OptoFidelity

DIT Display Inspection Tool

With OptoFidelity Display Inspection Tool you can:

• Automatically check the display content pixel by pixel
• Measure the contrast ratio against specification
• Verify the colors and intensities of complex segment display

OptoFidelity Display Inspection Tool (DIT) is a professional display testing tool for checking the quality of high-resolution LCD, LED and segment displays. With this tool you can test both electrical / optical quality and functionality of the display. Display functionality can be verified either in pixel-level or shape-level.

OptoFidelity Display Inspection Tools works in the LabVIEW and TestStand environments of National Instruments. The application package contains easy to use training tools and ready-made application examples.

www.optofidelity.com
**Display Inspection Tool (DIT) benefits**

- National Instruments LabVIEW and TestStand compatible
- Simple to use. Just set up the camera and lens, adjust FOV, and grab three images from the display and you are ready to begin inspecting the display.
- Supports all cameras
- HDR feature inspects the most demanding displays
- Pixel by pixel verification against synthetic bitmap for dot matrix displays
- Dead pixel detection (classifies cold and hot pixels)
- Advanced verification tools for LED matrix and segment display inspection (DIT-LS) with target color learning
- Flexible tools for defect visualization and reporting purposes
- Proprietary resampling algorithm, optimized for LCD’s
- OptoFidelity DIT is shipped with comprehensive set of setup and teaching tools.

**Technical specifications**

- Measurement accuracy: Pixel level comparison (total accuracy depends on the camera & lens performance, as well as the spatial calibration quality)
- PC requirements*: Pentium III or faster. MS Windows 2000/XP/7, 32/64 bit. Min 10 MB of free HDD space
- Software requirements*: NI LabVIEW 2010 sp1 or higher with Vision Development Module / Vision Debug Deployment licence. NI TestStand 2010 sp1 or higher (optional)
- Camera resolution requirements: Minimum of 3-4 camera pixels / inspected target image pixel (both horizontally and vertically)
- Both color (DIT-LS) and monochrome (DIT) cameras can be used
- Reference image requirements: freely defined monochrome image (DIT),

*Please refer to the HW & SW requirements of corresponding National Instruments software