

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2010-3-12 21:40:37
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY1
Profile: C:/WINDOWS/system32/spool/.../12.03.10-5800K-18-120cd-trc.icc
Created: 2010-3-12 21:32
Measurement device: eye-one pro

Summary

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

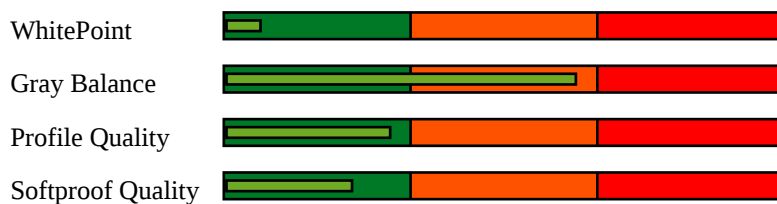
Calibration

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:	113.24 118.68 115.08
XYZ (normalized):	95.42 100.00 96.96
Luminance:	118.7 Cd/m2
Next Temperature:	5771 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.4 deltaE

Blackpoint

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

Luminance:	0.1 Cd/m2
Chromaticity:	2.3 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	78304	0.15	1.14	2.28	
5	6947	0.58	4.45	1.51	1.89
10	5726	1.91	13.28	0.64	1.85
15	5878	3.88	21.10	0.55	1.83
20	5724	6.50	28.05	0.37	1.83
25	5776	9.46	33.93	0.22	1.84
30	5866	13.26	39.87	0.48	1.83
35	5815	17.59	45.39	0.30	1.83
40	5788	22.49	50.62	0.20	1.82
45	5796	27.46	55.21	0.37	1.84
50	5788	33.24	59.90	0.25	1.84
55	5780	39.78	64.58	0.26	1.84
60	5812	46.54	68.91	0.39	1.83
65	5805	53.42	72.90	0.57	1.85
70	5803	61.37	77.10	0.39	1.85
75	5809	69.43	81.02	0.33	1.86
80	5797	78.59	85.11	0.47	1.84
85	5801	87.45	88.77	0.52	1.89
90	5800	97.28	92.56	0.29	1.89
95	5782	107.85	96.36	0.25	1.88
100	5771	118.68	100.00	0.00	
Average	5796			0.36	1.85
Range				1.19	
Max				0.64	

Tone values = 88.9%

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	1.1 -0.2 -2.3	-1.1 0.2 2.3	2.6
0 0 128	12.4 42.4 -70.4	1.9 -1.3 -3.0	3.8
0 0 255	27.2 64.6 -108.5	2.8 -2.4 -2.5	4.4
0 128 0	53.0 -56.5 50.1	-1.4 -0.8 1.7	2.3
0 128 128	54.4 -38.6 -8.1	-0.8 0.3 -3.1	3.3
0 170 255	69.6 -27.5 -44.4	-0.7 0.7 -3.5	3.7
0 255 0	89.3 -84.5 81.5	-3.0 -2.2 -3.1	4.9
0 255 170	90.1 -70.1 20.9	-2.4 -1.7 -4.2	5.1
0 255 255	91.3 -56.9 -12.6	-2.0 -1.0 -4.4	4.9
85 85 85	43.7 -0.1 -0.2	0.2 0.1 0.2	0.4
128 0 0	33.6 54.6 41.6	-1.1 -0.5 4.6	4.7
128 0 128	35.6 61.3 -33.4	0.6 -0.6 -3.5	3.6
128 128 0	59.2 -8.6 57.8	-0.2 -0.7 3.0	3.1
128 128 128	60.3 0.1 -0.0	0.4 -0.2 0.0	0.4
128 128 255	63.1 18.9 -54.5	1.3 -0.4 0.0	1.4
128 255 128	91.9 -52.4 40.9	-1.3 0.4 -1.1	1.7
170 0 255	48.8 80.1 -74.0	1.2 -1.0 -3.3	3.6
170 170 170	74.6 0.3 -0.6	0.4 -0.3 0.6	0.8
170 255 0	93.6 -44.1 86.6	-1.6 -0.2 -1.3	2.0
170 255 255	95.1 -25.6 -7.8	-0.4 0.5 -0.5	0.9
255 0 0	58.5 83.0 73.9	-1.1 -1.2 -3.4	3.8
255 0 170	60.0 87.9 -15.3	0.2 -1.0 -5.2	5.3
255 0 255	62.2 92.9 -51.5	0.7 -1.0 -4.3	4.5
255 128 128	73.4 46.0 21.1	0.7 -1.9 -0.3	2.0
255 170 0	81.0 22.5 81.2	-0.1 -1.6 0.2	1.6
255 170 255	83.1 36.6 -23.4	1.1 -1.4 0.4	1.8
255 255 0	98.6 -13.9 94.2	-1.0 -0.3 -2.1	2.3
255 255 170	99.0 -7.0 33.6	-0.3 -0.0 -0.0	0.3
255 255 255	100.0 0.0 0.0	0.0 -0.0 0.0	0.0
170 85 85	54.4 36.6 16.2	0.2 -1.8 0.2	1.8
85 170 85	68.3 -41.6 30.7	-0.7 0.8 0.7	1.3
85 85 170	45.8 14.9 -42.2	1.1 -0.3 -0.7	1.3
85 170 170	69.3 -29.7 -8.8	-0.2 0.7 -0.4	0.8
170 85 170	55.8 44.1 -26.2	0.9 -2.0 -0.7	2.3
170 170 85	73.7 -7.7 38.8	-0.2 -0.1 1.5	1.5
Average			2.5
Maximum			5.3

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	93 %
sRGB	100 %
AdobeRGB	81 %
ECI-RGB v1.0	74 %

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	58.0 -21.2 -42.0	17.9
66.9 -24.7 -37.1	66.9 -25.5 -35.3	2.0
79.7 -12.5 -21.8	79.4 -13.0 -21.7	0.5
48.0 74.0 -3.0	48.7 73.8 2.3	5.3
60.8 50.6 -6.7	60.1 53.1 -6.0	2.7
76.4 25.8 -6.9	75.4 26.8 -7.2	1.4
89.0 -5.0 93.0	89.9 -3.9 86.4	6.8
90.3 -4.7 62.6	90.9 -4.9 61.7	1.1
92.2 -3.5 31.1	92.5 -3.4 31.0	0.3
53.1 37.7 28.9	52.9 39.8 28.3	2.2
41.5 22.7 16.8	41.4 24.1 16.7	1.4
31.9 40.0 24.0	32.3 41.1 23.2	1.5
32.5 44.4 -1.8	32.4 46.3 -0.8	2.1
51.3 1.3 44.5	51.4 2.1 42.2	2.4
34.6 -36.4 13.9	35.3 -36.5 14.6	1.1
36.0 -26.2 -20.9	36.8 -23.1 -17.1	5.0
20.9 9.6 -23.6	20.1 9.6 -23.5	0.8
89.0 0.0 -1.8	88.7 -0.4 -1.6	0.5
82.8 0.0 -1.7	82.3 0.2 -2.3	0.8
69.3 0.0 -1.4	68.8 -0.0 -1.7	0.6
54.1 0.0 -1.0	53.7 0.2 -1.2	0.5
36.6 -0.0 -0.5	36.2 0.3 -1.0	0.7
16.0 0.0 0.0	16.6 -0.5 0.3	0.9
24.0 22.0 -46.0	22.8 22.3 -44.5	1.9
40.9 17.9 -36.6	39.8 18.0 -35.5	1.5
63.7 10.3 -23.8	62.7 10.7 -24.0	1.0
47.0 68.0 48.0	48.1 69.8 48.9	2.3
58.5 47.1 37.9	58.6 49.2 38.0	2.1
74.2 22.9 21.4	73.7 23.8 20.7	1.2
50.0 -65.0 27.0	52.7 -52.3 30.0	13.4
62.1 -39.8 21.0	62.7 -41.0 21.0	1.3
77.0 -19.1 11.0	76.9 -19.7 10.7	0.7
71.2 18.8 17.3	70.8 19.6 16.8	1.0
71.2 22.2 73.1	71.4 23.6 71.7	2.0
47.7 71.2 16.2	48.4 72.4 20.0	4.0
38.0 55.4 -20.9	37.5 57.3 -18.8	2.9
73.7 -22.8 67.6	74.2 -23.2 65.8	1.9
52.3 -52.3 -20.2	55.3 -36.4 -13.3	17.5
43.3 -17.0 -48.6	44.5 -11.6 -42.8	8.0
95.0 0.0 -2.0	94.8 -0.0 -2.0	0.2
88.5 -0.4 -3.1	88.3 -1.0 -3.0	0.7
82.0 -0.9 -4.1	81.3 -0.9 -4.4	0.7
67.7 -2.0 -4.4	67.1 -1.8 -5.0	0.9
52.2 -2.5 -3.5	51.8 -2.9 -3.3	0.6
37.5 -3.9 -3.1	37.2 -3.7 -3.2	0.3
26.3 -6.8 -3.4	26.1 -6.8 -3.5	0.2
Average		2.7
Gamut-Volume		93 %

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	113.24 118.68 115.08	85 85 170	21.02 18.22 47.57
0 0 0	0.14 0.15 0.31	85 170 170	35.38 47.42 54.46
12 12 12	0.56 0.58 0.68	170 85 170	40.46 28.11 48.73
25 25 25	1.80 1.91 1.80	170 170 85	48.48 54.68 22.25
38 38 38	3.67 3.88 3.77	0 133 210	25.14 31.25 70.18
51 51 51	6.19 6.50 6.22	50 162 223	34.35 43.79 81.49
63 63 63	9.05 9.46 9.22	141 195 234	58.17 66.40 92.95
76 76 76	12.62 13.26 13.03	197 0 103	39.43 20.26 18.93
89 89 89	16.78 17.59 17.20	207 85 144	50.05 33.28 37.31
102 102 102	21.47 22.49 21.91	219 154 191	67.61 58.00 64.60
114 114 114	26.24 27.46 26.84	241 218 0	81.77 89.57 12.43
127 127 127	31.75 33.24 32.40	240 223 81	84.05 92.39 26.22
140 140 140	37.88 39.78 38.49	238 229 155	89.39 96.65 54.42
153 153 153	44.42 46.54 45.50	172 78 62	34.08 24.58 10.68
165 165 165	51.07 53.42 52.33	115 65 55	17.93 14.28 8.03
178 178 178	58.59 61.37 59.93	109 30 30	13.82 8.43 3.15
191 191 191	66.16 69.43 67.63	111 26 64	14.89 8.49 8.63
204 204 204	75.09 78.59 76.77	119 101 30	22.19 23.09 5.74
216 216 216	83.15 87.45 84.72	6 77 43	5.65 10.31 5.76
229 229 229	92.68 97.28 94.58	0 78 98	8.01 11.31 18.17
242 242 242	102.75 107.85 104.48	37 34 68	4.26 3.64 9.14
0 0 128	4.71 1.94 24.65	215 216 220	83.11 87.28 86.92
0 0 255	16.57 6.79 88.50	194 195 199	68.99 72.15 72.80
0 128 0	12.25 24.95 4.52	152 153 155	44.29 46.40 46.56
0 128 128	17.12 26.72 31.19	110 110 112	24.60 25.73 25.68
0 170 255	37.84 48.38 101.91	68 68 69	10.37 10.81 10.83
0 255 0	44.13 88.73 13.80	30 30 30	2.49 2.64 2.52
0 255 170	52.43 91.26 60.88	41 34 109	6.61 4.57 19.99
0 255 255	61.48 94.61 110.90	81 69 140	16.20 13.35 32.99
85 85 85	15.45 16.21 15.83	139 130 185	39.51 37.29 58.78
128 0 0	17.12 9.04 1.24	194 16 26	36.73 19.51 3.40
128 0 128	20.96 10.39 26.47	206 82 60	45.26 31.04 10.70
128 128 0	27.76 32.16 5.20	219 149 126	61.89 54.49 34.54
128 128 128	32.28 33.79 32.79	0 126 52	12.92 24.74 9.84
128 128 255	44.08 38.22 100.56	67 153 91	23.78 37.10 21.54
128 255 128	62.64 95.45 43.49	145 189 152	49.86 61.06 48.00
170 0 255	43.77 20.98 92.57	200 144 125	54.80 49.49 33.75
170 170 170	54.10 56.53 55.49	219 140 7	56.70 50.16 6.94
170 255 0	69.06 99.61 14.83	197 7 72	38.27 19.88 10.95
170 255 255	85.02 104.72 114.03	134 23 106	21.69 11.54 19.80
255 0 0	58.43 30.61 2.39	150 179 23	43.13 55.55 10.13
255 0 170	64.75 32.88 45.27	0 130 141	18.44 27.81 36.37
255 0 255	73.12 36.29 93.51	0 94 169	14.95 17.19 46.02
255 128 128	71.75 53.73 33.91	236 237 242	98.80 103.49 103.59
255 170 0	75.55 68.57 8.95	211 215 222	81.81 86.22 87.88
255 170 255	91.04 73.97 105.79	188 193 201	66.59 70.13 73.50
255 255 0	97.50 113.56 15.38	142 149 157	41.19 43.73 46.97
255 255 170	104.48 115.39 64.10	99 107 111	22.02 23.74 25.01
170 85 85	35.13 26.23 16.76	63 72 75	10.47 11.50 12.33
85 170 85	29.68 45.52 21.46	38 50 52	4.86 5.69 6.33