

Wireless, Mobile, Network Enabled Hand Held Surveillance Binoculars with On-Demand Stand-Off 3D Facial Recognition Technology

LAW ENFORCEMENT

Supports mobile surveillance missions. Protect our citizens, nation's leaders, visiting world leaders at national special security events to any large public gathering.

BORDER SECURITY

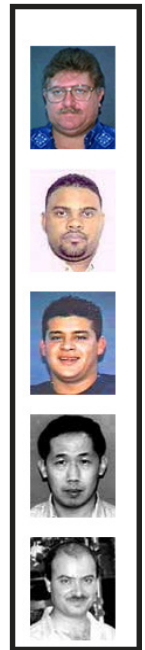
Secure borders and assist in the control of illegal immigrants and prevention of terrorists activities.

SUPPORT NATIONAL FUGITIVE OPERATIONS PROGRAM

Locate, identify, apprehend, process and remove fugitive aliens from the United States



Wireless Interface to your "Most Wanted" 2D Facial Database



StereoVision Imaging, Inc. (SVI), building upon past contract research efforts with U.S. Special Operation Forces & currently under contract with the National Institute of Justice, is becoming a world leading developer of 3D binocular-based imaging products for military and law enforcement.

SVI's patented technology integrates high performance, angular magnification binoculars coupled with real time 3D facial recognition capabilities. SVI's proprietary Segment IT™ software allows uploading and identification against 2D facial databases.

Powerful 3D imaging algorithms extract pertinent information for proper facial detection before recognition.

Results can be overlaid while person of interest is under surveillance with confidence.



We are the Eyes of the World

MAGNIFIED VIEWING

Adequate magnification, allows surveillance & positive identification up to 100 meters in daylight .

NETWORK-CENTRIC SYSTEM

DEPLOYMENT

Surveillance binoculars are tied into server. Server supports database management, enrollment and ID notifications.

NIGHTTIME SURVEILLANCE AND FACIAL IDENTIFICATION

SVI researchers are investigating developing nighttime capabilities.



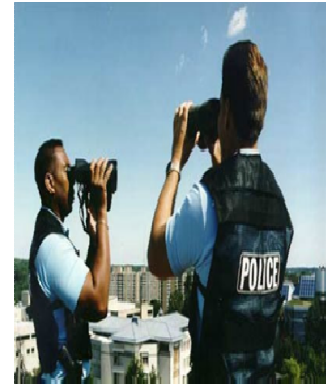
ACTUAL IMAGES OF ADVANCED PROTOTYPE

Advanced prototype successfully demonstrated with LA Sheriff & U.S. Department of Justice Fall 2010.

How it Works

SVI's researchers have now found a unique solution to 3D facial recognition that addresses traditional concerns with remote facial identification such as range, lighting, pose and expression.

With the integration of a stereoscopic imaging system within high end binoculars, researchers have developed an interactive use model by developing a surveillance device that can simultaneously overlay key image quality factors aiding the end user to position the device for proper image capture thereby extending range and reducing false alarms.



Upon demand, the person of interest is identified against a known facial database and ranked amongst the top 10 contenders. Any 2D ISO-compliant facial database can be used.

The network-enabled device captures a short 3D video clip of the "person of interest". The information is transmitted to a remote database management server, processed, and the ID result is transmitted back.

SVI's Segment IT™ 3D software automatically pulls objects (faces) from a stereo sequence of images for 2D identification. This auto-segmentation process reduces the detection search space and increases overall performance.

Contact Information

To learn more about our expertise in this area, please contact us or visit our website at: www.3dbinoculars.com

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