Radiant Vision Systems TrueMURA™ Analysis Module is the first commercial system available to provide advanced image analysis algorithms for computing JND (“Just Noticeable Differences”). This augments the Defect Analysis functions already available in TrueTest™ Automated Visual Inspection software.


Automation of human judgment of display defects or blemishes (referred to as “mura”) is difficult because human visual recognition of uniformity variations and other defects is dependent on many factors including brightness, color, and spatial relationships. To accurately discriminate JND - artifacts just noticeable by a human observer - TrueMURA™ is based on a model of human perception which allows a grading of FPD mura in a way designed to match human observers, ignoring mura that cannot be seen by humans and ranking different mura which are distinguished by humans into categories matching those assigned by human observers.
Key Features

- TrueMURA matches human visual perception.
- TrueMURA is fully integrated into TrueTest functionality.

The TrueMURA module includes these tests, above and beyond those offered in TrueTest Automated Visual Inspection software:

- Black Mura
- Blob Analysis
- Butterfly Mura
- Corner Light
- Diagonal Line Mura
- Edge Mura
- LED Mura
- Line Mura
- Random Mura
- Spot Mura
- TrueMURATest

Specifications

TrueMURA™ analysis provides the following outputs:

<table>
<thead>
<tr>
<th>JND Map of Display Screen Image</th>
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<tbody>
<tr>
<td><strong>Maximum JND:</strong></td>
</tr>
<tr>
<td><strong>Total JND:</strong></td>
</tr>
<tr>
<td><strong>Single JND:</strong></td>
</tr>
</tbody>
</table>

Original Screen Image | JND Image for Same Screen | JND Image with Scale | JND Image with Metrics

Black Mura

Corner Light

TrueMURA

System Requirements

- Windows® 7 or 8
- 2.0 GHz or faster processor
- 3GB or greater RAM
- SXGA or larger monitor
- Ethernet 100/1000 port, or
- USB 2.0 or 3.0 compatible port

* Specifications subject to change without notice