HardingFPA-V3.4

Introducing the Harding Version 3.4 Analysis Algorithms

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Analysing Video Images Helps Prevent Photosensitive Epilepsy

Four years in development, the latest HardingFPA analysis algorithms are our most advanced and refined to date. Our recently released version 3.4 algorithms give more meaningful responses to genuine flashes and reversing patterns while remaining robust to motion, image noise and other non-flash activity.

The Version 3.4 algorithms deliver excellent and consistent results across different codecs, image resolutions, and frame rates while providing better diagnostic information for flash and spatial pattern failures. For the user, redesigned graphics provides more detail on warnings and marginal failures while incorporating new diagnostic features including the squiggle to indicate when the analyser has simultaneously gained and lost a flash transition.
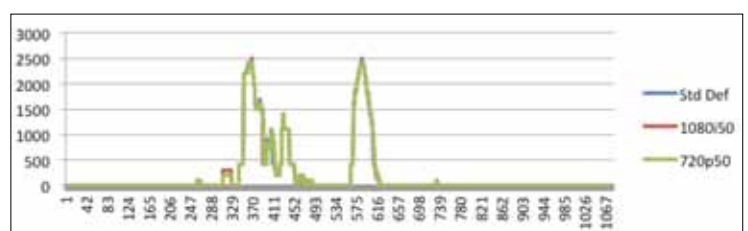
The new HardingFPA analysers based on the Version 3.4 algorithms will look familiar to existing users while outperforming the previous HardingFPA V2.5 systems in all areas. They are fully backwards compatible with existing HardingFPA results files and include a legacy V2.5 analysis mode when comparing with an earlier version of the analysis.
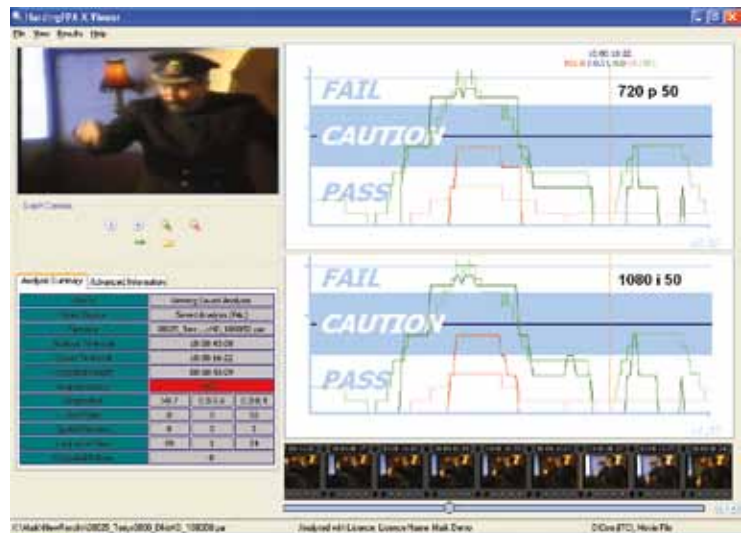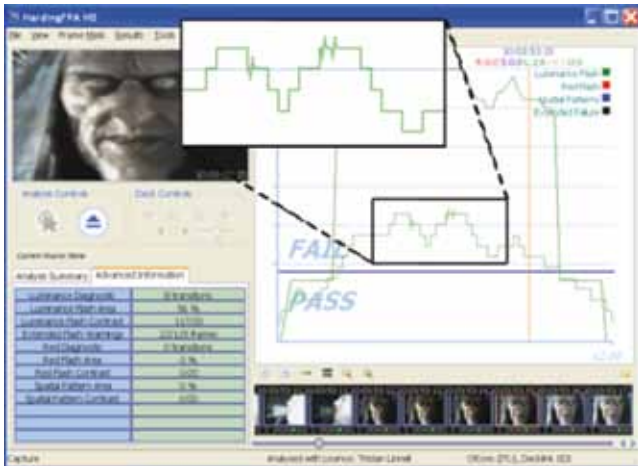

Format Agnostic

The new V3.4 algorithms generate highly consistent results from different image resolutions and frame rates. Here, the same movie has been analysed in 720x506i50 and 1080x50i60 formats with highly consistent results.

The graph below shows three sets of results of the same movie analysed in SD-576i50, HD-720p50 and HD-1080i50 formats. The results are so robust that it is difficult to see three separate traces.

Help ensure video is safe to watch for both diagnosed and dormant photosensitive epileptics
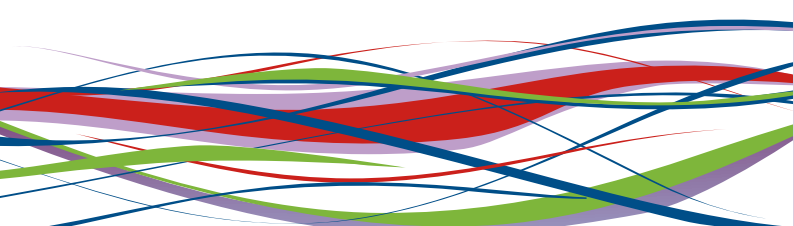
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Enhanced Diagnostic Early Warning System

The new HardingFPA V3.4 algorithms provide detailed graphical and tabular data (see example above) both before and after a movie clip goes into failure.

The V3.4 algorithms give enhanced visual diagnostics when an incoming transition coincides with an outgoing transition from one second earlier. The new algorithms insert a squiggle into the diagnostic trace to indicate when this has occurred.

Please Note: Cambridge Research Systems Ltd. operates a policy of continual product improvement. As a result, this information is liable to change without notice.
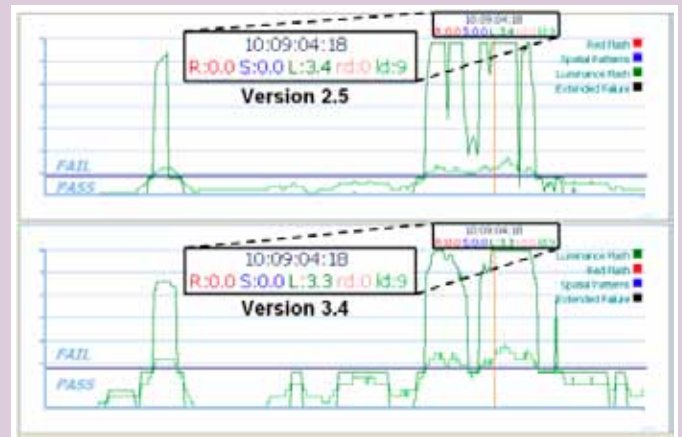
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What About My Previous Results?

The new V3.4 algorithms is a significant advanced over V2.5 without generating significantly different results (see example below). The new algorithms do not render previous HardingFPA V2.5 analyses obsolete but rather deliver a more accurate representation of risk with more detailed end user information.

The V3.4 algorithms have been designed from the ground up to accommodate a wide range of different frame sizes and frame rates while remaining highly robust to different professional-grade Codecs.

The new HardingFPA V3.4 licenced analysers are designed to make life easier for all Video Professionals who need to achieve Photosensitive Epilepsy guideline compliance.

For more information on Cambridge Research Systems Limited and its products:

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