in-class business solutions, such as access control and video analytics.

Learn more autonomy.com/offerings/information-analytics/video-surveillance

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