

DOCUMENT TITLE: Image Defect Criteria (SVGA OLED Products)	PIN: 104959	
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REVISIONS

Date	Rev	CR/ECO	Brief Description	Created By
6 NOV 2013	A	CR-0954	Initial Release	MY

APPROVALS

NVIS uses ISO 9001:2008 approved electronic workflow approval system for released drawings and documents.

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1. Notes

- 1) This specification supersedes any other NVIS specification of this nature that is different compared to the information contained in this document's current revision unless otherwise agreed to by NVIS in writing specifically referencing this document.
- 2) The criteria defined herein are subject to change without notice.

2. Description and applicability

These criteria are applicable to NVIS's following SVGA OLED based display products. Note that if certain product is not explicitly listed here, but uses same/similar microdisplay and optics module, these criteria may apply at NVIS's discretion; unless a separate official applicable document is available explicitly listing that product.

- Virtual Binocular SV (VBSV)
- Virtual Monoscope SV (MSV)

3. Definitions

Active area: 800 pixel x 600 pixel region (refer to **Error! Reference source not found.**).

Zone 1: Central circular region of 550 pixel diameter = approximately 50% of the total active area (= approximately 23° round FOV for VBSV).

Zone 2: Region outside of zone 1, but inside the active area.

Blemish: Refers to visible opaque or semi-opaque spots.

Blemish size: (max length in pixels + max breadth in pixels)

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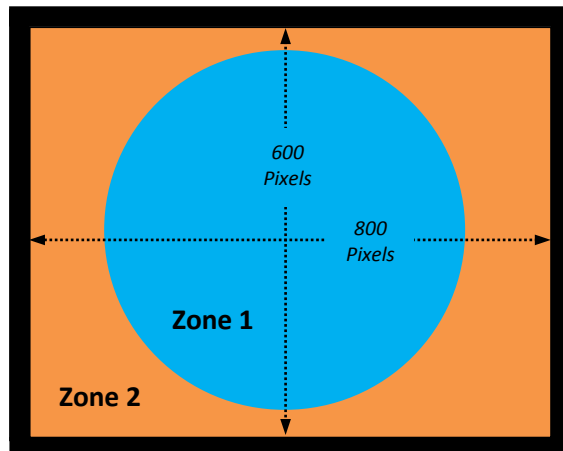


Figure 1: Quality Zones for Image Defect Criteria (not to scale)

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4. Image Defect Criteria

Table 1 describes image defect criteria with respect to microdisplay related and non-microdisplay related defects.

Table 1: Image defect criteria per optical channel

	Parameter	Specification / Quantity Allowed (per optical channel)	
Microdisplay related defects	<i>Stuck On Pixels</i>	<i>Maximum Allowed Quantity of Stuck-on, non-adjacent, Sub-Pixel(s)</i>	<i>Of Color</i>
		<i>0</i>	<i>Red + Green + Blue</i>
	Stuck Off (or dark) Pixels	< 120, no more than 2 adjacent sub-pixel out	
Non-microdisplay related defects^[1]	Sharp focus Blemish Size ≤ 2; zone 1 / zone 2	4 / 8	
	Sharp focus Blemish Size > 2 ≤ 4; zone 1 / zone 2	0 / 3	
	Sharp focus Blemish Size >4; zone 1 / zone 2	0 / 0	
	Blurry focus Blemish Size ≤ 16; zone 1 / zone 2	1 / 1	

[1] Superior criteria with respect to non-microdisplay related defects may be available for meeting specific requirements, and must be agreed to in writing by NVIS at the time of order specifically referencing this document. Please contact NVIS to discuss.