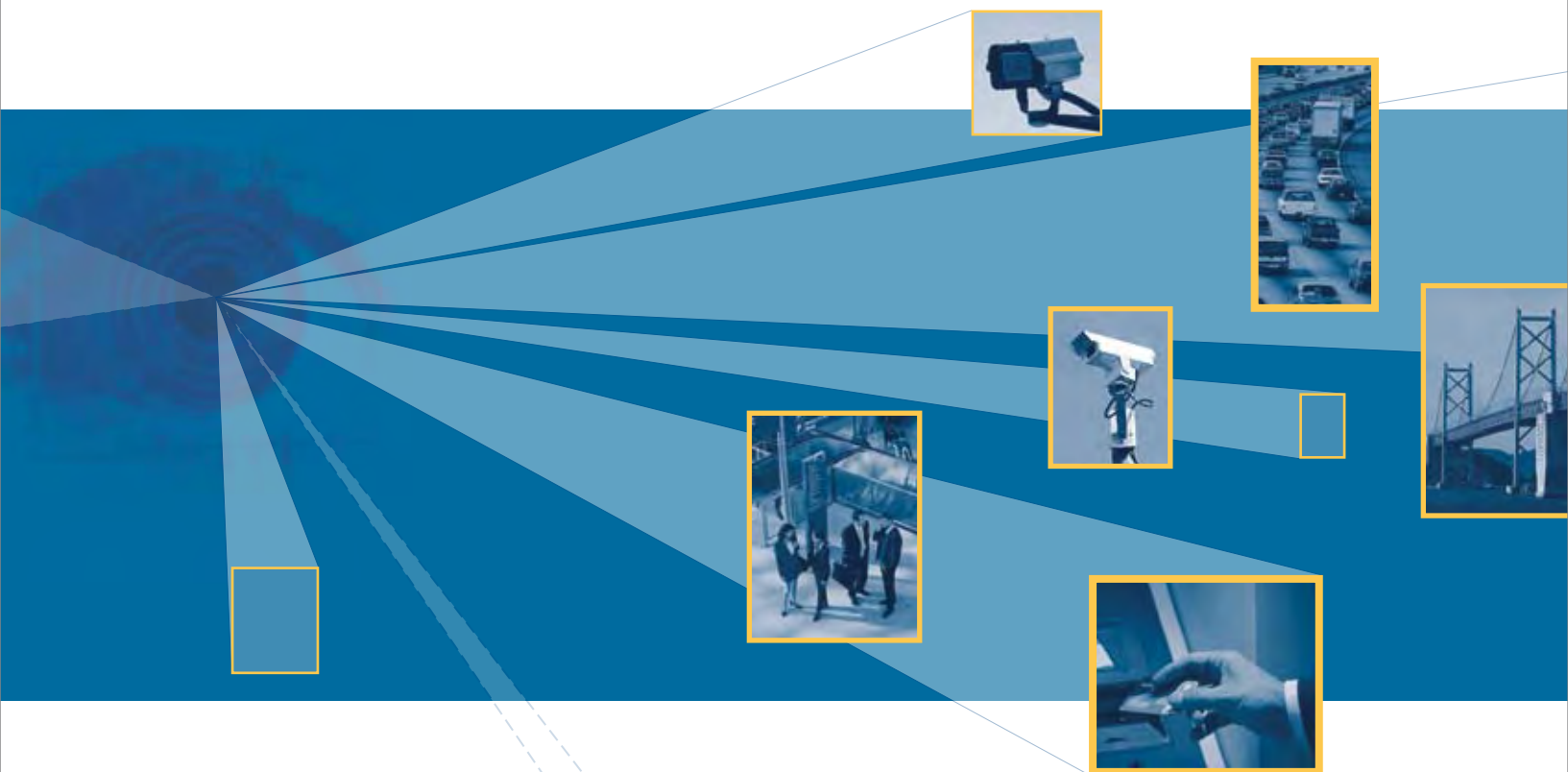


IntelliVision

Video Intelligence and Automated Monitoring



INTELLIGENT VIDEO

iVMD, Intrusion Detector, Video Counter, Asset Protector, Object Removed Detector, IntelliSearch, Auto PTZ tracker

VIDEO POWER SUITE

Video Stabilizer, Video Panorama, Video Noise Reducer, Video Enhancer, Camera Sabotage Detector

OBJECT RECOGNITION SUITE

Face Recognizer, License Plate Recognizer, Object Recognizer

INTELLIVISION INSIDE

OEM Embedded Solutions

INTELLIGENT VIDEO STANDARD (IVS)

Intelligent Video Motion Detector (iVMD)[™]

iVMD is an advanced version of the traditional "Video Motion Detectors" in the market. *Intelligent VMD* analyzes video in real-time and detects valid motion in a scene. It filters out "noise" such as lighting changes and tree and animal movements. This vastly improves reliability while suppressing unwanted alarms. *Intelligent VMD* can be used for providing real-time alerts and start/stop commands to DVRs, NVRs or other archival systems. Typical uses of *iVMD* include outdoor and indoor monitoring of secure facilities.

Intrusion Detector[™]

Intrusion Detector provides automated perimeter monitoring and secure area protection. The product continuously monitors user-selected zones or areas for people or vehicle intrusion. *Intrusion Detector* filters out noise such as lighting variations and tree movements, and issues real-time alarms upon detecting true people or vehicle intrusions into a secure area.

Video Counter[™]

Video Counter is an intelligent video-based counting solution. It processes video streams in real-time to count people, vehicles and other objects. *Video Counter* performs continuous multi-directional counting of people and vehicular traffic in an area. It generates comprehensive reports on people and vehicular traffic patterns. Data collected is typically used for real-time resource allocation, service management, and analysis and forecasting.

Asset Protector[™]

Asset Protector will keep an eye on your valuable assets. It continuously monitors a scene and detects and alarms when any valuable property is removed from the scene. *Asset protector* is used for loss prevention and securing valuable items in government, industrial, retail, corporate facilities, and public places such as museums and national landmarks.



Object Left Detector[™]

Object Left Detector continuously monitors an area to detect an object or baggage that has been left unattended for too long in the scene, in places such as airports and train stations. It looks for objects that are not part of the "normal" scene and issues alerts upon detecting exceptions.

IntelliSearch[™]

IntelliSearch is a smart search solution that can search through large video archives very quickly. *IntelliSearch* is primarily used for forensic purposes to scan video archives and retrieve images very quickly. *IntelliSearch* provides searches based on specific parameters of interest. *IntelliSearch* can easily be embedded in DVR or NVR products to do archive and forensic video searches.

Auto Tracker[™]

Auto Tracker automatically tracks objects in a scene with PTZ cameras. Users can manually select specific objects of interest to track or have the system automatically detect moving objects in the scene, zoom in and track them. Today, users have to manually monitor and control the PTZ camera for tracking. *Auto Tracker* eliminates this manual process as it automatically and intelligently tracks objects. The product can work with (i) a single PTZ camera or (ii) two cameras - a fixed camera and a PTZ.

INTELLIVISION INSIDE

IntelliVision provides embeddable solutions for OEMs. These are available as software toolkits and hardware boards based on DSP and FPGA processors, and custom video processing chips. Contact us for more information on our OEM Embedded Solutions.





VIDEO POWER SUITE

Video Stabilizer™

Video Stabilizer is a robust solution to stabilize video output from any camera. It enables better video encoding that leads to improved archiving and bandwidth utilization. Further, video analysis systems need a steady, stable video stream for accurate analysis and alerts. Many outdoor cameras shake or vibrate due to winds and weather conditions. The product analyzes the video-in, compensates for the shake and outputs a stabilized video stream. This helps deliver a better video for viewing and improves accuracy of video analysis systems.

Video Panorama™

Video Panorama dynamically and seamlessly joins or stitches multiple videos into one large panoramic view in real time. Video panoramas provide a comprehensive view of a large scene and enable security personnel to monitor the scene more effectively. Without *Video Panorama* security personnel are forced to watch multiple disjoint blocks of video which are difficult to correlate and monitor simultaneously.

Video Enhancer™

Video Enhancer processes and enhances the quality of an input video stream for better viewing and to increase the effectiveness of visual monitoring. It adjusts Brightness, Contrast, Color Sharpness, and accentuates or de-accentuates edges as needed.

Video Noise Reducer™

Video Noise Reducer enhances the quality of video streams by minimizing visible noise. This product reduces several types of noise such as low light, AGC, MPG, mosquito and random noise and de-blocking and ringing artifacts.

The product provides both:

- DNR — Digital Noise Reduction (Before Encoding)
- MNR — MJPEG Noise Reduction (Post Decoding)

Camera Sabotage Detector™

Camera Sabotage Detector monitors the video and automatically detects camera failure or sabotage. The product detects any attempts to tamper with the camera — partially or completely blocking its lens or field of view, or drastically changing the camera angle. Camera sabotage /tampering interferes with monitoring by security personnel and automated video analytics products and prevents video archival for forensic purposes. *Camera Sabotage Detector* is a necessary feature for all security cameras.



INTELLIGENT VIDEO ADVANCED (IVA)

Intelligent Video Advanced solution provides intelligent video analysis and fully automates video monitoring. It automatically tracks and identifies objects, analyzes motion and extracts video intelligence from analog or digital video streams. The system can output analysis as real time events over API, XML or store them in any ODBC-compliant database. The advanced product can be customized to meet individual customer needs.

The product includes:

1. All or Any IVS modules (configurable)
2. People and Vehicle Tracking
3. Advanced Motion Detection
4. Activity and Behavior Analysis
5. Face Detection & Recognition
6. Auto PTZ Tracking
7. GPS and Port GIS Mapping
8. Motion Analysis
9. Video Power Suite Modules
10. Anti-Tailgating and Anti-Piggybacking
11. Multiple Camera Tracking
12. Full Reports, Events and Meta Data Streams
and more...

IntelliVision's customers & partners include: US Government, Leading Security System Vendors, large System Integrators, leading Camera, DVR and NVR vendors, and Fortune 1000 companies.

OBJECT RECOGNITION SUITE

Face Recognizer™

This product detects, recognizes and records people's faces that appear in a camera's field of view. It identifies /verifies one or more persons in the scene using a stored database of faces. The product's detection capability allows it to identify and extract human faces in a camera's field of view and record them as images. The product's recognition capability allows it to search an existing database of faces and compare them with the faces detected in the scene to find a match.

License Plate Recognizer™

This product detects, recognizes and records vehicle license plate information. It captures the information on the license plates detected in the scene. It searches and compares this information against a stored database of license plates to find a match. *License Plate Recognizer* is used for vehicular access control in parking lots and garages and for calculating related metrics such as duration of stay, and frequency of visits.



Object Recognizer™

Object Recognizer recognizes user-specified objects and shapes in the scene. Users can "train" the application by providing samples of the object/shape to be recognized. The product then analyzes and searches the scene or video to detect the specified shape. Typical applications for the *Object Recognizer* include weapons detection, baggage scans, detecting logos/symbols and other objects of interest in the scene.

ABOUT INTELLIVISION

IntelliVision is the leader in "Video Intelligence and Automated Monitoring" solutions for security, surveillance and safety markets. Our products have been successfully deployed at several top US Government and Enterprise customer locations providing very high reliability and comprehensive 24/7/265 coverage. IntelliVision is based in California, with offices in Asia and Europe.

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