



Optimized Image Quality -  
Optical test and measurement technology





“When image quality counts - count on us”

## OptoFidelity – Optimized Image Quality

Test systems are used for testing and analyzing video image quality and display characteristics. Customers are placing ever growing demands on the quality of video image. We can help you to measure what makes the difference.

We provide automated image testing solutions for demanding applications in the electronics industry. Count on us to help you to enhance your product development and quality process with our automated test and measurement technology.

### OptoFidelity technology benefits:

- Objective and repeatable results
- Automated testing
- Shorter testing and product development times
- Increased testing volumes

## Optimized™

image quality by OptoFidelity



This trademark is a guarantee of reliable, high-quality images and video.



“Concentrate on product development – leave the testing solutions to us”

## Harmonized product development

Through uniform testing solutions at all of your R&D locations, you can ensure harmonized product development and improved correlation between sites. OptoFidelity helps you define and implement global test and quality standards, cost-effectively.



OptoFidelity EMC100  
Automated video analysis  
system for EMC laboratories

### **OptoFidelity test and measurement solution benefits for laboratories:**

- Allows objective image analysis from a display during testing
- Automates repeatable measurements in failure situations
- Increases productivity through automated testing
- Optimizes laboratory time utilisation
- Eliminates unnecessary routine tasks
- Improves the quality of reporting
- Allows for larger test batches
- Efficient result management with database of results, images and video.



OptoFidelity EMC10  
Automated DUT / Chamber monitoring system for EMC laboratories

“What is your real fidelity?”



## Automated testing environment

OptoFidelity AV100 video test platform comprises a software platform, machine vision system and OptoFidelity SM30 Frame Synchronizer required for video image analysis. OptoFidelity AV100 software collects and analyses video measurements of the Device Under Test (DUT) and reports them using a customer-specific format.

We can also help in projects involving duplication or branding of an existing test application. This type of cooperation results in a thorough and efficient standardization of test procedures, quality control and test application.



OptoFidelity SM30  
Frame Synchronizer.

## Automated test process

We develop test systems that integrate seamlessly with customer's development and production processes, ensuring high video image quality. Our test platforms can also be integrated into an existing test application as a separate component.

Upper image is an example of a captured image without synchronization between the camera and the display.

Lower image shows the full-frame image acquisition when using OptoFidelity SM30 Frame Synchronizer.





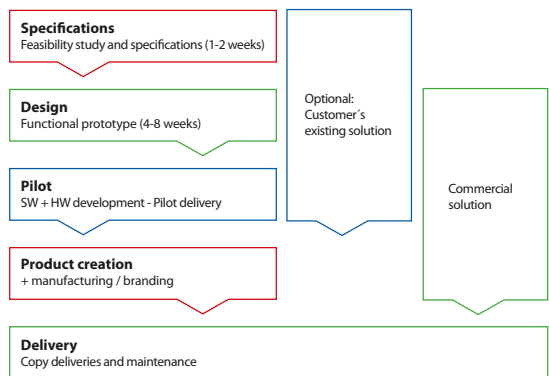
“Based on our vision and experience, we will identify the right solution for your testing needs”

## Design services for optical testing needs

Our professional services are based on a thorough feasibility study to identify and evaluate the customer’s application parameters. Ultimately, the customer receives a design which can be used to validate the technical performance of pilot products, in a much faster time frame.

OptoFidelity’s key strength lie within our in-depth knowledge of product testing based on combined, diversified technologies.

## OptoFidelity design process methodology





## Installation, start-up, maintenance and training services

OptoFidelity auxiliary services are a fundamental part of our approach, guaranteeing that our solutions operate smoothly in everyday use.

We also have a comprehensive service partner network, providing our customers with fast and reliable local service.



We are part of the industry's future



**VCF** - Vision Club of Finland



**EMVA** – European Machine Vision Association



**FIMA** – Finnish Intelligent Machine Association

By choosing us for your test process partner you benefit from our long experience and vast knowledge of optical test and measurement technology.



Hermiankatu 8 D | FI-33720 Tampere | FINLAND  
Tel. +358 (0)50 436 1158 | [sales@optofidelity.com](mailto:sales@optofidelity.com)  
[www.optofidelity.com](http://www.optofidelity.com)