

SLOVENSKI STANDARD SIST ISO 12646:2010/oDod 1:2010

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Grafična tehnologija - Zasloni za barvno preskušanje - Značilnosti in pogoji za vizualno opazovanje - Dodatek 1

Graphic technology - Displays for colour proofing - Characteristics and viewing conditions AMENDMENT 1

Technologie graphique - Affichages pour la réalisation d'épreuves en couleur -Caractéristiques et conditions d'examen visuel AMENDEMENT 1

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<u>ICS:</u>

37.100.01Grafična tehnologija na
splošnoGraphic technology in
general

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en

2003-01. Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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DRAFT AMENDMENT ISO 12646:2008/DAmd 1

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Graphic technology — Displays for colour proofing — Characteristics and viewing conditions

AMENDMENT 1

Technologie graphique — Affichages pour la réalisation d'épreuves en couleur — Caractéristiques et conditions d'examen visuel

AMENDEMENT 1

ICS 37.100.01

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Amendment 1 to ISO 12646:2008 was prepared by Technical Committee ISO/TC 130, Graphic technology.

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Graphic technology — Displays for colour proofing — Characteristics and viewing conditions

AMENDMENT 1

Clause 4.4 Uniformity of luminance

Replace entire text with:

The display should be visually uniform when displaying flat white, grey and black images. When measured as described in 5.3, at a setting of R=G=B=255 all luminance values should be within 5 % of the luminance of the centre and shall be within 10 % of it. For R=G=B=128 all luminance values should be within 6,5 % of the luminance of the centre and shall be within 13 % of it. For R=G=B=64 all luminance values should be within 7,5 % of the luminance of the centre and shall be within 15 % of it. However, there should be no areas of significant visual non-uniformity between the points marked in Figure 2 regardless of the RGB level set.

For the entire display, measured at least at the positions stated in 5.3, the chromaticity of every neutral image (defined by equal digital values for R, G, and B) shall be within a radius of 0,005 (in u', v') from the chromaticity values measured at the centre of the display.

NOTE 1 The uniformity of chromaticity is specified in 4.8.

NOTE 2 Because there is not a simple relationship between the chromaticity coordinates (u', v') and colour differences, specifying the chromaticity of neutral images in terms of a radius of 0,005 (in u', v') results in a variation in colour difference as a function of CIE L^* . This corresponds to an average CIE2000 colour difference of approximately 0.8 at an CIE L^* value of 5 and a difference of 4,0 at an CIE L^* of 95.

Clause 4.10 Colorimetric accuracy and grey balance

Replace last paragraph with the following

The measured tristimulus values shall be transformed to CIELAB values using the white point chosen by the software application vendor. The average of the CIE 2000 colour differences between these values and the CIELAB values intended to be displayed by the software characterizing the display (e.g. an ICC monitor profile) should not exceed 1 and shall not exceed 2. The maximum such difference should not exceed 3 and shall not exceed 6.

Clause 4.11, Directional variation of luminance and chroma (FPDs only)

Replace third paragraph with the following

In the contrast inversion test, for a given RGB drive state, and for all points on the display, the luminance at angles off the DVD should not exceed the luminance at the DVD.