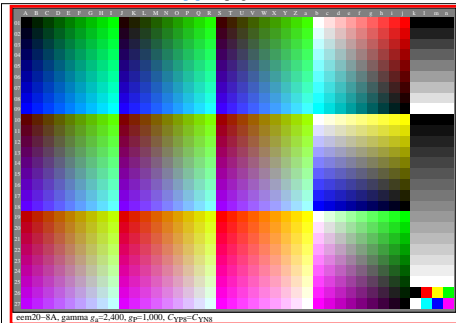
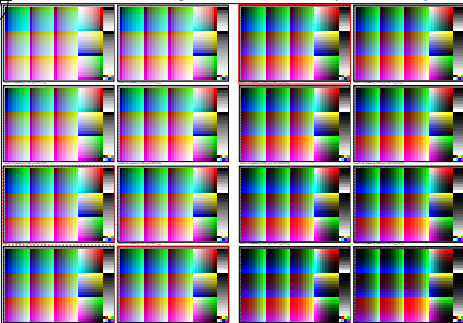


<http://farbe.li.tu-berlin.de/eem2/eem210n1.txt> /ps; only vector graphic VG; start output compare TUB-test chart for  $\gamma_{rel}=1,000$ , <http://color.li.tu-berlin.de/eem5/eem510np.pdf>, page 1/1

see gamma software and links to ISO-test charts  
technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>



### Ergonomic equally spaced colour output with free application software for still images and video

**Application program** Modify the relative Gamma  $\gamma_{rel}$  for the equally spaced display or print output

at least relative Gamma values  $0,5 \leq \gamma_{rel} \leq 2,0$  with  $\Delta\gamma_{rel} = 0,1$  shall be available compared to the absolute Gamma value  $\gamma_a = 2,4$  according to IEC 61966-2-1 (sRGB colour space)



1,0

Application programs for *macOS 10.15* or later, see a free test version: <https://www.lemkesoft.com>  
For whole display output, see: <https://www.lemkesoft.info/files/gammaadjuster/gammaadjuster.dmg>  
For still images in many files formats, see: <https://www.lemkesoft.info/files/graphicconverter/gc12.dmg>  
For application programs on *Windows* see the paper: <http://color.li.tu-berlin.de/RUSCHIN22.PDF>

**Produce an ergonomic equally spaced output with the software  $\gamma_{rel}$ . Use for example 1080 colours with 9 step colour series according to ISO CEN DIN 9241-306/ed-2:2018**

Standard ISO page of ISO 9241-306 with links to the languages English, French, and German  
<https://standards.iso.org/iso/9241/306/ed-2/index.html>

1 or 3 ISO pages,  $gP = 1,000$  without or with output questions

<https://standards.iso.org/iso/9241/306/ed-2/AE49/AE49LINP.PDF>  
<https://standards.iso.org/iso/9241/306/ed-2/AE49/AE49LONP.PDF>

Recommendation, use:  
*Adobe Reader* for the links.  
Some web browsers change  
capital to small letters and  
output is then not possible.

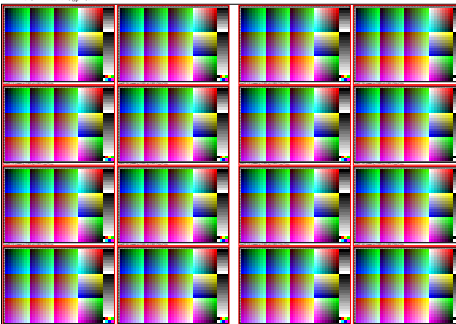
8 or 24 ISO pages,  $0,475 \leq gP \leq 1,000$  without or with output questions

<https://standards.iso.org/iso/9241/306/ed-2/AE49/AE49FOP0.PDF>  
<https://standards.iso.org/iso/9241/306/ed-2/AE49/AE49FOPX.PDF>

8 or 24 ISO pages,  $1,000 \leq gP \leq 2,105$  without or with output questions

<https://standards.iso.org/iso/9241/306/ed-2/AE49/AE49FON0.PDF>  
<https://standards.iso.org/iso/9241/306/ed-2/AE49/AE49FONX.PDF>

For similar ISO-test charts of ISO/IEC 15775/ed-2:2022 with 5, 9, and 16 step colour series, see <https://standards.iso.org/iso-iec/15775/ed-2/en/>



TUB-test chart eem2; Test charts with 9 step colour series for ergonomic linearized display output  
Gamma optimization for 15 ambient display reflections according to ISO 9241-306;  $\gamma_{rel}=1,000$

TUB registration: 20230615-eem2/eem210n1.txt / ps  
application for evaluation and measurement of display or print output

TUB material: code=ha4ta