UGRA
Display Analysis & Certification Tool
Report

Basics

Date:	2007-6-10 20:40:51
Report-Version:	v1.2.1
Monitor-Name:	\\.\DISPLAY1
Profile:	C:/WINDOWS/System32/spool/DRIVERS/COLOR/Samsung 245B UGRA kalibrie
Created:	2007-6-10 20:36
Measurement device:	eye-one display

Summary

The monitor has not passed the certification according to the UGRA DACT specifications.

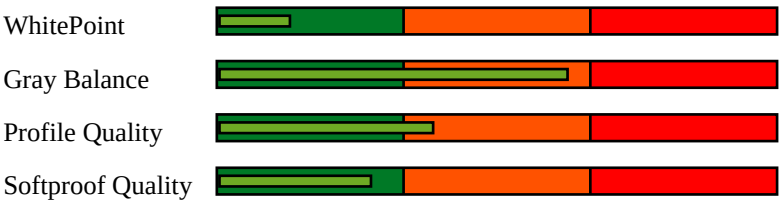
Calibration

White Point	yes
Gray balance	no
Profile quality	no

Softproofing

MultiColor, HighBody	no
Offset/Gravure Paper Type 1/2	no
Offset on uncoated paper	no
Newspaper Printing	no
Layout	yes

Diagram



Whitepoint

The whitepoint should be as close as possible to the black body curve and the calibration target.The maximum allowed distance to the target whitepoint is DeltaE .

XYZ:	112.66 118.60 115.11
XYZ (normalized):	94.99 100.00 97.06
Luminance:	118.6 Cd/m2
Next Temperature:	5820 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.8 deltaE

Blackpoint

Luminance:	0.1 Cd/m2
Chromaticity:	0.4 Chroma (Lab)

Gray balance

Average and maximum calculation will respect measurements with 1% minimum luminance only. The maximum allowed deviations to comply with this test are an average of DeltaC 1.0 and a range of DeltaC 2.0.

%	Kelvin	Cd/m2	L	Chroma	Gamma
0	3866	0.09	0.68	0.45	
5	5229	0.57	4.32	1.32	1.86
10	5737	1.80	12.71	3.11	1.87
15	5811	3.76	20.72	0.95	1.84
20	5784	6.55	28.17	1.74	1.82
25	6018	9.77	34.48	1.00	1.81
30	5817	13.57	40.31	0.66	1.81
35	5795	17.91	45.78	0.14	1.80
40	5786	22.93	51.08	0.29	1.80
45	5762	27.72	55.46	0.54	1.83
50	5777	33.94	60.45	1.45	1.82
55	5743	40.39	65.00	0.64	1.81
60	5785	47.51	69.51	0.27	1.80
65	5832	54.28	73.39	0.69	1.82
70	5845	62.39	77.64	0.63	1.81
75	5820	71.26	81.88	0.25	1.77
80	5809	79.59	85.56	0.49	1.78
85	5729	87.81	88.94	0.91	1.88
90	5787	97.29	92.59	0.40	1.90
95	5842	107.40	96.23	0.67	1.86
100	5820	118.60	100.00	0.00	
Average	5805			0.78	1.83
Range				3.76	

Tone values = 91.4%

Profile Quality

This test displays and measures RGB values and compares them with the transformation of the profile. The maximum allowed deviations to comply with this test are an average of DeltaE 3.0 and a maximum of DeltaE 6.0.

The assumed chromatic adaptation is: Bradford

RGB	Lab	deltaLab	deltaE
0 0 0	0.7 0.3 0.3	-0.7 -0.3 -0.3	0.8
0 0 128	13.2 35.8 -71.0	3.4 3.5 2.1	5.3
0 0 255	28.8 55.9 -108.1	4.4 3.4 3.9	6.8
0 128 0	50.5 -61.1 47.9	0.5 4.1 -0.2	4.1
0 128 128	52.5 -41.8 -12.3	0.9 5.7 0.7	5.8
0 170 255	67.5 -29.8 -48.7	1.8 6.4 1.9	6.9
0 255 0	84.8 -86.9 70.7	0.4 0.7 1.5	1.7
0 255 170	86.4 -72.1 12.7	0.7 2.4 2.0	3.2
0 255 255	87.9 -59.1 -18.9	1.1 4.4 1.4	4.8
85 85 85	43.8 0.2 -0.4	0.2 -0.2 0.4	0.5
128 0 0	32.9 52.8 49.4	0.0 -1.8 -2.5	3.0
128 0 128	36.7 58.7 -31.7	0.6 -1.1 -2.5	2.8
128 128 0	59.2 -10.3 57.8	-0.4 0.3 -0.2	0.5
128 128 128	60.8 -0.4 0.8	-0.1 0.4 -0.8	0.9
128 128 255	64.5 16.2 -52.3	0.7 3.0 0.1	3.1
128 255 128	90.5 -51.1 37.4	-0.5 -0.0 -0.2	0.6
170 0 255	50.3 76.4 -72.3	1.7 -1.2 -0.3	2.1
170 170 170	74.9 0.2 -0.5	0.0 -0.2 0.5	0.5
170 255 0	91.6 -43.7 78.7	-0.4 -0.8 1.2	1.4
170 255 255	94.7 -25.4 -8.4	-0.1 1.6 -0.2	1.6
255 0 0	57.0 81.5 76.2	0.9 -4.3 -4.5	6.3
255 0 170	60.3 86.5 -16.9	1.0 -4.2 -0.6	4.4
255 0 255	62.9 90.7 -51.2	1.7 -3.5 -0.5	4.0
255 128 128	74.1 44.0 22.1	0.3 -2.3 -0.8	2.5
255 170 0	80.6 20.4 77.7	0.1 -1.4 0.7	1.5
255 170 255	84.2 34.7 -21.8	0.6 -0.6 0.3	0.9
255 255 0	97.1 -14.1 86.1	-0.2 -1.1 1.0	1.5
255 255 170	98.6 -6.2 31.8	-0.2 -1.3 0.4	1.4
255 255 255	100.0 0.0 -0.0	0.0 0.0 0.0	0.0
170 85 85	54.7 35.5 16.1	0.1 -2.7 0.7	2.8
85 170 85	67.3 -40.7 28.3	-0.3 0.4 1.0	1.1
85 85 170	46.6 13.7 -41.9	1.0 1.4 0.8	1.9
85 170 170	69.1 -29.8 -10.0	-0.1 2.5 0.5	2.5
170 85 170	56.8 42.6 -25.9	0.7 -2.1 0.9	2.3
170 170 85	73.6 -7.3 37.7	-0.3 -1.0 0.9	1.3
Average			2.6
Maximum			6.9

Gamut

This test displays and measures Lab values and compares them with the reference. The maximum allowed deviations to comply with this test are an average of DeltaE 4.0 and a minimum Gamut volume of 90% for ISOcoated.

Reference	Lab	deltaLab
55.2 -39.9 -50.7	57.1 -24.5 -46.1	16.1
67.6 -27.1 -36.5	67.0 -33.3 -36.9	6.2
80.8 -13.8 -21.0	80.6 -15.6 -21.0	1.8
47.2 75.9 -3.8	49.4 73.0 2.4	7.2
60.7 52.2 -7.1	60.4 54.9 -6.2	2.9
77.0 26.2 -7.7	77.0 27.7 -7.2	1.6
89.7 -4.5 94.7	89.7 -1.7 81.7	13.3
91.3 -4.6 63.1	91.4 -2.1 61.7	2.9
93.3 -3.3 30.6	93.2 -2.3 29.9	1.2
53.5 38.4 28.8	53.5 40.7 28.1	2.4
41.4 23.1 16.6	41.6 23.8 18.1	1.7
32.4 40.3 21.9	32.4 42.7 23.9	3.1
32.6 44.6 -1.8	32.6 46.4 -1.5	1.8
51.3 1.9 44.3	51.6 3.1 44.7	1.3
34.0 -40.9 14.5	33.3 -43.6 14.7	2.8
36.2 -30.6 -20.6	36.4 -28.4 -20.1	2.2
21.2 3.4 -23.0	20.1 1.4 -24.3	2.6
89.8 0.3 -3.5	89.9 0.6 -3.1	0.5
83.6 0.2 -3.7	83.9 0.1 -3.7	0.3
70.2 0.0 -3.7	70.3 -0.3 -3.0	0.8
55.1 0.0 -3.1	54.9 -0.6 -2.0	1.3
37.5 0.1 -2.1	37.7 -0.8 -1.3	1.2
16.9 0.4 -0.4	16.5 -1.4 1.6	2.7
24.4 16.2 -47.1	22.7 12.8 -48.0	3.9
41.2 16.0 -36.5	40.8 13.9 -35.8	2.2
64.6 9.3 -23.6	64.2 8.9 -24.1	0.8
47.3 69.0 45.1	48.2 71.2 47.9	3.6
58.9 47.7 37.0	58.8 51.1 36.6	3.4
75.0 23.2 20.3	75.3 25.4 21.2	2.4
48.6 -67.5 28.0	49.8 -56.8 30.1	11.0
62.5 -41.7 22.4	62.8 -43.8 22.3	2.1
77.9 -19.6 11.3	78.0 -20.5 11.6	0.9
72.0 19.1 16.5	72.2 20.2 17.0	1.2
72.2 22.1 73.2	71.9 24.3 71.8	2.6
47.5 72.3 15.3	49.1 72.4 18.7	3.7
37.5 56.5 -21.1	37.3 58.8 -18.9	3.2
74.1 -22.1 69.3	74.6 -22.6 67.7	1.7
52.3 -55.2 -20.1	53.8 -40.9 -15.9	15.0
43.9 -20.9 -49.8	44.5 -14.6 -48.1	6.5
96.0 0.5 -3.3	95.8 0.4 -3.4	0.2
89.5 -0.1 -3.7	89.6 0.0 -3.5	0.2
83.0 -1.1 -4.3	83.2 -1.4 -4.5	0.4
68.6 -2.7 -4.0	68.8 -2.9 -4.1	0.3
53.0 -5.1 -2.3	53.0 -6.3 -0.8	1.9
37.8 -8.1 -0.9	37.9 -9.5 -0.5	1.4
25.9 -13.3 -2.2	25.5 -16.6 -0.7	3.6
Average		3.3
Gamut-Volume		90 %

Measurement Data

This table lists all RGB measurements. The XYZ values represent the values from the measurement device.

RGB	XYZ	RGB	XYZ
255 255 255	112.66 118.60 115.11	85 85 170	21.44 18.91 48.63
0 0 0	0.09 0.09 0.06	85 170 170	34.87 47.05 55.23
12 12 12	0.53 0.57 0.46	170 85 170	41.21 29.24 50.08
25 25 25	1.61 1.80 1.53	170 170 85	48.11 54.36 22.76
38 38 38	3.52 3.76 3.55	0 136 213	23.51 30.20 73.46
51 51 51	6.10 6.55 6.07	27 167 225	32.21 44.08 84.01
63 63 63	9.17 9.77 9.63	138 200 236	58.93 68.86 94.90
76 76 76	12.81 13.57 13.00	198 0 104	39.96 20.84 19.48
89 89 89	17.03 17.91 17.34	210 78 145	50.96 33.52 37.85
102 102 102	21.85 22.93 22.24	222 154 195	71.02 60.97 67.82
114 114 114	26.31 27.72 26.56	250 220 0	82.20 89.11 14.32
127 127 127	31.97 33.94 32.12	248 226 77	86.29 93.51 26.79
140 140 140	38.40 40.39 38.67	244 233 158	91.37 98.47 56.91
153 153 153	45.17 47.51 45.88	177 76 63	34.98 25.18 11.15
165 165 165	51.32 54.28 52.34	116 63 55	17.89 14.37 7.70
178 178 178	59.00 62.39 60.34	112 27 33	14.06 8.44 3.05
191 191 191	67.79 71.26 69.36	112 22 65	14.98 8.57 8.97
204 204 204	75.83 79.59 77.53	122 101 27	22.49 23.28 5.27
216 216 216	83.58 87.81 84.02	0 78 40	4.30 9.16 4.96
229 229 229	92.43 97.29 93.83	0 81 99	7.24 11.07 19.38
242 242 242	102.25 107.40 105.15	28 37 68	3.66 3.63 9.33
0 0 128	4.50 2.09 25.80	217 219 227	86.27 90.38 92.30
0 0 255	16.42 7.58 92.11	195 198 206	72.15 75.81 78.36
0 128 0	9.95 22.35 4.12	153 156 163	46.29 48.78 50.23
0 128 128	15.04 24.67 31.91	111 113 118	25.64 27.11 27.61
0 170 255	34.34 45.00 102.97	69 70 73	11.09 11.79 11.93
0 255 0	36.63 78.04 15.29	31 31 32	2.39 2.60 2.31
0 255 170	45.35 82.00 62.91	25 37 113	5.73 4.56 21.79
0 255 255	54.21 86.03 111.72	76 70 142	16.18 14.06 34.50
85 85 85	15.45 16.23 15.92	138 133 188	40.83 39.36 61.66
128 0 0	16.13 8.63 0.55	199 0 32	37.22 19.59 3.63
128 0 128	21.42 11.09 26.65	211 78 62	46.20 31.31 11.37
128 128 0	27.05 32.04 5.18	225 150 130	65.41 57.31 36.28
128 128 128	32.62 34.48 32.85	0 125 45	10.26 21.68 8.18
128 128 255	44.97 40.17 100.74	65 157 87	23.04 37.22 20.88
128 255 128	60.12 91.73 44.48	147 193 153	51.03 63.11 48.84
170 0 255	44.73 22.46 94.05	205 145 129	57.23 51.76 35.43
170 170 170	54.33 57.07 55.87	227 141 0	57.62 50.96 7.17
170 255 0	64.97 94.48 17.08	200 0 75	39.04 20.44 11.85
170 255 255	83.72 103.47 113.82	134 7 106	21.77 11.38 19.70
255 0 0	54.82 28.71 1.82	157 182 0	43.59 56.13 9.68
255 0 170	64.49 33.18 47.33	0 132 140	16.33 26.16 36.45
255 0 255	73.31 37.18 94.93	0 97 174	14.56 17.26 51.11
255 128 128	72.03 55.02 34.11	239 240 249	101.36 106.33 108.67
255 170 0	73.20 67.69 9.91	214 218 227	85.06 89.41 91.90
255 170 255	92.24 76.40 106.33	190 197 206	70.00 74.30 77.84
255 255 0	93.16 109.30 18.14	143 153 159	43.05 46.31 48.83
255 255 170	103.36 114.09 65.44	97 111 111	22.23 24.94 24.64
170 85 85	35.12 26.59 17.09	59 75 72	10.00 11.93 11.73
85 170 85	28.64 43.94 21.86	28 52 49	3.88 5.47 5.44