Would you like to test devices like human does and get the same feedback as a real end-user?

“In user experience the quality of performance is determined from the end user’s point of view. OptoFidelity HSUP is designed to test devices like human does to get the same feedback as a real end-user.

Multiple cameras and other sensors are used to operate as human eyes, ears and senses, robot is acting as human fingers and software is operating as human brain. This approach improves the device testing during R&D process towards better device performance and user experience.

That’s why our test system is also known as Human Simulator.
OptoFidelity HSUP features

- Test case generator for creating own test cases
- Latency measurement with an integrated OptoFidelity WatchDog™ test application
- Camera based positioning makes the DUT positioning easier and more accurate
- DUT coordination navigation makes the test cases reusable and easy to maintain
- Three axis desktop robot
- Standard tester supports up to 12.5” displays
- Removes the disadvantages of manual testing by offering repeatable, measurable and comparable tests and test results
- State validation tools:
  - Optical Character Verification and Recognition functions for UI navigation, UI state validation and reading UI responses
  - Icon and graphics detection functions for UI navigation and state validation.

Benefits

- Non-intrusive testing method, robot uses device in exactly the same way as end user does
- Replaces unreliable manual testing by delivering high quality, comparable and repeatable test results at every time since possibility of human error is minimized
- Test cost savings: 24/7 testing with automated easily maintained test system and reduced development effort
- Test cost savings: common multiplatform and fast to update tests, better test coverage and more combinations of tests
- Time to market benefit: modeled requirements and fast ramp-up and payback guarantee a faster and better return on investment (ROI)

OptoFidelity HSUP and other automated test systems consist of a robotic platform, Touch&Test® Suite controller unit (server) and other controller modul options that can be selected based on the needs of the test application. Basic OptoFidelity HSUP installation consists of:

**CONTROLLER UNIT (server):**
OptoFidelity Touch & Test® Suite

OptoFidelity Touch & Test® Suite (TnT) is a basic controller unit of all automated OptoFidelity test systems. It is a selection of modules, components and solutions for testing touch panels and touch-enabled devices.

It is a flexible alternative for custom-designed test solution when implementing user-interface and sensor testing that requires product actuation, finger gestures and response validation.

**TEST APPLICATIONS:**

**WatchDog User Interface (UI) Performance Tester**
OptoFidelity WatchDog™ is a measurement instrument for easy analyzing of user interface latency and response times. Based on an intelligent, self-learning video analysis algorithm, the WatchDog™ system automatically detects visual, audio and haptics events from the operator interface of the device, and reports the events with accurate time-stamps instantaneously.

**SPA User Interface (UI) Scroll Performance Analyzer**
OptoFidelity SPA is a camera based non-intrusive tool for measuring user interface animation smoothness directly from the display. OptoFidelity SPA is designed to measure basic functions of mobile device operations such as animations and transitions. Standard OptoFidelity SPA measures these functions with content refresh rate.