



PRESS RELEASE

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OptoFidelity™ launches OptoFidelity WatchDog, an Automatic User Experience Tester

OptoFidelity WatchDog is a revolutionary measurement instrument based on video image analysis. Intelligent analysis software detects events automatically from video image and generates reports including images and time stamps. Unlike traditional machine-vision solutions, OptoFidelity WatchDog does not require teaching and configuration. You don't need to teach OptoFidelity WatchDog new tricks, it learns by itself.

With OptoFidelity WatchDog you can increase the testing volume and spend more valuable R&D time in analyzing results instead of configuring your test environment.

Since OptoFidelity WatchDog does not require product-specific adjustment, it allows objective benchmarking and comparison against any product on the market out-of-the-box.

High Quality-of-Experience in the released product is assured when user interface delays and latency times are continuously analyzed and optimized with OptoFidelity WatchDog during the whole R&D phase.

As measurements can be automated with OptoFidelity WatchDog, software engineering and testing resources could focus to the product development – and not use time for the repetitive, manual measurement tasks.



Figure 1. Complete WatchDog test set up for mobile device testing

Applications where OptoFidelity WatchDog™ can be used:

1. Quality of the Service User Experience

OptoFidelity WatchDog™ measures the service access time by measuring the delays in setting up any service connection from the user interface of the device

2. Software development

OptoFidelity WatchDog™ measures software's response time even in 0,01 second resolution. Software development can analyze and compare the software versions and platforms vs. earlier test.



Supported test automation platforms and hardware:

- WatchDog test software and reporting tools could be easily integrated to the test management software like National Instruments's NI TestStand and also NI DIAdem for test reporting
- WatchDog software runs on several hardware depending on the test system requirements like:
 - Rugged PC-based platform like PXI which offers a high-performance test platform
 - PC based system which is normal standard desktop PC
 - National Instruments Smart Camera for production test: <http://www.ni.com/vision/smartcamera.htm>

How the user experience has been measured before:

- Manual timing, test person watches the changes on the display and make reports. Mistakes are common and test results are not objective.
- Person watches the changes from the recorded video and reports manually – time consuming and not automated testing
- The measuring is implemented by machine vision solution. Machine vision requires separate teaching and is not flexible if the display resolution or layout is different. Also it requires test software installed in the device under the test. Configuration takes a lot of time and automated test system payback time is long. OptoFidelity WatchDog™ learns by itself and payback time is fast.

OptoFidelity Company

OptoFidelity Ltd. specializes in machine vision and optical measurement technology. With our solutions, we help our customers to shorten their research and development process. Our measurement systems are directed for the research and development of electronics industry and testing laboratories. The systems are used for testing and analyzing the quality of video image as well as different characteristics of displays.

Attached press release material:

- Pictures of the complete WatchDog test system and report example
- OptoFidelity WatchDog Datasheet

More information:

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