

Auswertungsprotokoll RGB-Kontrollkeil

Gedruckt von

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Messung

Datei: Colorcheck_1491743947
Datum: 09.04.2017 15:19
Info: epson_9890_prag308_mk
Messgerät: i1Pro

Digital FineArt 2010



ERFÜLLT

Farbmanagement					
Mittelwert ΔE_{00} :	2.29		Hohe Genauigkeit		(Digital FineArt 2010)
Maximum ΔE_{00} :	3.77 (Feld B6)				
Graubalance					
Farbabweichung Δs :	1.49 (Feld A14)	$\Delta s \leq 2$			(Digital FineArt 2010)
18% Grau / L*50:	53.0	$49.6 < L^*_{A10} < 57.6$			
Farbton:	Neutral	$\Delta C^*_{ab}: 0.8$			
Tiefenzeichnung					
Minimum ΔL :	1.64	$\Delta L \Rightarrow 1$			(Digital FineArt 2010)
D_{max} :	1.57				
Papiereigenschaften					
Papierweiss Lab*:	96.3 / 0.8 / -0.3	D50/2° (ISO 5631-3)			
Optische Aufheller:	2.1 (Wenig)	Angabe nur korrekt wenn ohne UV-Filter gemessen wurde			
Farbraum:	65 CCU	CCU = Cubic Colorcheck Units			

Farbmanagement

Mittelwert ΔE_{00} : **2.29**

Hohe Genauigkeit



(Digital FineArt 2010)

Maximum ΔE_{00} : **3.77** (Feld B6)

Feld	Ref	Lab L*	Lab a*	Lab b*	Sättigungs- Unterschied $\Delta C'$	Farbton- Unterschied $\Delta H'$	Farbabstand ΔE_{00}	$\Delta E_{00} \leq 6$
B1		83.0	3.3	73.7	-1.84	0.38	2.29	✓
B2		70.1	28.9	54.4	-2.07	0.50	2.13	✓
B3		53.2	55.3	32.2	-1.74	1.42	2.53	✓
B4		50.9	62.3	-4.6	-1.23	0.42	1.56	✓
B5		47.6	38.7	-25.2	-1.59	0.01	2.98	✓
B6		43.1	5.9	-37.9	-1.74	1.22	3.77	✓
B7		58.1	-19.6	-25.9	-1.74	1.15	2.32	✓
B8		60.8	-32.9	1.2	-2.76	1.48	3.21	✓
B9		60.7	-34.2	28.8	-2.45	0.11	2.53	✓
B10		69.7	-21.7	55.2	-1.72	0.50	1.81	✓
B11		83.5	0.1	41.7	-1.13	0.06	1.52	✓
B12		70.2	17.9	35.6	-1.69	0.05	1.70	✓
B13		63.3	35.8	20.5	-1.97	1.10	2.50	✓
B14		63.1	36.1	-0.9	-1.45	0.59	1.84	✓
B15		61.3	23.1	-15.9	-1.22	0.41	1.70	✓
B16		51.4	0.8	-27.4	-1.15	0.66	2.07	✓
B17		69.6	-9.6	-17.0	-1.34	1.18	1.82	✓
B18		52.5	-16.1	2.3	-2.55	0.74	3.64	✓
B19		69.7	-18.8	17.0	-2.00	0.07	2.02	✓
B20		74.3	-14.8	32.8	-1.73	0.20	1.82	✓

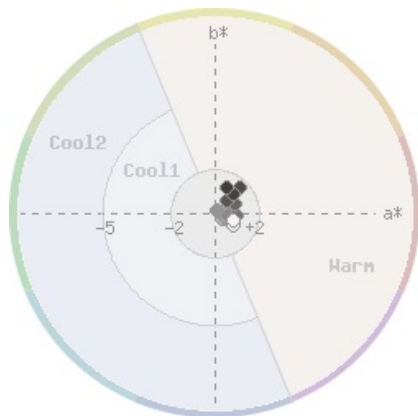
Graubalance 

Farbabweichung Δs : **1.49** (Feld A14) $\Delta s \leq 2$
 18% Grau / L*50: **53.0** $49.6 < L^*_{A10} < 57.6$
 Farbton: Neutral $\varnothing C^*_{ab}: 0.8$

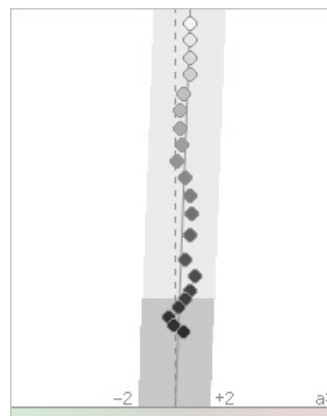


Tiefenzeichnung 

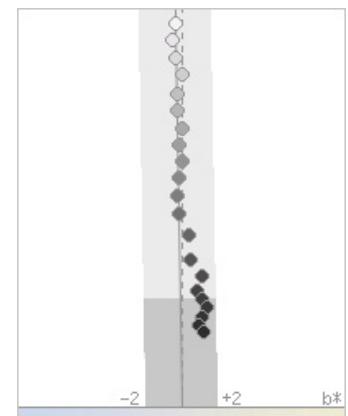
Minimum ΔL : **1.64** $\Delta L \Rightarrow 1$
 D_{max} : 1.57
 Minimum L*: 18.9



Feld A1 - A16 / ab*-Diagramm



a*-Achse

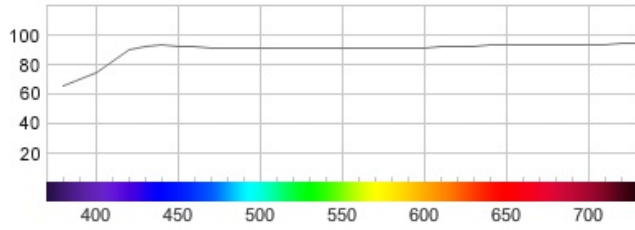


b*-Achse

Feld	Ref	Lab L*	Lab a*	Lab b*	Δs	$\Delta s \leq 2$
A1		92.0	0.9	-0.5	0.21	✓
A2		87.3	0.8	-0.3	0.06	✓
A3		83.2	0.8	0.1	0.34	✓
A4		78.2	0.5	-0.2	0.21	✓
A5		74.2	0.3	-0.2	0.36	✓
A6		69.9	0.3	0.0	0.42	✓
A7		65.7	0.4	-0.2	0.14	✓
A8		61.5	0.1	0.1	0.51	✓
A9		57.4	0.6	-0.1	0.13	✓
A10		53.0	0.8	-0.2	0.39	✓
A11		48.2	1.0	-0.1	0.59	✓
A12		43.2	0.9	0.4	0.78	✓
A13		37.0	0.5	0.5	0.69	✓
A14		32.8	1.1	1.1	1.49	✓
A15		29.2	0.9	0.8	1.12	✓
A16		26.9	0.5	1.1	1.21	✓
Feld	Ref	Lab L*	Lab a*	Lab b*	Helligkeitsunterschied ΔL zum vorherigen Feld	$\Delta L \geq 1$
A17		24.9	0.2	1.4	2.03	✓
A18		22.2	-0.3	1.2	2.64	✓
A19		20.5	-0.1	1.0	1.73	✓
A20		18.9	0.5	1.3	1.64	✓

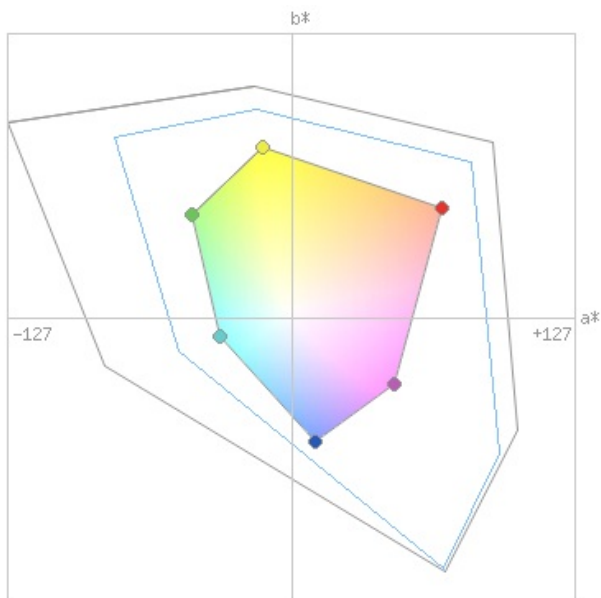
Papiereigenschaften

Papierweiss Lab*: 96.3 / 0.8 / -0.3 D50/2° (ISO 5631-3)
Optische Aufheller: 2.1 (Wenig) Angabe nur korrekt wenn ohne UV-Filter gemessen wurde
CIE Whiteness: 92 D65/10° (ISO 11475)











































Farbraum

Grösse: 65 CCU CCU = Cubic Colorcheck Units



Vergleich mit AdobeRGB (27%) sRGB (39%)

Feld	Messwerte			Referenz			
	Lab L*	Lab a*	Lab b*	Lab L*	Lab a*	Lab b*	
A1	92.05	0.85	-0.52		95.00	0.83	-0.31
A2	87.26	0.83	-0.34		90.00	0.79	-0.29
A3	83.19	0.82	0.06		85.00	0.75	-0.27
A4	78.22	0.50	-0.22		80.00	0.70	-0.26
A5	74.24	0.30	-0.23		75.00	0.66	-0.24
A6	69.92	0.29	0.04		70.00	0.61	-0.23
A7	65.69	0.44	-0.15		65.00	0.57	-0.21
A8	61.51	0.09	0.07		60.00	0.53	-0.19
A9	57.45	0.60	-0.12		55.00	0.48	-0.18
A10	53.01	0.83	-0.22		50.00	0.44	-0.16
A11	48.24	0.99	-0.10		45.00	0.39	-0.15
A12	43.21	0.90	0.43		40.00	0.35	-0.13
A13	37.03	0.55	0.53		35.00	0.31	-0.11
A14	32.78	1.10	1.14		30.00	0.26	-0.10
A15	29.19	0.86	0.84		25.00	0.22	-0.08
A16	26.91	0.55	1.09		20.00	0.18	-0.06
A17	24.88	0.19	1.41		15.00	0.13	-0.05
A18	22.23	-0.27	1.15		10.00	0.09	-0.03
A19	20.50	-0.07	0.99		5.00	0.04	-0.02
A20	18.86	0.53	1.25		0.00	0.00	-0.00
B1	83.02	3.31	73.70		85.00	3.00	82.00
B2	70.06	28.92	54.39		70.00	32.00	62.00
B3	53.19	55.32	32.17		52.00	60.00	38.00
B4	50.86	62.29	-4.63		50.00	67.00	-6.00
B5	47.61	38.75	-25.21		45.00	43.00	-28.00
B6	43.13	5.91	-37.90		40.00	5.00	-43.00
B7	58.07	-19.64	-25.89		57.00	-24.00	-28.00
B8	60.76	-32.90	1.18		60.00	-40.00	4.00
B9	60.71	-34.17	28.78		60.00	-40.00	34.00
B10	69.70	-21.68	55.24		70.00	-25.00	61.00
B11	83.47	0.08	41.67		85.00	0.00	45.00
B12	70.22	17.86	35.58		70.00	20.00	40.00
B13	63.26	35.82	20.52		62.00	40.00	25.00
B14	63.14	36.07	-0.87		62.00	40.00	0.00
B15	61.27	23.06	-15.87		60.00	25.00	-18.00
B16	51.41	0.76	-27.36		50.00	0.00	-30.00
B17	69.60	-9.59	-17.00		70.00	-12.00	-18.00
B18	52.50	-16.14	2.29		50.00	-20.00	4.00
B19	69.66	-18.82	16.98		70.00	-22.00	20.00
B20	74.25	-14.77	32.85		75.00	-17.00	37.00

Gamut Messwerte								
Feld	Lab L*	Lab a*	Lab b*			RGB R	RGB G	RGB B
C1	52.36	67.25	48.69			255	0	0
C2	72.86	-44.58	45.78			0	255	0
C3	39.10	10.78	-55.85			0	0	255
C4	76.79	-32.26	-8.74			0	255	255
C5	53.64	46.20	-29.85			255	0	255
C6	91.89	-12.86	76.19			255	255	0
C7	96.28	0.84	-0.31			255	255	255
C8	58.79	-5.21	8.82			131	141	118
C9	30.19	4.09	-32.78			23	64	125
C10	42.41	30.00	-44.09			119	28	191
C11	57.10	-2.81	-45.60			57	139	224
C12	50.28	-31.04	39.03			64	132	20
C13	70.17	-48.24	27.69			33	207	115
C14	54.76	61.63	1.43			228	61	128
C15	33.89	38.28	7.82			126	26	59
C16	60.88	27.94	-34.82			190	128	232
C17	79.51	4.61	32.49			228	197	133
C18	72.52	30.58	63.73			255	154	35
C19	78.02	-36.48	57.76			147	235	39
C20	79.25	-32.09	9.51			123	235	190