Technical Details

GANTRY ROBOT

Work area (XYZ)	400 x 400 x 100 mm
Measurement speed	250 mm/s (X,Y) 100 mm/s (Z)
Repeatability	± 0.01 mm (X/Y)
Stylus accuracy	
with calibration option	± 0.1 mm
without calibration option	± 1.0 mm

STYLUS FORCE APPLICATOR TOOL

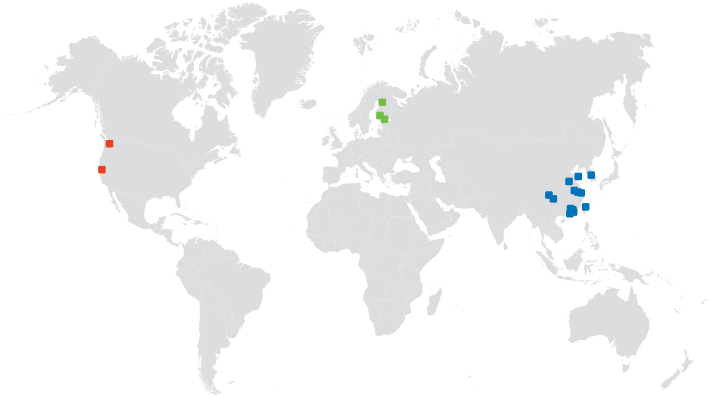
Max. tilt for force control	45 degrees
Tilt range	90 degrees
Azimuth range	± 180 degrees
Force accuracy	± 2 gf
Force range	0–500 gf

The motion control accuracy of the delivered test system supports +/-25 µm accuracy, which has been verified with an external 6DOF measurement system.

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

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OPTOFIDELITY

OptoFidelity™ STYLUS

For human mimicking touch display Stylus testing

OptoFidelity STYLUS is based on the accurate OptoStandard robotic platform which fulfills the precision required for stylus testing. The stylus location, angle and applied force have an impact on how the application shows e.g., a line drawn by the user.

OptoFidelity™ STYLUS

OptoFidelity's human-simulating system for stylus testing

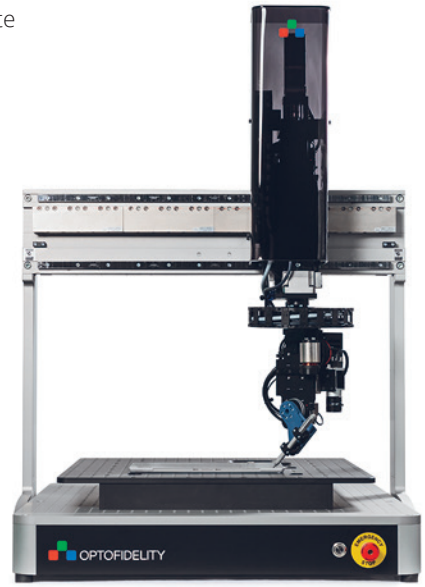
Due to a relatively small contact area as well as the diversity and complexity of the possible gestures involved with touch-enabled products supporting a stylus, they usually have high accuracy and latency requirements compared to other touch technologies.

OptoFidelity STYLUS was developed as a solution to complicated testing challenges associated with all kinds of styluses. As with all of our advanced test systems, OptoFidelity STYLUS aims to simulate a human being, which makes it ideal for testing a stylus on a touch UI.

OPTOFIDELITY STYLUS TEST FEATURES

OptoFidelity STYLUS touch gestures include tap, drag, swipe and circle with user-controlled tilt angle, azimuth angle and contact force.

- Accuracy
- Jitter
- Linearity
- Reporting rate
- Resolution
- Latency
- Sensitivity



Testing

Successful stylus testing calls for top-notch technical expertise and high-accuracy motion robotics

OptoFidelity STYLUS is based on the accurate OptoStandard robotic platform which fulfills the precision required for stylus testing. The stylus location, angle and applied force have an impact on how the application shows e.g., a line drawn by the user. OptoFidelity STYLUS provides the user with control over the stylus tilt and azimuth angles as well as force applied to the DUT (device under test). The default system setup includes motion control that supports synchronized motions enabling a variety of stylus gestures.

OptoFidelity STYLUS is delivered with a factory-calibrated camera system and motion control accuracy. The motion control accuracy of the delivered test system supports +/-25 µm accuracy, which has been verified with an external 6DOF measurement system.

FAST AND CONVENIENT

The deployment of OptoFidelity STYLUS is fast and convenient. The system delivery includes on-site system setup and training, enabling our customers to start testing right away! OptoFidelity's comprehensive support services provide guidance and help for further usage of the system.

As with all of our advanced test systems, OptoFidelity STYLUS aims to simulate a human being, which makes it ideal for testing a stylus on a touch UI.