



## **Bosch Focuses on Ease of Use and Forensic Capabilities in Intelligent Video Analysis Software**

September 21, 2009

*Fairport, N.Y.* – Bosch Security Systems, Inc., a full-line manufacturer of high-quality security solutions, today announced a new version of its Intelligent Video Analysis (IVA) software with easier scene calibration and enhanced forensic capabilities that make it easier for investigators to isolate incidents in recorded video.

IVA 4.0 features a new interactive set up tool that reduces camera calibration time to two minutes per camera and provides immediate feedback to the installer with an on-screen calibration quality traffic light, showing the calibration accuracy by color. Accurately calibrated cameras are more likely to predict the size and speed of any object at various distances, which can be important for filtering out unwanted events and minimizing false alarms.

With the new camera calibration tool, users simply draw measured straight lines and right-angles on the scene, and the tool automatically calculates the perspective. The function enables IVA to make accurate estimates of the size and speed of moving objects.

A new head detection filter further refines IVA's forensic search function to allow the operator to search for scenes containing human objects. The filter detects human head and shoulder contours to reliably classify people in a scene, significantly reducing the number of 'false hits' from factors such as reflections in windows.

IVA 4.0 also comes bundled with FLOW 4.0, a new motion vector algorithm. FLOW 4.0 detects scene activity by the absolute movement of pixels in the scene instead of movement against a 'learned' background, which means it works in busy or continuously moving scenes like escalators, rivers and coastlines, roads and crowds. This is particularly helpful in identifying counter-

flow, especially in congested scenes where people are moving against a crowd, turnstile misuse, or vehicles traveling in the wrong direction.

With Bosch's latest Firmware 4.0 release, customers can also switch profiles based on a schedule, such as a day, night or holiday schedule. This is used when the events IVA is configured to detect are different depending on the time of day.

When activated in a Day/Night Bosch Dinion IP or FlexiDome IP camera, IVA 4.0 can also be configured to avoid generating a false alarm during the switch from day (color) to night (monochrome), which is a notorious problem for perimeter surveillance.

Bosch's AutoDome IP PTZ camera now also runs IVA 4.0, which enables up to 10 IVA configurations running in parallel inside one moving camera, providing full 360-degree coverage.

IVA 4.0 and FLOW 4.0 are included free of charge to existing IVA users upgrading to Firmware 4.0, and can be licensed for Bosch's IP fixed and AutoDome cameras and video encoders.

For more information about Bosch IVA 4.0 or Firmware 4.0, visit [www.boschsecurity.us](http://www.boschsecurity.us).

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*The Bosch Group is a leading global supplier of technology and services. In the areas of automotive and industrial technology, consumer goods, and building technology, some 280,000 associates generated sales of 45.1 billion euros (\$66.4 billion) in fiscal year 2008. The Bosch Group comprises Robert Bosch GmbH and its more than 300 subsidiaries and regional companies in over 60 countries. Including sales and service partners, Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. Each year, Bosch spends more than 3.5 billion euros (\$5.7 billion), or eight percent of its sales revenue, for research and development and applies for over 3,000 patents worldwide. With all its products and services, Bosch enhances the quality of life by providing solutions which are both innovative and beneficial.*

*In North America, the Bosch Group manufactures and markets automotive original equipment and aftermarket products, industrial drives and control technology, power tools, security and packaging technology, thermotechnology, household appliances, solar energy and healthcare. Bosch employs nearly 24,000 associates in more than 70 locations throughout the U.S., Canada and Mexico, with reported sales of \$8.6 billion in fiscal 2008. For more information on the company, visit [www.boschusa.com](http://www.boschusa.com).*

*Bosch Security Systems, Inc., a division of the Bosch Group, develops and markets a broad range of products and systems for security, video surveillance, life safety, personnel and asset tracking applications, as well as for communication and professional audio installations. Worldwide, Bosch Security Systems employs more than 11,000 associates and reported sales of \$2 billion in fiscal 2008. For more information, visit [www.boschsecurity.us](http://www.boschsecurity.us) or call (800) 289-0096.*

*Note: Figures based on 2008 conversion rate of 1 Euro = \$1.4710 U.S.; 2007 rate of 1 Euro = \$1.3704 U.S.*