

VIDEO DETECTIVE™

REAL-TIME VIDEO SURVEILLANCE AND FORENSIC ANALYSIS TOOLKIT

VideoDetective™ is a self-contained, portable video processing lab that dramatically improves the quality of live or pre-recorded video images. Designed to operate either on scene or in a crime lab, this powerhouse workstation employs cutting-edge computer vision techniques to transform shaky, blurry, obscure images into sharper, clearer video. The resulting enhanced images, either still or video, can even be distributed via e-mail, along with chain of custody detail, to facilitate collaborative endeavors.



VideoDetective was developed with input from two federal agencies, the Technology Support Working Group and the Office of National Drug Control Policy, as well as local law enforcement agencies. It contains the same stabilization and enhancement software used by the military to improve video from reconnaissance aircraft and was specifically designed as a valuable addition to the crime-fighter's toolkit.

Applications

- ▲ Enhanced vehicle or suspect identification
- ▲ Forensic evaluation of security tapes
- ▲ Improved evidence collection

Capabilities

- ▲ Enhances images by automatically scanning surrounding video frames and adding back lost details to create a clear image
- ▲ Stabilizes video and removes camera shake and subject motion blur
- ▲ Enhances images by correcting dark or washed-out scenes resulting from poor lighting
- ▲ Enhances images by identifying features and bringing out details not visible to the eye
- ▲ De-interlaces and solves for images that have jagged edges around moving people or objects
- ▲ Provides context by creating large, detailed panoramic pictures from multiple images
- ▲ Enhances images by reducing noise and increasing low quality video produced from older equipment and tapes

VIDEODETECTIVE™

PRODUCT DETAILS

For both field and lab use: VideoDetective™ is a flexible, portable system designed to support high-volume video enhancement, remote surveillance operations and office usage. It is a complete, pre-installed, pre-connected system that is contained in a portable carrying case. It includes software and hardware for video capture, processing, enhancement, and storage of images. The VideoDetective comes complete with:

- ▲ Laptop computer, pre-installed with all software, pre-connected, in a rugged carry-case
- ▲ Second flat screen monitor, to be used with laptop screen, to simultaneously view "before and after" stabilization
- ▲ Acadia I™ Vision Accelerator Board, providing real-time video processing with power equivalent to a supercomputer
- ▲ High-end digital camcorder for live video surveillance or capturing scenes for forensic analysis
- ▲ Super VHS VCR for playing tapes or recording processed video
- ▲ Color printer for output of still and panoramic images
- ▲ Pre-installed network card for instant Internet connectivity
- ▲ Training, user guide, support and maintenance services

For lab use only: For those who do not require field use, VideoDetective software is available either stand-alone or pre-configured on a computer. Now all the tools for video stabilization, enhancement and mosaicking are available in a package suitable for most criminal investigation or forensic analysis.

Technical Features

Real-time vision system with 27MB/
second to video encoder/decoder

Processing power of up to 80 GOPS

30 frames/second full-resolution processing

MPC 8245 system controller

12V (car lighter) or 115 VAC Operation

Video I/O compatible with NTSC or PAL, RS170,
Composite, SVHS, CCIR

Embedded evidence logs

IBM-compatible PC running
Windows® 2000, Windows® XP,
or Windows NT® SP6

Windows is a registered trademark of the Microsoft Corporation in the United States and/or other countries.

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