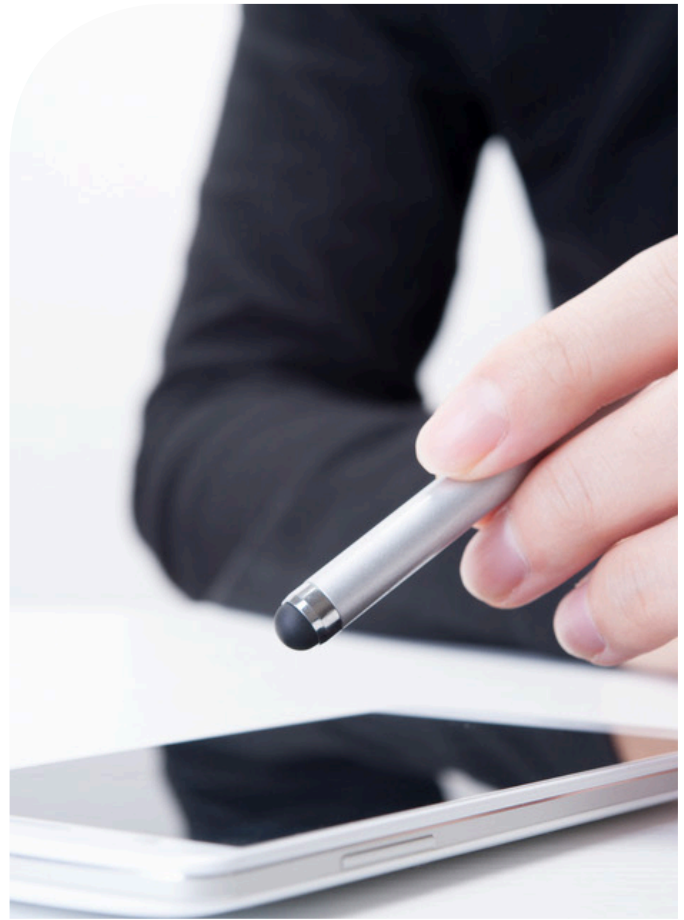


OPTOFIDELITY™ GOLDFINGER

Force Calibration & Testing

THE CHALLENGE

Force function is integrated in displays and active styluses. An ultimate user experience for force with even the most challenging applications calls for highly accurate force sensing capability. A sensor-based, fully SW configurable calibration and testing method guarantees accurate force application with various tooltip sized and angles. It can also indicate possible external interferences to the test station.



THE SOLUTION

OptoFidelity™ GoldFinger is a sensor-based solution for calibration, testing and quality assurance of both active stylus- and display force. It provides combined control for all axis and force which reduces the complexity of the system.

It can also be equipped with high-end camera system and display inspection tool to perform a total quality check for displays in a single, efficient test point.

SW controllable operation for multi-level force calibration needs is combined with OptoFidelity Touch & Test Suite® for accurate, fast and easy-to-use reconfiguration for different products.

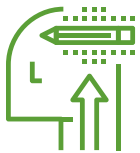
OptoFidelity™ GoldFinger example test system set-up for display force calibration in high volume production

OPTOFIDELITY™ GOLDFINGER



DISPLAY FORCE CALIBRATION & TESTING

- Fully SW controllable amount of force
- Fully SW controllable XY positions
- Fastest test cycle time in the market



STYLUS FORCE CALIBRATION & TESTING

- Fully SW controllable amount of force
- Fully SW controllable XY positions
- Adjustable tilt & azimuth
- Force direction perpendicular to the screen
- Calibrated stylus tip position for XY accuracy



FROM R&D TO VOLUME PRODUCTION

- Speed-optimized force settling time
- Dual DUT (device-under-test) feeder to minimize tester idle-time
- Space saving design minimizes the needed factory floorspace



BENEFITS

Same technology for R&D and production guarantees consistency and comparable test results throughout product lifecycle

Sensor-based solution enables very accurate force application from different angles with several different tooltips

SW controllable multi-level force calibration ensures fast and easy reconfiguration for different products



MODULES

OptoFidelity™ Touch & Test Suite with force app

Force applicator

Robotics & Tooltips

Mechanics & DUT interface

Display inspection tool and camera set-up (optional)



TECHNICALS

Force Setting Speed

<1s (non-contact) <0.5s (contact)

Force Repeatability

2 g (3σ, full range) 1 g (3σ, tuned force)

Display Location Repeatability

100um (standard) 50um (optional)

DUT Handling Time 0s with dual DUT feeder

Force Range 1-800g (standard) 1-1600g (optional)

Applied Force per Point Fully SW configurable, multiple force levels supported

Number of Set-Points Fully SW configurable



At OptoFidelity we thrive for the ultimate user experience by simulating and testing user interactions for touch-enabled devices. We are globally recognized pioneers in testing, 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 SW tools for test parametrizing and results analysis. We work with the world's largest device manufacturers.

WHAT IS YOUR TESTING CHALLENGE? WE'D LOVE TO HEAR IT!