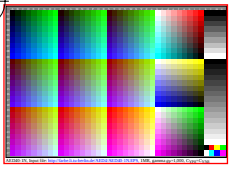
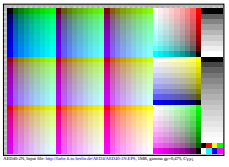
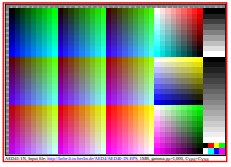
see similar files: http://farbe.li.tu-berlin.de/AED4/AED4.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

TUB registration: 20200201-AED4/AED4L0N1.TXT /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4a







VG -> VG

Original VG with standard gamma g_P=1,000

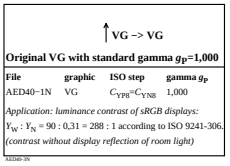
File	graphic	ISO step	gamma g_P
AED41−1N	PG	C_{YP8}=C_{YN8}	1,000

Application: luminance contrast of sRGB displays:

$Y_W : Y_N = 90 : 0,31 = 288 : 1$ according to ISO 9241-306.

(contrast without display reflection of room light)

AED41-2N



VG -> VG

Original VG with standard gamma g_P=1,000

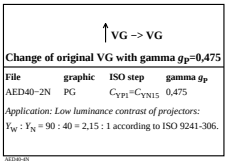
File	graphic	ISO step	gamma g_P
AED40−1N	VG	C_{YP8}=C_{YN8}	1,000

Application: luminance contrast of sRGB displays:

$Y_W : Y_N = 90 : 0,31 = 288 : 1$ according to ISO 9241-306.

(contrast without display reflection of room light)

AED40-3N



VG -> VG

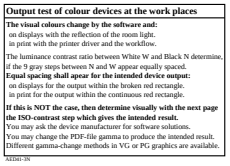
Change of original VG with gamma g_P=0,475

File	graphic	ISO step	gamma g_P
AED40−2N	PG	C_{YP1}=C_{YN15}	0,475

Application: Low luminance contrast of projectors:

$Y_W : Y_N = 90 : 40 = 2,15 : 1$ according to ISO 9241-306.

AED40-4N



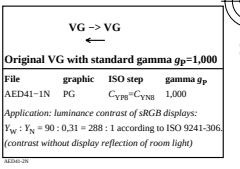
Output test of color devices at the work places

The visual colours change by the software and:
- on displays with the reflection of the room light.
- in print with the printer driver and the workflow.

The luminance contrast ratio between White W and Black N determine, if the 9 gray steps between N and W appear equally spaced.
Equal spacing shall apear for the intended device output:
- on displays for the output within the broken red rectangle.
- in print for the output within the continuous red rectangle.

If this is NOT the case, then determine visually with the next page the ISO-contrast step which gives the intended result.
You may ask the device manufacturer for software solutions.
You may change the PDF-file gamma to produce the intended result.
Different gamma-change methods in VG or PG graphics are available.

AED41-3N



VG -> VG

Original VG with standard gamma g_P=1,000

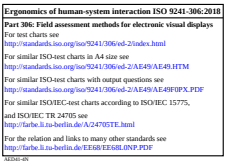
File	graphic	ISO step	gamma g_P
AED41−1N	PG	C_{YP8}=C_{YN8}	1,000

Application: luminance contrast of sRGB displays:

$Y_W : Y_N = 90 : 0,31 = 288 : 1$ according to ISO 9241-306.

(contrast without display reflection of room light)

AED41-2N



Ergonomics of human-system interaction ISO 9241-306:2018

Part 306: Field assessment methods for electronic visual displays

For test charts see
http://standards.iso.org/iso/9241/306/ed-2/index.html

For similar ISO-test charts in A4 size see
http://standards.iso.org/iso/9241/306/ed-2/AE49/AE49.HTM

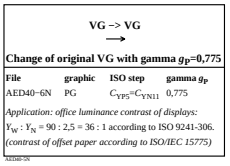
For similar ISO-test charts with output questions see
http://standards.iso.org/iso/9241/306/ed-2/AE49/AE49F0PX.PDF

For similar ISO/IEC-test charts according to ISO/IEC 15775,

and ISO/IEC TR 24705 see
http://farbe.li.tu-berlin.de/A24705TE.html

For the relation and links to many other standards see
http://farbe.li.tu-berlin.de/EE68/EE68L0NP.PDF

AED41-9N



VG -> VG

Change of original VG with gamma g_P=0,775

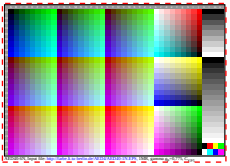
File	graphic	ISO step	gamma g_P
AED40−6N	PG	C_{YP5}=C_{YN11}	0,775

Application: office luminance contrast of displays:

$Y_W : Y_N = 90 : 2,5 = 36 : 1$ according to ISO 9241-306.

(contrast of offset paper according to ISO/IEC 15775)

AED40-5N



***PDF-* and *PS*-test files for relative colour image reproduction according to DIN 33872-1 to -6:2010**

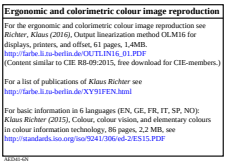
These DIN-test charts serve for the colorimetric specification, and the visual assessment of the display and print output.

For free download of the test charts see
http://farbe.li.tu-berlin.de/A/33872E.html

For similar DIN-test charts according to DIN 33866-1 to -5:2000 see
http://farbe.li.tu-berlin.de/A/DE133DE13.HTM

For more test charts, standards and applications see
http://farbe.li.tu-berlin.de/A/INFOALAE.html

AED41-5N



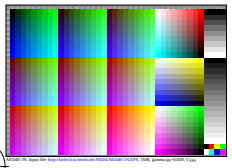
Ergonomic and colorimetric colour image reproduction

For the ergonomic and colorimetric colour image reproduction see *Richter, Klaus (2016)*, Output linearization method OLM16 for displays, printers, and offset, 61 pages, 1,4MB.
http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF
(Content similar to CIE RB-09.2015, free download for CIE-members.)

For a list of publications of *Klaus Richter* see
http://farbe.li.tu-berlin.de/XY91FEN.html

For basic information in 6 languages (EN, GE, FR, IT, SP, NO): *Klaus Richter (2015)*, Colour, colour vision, and elementary colours in colour information technology, 86 pages, 2,2 MB, see
http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF

AED41-6N



VG -> VG

Change original VG with gamma g_P=0,850

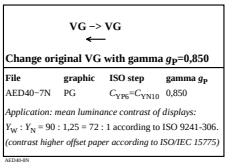
File	graphic	ISO step	gamma g_P
AED40−7N	PG	C_{YP6}=C_{YN10}	0,850

Application: mean luminance contrast of displays:

$Y_W : Y_N = 90 : 1,25 = 72 : 1$ according to ISO 9241-306.

(contrast higher offset paper according to ISO/IEC 15775)

AED40-8N



VG -> VG

Change original VG with gamma g_P=2,105

File	graphic	ISO step	gamma g_P
AED41−8N	PG	C_{YP15}=C_{YN1}	2,105

Application: extrem luminance contrast of displays:

$Y_W : Y_N$=90:0,002=36864:1 according to ISO 9241-306.

(extrem high contrast not known by the visual system)

AED41-7N