

تست انجام شده با Colorchecker digital SG

جدول S1: داده‌های رنگ نمونه‌های کارت رنگ ۹۶ تایی SG. و مقادیر به دست آمده از نمایش این مقادیر در صفحه‌های نمایش.

Table S1: Color data for the 96-patch SG color chart samples and the values obtained from displaying these samples on the monitors

Reading	Reference data			EIZO monitor			Samsung monitor		
	L*	a*	b*	L*	a*	b*	L*	a*	b*
1	31.7	42.4	-12.84	56.52	74.12	-27.11	52.26	53.41	-29.92
2	22.52	13.11	-17.53	47.53	23.81	-31.81	45.82	17.37	-30.05
3	84.54	-4.32	-4.92	91.98	-2.23	-4.59	90.1	0.06	-10.65
4	31.62	17.11	18.8	59.31	32.81	22.41	55.41	21.12	17.27
5	62.33	15.55	20.75	83.38	20.84	24.7	78.95	15.34	22.17
6	47.53	-8.01	-21.89	75.35	-15.56	-22.93	73.24	-5.75	-26.18
7	37.74	-10.4	27.79	64.62	-24.22	41.07	61.55	-15.77	35.93
8	52.86	3.87	-24.5	78.11	4.98	-24.42	75.81	7.06	-30.68
9	69.65	-31.86	3.97	85.47	-43.43	0.86	84.06	-25.45	1.83
10	83.88	11.32	17.17	90.71	12.99	15.71	86.99	11.21	14.25
11	20.6	29.55	5.78	40.34	51.04	9.14	36.73	34.57	3.16
12	40.23	53.75	8.98	60.25	89.35	7.42	54.68	65.78	2.65
13	62.29	18.97	-16.81	80.53	28.12	-17.84	77.07	21.61	-24.88
14	43.17	10.69	-34.8	64.91	17.91	-44.63	63.27	16.68	-49.72
15	84.5	11.56	1.57	90.02	15.58	2.04	86.52	13.58	-2.38
16	58.25	38.96	67.58	71.95	61.39	87.57	66.94	44.11	78.66
17	38.99	0.23	-42.55	61.55	-3.71	-52.66	61.38	5.58	-56.08
18	46	45.81	17.01	65.2	79.75	25.8	60.25	57.9	20.46
19	22.49	22.73	-27.11	40.77	34.11	-41.24	39.57	24.98	-38.45
20	69.09	-15.69	65.77	85.14	-23.08	87.87	81.86	-17.13	81.8
21	67.04	24.38	74.5	79.24	35.41	89.57	74.39	24.76	81.29
22	88.48	-15.66	9.67	92.07	-15.35	8.69	90.45	-10.47	8.7
23	40.38	60.82	44.44	58.49	97.86	65.95	52.17	74.17	55.55
24	19.15	24.15	-7.77	28.95	31.14	-13.55	27.49	23.06	-15.3
25	29.98	38.16	-37.59	46.46	65.26	-61.47	44.24	48.45	-62.14
26	22.59	-8.61	-30.79	37.32	1.56	-55.4	37.74	5.46	-50.05
27	85.14	-17.54	2	89.04	-18.41	2.11	87.11	-10.98	1.11

جدول S1: ادامه.

Table S1: Continue.

	Reference data			EIZO monitor			Samsung monitor		
Reading	L*	a*	b*	L*	a*	b*	L*	a*	b*
28	24.43	5.77	-49.33	40.51	18.5	-73.01	41.64	18.31	-68.44
29	51.82	-34.92	40.77	70.98	-83.84	69.74	69.29	-47.62	66.36
30	35.15	55.54	36.12	52.98	90.34	61.79	46.06	67.1	49.93
31	77.81	9.82	86.75	85.54	14.34	92.27	81.12	10.1	84.91
32	47.7	46.06	-15.89	64.95	77.11	-28.3	60.46	55.88	-32.25
33	50.67	-36.95	-23.05	71.48	-60.71	-28.56	70.66	-28.21	-28.85
34	84.76	2.11	-3.42	89.99	4.44	-2.98	87.39	4.76	-8.38
35	59.99	30.64	3.07	75.4	48.79	1.55	70.75	36.1	-1.54
36	37.74	57.42	28.31	55.04	91.66	47.57	48.46	68.02	36.79
37	52.8	-25	-40.16	69.39	-45.56	-45.57	70	-19.11	-47.55
38	62.31	-23.83	-25.59	75.46	-43.12	-29.12	74.89	-18.85	-32.67
39	84.88	11.58	7.41	88.09	13.59	6.19	84.15	11.56	3.34
40	94.77	-1.14	4.22	93.04	-0.56	5.3	90.97	0.08	2.73
41	79.2	-0.41	1.61	87.67	0.89	2.03	84.38	1.77	-0.69
42	65.41	-0.57	0.99	81.99	-0.25	2.4	78.45	0.92	1.06
43	50.06	-0.21	1.05	69.41	-0.5	2.66	65.94	-0.12	1.71
44	35.86	-0.28	0.18	47.68	-1.09	0.05	45.98	-0.17	-0.59
45	18.26	-0.45	-1.07	25.77	-1.66	-4.96	25.63	-0.9	-5.21
46	83.79	-14.63	-5.75	88.79	-14.48	-4.18	87.11	-7.94	-7.71
47	60.49	31.57	16.51	74.5	47.89	23.98	69.59	34.52	20.37
48	50.09	62.05	43.43	60.65	99.4	69.75	54.77	75.64	60.11
49	62.34	-33.25	-20.13	75.51	-58.33	-24.24	74.69	-27.18	-25.71
50	21.96	-25.71	-14.98	32.82	-24.53	-25.45	33.44	-12.71	-21.96
51	83.51	-7.14	27.38	87.63	-9.72	37.88	84.32	-7.62	36.52
52	8.02	0.02	-0.19	14.66	-2.41	-3.09	14.03	-0.65	-4.46
53	31.12	-0.27	-0.3	39	-0.42	0.22	38.25	0.09	-0.52
54	40.85	-0.46	0	55.11	-1.4	2.15	52.64	-0.55	1.23
55	60.58	-0.4	0.45	78.32	-0.06	1.8	74.82	0.95	0.43
56	75.25	-0.44	1.43	85.67	0	1.72	82.06	1.54	-0.84

جدول S1: ادامه.

Table S1: Continue.

	Reference data			EIZO monitor			Samsung monitor		
Reading	L*	a*	b*	L*	a*	b*	L*	a*	b*
57	88.63	-1.06	1.9	90.12	-0.22	2.08	87.63	0.58	-1.03
58	70.84	-0.61	1.13	83.56	0.71	1.41	79.87	2.01	-0.89
59	59.32	50.77	72.11	65.57	82.08	86.64	60.49	59.54	77.24
60	78.27	28.81	82.89	80.15	35.16	90.18	75.4	25.03	82.21
61	21.8	-26.43	-1.44	31.86	-34.8	-4.25	32.37	-19.81	-3.44
62	62.43	-11.75	-27.81	74.92	-22.4	-29.79	73.71	-8.44	-34.24
63	59.96	30.69	33.88	69.58	51.11	57.19	64.34	35.17	48.16
64	75.62	20.19	21.5	82.01	24.95	27.41	77.7	18.01	25.35
65	63.49	12.53	26.63	75.29	21.57	47.64	70.62	13.49	41.11
66	43.39	15.26	25.83	55.05	39.47	51.63	50.97	24.18	43.57
67	66.65	11.98	17.56	78.38	20.48	25.3	73.91	13.3	22.27
68	43.3	26.83	35.79	54.58	62.19	63.41	49.77	41.2	53.99
69	62.24	25.24	24.24	72.85	40.84	38.36	67.9	28.06	32.49
70	45.99	-0.27	0.62	62.19	-0.4	3.95	58.84	0.04	2.71
71	69.85	2.16	79.06	80.85	-3.32	85.95	76.67	-4.51	78.42
72	78.82	14.23	87.9	83.39	16.86	90.57	78.8	11.31	82.89
73	61.77	-42.32	-6.51	75.35	-70.13	-11.28	73.99	-35.59	-9.33
74	52.46	-49.31	-3.2	70.41	-78.52	-5.31	69.05	-40.72	-2.92
75	63.76	16.18	19.2	75.89	27.61	27.24	71.06	18.49	23.25
76	71.87	28.24	22.48	78.66	38.94	27.66	73.88	28.38	24.26
77	64.06	12.49	17.68	75.9	19.36	26.89	71.42	12.36	23.53
78	64.26	13.46	17.18	76.54	22.28	26.75	71.91	14.35	23.46
79	64.21	13.78	19.24	76.27	22.51	29.24	71.5	14.62	25.36
80	35.01	15.85	24.98	41.88	37.58	44.73	38.72	22.11	38.57
81	64.66	20.95	26.59	74.54	32.68	44.54	69.65	22.11	38.18
82	21.78	-0.08	-0.27	23.7	-0.27	3.44	23.1	-0.25	2.39
83	60.19	9.16	54.22	73.05	14.43	81	68.32	7.13	72.34
84	69.64	-6.13	74.31	81.73	-13.12	85.75	77.66	-10.56	78.6
85	19.38	2.91	10.6	20.92	-0.69	8.73	20.15	-1.18	6.92

جدول S1: ادامه.

Table S1: Continue.

	Reference data			EIZO monitor			Samsung monitor		
Reading	L*	a*	b*	L*	a*	b*	L*	a*	b*
86	60.78	-34.29	24.07	73.71	-71.32	45.46	71.67	-40.51	42.81
87	51.36	-47.01	18.76	67.43	-96.02	39.51	66.01	-51.32	37.33
88	21.35	-20.63	8.18	24.16	-32.82	11.89	24.38	-19.99	11.09
89	60.78	-40.3	12.83	73.31	-81.32	19.68	71.73	-43.79	21.06
90	59.67	-19.04	40.38	73.39	-49.35	75.12	70.67	-31.89	69.72
91	50.66	-37.11	45.32	64.91	-91.3	64.75	63.47	-50.51	61.53
92	60.74	-39.93	47.55	72.9	-87.34	72.15	71.13	-49.12	68.63
93	59.07	19.89	47.07	69.41	34.34	80.05	64.16	21.72	70.6
94	60.09	-4.16	52.89	75.21	-10.39	80.12	71.49	-9.14	73
95	69.77	-15.12	72.55	81.04	-24.41	84.01	77.34	-17.45	77.5
96	20.03	13.97	14.47	21.93	24.3	20.97	20.14	16.78	18.53

جدول S2: تحلیل آماری اختلاف رنگ بین داده‌های استخراج‌شده از تصاویر در نمایشگرهای EIZO و سامسونگ همچنین داده‌های اندازه‌گیری‌شده توسط اسپکتروفوتومتر.

Table S2: Statistical analysis of color differences between the data extracted from images displayed on EIZO and Samsung monitors, as well as the data measured by the spectrophotometer.

Statistical Index	ΔE_{2000} (Samsung)	ΔE_{2000} (EIZO)	ΔE^*_{ab} (Samsung)	ΔE^*_{ab} (EIZO)
Mean	12.34	9.64	23.77	14.92
Standard Deviation	6.11	5.25	14.29	7.96
Maximum	27.88	24.13	60	33.87
Minimum	1.54	1.65	1.72	2.69

جدول S3: مقادیر مورد انتظار در فضای رنگی Adobe RGB و sRGB برای چارت و مقادیر به دست آمده توسط دوربین.

Table S3: Expected Adobe RGB and sRGB color values for the chart and the corresponding values captured by the camera.

Reading	Expected values in sRGB color space			Expected values in Adobe RGB color space			Values obtained from the camera		
	R	G	B	R	G	B	R	G	B
1	128	40	97	110	44	95	202	81	184
2	64	48	81	62	51	80	124	102	166
3	199	214	221	202	213	219	226	233	239
4	105	64	46	95	66	50	183	125	108
5	187	141	115	173	139	115	239	196	164
6	77	118	150	91	117	147	153	193	225
7	84	94	42	87	93	49	143	167	84
8	115	126	169	117	124	165	186	191	236
9	100	187	162	131	185	161	157	232	209
10	240	202	178	228	200	177	249	221	199
11	89	28	43	78	33	46	146	63	85
12	172	44	84	147	47	83	237	68	138
13	174	140	181	163	138	178	224	185	232
14	93	98	160	95	98	157	154	150	235
15	234	204	209	225	202	207	245	218	222
16	216	110	0	191	109	21	255	136	6
17	39	95	162	63	94	158	106	152	239
18	181	72	84	157	73	84	246	98	121
19	71	41	95	66	45	93	113	80	164

جدول S3: ادامه.

Table S3: Continue.

	Expected values in sRGB color space			Expected values in Adobe RGB color space			Values obtained from the camera		
Reading	R	G	B	R	G	B	R	G	B
20	166	176	27	167	174	50	208	223	8
21	224	145	0	204	143	25	252	176	8
22	197	231	203	206	230	203	216	240	214
23	185	24	27	158	30	32	246	37	47
24	75	31	59	68	36	60	94	54	91
25	104	44	131	92	48	127	149	66	213
26	0	60	100	22	62	99	40	90	177
27	178	223	209	190	222	208	201	233	218
28	0	59	134	18	61	131	52	90	215
29	74	139	47	97	137	57	92	203	17
30	163	19	30	138	25	34	222	34	41
31	237	184	0	222	182	0	250	206	9
32	175	78	142	154	79	138	229	102	209
33	0	139	159	51	137	157	46	199	223
34	214	211	219	211	209	217	230	225	231
35	196	124	141	177	122	139	240	157	185
36	172	25	48	146	30	51	229	41	66
37	0	141	195	55	139	191	44	189	248
38	56	164	196	102	162	193	104	205	236
39	238	205	199	228	203	197	239	214	209
40	241	241	232	240	240	231	236	236	224
41	197	197	194	195	195	192	221	220	215
42	159	160	157	157	158	156	204	205	199
43	120	120	118	118	118	117	170	171	165
44	84	85	85	85	85	85	113	115	114
45	44	45	47	48	49	50	60	64	70
46	174	218	220	186	217	218	202	231	229
47	204	124	119	183	122	118	242	155	144
48	217	57	50	187	59	53	255	44	46

جدول S3: ادامه.

Table S3: Continue.

	Expected values in sRGB color space			Expected values in Adobe RGB color space			Values obtained from the camera		
Reading	R	G	B	R	G	B	R	G	B
49	0	168	186	92	166	183	78	210	227
50	0	63	75	0	65	75	24	88	117
51	210	212	156	209	210	157	221	225	149
52	24	24	24	30	30	30	37	41	44
53	73	74	74	74	75	75	93	94	93
54	96	97	97	96	97	96	132	134	129
55	146	147	146	144	145	144	194	195	190
56	186	186	183	184	184	181	214	215	210
57	222	224	219	221	222	218	227	228	222
58	173	174	172	172	172	170	209	209	205
59	235	100	0	206	99	0	255	96	6
60	255	172	0	243	170	35	255	179	8
61	0	62	54	27	64	57	32	88	82
62	98	159	200	118	157	197	137	196	236
63	205	122	87	185	121	89	236	139	76
64	232	173	148	216	171	148	241	191	156
65	187	145	107	175	144	108	222	175	103
66	136	93	61	124	93	64	182	110	51
67	192	154	132	180	153	131	225	184	150
68	152	84	44	136	84	49	202	89	33
69	202	133	109	184	132	110	233	156	115
70	109	110	108	108	109	108	152	152	144
71	200	168	0	190	166	0	217	203	8
72	247	184	0	230	182	0	246	199	8
73	0	170	160	89	168	158	69	213	203
74	0	147	129	57	145	129	32	201	179
75	191	144	122	177	142	121	226	173	141
76	234	156	137	214	154	136	246	173	148
77	186	147	125	174	145	124	217	178	141

جدول S3: ادامه.

Table S3: Continue.

	Expected values in sRGB color space			Expected values in Adobe RGB color space			Values obtained from the camera		
Reading	R	G	B	R	G	B	R	G	B
78	187	147	126	175	145	126	222	178	143
79	189	147	123	176	145	122	222	177	138
80	114	73	43	103	74	48	143	79	33
81	203	143	111	187	141	111	231	166	108
82	52	53	53	55	55	56	60	59	54
83	179	139	42	167	137	54	212	173	7
84	186	172	0	180	170	30	209	210	8
85	56	46	32	56	49	37	55	53	41
86	89	163	102	115	161	105	110	208	95
87	0	142	88	74	141	91	40	196	90
88	13	59	39	38	61	44	30	69	42
89	55	165	123	102	163	123	76	210	142
90	128	153	69	134	151	76	145	201	7
91	67	137	32	93	135	47	61	188	6
92	88	164	54	115	162	65	93	210	7
93	190	128	58	173	127	64	221	151	12
94	158	146	43	153	144	55	193	191	8
95	171	177	0	171	175	35	195	213	8
96	72	40	28	66	44	34	79	43	27

جدول S4: داده‌های رنگ نمونه های کارت رنگ ۹۶ تایی SG و مقادیر به دست آمده از نمایش این مقادیر در صفحه نمایش با حذف اثر دوربین.

Table S4: Color data of the 96-patch SG color chart samples and the corresponding values obtained when displaying these samples on the screen, excluding the camera effect.

Reading	Reference data			monitor EIZO				monitor Samsung			
	L*	a*	b*	L*	a*	b*	ΔE_{2000}	L*	a*	b*	ΔE_{2000}
1	31.7	42.4	-12.84	30.58	46.46	-13.7	1.61	29.73	41.4	-14.53	3.54
2	22.52	13.11	-17.53	22.81	13.3	-16.89	0.55	21.05	14.09	-19.52	2.18
3	84.54	-4.32	-4.92	84.7	-5.15	-4.61	1.03	81.22	-1.18	-10.01	1.5
4	31.62	17.11	18.8	31.3	18.18	17.98	1.15	30.15	16.06	18.41	2.4
5	62.33	15.55	20.75	61.63	17.59	20.72	1.62	59.17	16.53	19.01	3.39
6	47.53	-8.01	-21.89	47.6	-9.76	-21.16	1.45	45.52	-6.87	-21.57	3.73
7	37.74	-10.4	27.79	37.79	-10.34	26.35	0.68	36.51	-9.54	27.25	1.81
8	52.86	3.87	-24.5	52.61	3.09	-23.64	0.59	50.76	3.87	-23.93	2.69
9	69.65	-31.86	3.97	70.16	-35.11	4.98	1.45	66.32	-27.96	3.39	2.97
10	83.88	11.32	17.17	83.5	12.7	16.96	1.31	80.7	14.52	16.86	1.53
11	20.6	29.55	5.78	20.32	31.82	5.29	1.09	18.68	30.92	4.67	3.44
12	40.23	53.75	8.98	38.45	60.36	7.73	2.59	37.67	51.69	6.6	2.63
13	62.29	18.97	-16.81	61.61	20.15	-16.98	0.9	59.23	18.53	-17.68	1.42
14	43.17	10.69	-34.8	43.13	10.13	-34.13	0.23	41.77	9.39	-32.48	2.4
15	84.5	11.56	1.57	84.16	13.18	1.32	1.35	81.29	13.78	-0.78	1.2
16	58.25	38.96	67.58	56.89	44.28	67.29	3.02	55.71	37.63	66.6	3.52
17	38.99	0.23	-42.55	39.14	-1.73	-41.35	1.05	37.89	-1.67	-39.84	3.21
18	46	45.81	17.01	44.48	51.23	16.03	2.56	43.95	42.99	15.73	2.32
19	22.49	22.73	-27.11	22.46	23.51	-26.17	0.89	21.02	23.61	-28.05	3.19
20	69.09	-15.69	65.77	69.01	-15.98	63.33	0.75	65.14	-13.42	63.88	1.85
21	67.04	24.38	74.5	66.04	29.08	73.19	2.99	63.39	25.76	71.15	1.39
22	88.48	-15.66	9.67	88.78	-16.53	9.74	0.63	85.76	-13.53	9.07	1.47
23	40.38	60.82	44.44	38.51	68.74	45.11	3.06	37.62	59.05	47.61	3.25
24	19.15	24.15	-7.77	19.35	25.46	-7.56	0.71	17.06	25.9	-9.31	0.98
25	29.98	38.16	-37.59	29.36	40.33	-37.41	1.12	28.37	36.94	-36.85	3.6
26	22.59	-8.61	-30.79	23.49	-11.23	-29.03	1.95	22.39	-3.15	-29.03	2.72
27	85.14	-17.54	2	85.6	-19.63	2.17	1.35	82.06	-14.81	-0.48	3.31
28	24.43	5.77	-49.33	24.96	2.86	-47.7	1.52	24.44	8.38	-45.77	2.49
29	51.82	-34.92	40.77	52.17	-37.23	39.12	1.42	48.81	-30.87	38.12	3.56

جدول S4: ادامه.

Table S4: Continue.

Reading	Reference data			monitor EIZO				monitor Samsung			
	L*	a*	b*	L*	a*	b*	ΔE_{2000}	L*	a*	b*	ΔE_{2000}
30	35.15	55.54	36.12	33.36	62.47	35.97	2.89	32.43	53.51	37.29	4.93
31	77.81	9.82	86.75	77.08	13.1	84.75	2.09	74.14	13.5	79.02	2.68
32	47.7	46.06	-15.89	46.44	50.71	-16.26	1.92	45.64	42.02	-14.74	2.64
33	50.67	-36.95	-23.05	51.48	-41.33	-21.5	2.33	49.36	-23.84	-20.53	3.36
34	84.76	2.11	-3.42	84.62	2.3	-3.74	0.36	81.29	4.79	-7.75	3.61
35	59.99	30.64	3.07	58.82	34.08	2.35	1.84	57.26	29.32	3.3	3.55
36	37.74	57.42	28.31	35.87	64.48	27.33	2.97	34.86	55.48	27.85	5.21
37	52.8	-25	-40.16	53.47	-29.71	-38.34	2.45	51.5	-14.53	-38.67	4.42
38	62.31	-23.83	-25.59	62.62	-26.75	-24.98	1.57	58.95	-20.42	-27.61	3.89
39	84.88	11.58	7.41	84.51	12.85	7.39	1.09	81.5	14.08	6.53	2.86
40	94.77	-1.14	4.22	94.81	-1.32	4.24	0.25	93.41	1.22	0.28	1.42
41	79.2	-0.41	1.61	79.07	-0.33	1.61	0.15	75.59	1.67	-0.2	2.39
42	65.41	-0.57	0.99	65.22	-0.9	1.09	0.5	61.82	0.5	0.5	4.75
43	50.06	-0.21	1.05	49.72	-0.41	0.78	0.52	47.81	0.36	0.27	2.72
44	35.86	-0.28	0.18	35.88	-0.26	0.09	0.1	34.64	-0.24	-0.94	2.98
45	18.26	-0.45	-1.07	19.14	-1.28	-1.02	1.33	15.99	0.32	-3.27	3.97
46	83.79	-14.63	-5.75	84.18	-16.68	-5.3	1.59	80.56	-11.78	-10.17	1.96
47	60.49	31.57	16.51	59.27	35.32	15.86	2.18	57.76	30.75	16	3.59
48	50.09	62.05	43.43	47.97	70.49	43.96	3.44	47.48	59.83	44.8	3.63
49	62.34	-33.25	-20.13	62.86	-37.16	-19.08	1.99	59.04	-28.09	-21.97	1.25
50	21.96	-25.71	-14.98	22.9	-28.69	-13.48	2.08	22.42	-12.95	-13.61	1.91
51	83.51	-7.14	27.38	83.5	-7.08	27.38	0.05	79.5	-4.56	26.94	3.88
52	8.02	0.02	-0.19	10.03	-0.52	-0.5	1.51	4.97	1.61	-2.18	4.25
53	31.12	-0.27	-0.3	31.26	-1	-0.23	1.06	30.16	-0.72	-0.89	4.56
54	40.85	-0.46	0	40.9	-1.12	0.63	1.13	39.28	0.15	-0.87	3.92
55	60.58	-0.4	0.45	60.32	-1.01	0.46	0.9	57.05	0.45	-0.92	2.72
56	75.25	-0.44	1.43	75.07	-0.52	1.59	0.23	71.57	1.42	-0.08	3.35
57	88.63	-1.06	1.9	88.56	-1.08	1.65	0.23	85.73	0.54	-1	1.77
58	70.84	-0.61	1.13	70.62	-0.33	1.16	0.45	66.96	0.62	-0.52	3.37

جدول S4: ادامه.

Table S4: Continue.

Reading	Reference data			monitor EIZO				monitor Samsung			
	L*	a*	b*	L*	a*	b*	ΔE_{2000}	L*	a*	b*	ΔE_{2000}
59	59.32	50.77	72.11	57.52	58.29	74.05	3.28	56.92	49.41	71.02	2.8
60	78.27	28.81	82.89	77.25	33.3	82.18	2.61	73.83	28.61	81.48	3.33
61	21.8	-26.43	-1.44	22.92	-27.27	-1.02	0.94	21.22	-18.22	-0.84	3.83
62	62.43	-11.75	-27.81	62.56	-14.23	-27.31	1.6	59.35	-9.1	-28.94	2.37
63	59.96	30.69	33.88	58.93	35.17	33.23	2.78	56.96	30.2	32.11	3.74
64	75.62	20.19	21.5	75.01	22.95	20.95	2	71.95	22.14	21.29	2.72
65	63.49	12.53	26.63	63.08	14.39	26.61	1.46	59.69	14.01	24.33	3.14
66	43.39	15.26	25.83	42.96	17	25.02	1.6	41.26	14	24.66	2.43
67	66.65	11.98	17.56	66.14	13.11	17.31	1.13	62.86	13.82	15.83	3.65
68	43.3	26.83	35.79	42.46	30.35	35.22	2.36	41.01	23.7	35.01	3.48
69	62.24	25.24	24.24	61.48	28.36	23.67	2.08	58.97	25.48	22.96	3.92
70	45.99	-0.27	0.62	45.99	-1.09	0.6	1.17	44.05	-0.06	0.25	4.29
71	69.85	2.16	79.06	69.4	4.07	76.71	1.32	65.94	4.79	69.93	3.52
72	78.82	14.23	87.9	78.06	17.66	86.12	2.17	75.42	18.83	81.03	3.07
73	61.77	-42.32	-6.51	62.57	-46.52	-5.27	1.85	58.6	-35.11	-6.91	3.66
74	52.46	-49.31	-3.2	53.49	-53.32	-2.25	1.7	50.62	-33.05	-2.33	3.64
75	63.76	16.18	19.2	63.04	18.23	18.83	1.72	60.2	17.26	17.73	3.67
76	71.87	28.24	22.48	70.9	32.42	22.23	2.37	68.24	29.92	22.09	1.7
77	64.06	12.49	17.68	63.47	14.56	17.51	1.83	60.36	13.91	16.14	3.59
78	64.26	13.46	17.18	63.6	15.45	16.47	1.94	60.45	14.39	15.93	1.82
79	64.21	13.78	19.24	63.68	15.53	19.09	1.49	60.62	15.04	17.7	3.56
80	35.01	15.85	24.98	34.77	16.85	24.1	1.09	33.56	14.32	25.07	3.69
81	64.66	20.95	26.59	64.05	23.94	26.58	1.96	61.09	21.68	24.69	1.81
82	21.78	-0.08	-0.27	22.38	-0.43	-0.8	0.84	20.02	-0.67	-1.29	4.12
83	60.19	9.16	54.22	59.84	10.91	52.85	1.41	56.65	9.61	52.67	4.25
84	69.64	-6.13	74.31	69.37	-5.14	71.49	0.83	65.55	-3.32	68.48	1.51
85	19.38	2.91	10.6	20.05	3.06	9.96	0.7	17.24	3.24	10.4	4.1
86	60.78	-34.29	24.07	61.3	-36.72	23.84	1.13	57.09	-29.37	21.05	4.1
87	51.36	-47.01	18.76	52.29	-50.71	19.16	1.49	48.19	-38.62	15.68	3.68

جدول S4: ادامه.

Table S4: Continue.

Reading	Reference data			monitor EIZO				monitor Samsung			
	L*	a*	b*	L*	a*	b*	ΔE_{2000}	L*	a*	b*	ΔE_{2000}
88	21.35	-20.63	8.18	22.29	-21.43	7.46	0.99	19.43	-19.81	6.82	3.99
89	60.78	-40.3	12.83	61.25	-43.47	13.11	1.19	56.74	-35.65	9.97	3.18
90	59.67	-19.04	40.38	59.84	-20.17	39.11	0.98	55.81	-15.99	36.98	3.81
91	50.66	-37.11	45.32	51.36	-39.54	42.96	1.73	47.6	-33.31	43.37	3.78
92	60.74	-39.93	47.55	61.16	-42	45.55	1.36	56.81	-34.6	43.97	1.8
93	59.07	19.89	47.07	58.41	22.47	46.38	1.91	55.71	20.16	45.65	3.54
94	60.09	-4.16	52.89	59.86	-3.44	51.34	0.66	56.18	-2.74	50.49	2.18
95	69.77	-15.12	72.55	69.74	-14.59	69.48	0.73	65.42	-12.23	67.15	1.5
96	20.03	13.97	14.47	20.13	15.24	12.69	1.91	17.95	15.61	14.72	2.4

جدول S5: تحلیل آماری اختلاف رنگ بین داده‌های استخراج‌شده از تصاویر در نمایشگرهای EIZO و سامسونگ و داده‌های اندازه‌گیری‌شده توسط اسپکتروفوتومتر با حذف اثر دوربین

Table S5: Statistical analysis of color differences between display-extracted image data (EIZO & Samsung) and spectrophotometer measurements excluding the camera effect

Statistical Index	ΔE_{2000} (Samsung)	ΔE_{2000} (EIZO)	ΔE^*_{ab} (Samsung)	ΔE^*_{ab} (EIZO)
Mean	3.02	1.45	4.69	2.66
Standard Deviation	0.96	0.78	2.61	1.91
Maximum	5.21	3.44	16.39	8.72
Minimum	0.98	0.05	1.21	0.07