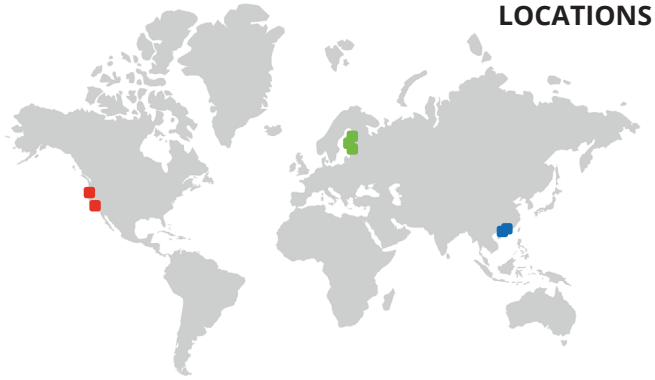
TECHNICAL DETAILS

System hardware	
3-axis gantry robot work area	600x600x100 (mm) or 400x400x100 (mm)
Motion controller	
Positioning camera	
PC	
DUT holder kit	
Movement (x,y,z) speed	250 mm/s (x and y) 100 mm/s (z)
Movement (x,y,z) repeatability	0.005 mm (x,y) 0.1 mm (z)
Movement (x,y) accuracy	±0.05 mm
One- or two-finger application	
Range of fingertip sizes	
Support for automatical fingertip changing	
One finger gestures:	Tap, double tap, multitap, swipe, drag, circle, path, move, jump
Two finger gestures:	Zoom, pinch, rotate, two-finger tap
Two-finger application only:	
Maximum finger separation	150 mm
Absolute accuracy	±0.2 mm
Repeatability	±0.1 mm
Rotation	360 degrees
Absolute accuracy	±2°
Repeatability	±2°
System software	
OptoFidelity TnT Software Suite	Motion and test control software: Configuration UI, test Sequencer UI, test result analysis, Python API
HSUP	UI performance tools including UI latency, scroll performance analysis and pen to ink measurement
HSUF	Functional testing tools including OCR and icon detection
Other technical details	
Operating temperature:	15 - 35 °C
Operating humidity:	90 % relative humidity
Safety:	Emergency stop

About OptoFidelity

At OptoFidelity we thrive for the ultimate user experience by simulating and testing user interactions for smart devices. We work with the world's largest device manufacturers. We are globally recognized pioneers in test solutions, and our humanlike robot assisted technology platforms are widely used in product development, production and quality assurance. Our products are all equipped with easy-to-use software tools for test configuration, results analysis and reporting.

LOCATIONS



- Redmond, WA, USA
- Cupertino, CA, USA
- Oulu, FINLAND
- Tampere, FINLAND
- Espoo, FINLAND
- Zhuhai, CHINA
- Hong Kong

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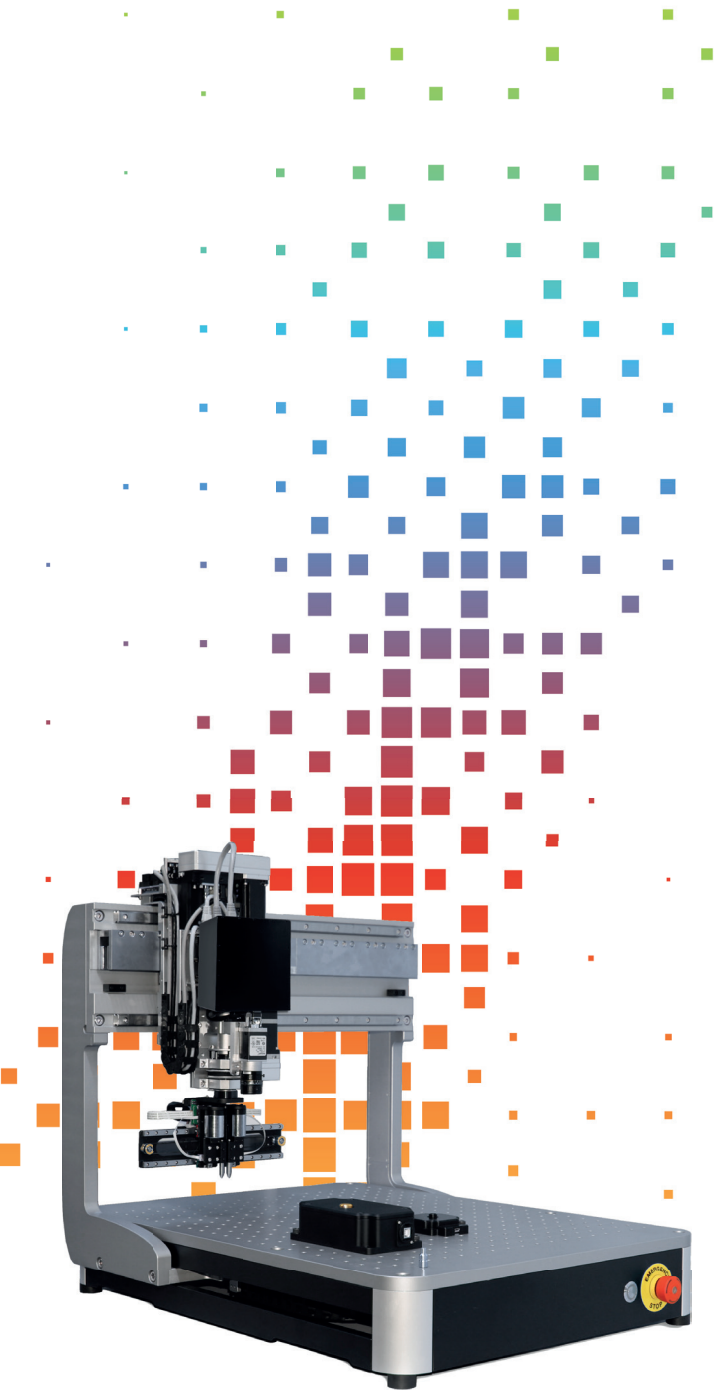
OPTOFIDELITY

OptoFidelity™ TOUCH

for touch display functional and performance testing



OptoFidelity TOUCH

Precise measurement combined with precise automation

OptoFidelity TOUCH is an automated test system for testing chipsets, touch panels, touch-enabled user interfaces, final products and systems.

OptoFidelity TOUCH comes with a purpose-built GUI, test sequencer and test reporting. In addition, a scripting API is available for custom tests. The camera-based positioning feature provides a convenient and accurate way to define the location of the Device Under Test (DUT). The smart DUT detection enables test scripting by using DUT screen coordinates and the testing of multiple DUTs in the robot work area, as well as volume testing in less time and with better accuracy. The motion control supports synchronized motions enabling all types of touch gestures.

The default TOUCH test system is delivered with factory calibration for the camera system and for the motion control accuracy. The motion control accuracy of the delivered TOUCH test system is verified with an external measurement system supporting +/-25 µm accuracy.

The system delivery includes on-site system setup and training which enable users to start testing right away. Support services are available to provide any needed guidance and help for further usage of the system.

OptoFidelity TOUCH test features

OptoFidelity TOUCH is used for measuring the performance of the following human-like gestures on any touch device:

- One-finger gestures: Tap, press, swipe, drag, double tap, multi tap, circle and path
- Two-finger gestures: Tap, swipe, pinch (zoom in/ zoom out) and rotate
- Multi-finger gestures: Tap and swipe

ACCURACY

JITTER

LINEARITY

REPORTING RATE

REPEATABILITY

LATENCY

SENSITIVITY