

see similar files: <http://farbe.li.tu-berlin.de/CET1/CET1L0N1.TXT>
 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~fatbmetrik>

TUB registration: 20180701-CET1/CET1L0N1.TXT /PS
 application for measurement of display output

TUB material: code=thadta

color threshold formula LABJNDS 1985 (JND=just noticeable difference)

$$\Delta E_{JND}^* = Y_0 [(\Delta Y)^2 + (a_0 \Delta a'' \cdot Y)^2 + (b_0 \Delta b'' \cdot Y)^2]^{1/2} / (s + d Y^e)$$

$$a = x/y \quad a_n = x_n/y_n \quad b = -0,4z/y \quad b_n = -0,4z_n/y_n$$

$$a'' = a_n + (a - a_n) / (1 + 0,5 |a - a_n|) \quad n = D65 \text{ or } A \text{ (surround)}$$

$$b'' = b_n + (b - b_n) / (1 + 0,5 |b - b_n|)$$

$$Y = (Y_1 + Y_2) / 2 \quad \Delta Y = Y_1 - Y_2 \quad \Delta a'' = a_1'' - a_2'' \quad \Delta b'' = b_1'' - b_2''$$

$$s = 0,0170 \quad d = 0,0058 \quad e = 1,0$$

$$a_0 = 1,0 \quad b_0 = 1,8 \quad Y_0 = 1,5 \quad \text{surround D65}$$

$$a_0 = 1,0 \quad b_0 = 1,7 \quad Y_0 = 1,0 \quad \text{surround A}$$

CET10-7, BT4_01

color mixture and color attributes of low and high color metrics

	mode of color mixture	
	dichromatic	trichromatic
lower color- or valence metrics:		
white value W	V	V
black value N	100 - Y	100 - O
chromatic value C	Y - V	O - V
higher color- or sensation metrics:		
whiteness W*	V*	V*
blackness N*	100 - Y*	100 - O*
chromaticness C*	Y* - V*	O* - V*

CET10-3, BT2_01