Cognitech® VideoActive® 14 software is the only available real-time, fully automated, universal multiplex software, combined with a powerful broadcast capture card capable of multi format capture or live play out.

Some of the exciting NEW features in Cognitech® VideoActive® 14 are Multi Channel Fusion and Real-time Lens Correction.

Multi Channel Fusion combines two or more videos from different viewpoints together using persepctive correction and fuses information from different cameras together.
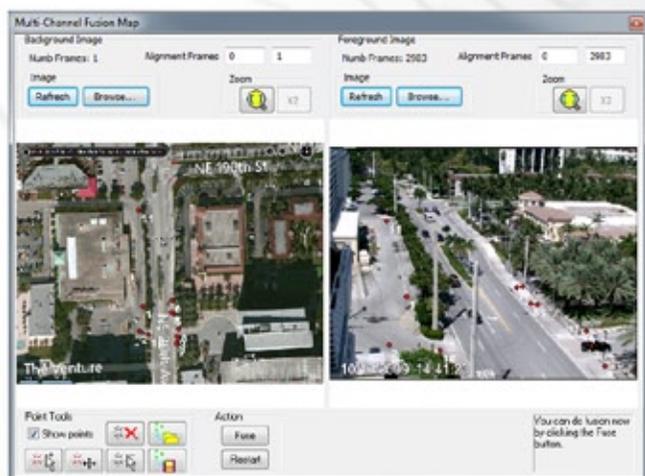

Figure 1. Multi Channel Fusion

Figure 1 shows the Multi Channel Fusion module interface open with a still satellite image on the left and a surveillance video on the right.

Multi Channel Fusion can accurately combine CCTV video with an overhead photomap (e.g. Google Maps, etc) allowing for video playback with accurate geographic matching.
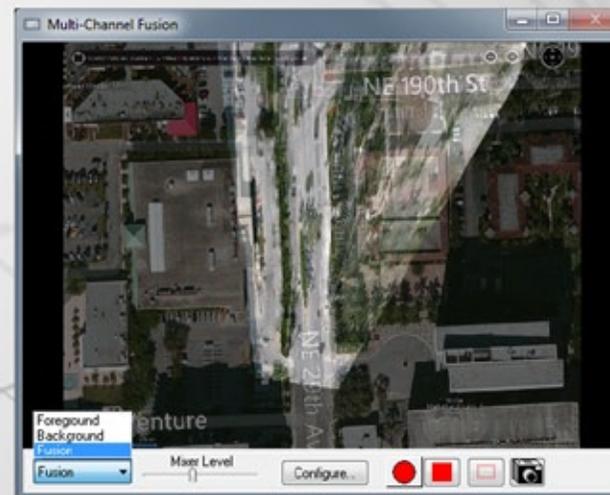

Figure 2. Multi Channel Fusion

Despite their incongruent fields of view, both images from Figure 1 have been fused into one image, displaying all information as seen in Figure 2.

Real-time Lens Correction removes geometric lens distortion in real-time for an undistorted video capture.

This image shows VideoActive's camera caibration wizard as it guides a user in correctly displaying the calibration pattern to the camera.

After the test pattern is displayed, lens distortion will be removed from a camera, similar to CVI's Geometric Lens correction filter, but in real time.
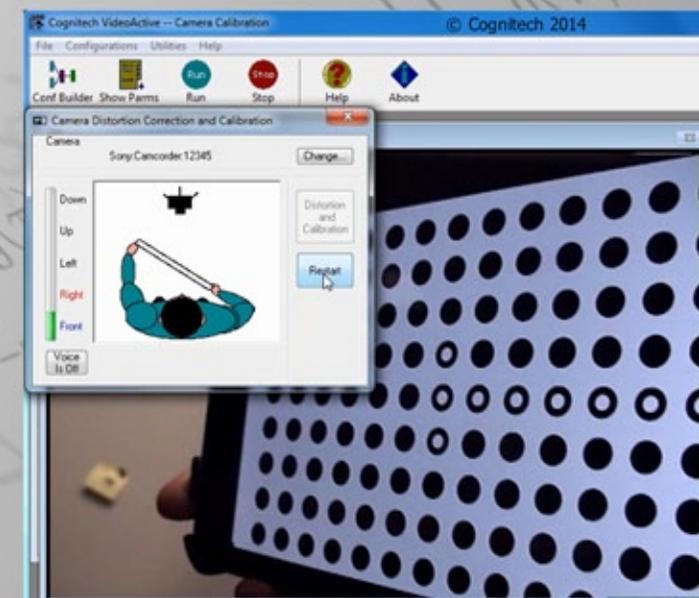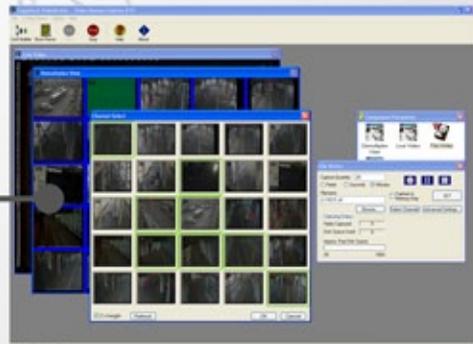

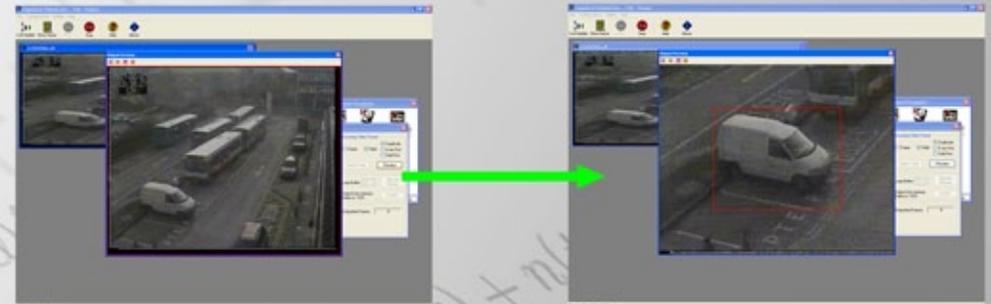**Figure 3. Real-Time Lens Correction**

The software and hardware combination is an innovative approach to the real-time video processing era.

Cognitech® VideoActive® 14 is module based and allows the end-user to view, analyze, process and capture multiplexed video feeds within seconds without any rendering time. This unique capability eliminates the need to keep many different brands of multiplexers on site, and cuts down on the cost of capital expense and man hours.
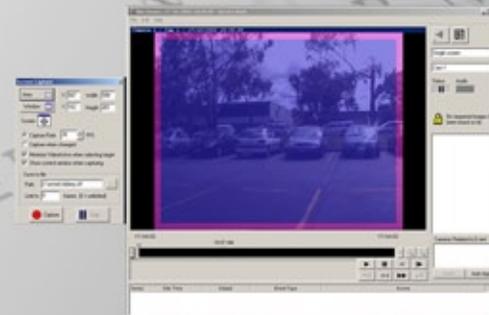
Cognitech® VideoActive® 14 features a "Live Preview" output that allows you to view the selected camera and perform a live pan and zoom.

Other Features Include:

Playback and live output of Industry standard file such as AVi.

A range of uncompressed capture devices available including HD compatibility with up-down rescaling.

VA Screen Capture

Automatic De-multiplexing.

Manual De-multiplexing.

Rearrange camera source

Uncompressed Digital CCTV ROI Screen Capture.

Live De-multiples output.

Live De-multiplex Multi camera uncompressed file capture.

Control playback speed of captured files.

Field and Frame selection.

Composite, Component, S-video In/Out NTSC/PAL