

Farbmetrische "Norm-Daten": Fernseh-Lichtfarben-System TLS11 für Helligkeit $L^*_N=11$ von Schwarz für Lichtart D65

System TLS11a

LCD-Monitor

D65-Reflexion:

$Y_N = 1.23$

$L^*_N = 10.76$

Farbe	$r=ol\cdot v_1$	$g=ol\cdot v_2$	$b=ol\cdot v_3$	L^*_a	a^*_a	b^*_a	C^*_{ab}	h_{ab}	$X_a=XYZ_1$	$Y_a=XYZ_2$	$Z_a=XYZ_3$	x_a	y_a	$Y_{88.59}$
O (R)	1.0	0.0	0.0	54.21	78.64	58.52	98.03	37	42.14	22.17	3.33	0.623	0.3278	0.2503
Y	1.0	1.0	0.0	94.11	-15.83	89.38	90.77	100	73.43	85.54	13.8	0.425	0.4951	0.9655
L (G)	0.0	1.0	0.0	84.21	-81.1	76.13	111.24	137	32.83	64.47	12.29	0.2996	0.5883	0.7278
C	0.0	1.0	1.0	87.18	-51.1	-9.41	51.97	190	46.37	70.38	89.45	0.2249	0.3413	0.7944
V (B)	0.0	0.0	1.0	33.09	59.26	-94.9	111.9	302	15.11	7.58	78.79	0.1489	0.0747	0.0856
M	1.0	0.0	1.0	59.56	89.09	-50.27	102.3	331	54.26	27.64	80.12	0.3349	0.1706	0.312
N	0.0	0.0	0.0	10.76	5.51	-3.96	6.79	324	1.34	1.23	1.71	0.3134	0.2867	0.0139
W	1.0	1.0	1.0	95.41	-0.21	4.78	4.79	93	84.08	88.59	89.43	0.3208	0.338	1.0
N0	0.0	0.0	0.0	10.76	5.51	-3.96	6.79	324	1.34	1.23	1.71	0.3134	0.2867	0.0139
W1	1.0	1.0	1.0	95.41	-0.21	4.78	4.79	93	84.08	88.59	89.43	0.3208	0.338	1.0

Farbmetrische "Adaptierte Daten (a)": Fernseh-Lichtfarben-System TLS11a für Helligkeit $L^*_N=11$ von Schwarz für Lichtart D65

System TLS11a

LCD-Monitor

D65-Reflexion:

$Y_N = 1.23$

$L^*_N = 10.76$

Farbe	$r=ol\cdot v_1$	$g=ol\cdot v_2$	$b=ol\cdot v_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_{88.59}$
O (R)	1.0	0.0	0.0	54.21	76.07	58.0	95.66	37	41.29	22.17	3.41	0.6174	0.3315	0.2503
Y	1.0	1.0	0.0	94.11	-15.7	84.73	86.17	101	73.49	85.54	15.81	0.4203	0.4892	0.9655
L (G)	0.0	1.0	0.0	84.21	-81.64	72.51	109.2	138	32.68	64.47	13.72	0.2948	0.5815	0.7278
C	0.0	1.0	1.0	87.18	-51.44	-13.34	53.15	195	46.25	70.38	95.2	0.2184	0.3322	0.7944
V (B)	0.0	0.0	1.0	33.09	55.26	-93.24	108.4	301	14.45	7.58	76.63	0.1465	0.0768	0.0856
M	1.0	0.0	1.0	59.56	86.88	-51.35	100.93	329	53.4	27.64	81.56	0.3284	0.17	0.312
N	0.0	0.0	0.0	10.76	0.0	0.0	0.01	0	1.17	1.23	1.34	0.3127	0.329	0.0139
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0
N0	0.0	0.0	0.0	10.76	0.0	0.0	0.01	0	1.17	1.23	1.34	0.3127	0.329	0.0139
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Farbmetrische "Adaptierte Daten (a0)": Fernseh-Lichtfarben-System TLS00a0 für Helligkeit $L^*_N=00$ von Schwarz für Lichtart D65

System TLS00a0

LCD-Monitor

D65-Reflexion:

$Y_N = 0.0$

$L^*_N = 0.0$

$k = 88.59 / (88.59 - 1.23)$
 $= 1.014$

Farbe	$r=ol\cdot v_1$	$g=ol\cdot v_2$	$b=ol\cdot v_3$	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a0}$	$X_{a0}=XYZ_{1a0}$	$Y_{a0}=XYZ_{2a0}$	$Z_{a0}=XYZ_{3a0}$	x_{a0}	y_{a0}	$Y_{88.59}$
O (R)	1.0	0.0	0.0	53.21	78.53	65.65	102.36	40	40.69=k(41.29-1.17)	21.24=k(22.17-1.23)	2.1=k(3.41-1.34)	0.6355	0.3317	0.2397
Y	1.0	1.0	0.0	94.1	-15.93	87.27	88.72	100	73.34=k(73.49-1.17)	85.49=k(85.54-1.23)	14.68=k(15.81-1.34)	0.4227	0.4927	0.9651
L (G)	0.0	1.0	0.0	84.03	-83.48	75.12	112.31	138	31.96=k(32.68-1.17)	64.13=k(64.47-1.23)	12.56=k(13.72-1.34)	0.2941	0.5903	0.7239
C	0.0	1.0	1.0	87.06	-52.42	-13.54	54.15	194	45.72=k(46.25-1.17)	70.12=k(70.38-1.23)	95.18=k(95.2-1.34)	0.2167	0.3323	0.7915
V (B)	0.0	0.0	1.0	30.5	60.26	-97.5	114.62	302	13.47=k(14.45-1.17)	6.44=k(7.58-1.23)	76.35=k(76.63-1.34)	0.14	0.0669	0.0727
M	1.0	0.0	1.0	58.77	89.16	-52.55	103.5	329	52.97=k(53.4-1.17)	26.78=k(27.64-1.23)	81.35=k(81.56-1.34)	0.3288	0.1663	0.3023
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=k(1.17-1.17)	0.0=k(1.23-1.23)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2=k(84.2-1.17)	88.59=k(88.59-1.23)	96.46=k(96.46-1.34)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=k(1.17-1.17)	0.0=k(1.23-1.23)	0.0=k(1.34-1.34)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2=k(84.2-1.17)	88.59=k(88.59-1.23)	96.46=k(96.46-1.34)	0.3127	0.329	1.0