

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2010-3-1 14:06:16
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY2
EDID-Name:
EDID-Serial:
Profile: C:/WINDOWS/System32/.../UGRA-Profil 10-5800K-18-120cd-trc.icc
Created: 2010-3-1 14:02
Measurement device: eye-one display 2

Summary

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

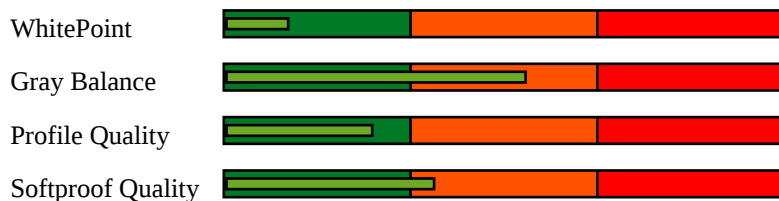
Calibration

White Point	yes
Gray balance	no
Profile quality	yes

Softproofing

MultiColor, HighBody	no
Offset/Gravure Paper Type 1/2	no
Offset on uncoated paper	no
Newspaper Printing	no
sRGB	no
AdobeRGB	no
ECI-RGB	no

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 2.0.

XYZ:	111.94 117.56 115.50
XYZ (normalized):	95.22 100.00 98.24
Luminance:	117.6 Cd/m2
Next Temperature:	5859 Kelvin
Assumed Target Whitepoint:	5900 Kelvin
Distance to assumed Target Whitepoint:	0.7 deltaE

Blackpoint

The blackpoint is not defined in ISO 12646. Therefore UDACT does only measure but not assess it.

Luminance:	0.2 Cd/m2
Chromaticity:	3.2 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	37165	0.22	1.70	3.22	
5	7289	0.71	5.49	1.81	1.87
10	6018	2.17	14.67	2.88	1.82
15	6002	4.26	22.39	3.23	1.81
20	5962	7.10	29.51	3.06	1.79
25	5851	9.92	34.88	1.99	1.82
30	5867	13.71	40.67	2.33	1.82
35	5936	18.04	46.10	1.58	1.81
40	5882	23.10	51.44	1.64	1.80
45	5894	28.17	56.05	1.49	1.81
50	5906	34.00	60.71	1.38	1.81
55	5898	40.52	65.33	1.67	1.81
60	5870	47.19	69.57	1.59	1.81
65	5829	54.11	73.56	1.48	1.83
70	5854	61.80	77.62	0.97	1.83
75	5894	69.92	81.55	0.38	1.81
80	5848	78.47	85.38	0.61	1.83
85	5845	87.07	88.95	0.70	1.88
90	5838	96.69	92.68	0.69	1.90
95	5855	106.60	96.28	0.12	1.93
100	5859	117.56	100.00	0.00	
Average	5890			1.46	1.83
Range				3.23	
Max				3.23	

Tone values = 94.5%

Through the calibration of a display tone values can be lost. A display for the printing industry should show at least 95% of the incoming tone values.

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	1.7 0.2 -3.2	-1.7 -0.2 3.2	3.6
0 0 128	12.0 50.2 -78.4	0.8 1.1 -0.3	1.4
0 0 255	25.7 77.4 -120.1	1.8 0.3 1.2	2.1
0 128 0	52.2 -46.9 60.7	0.9 1.8 2.3	3.0
0 128 128	53.5 -28.3 -11.6	1.2 1.8 1.7	2.8
0 170 255	68.2 -13.9 -51.7	1.6 1.2 3.0	3.6
0 255 0	86.9 -68.1 97.2	1.5 -0.0 -2.0	2.5
0 255 170	87.9 -53.9 20.0	1.7 0.1 1.7	2.4
0 255 255	89.1 -40.1 -17.9	1.7 0.0 2.9	3.4
85 85 85	44.3 -1.8 0.9	-0.4 1.8 -0.9	2.0
128 0 0	30.9 44.3 42.3	-0.7 1.3 4.5	4.7
128 0 128	34.2 56.6 -40.3	-0.6 1.0 -2.9	3.2
128 128 0	59.5 -13.5 70.3	-0.2 2.1 0.8	2.2
128 128 128	60.9 -1.3 0.7	-0.2 1.3 -0.7	1.5
128 128 255	63.8 21.0 -58.5	0.0 1.6 0.5	1.7
128 255 128	91.7 -42.7 47.4	0.3 0.2 -1.2	1.3
170 0 255	46.8 79.2 -83.9	-0.1 1.0 -2.3	2.5
170 170 170	75.1 -0.9 0.9	-0.1 0.9 -0.9	1.3
170 255 0	93.0 -40.2 105.0	0.2 0.6 -3.6	3.7
170 255 255	95.2 -18.4 -7.5	0.2 0.2 0.1	0.3
255 0 0	53.8 68.8 74.9	0.1 0.2 0.1	0.2
255 0 170	56.5 78.4 -25.5	-0.0 -0.0 -2.9	2.9
255 0 255	58.9 87.0 -63.4	0.2 0.2 -2.0	2.0
255 128 128	72.7 34.2 20.4	-0.2 0.6 -1.3	1.4
255 170 0	80.1 10.2 95.0	0.0 1.7 -2.1	2.7
255 170 255	83.0 30.2 -26.3	0.0 1.1 -0.3	1.1
255 255 0	97.7 -17.9 111.9	0.3 0.6 -4.4	4.5
255 255 170	98.7 -8.6 37.9	0.2 -0.1 -1.3	1.3
255 255 255	100.0 0.0 0.0	0.0 0.0 0.0	0.0
170 85 85	53.9 26.6 16.6	-0.6 0.8 -1.5	1.8
85 170 85	68.6 -35.2 37.2	0.0 1.7 -0.8	1.9
85 85 170	46.4 15.9 -45.4	0.1 1.9 -0.3	1.9
85 170 170	69.8 -22.7 -7.8	0.2 2.1 -0.4	2.1
170 85 170	55.6 37.3 -29.8	-0.4 0.8 -1.3	1.6
170 170 85	74.0 -10.5 45.8	-0.2 1.1 -1.5	1.9
Average			2.2
Maximum			4.7

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	89 %
sRGB	93 %
AdobeRGB	72 %
ECI-RGB v1.0	68 %

ISO-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
55.0 -37.0 -50.0	58.4 -13.5 -44.0	24.5
66.9 -24.7 -37.1	66.4 -21.4 -37.3	3.4
79.7 -12.5 -21.8	79.3 -13.9 -22.1	1.4
48.0 74.0 -3.0	50.4 68.3 2.7	8.4
60.8 50.6 -6.7	61.3 50.1 -5.2	1.7
76.4 25.8 -6.9	76.5 25.0 -5.9	1.3
89.0 -5.0 93.0	89.0 -5.8 96.6	3.7
90.3 -4.7 62.6	90.2 -4.9 64.6	2.1
92.2 -3.5 31.1	92.2 -3.6 32.2	1.1
53.1 37.7 28.9	53.9 36.7 30.2	1.9
41.5 22.7 16.8	42.4 21.3 17.8	2.0
31.9 40.0 24.0	33.0 38.4 25.0	2.2
32.5 44.5 -1.8	33.5 43.1 0.7	3.0
51.3 1.3 44.5	51.7 0.4 45.2	1.2
34.6 -36.4 13.9	35.3 -29.9 14.6	6.7
36.0 -26.2 -20.9	37.5 -17.6 -18.2	9.1
20.9 9.6 -23.6	21.8 6.9 -21.6	3.5
89.0 0.0 -1.9	88.7 -0.6 -1.1	1.0
82.8 0.0 -1.7	82.6 -0.4 -1.4	0.5
69.3 0.0 -1.4	69.4 -1.0 -0.7	1.2
54.1 0.0 -1.0	54.3 -1.1 0.1	1.5
36.6 0.0 -0.5	37.1 -1.6 0.9	2.2
16.0 0.0 0.0	17.5 -2.4 1.0	3.0
24.0 22.0 -46.0	24.6 18.5 -44.2	4.0
40.9 17.9 -36.6	41.2 15.7 -35.8	2.4
63.7 10.3 -23.8	63.6 9.0 -23.8	1.3
47.0 68.0 48.0	48.9 63.9 51.7	5.9
58.5 47.1 37.9	59.1 46.0 39.8	2.3
74.2 22.9 21.4	74.3 22.2 22.6	1.4
50.0 -65.0 27.0	52.3 -42.1 30.7	23.3
62.1 -39.8 21.0	61.4 -41.9 20.3	2.4
77.0 -19.1 11.0	76.6 -20.2 11.3	1.2
71.2 18.9 17.3	71.5 17.9 18.3	1.5
71.2 22.1 73.1	71.3 21.1 75.1	2.3
47.7 71.2 16.2	49.9 66.3 21.3	7.4
38.0 55.4 -20.9	38.8 54.4 -18.9	2.4
73.7 -22.8 67.6	73.5 -23.9 68.5	1.5
52.3 -52.3 -20.1	55.0 -27.3 -15.2	25.6
43.3 -17.0 -48.6	45.0 -5.5 -45.2	12.2
95.0 0.0 -2.0	94.7 -0.2 -1.7	0.5
88.5 -0.4 -3.1	88.2 -1.2 -2.3	1.2
82.0 -0.9 -4.1	81.9 -1.5 -3.6	0.8
67.7 -2.0 -4.4	67.5 -3.6 -3.8	1.7
52.2 -2.5 -3.5	52.4 -4.2 -2.4	2.1
37.5 -3.9 -3.1	38.1 -5.7 -2.1	2.2
26.3 -6.8 -3.4	27.4 -9.4 -1.8	3.3
Average		4.2
Gamut-Volume		89 %

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	111.94 117.56 115.50	85 85 170	21.75 18.61 51.93
0 0 0	0.22 0.22 0.45	85 170 170	37.78 47.73 54.40
12 12 12	0.65 0.71 0.80	170 85 170	37.72 27.72 52.23
25 25 25	1.95 2.17 1.97	170 170 85	47.10 54.61 18.66
38 38 38	3.85 4.26 3.91	0 139 205	27.46 31.61 74.16
51 51 51	6.49 7.10 6.59	0 167 219	34.81 42.77 83.51
63 63 63	9.25 9.92 9.34	121 198 231	57.07 65.66 93.59
76 76 76	12.75 13.71 12.91	225 0 102	39.51 21.66 20.31
89 89 89	16.89 18.04 17.43	231 80 142	50.25 34.48 38.49
102 102 102	21.68 23.10 22.18	234 152 189	68.06 59.40 65.33
114 114 114	26.48 28.17 27.20	250 214 29	77.34 86.30 8.24
127 127 127	32.00 34.00 32.98	247 219 94	81.19 89.61 23.67
140 140 140	38.10 40.52 39.16	242 227 161	87.43 94.93 52.77
153 153 153	44.45 47.19 45.52	192 73 65	33.92 25.35 10.61
165 165 165	51.12 54.11 52.06	126 62 57	17.93 14.84 8.21
178 178 178	58.52 61.80 60.02	124 23 31	13.65 8.69 3.04
191 191 191	66.40 69.92 68.80	126 20 63	15.02 9.03 8.84
204 204 204	74.50 78.47 76.51	125 99 37	21.74 23.14 5.19
216 216 216	82.66 87.07 84.81	0 78 45	6.19 10.19 5.77
229 229 229	91.83 96.69 94.15	0 81 97	8.95 11.67 19.47
242 242 242	101.47 106.60 104.56	37 35 66	4.54 4.10 9.45
0 0 128	5.30 1.89 29.47	214 216 220	81.98 86.40 86.46
0 0 255	18.20 6.33 102.89	194 195 199	68.54 72.12 72.56
0 128 0	12.97 23.81 2.48	152 153 155	44.32 46.91 46.70
0 128 128	18.22 25.47 32.78	110 110 112	24.65 26.18 25.67
0 170 255	40.26 45.74 110.37	68 68 69	10.48 11.26 10.74
0 255 0	45.55 81.85 6.85	30 30 30	2.55 2.82 2.62
0 255 170	54.40 84.70 57.88	40 37 106	7.01 5.20 21.65
0 255 255	64.31 88.19 113.99	82 71 137	16.78 14.27 35.21
85 85 85	15.43 16.55 15.84	140 131 182	39.81 38.20 60.47
128 0 0	13.06 7.56 0.82	223 0 30	35.55 20.12 3.19
128 0 128	18.75 9.59 29.67	231 74 64	44.29 31.36 10.42
128 128 0	26.34 32.21 2.93	236 145 128	61.66 55.14 34.05
128 128 128	32.21 34.24 33.07	0 128 57	14.06 23.98 9.39
128 128 255	45.77 38.97 109.38	21 154 95	21.98 34.98 20.78
128 255 128	65.80 94.07 37.80	132 189 154	48.46 59.79 47.00
170 0 255	40.72 19.15 103.09	214 141 127	54.53 50.11 33.55
170 170 170	53.80 56.92 54.98	239 134 33	54.60 49.40 6.01
170 255 0	68.49 96.93 7.60	225 0 73	37.89 21.10 11.44
170 255 255	88.40 104.04 114.33	152 16 104	22.05 12.27 21.12
255 0 0	44.11 24.94 1.39	144 178 44	41.21 53.74 8.83
255 0 170	53.73 28.42 49.54	0 133 139	19.86 27.20 37.60
255 0 255	63.42 31.80 103.55	0 98 165	16.31 17.43 49.22
255 128 128	63.86 52.05 33.62	235 237 241	97.26 102.21 103.13
255 170 0	66.55 66.19 4.85	210 215 221	80.70 85.33 87.04
255 170 255	86.44 73.24 110.79	186 194 201	66.63 70.64 73.85
255 255 0	91.21 109.76 7.99	139 150 156	40.73 43.99 46.66
255 255 170	101.22 113.33 58.79	97 107 111	22.01 24.10 25.09
170 85 85	31.14 25.48 16.20	61 73 75	10.55 11.92 12.48
85 170 85	31.39 45.56 18.33	34 51 51	5.03 6.16 6.47