

Technical Details

SYSTEM HARDWARE

3-axis gantry robot work area 600x600x100/200 (mm)
or 400x400x100/200 (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, multi-
tap, 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

USA: Cupertino, Redmond

FINLAND: Helsinki, Oulu, Tampere

SOUTH KOREA: Seoul

CHINA: Chengdu, Chongqing, Dongguan, Kunshan, Nanjing,
Shanghai, Shenzhen, Yantai, Zhengzhou, Zhuhai
Hong Kong, Taipei

HEADQUARTER

OptoFidelity Oy
Visiokatu 3
FI-33720 Tampere
Finland

SALES

sales@optofidelity.com
+358 44 430 0100

WWW

optofidelity.com

SOCIAL MEDIA

youtube.com/user/OptoFidelity
linkedin.com/company/optofidelity
facebook.com/OptoFidelity
twitter.com/OptoFidelity
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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.

The motion control
supports synchronized
motions enabling all
types of touch gestures.

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

The default TOUCH test system is delivered with factory calibration for the camera system and for the motion control accuracy.

