

## SYSTEM FEATURES

- Robotics for motion sensor testing
- Speaker & microphone for audio testing
- Actuators for testing touchscreen, buttons and connectors
- Light sources and test targets for camera testing
- Vision system for display testing
- Tool for introducing new phone models
- Graphical operator interface
- Integrated control electronics
- Result and configuration database server
- Wireless network access point
- Optional:
  - Label printer
  - Barcode reader
  - Tower light

## TECHNICAL DETAILS

**Dimensions:** W 494 x L 783 x H 728 mm  
W 19.5 x L 30.8 x H 28.7 in

**Weight:** 95 kg / 209.4 lbs

**Operating temperature:**  
15 - 40 C (59 - 104 F)

**Power supply:** 110/230 V, 50/60 Hz

**Compressed air:** 6 bar, max 5 l/min (0.18 cfm)

**Connectors:** IEC 60320, USB Type A, RJ45

## DEVICE UNDER TEST

**Max outer dimensions:** 158.2 x 77.9 mm  
6.23 x 3.07 in

**Display size:** up to 5.7 in

## 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 SW tools for test configuration, results analysis and reporting.



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

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## OptoFidelity™ Fusion Test System

Functional Testing for  
Quality Assurance



## NO ADDITIONAL HARDWARE COSTS

Fusion provides a fully universal phone adaptation – no additional hardware costs parts are needed to support new phone models. Fusion is configured to support various phone models only with software. This substantially lowers the total cost of ownership in a high model mix, such as in refurbished phone processing.

## LIGHTNING FAST INTRODUCTION OF NEW PHONE MODELS

Introducing a new phone model to Fusion is quick and easy with an intuitive and easy-to-use graphical user interface. Fusion tester is ready to test a new phone model within an hour instead of waiting weeks for a new hardware adapter. Phone configuration can even be shared between testers, so all your Fusion testers will be ready for new phone model at the same time.

## ZERO DOWNTIME IN MODEL CHANGES

Fusion tester automatically detects the model of the phone when inserted, so it is always ready to test whatever you throw at it. There is no downtime when the phone supply changes from one model to the next. This is optimal for lean, high-mix processing.

## OPTIMAL ADAPTATION TO QUALITY REQUIREMENTS

Fusion offers comprehensive list of test cases to evaluate functionality of smartphones. Test cases, their running order and limits are fully configurable, so Fusion can be optimized to provide just the right level of test coverage that matches the customer need. Configurations can even be tuned per each phone model for maximum flexibility and correlation with existing quality requirements.

## EASY TO USE AND AUTOMATION READY

Fusion ergonomics and design supports both manual and automatic phone handling. Operator interaction is minimized and user interface is intuitive and simple, so Fusion can be operated efficiently with minimal training. Product handling typically uses only about 2% of the total cycle time. Fusion can also be integrated in a fully automated production line with multiple types of feeder mechanisms.

## OPTIMISED CAPACITY

In addition to being optimal solution for high mix environment, Fusion is also optimized for high volume use. It provides highly efficient and fast test cycle with no user interaction required. With a typical test coverage, Fusion can easily sustain three shift operation with 20 units per hour and 95% utilization. This, combined with 30% increase in result reliability, provides significant improvement to manual testing.

## COMPREHENSIVE TEST DATA

Fusion is storing substantial amount of result data and parameters with each individual test run. This data can also be uploaded into a central database for further analyses. This enables data driven process control that is essential in optimizing the operation efficiency.

## FUSION FOR AUTOMATION



Standard OptoFidelity Fusion system also works with robotic phone handling for a fully automated solution. It is a scalable and cost-effective combination that is easy to integrate into various different customer process flows and can be scaled up to support virtually any number of systems.

## FUSION TEST CAPABILITIES

<b>Audio</b> Speaker   Microphone   Headset	<b>Touch   Force</b>
<b>Display</b>	<b>Fingerprint   HRM</b>
<b>Camera   Flash</b>	<b>Side keys   Physical &amp; Capacitive buttons</b>
<b>S-Pen   SD   SIM</b>	<b>Vibration</b>
<b>Wireless</b> Bluetooth   WLAN   GPS   NFC   GSM (Connectivity)	<b>Connectors</b> microUSB   USB-C
<b>Sensors</b> Compass   Accelerometer   Gyroscope   IR   ALS   Barometer   Proximity	

## FUSION BENEFITS IN A NUTSHELL

- No product specific hardware costs
- Zero downtime on phone model changes
- Quick and easy configuration of new models
- Fully configurable test parameters
- Supports both manual and automatic handling
- Minimal factory floor footprint
- Fastest cycle time
- Shortest handling time
- Comprehensive result data generation