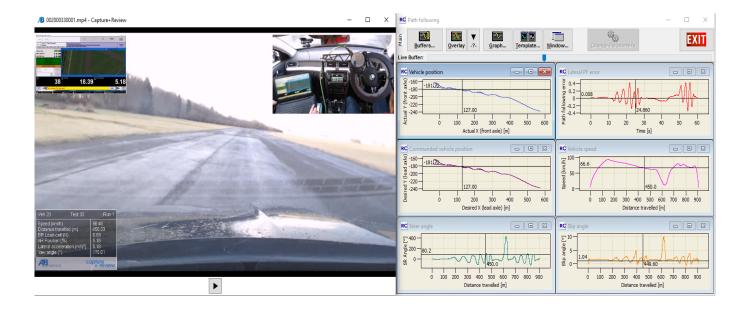# Capture+Review

Introduction

AB Dynamics' Capture+Review offers an integrated video capture solution for vehicle testing. Video can be recorded from up to four camera or screen capture sources and combined with data channels from an AB Dynamics driving robot. The video is stored with an embedded synchronisation to the recorded data, meaning that no subsequent user synchronisation is needed. Video of tests can then be played back while reviewing results data graphically alongside the video.

Capture+Review is an additional software module combined with USB cameras that is available for use with any AB Dynamics Robot Controller. Two HD (1080p) USB webcams are included with mounting hardware to facilitate installation in the vehicle.

Overview

- For use with any AB Dynamics Robot Controller
- Customisable video layout with up to four sources (cameras and screen capture)
- Allows user-selected data channels to be overlaid on the video
- Allows precise evaluation of vehicle or ADAS performance
- Perfect for video documentation and evidence of vehicle testing

Automatic recording

After a simple one-time software setup, Capture+Review automatically starts and stops the video recording when robot data capture begins and ends. Filenames are automatically created to keep the videos organised and referenced to the test run.

Synchronised data review

Viewing results in the Robot Controller software while Capture+Review is running automatically loads the corresponding video(s). Videos can be played back in real time while crosshairs on the graphs move in synchronisation. In addition, the cursor can be dragged to pinpoint areas of interest.

Hardware

Two cameras are included, each with vacuum mount and clamp hardware. A third camera can be supplied optionally. The cameras are 1080p HD-capable but this requires a powerful PC; we find that the system operates reliably with cameras set to 720p and 30fps on most PCs.

Side by side comparison

Loading multiple results in the RC software also opens each corresponding video, enabling side by side comparison of test runs. Coupled with the Robot Controller data plotting utility, this provides a powerful test data analysis tool.