

Test for the visual linearized output of pictures D1Wde to D3Wde

Output test with the computer display ( ) or the external display ( ) please mark by (x)!

#### Test of the (flower) image according to picture D1Wde

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**  
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":  
.....  
.....  
.....

#### Test of the resolution of radial gratings $W-R_d$ , $W-G_d$ , $W-B_d$ according to picture D2Wde

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

#### Test of the 14 CIE-test colours according to picture D3Wde

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**  
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

#### Test of 16 visual equidistant $L^*$ -grey steps according to picture D3Wde

Are the 16 steps on the upper rows distinguishable? **Yes/No**  
If No: How many steps can be distinguished? of the given 16 steps: **..... Steps**

part 1

AE170-3de: 10301

#### Documentation of file format, hardware and software for this test:

**PDF file:** http://farbe.li.tu-berlin.de/AE17/AE17F0NX\_CY8\_1.PDF **underline Yes/No**

**PS-File:** http://farbe.li.tu-berlin.de/AE17/AE17F0NX\_CY8\_1.PS **or underline Yes/No**

#### Used computer operating system:

either one of Windows/Mac/Unix/other and version:.....

**This evaluation is for the device output:** **underline monitor/data projector/printer**

Device model, driver and version:.....

**Device output with PDF/PS-file:** **underline PDF/PS-file**

#### For device output with PDF-file AE17F0NX\_CY8\_1.PDF

either PDF-file transfer "download, copy" to PDF device.....  
or with computer system interpretation by "Display-PDF":.....  
or with software. e. g. Adobe-Reader-/Acrobat and version:.....  
or with software e. g. Ghostscript and version:.....

#### For device output with PS-file AE17F0NX\_CY8\_1.PS

either PS-file transfer "download, copy" to PS device.....  
or with computer system interpretation by "Display-PS":.....  
or with software e. g. Ghostscript and version:.....  
or with software e. g. Mac-Yap and version:.....

Special remarks: Special remarks, e. g. output of Landscape (L)  
.....  
.....  
.....

part 3

AE170-7Nde-10301

Form A: Test chart AE17 according to test chart 4 of ISO/IEC 15775 input:  $rgb/cmy0/000n/w$  set...  
chromatic test chart **RGB** output:  $->rgb_{de}$  set  $rgbcolor$

Test of 16 visually equally spaced steps of the colour rows  $W-R_d$ ,  $W-G_d$ ,  $W-B_d$ , and  $W-N$  according to picture D4Wde

	Are all the 16 steps distinguishable?	Yes/No
$W-R_d$ White – Red:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps
$W-G_d$ White – Green:	Are all the 16 steps distinguishable?	<b>Yes/No</b>
	If No: How many steps can be distinguished? of the given 16 steps	..... Steps
$W-B_d$ White – Blue:	Are all the 16 steps distinguishable?	<b>Yes/No</b>
	If No: How many steps can be distinguished? of the given 16 steps	..... Steps
$W-N$ White – Black:	Are all the 16 steps distinguishable?	<b>Yes/No</b>
	If No: How many steps can be distinguished? of the given 16 steps	..... Steps

#### Test of characters and Landolt-rings in four sizes according to picture D5Wde

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring $N$	Ring $R_d$	Ring $G_d$	Ring $B_d$
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

#### Test of recognition frequency of Landolt-rings $W-R_d$ , $W-G_d$ , $W-B_d$ , and $W-N$ according to pictures D6Wde, and D7Wde

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$	Colour row $W-G_d$	Colour row $W-B_d$	Colour row $W-N$
background – ring	background – ring	background – ring	background – ring
0 – 1	0 – 1	0 – 1	0 – 1
7 – 8	7 – 8	7 – 8	7 – 8
E – F	E – F	E – F	E – F
2 – 0	2 – 0	2 – 0	2 – 0
8 – 6	8 – 6	8 – 6	8 – 6
F – D	F – D	F – D	F – D

part 2

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#### Documentation of assessor colour vision properties for visual assessment

The assessor has **normal** colour vision according to one test:  
either according to DIN 6160:1996 with Anomaloskop of *Nagel*  
or with test charts using colour points according to *Ishihara*  
or tested with, please specify: .....

**underline Yes/No**  
**underline Yes/unknown**  
**underline Yes/unknown**  
**underline Yes/unknown**

#### For visual evaluation of the display (monitor, data projector) output

Office workplace illumination is daylight (clouded/north sky)

**PDF file:** http://farbe.li.tu-berlin.de/AE17/AE17F0PX\_CY8\_3.PDF

**PS file:** http://farbe.li.tu-berlin.de/AE17/AE17F0PX\_CY8\_3.PS

**Picture A7de contrast range:** (>F:0) (F:0) (E:0) (D:0) (C:0) (A:0) (9:0) (7:0) (5:0) (3:0) (<3:0)

compare standard print output according to ISO/IEC 15775 with range F:0

*Remark: In daylighted offices the contrast range is in many cases:*

*on display between: >F:0 and E:0 (monitor), D:0 and 3:0 (data projector)*

#### Only for optional colorimetric specification with PDF/PS file output

**PDF file:** http://farbe.li.tu-berlin.de/AE17/AE17F0PX\_CY8\_3.PDF

**picture A7de**

**underline Yes/No**

**PS file:** http://farbe.li.tu-berlin.de/AE17/AE17F0PX\_CY8\_3.PS

**picture A7de**

**or underline Yes/No**

#### colour measurement and specification for:

CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry:

**underline Yes/No**

If No, please give other parameters: .....

#### Colorimetric specification for 17 step colours of http://farbe.li.tu-berlin.de/OE70/OE70L1NP.PDF

Exchange of CIELAB data in file http://farbe.li.tu-berlin.de/AE82/AE82L0NP.TXT and transfer of the PS file AE82L0NP.PS (= .TXT) to the PDF-file AE82L0NP.PDF

**underline Yes/No**

If No, please describe other method: .....

part 4

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