OPTOFIDELITY™ TPPT

The most accurate touch panel performance tester in the market

FEATURES AND BENEFITS

- Measures and analyses touch performance of any touch screen equipped device
- Humanlike touch interaction using the OptoFidelity robotic platform
- Turnkey solution, can be used immediately once installed
- No operator needed during the test execution
- Includes data visualization (pass/fail) and reporting
- Supports multiple devices
- Upgradable (eg. stylus testing)
- Possible for end user to create own test cases

USE CASES

- Accuracy
- Linearity
- Repeatability
- Reporting rate
- Separation
- Latency

DELIVERY CONTENTS

- OptoFidelity robot with one finger tool
- Measurement PC
- Camera for product positioning
- WLAN connectivity hardware
- Adjustable DUT adapter kit
- Software for test execution and reporting
- DUT application for testing (Android, iOS, Windows)

TECHNICAL SPECIFICATION

- Standard dimensions: Width: 640 mm (external) Depth: 640 mm Height: 340 mm
- Robot working area: X 485 mm, Y 410 mm, Z 105 mm
- Weight: 50 kg
- Operating temperature: 15 - 35 °C
- Operating humidity: 90 % relative humidity
- Safety: Emergency stop
- Robot max speed: 500 mm/sec
- Repeatability XY: ±1 μm
- Positioning accuracy XY: ±5 μm (calibrated), 55μm (non-calib.)
- Control system: OptoFidelity™ TnT Software Suite
  - Control in DUT coordinates
  - Script based test case execution
  - Software tools
  - Optical DUT alignment
  - Probe-camera offset calibration
- Software key functions: Probe control: Move, jump, tap, swipe, drag, robot movement, surface detection
- API methods available for: Python, C#, LabVIEW, ObjectiveC

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COMPANY CONFIDENTIAL
First Line Support

• First contact point
• Available onsite, 24/7
• Handles around 95% of the cases

Second Line Support

• Debugging capabilities
• Available onsite or on call
• Handles cases outside the scope of 1st line support

KEY EXPERTISE

- Cognitive & Extremely Accurate Test Robotics
- Signal Processing
- Custom Applications Designs
- Test & Measurement Technology
- 3D Mechatronics Engineering
- VR / AR Performance Testing
- Software: LabView, C, C++, ObjectiveC, C#, Python, Java
- Factory Operations
- Mass Production
- Optical Measurement: Cameras, Optics Designs, Light Sources
- Machine Vision & Imaging Technologies

CORE SERVICES

- Own factory in Zhuhai, China with manufacturing and delivery logistics capabilities
- Production Support
- Onsite Bring-Up & Commissioning
- Periodical Maintenance
- Updates & Upgrades
- Training

OPTOFIDELITY IN A NUTSHELL

- Established in 2005 at Tampere, Finland
- 160+ true tech geeks
- Offices in 3 continents
- 5000+ delivered test systems
- Annual revenue over 20 MEUR
- Collaborated with 8/10 largest mobile phone companies
- Diverse expertise from software to hardware

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