

Enhance Video Clips and Still Images



Many factors can influence the quality of video—poor lighting, camera vibration, subject motion or other deficiencies. Video that is missing critical details may often be of little use. Sarnoff's Video ResolvR™ is a patented video processing software solution that makes these problems obsolete. Video ResolvR is also the post-processing software employed within our real-time VideoDetective™ system. It is designed to analyze and enhance pre-recorded videotapes and digital video files—restoring lost detail. Using cutting-edge vision techniques, it transforms shaky, blurry, and/or low-resolution video footage into sharper, clearer images.



Video input

Capabilities

- » **Stabilize** – Remove camera shake and subject motion blur
- » **Enhance** – Correct for poor lighting and identify features/details not visible to the human eye
- » **Clarify** – Automatically scan surrounding frames to add back lost detail
- » **Mosaics** – Seamlessly stitch together a sequence of large panoramic stills from panned motion video
- » **Edge Finder** – Produce linear representation of all objects in an image
- » **Emboss** – Enhance image details based on texture rather than color

(more examples on opposite side)

Applications

- » Commercial production
- » Video production
- » Corporate videography
- » Wedding videography
- » Newscasting
- » Sportscasting
- » Video forensics



Video output after Video ResolvR processing

System Requirements

- » Operating System
 - Windows XP
- » Memory
 - 1GB Memory (min)
- » Processor
 - Pentium II or Better
- » Input
 - AVI File



Output

- » AVI video clip
- » Jpeg still image

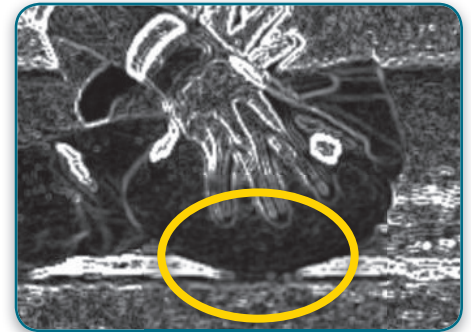
Examples



The original video input does not positively show if the football touched the ground



With the Embossing feature, the still image shows greater detail



Using the Edge Finder feature, the enhanced still image clearly shows that the ball has not touched down



Panning surveillance video input



Panoramic output