

OptoFidelity WatchDog™

Automatic Test System for User Interface Performance Measurements

OptoFidelity WatchDog™ is a revolutionary measurement instrument for analyzing real user interface performance. WatchDog can capture what we see after our interaction with devices.

OptoFidelity WatchDog is designed to measure key elements of UI performance – speed, latency and response times of the device.

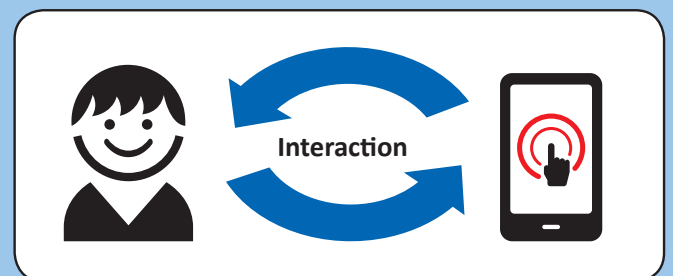


Why user experience measurement matters?

User experience and quality of device, application and content are becoming major differentiators in mobile business.

Due to constant development manufacturers or operators has to solve how to ensure maximal time-to-market benefit without compromised product quality or user satisfaction.

More efficient and automated testing helps you to ensure product performance quality.



Without measurement, we cannot know if users are happy with our product.

OptoFidelity WatchDog™

One key element of high quality user experience is confirmed when user interface delays and latency times are continuously analyzed and optimized with OptoFidelity WatchDog™ during the whole R&D phase.

OptoFidelity WatchDog™ is a non-intrusive turn-key solution, which comes with the necessary video and data acquisition, processing and analyzing components. It does not require any modifications to the device under test, so release version firmware testing and competitor benchmarking can be done with ease.

In addition to measuring user interface response times, OptoFidelity WatchDog™ can also objectively quantify user reaction time to information on the user interface. This makes it an invaluable addition to any usability expert's toolkit.

With OptoFidelity WatchDog™ you can

Automate your testing and save time

Improve your customers user experience by measuring user interface latency and response times.

Automate your functionality testing, ease the workload of test personnel and minimize human errors in R&D phase.

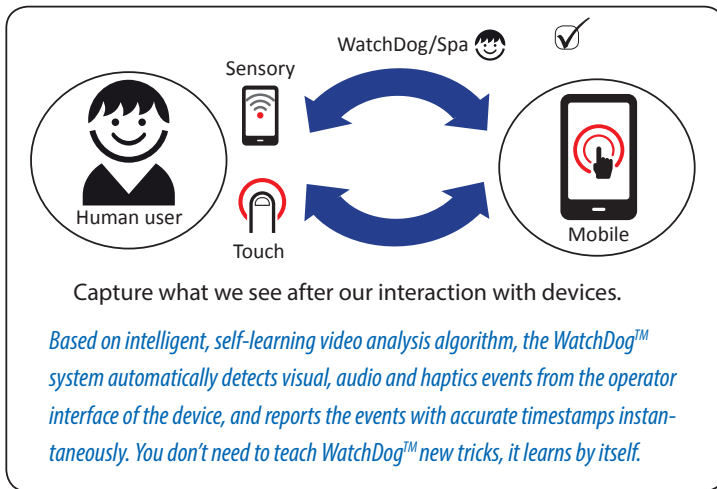
Collect and analyze numeric data from the user interface of your own product or competitor's devices.

Benefits

- Replaces unreliable manual testing by carrying out high quality, accurate, comparable and repeatable test at every time since possibility of human error is minimized.
- Measures quality of experience and usability
- Automated, easily maintained test system saves testing time and costs
- Enables easy benchmarking and competitor analysis
- Self-learning
- Fast reporting
- Gives objective and numeric data
- Time to market and R&D benefit: faster return of investments due to faster testing process and modeled requirements



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Return of investment

Reported WatchDog results from China Mobile:

Manual testing for one phone,
each test case for 10 times
Time spent 225 min

WatchDog testing for one phone,
each test case for 10 times
Time spent 77 minutes

Time saving per testing
one phone 148 minutes

Options

Multimodal Unit

OptoFidelity Multimodal Unit measures non-visual multimodal latencies with under millisecond accuracy. Multimodal unit can be utilized to statistical non-visual event measurements. It adds the capability to measure audible and tactile feedback times to the OptoFidelity WatchDog measurement device.



WatchDog connectivity

System includes Application Programming Interface (API), which allows to use WatchDog integrated with test automation and robotics. OptoFidelity offers also WatchDog and SPA integrated to Touch & Test robot platform for fully automated measurement of user interface performance.

SPA Scroll Performance Analysis Tool for WatchDog User Experience Tester

OptoFidelity SPA (Scroll Performance Analyzer) is a camera based non-intrusive tool for measuring user interface animation smoothness directly from the display. OptoFidelity SPA does not require any modification to device under test.