UGRA
Display Analysis & Certification Tool
Report

Basics

Date:	2011-4-6 12:30:00
Report-Version:	v1.3.1
Monitor-Name:	\\.\DISPLAY1
Profile:	C:/Windows/system32/spool/drivers/.../06.04.11-5800K-18-120cd-trc.icc
Created:	2011-4-6 12:26
Measurement device:	eye-one pro

Summary

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

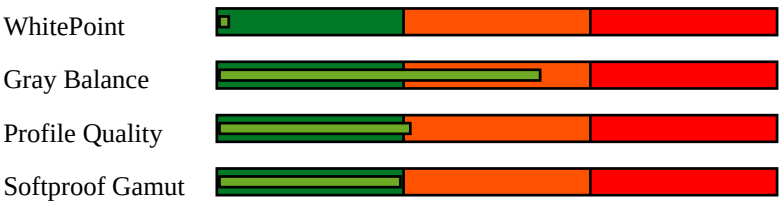
Calibration

White Point	yes
Gray balance	no
Profile quality	no

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:	114.41 119.85 116.87
XYZ (normalized):	95.46 100.00 97.51
Luminance:	119.9 Cd/m2
Next Temperature:	5796 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.1 deltaE

Blackpoint

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

Luminance:	0.0 Cd/m2
Chromaticity:	1.0 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	0	0.04	0.30	1.00	
5	5963	0.34	2.57	0.44	2.04
10	5630	1.91	13.17	0.48	1.82
15	5935	3.86	20.90	0.46	1.82
20	5775	6.73	28.43	0.33	1.80
25	5877	9.68	34.15	1.25	1.81
30	5732	13.78	40.41	0.56	1.81
35	5779	18.04	45.71	0.27	1.81
40	5765	23.16	51.06	0.21	1.80
45	5796	28.47	55.84	0.68	1.81
50	5829	34.20	60.37	0.22	1.81
55	5799	40.71	64.94	0.52	1.80
60	5828	47.73	69.34	0.28	1.80
65	5856	54.59	73.25	0.51	1.82
70	5816	63.13	77.68	0.35	1.79
75	5786	71.60	81.70	0.20	1.79
80	5802	80.57	85.62	0.06	1.78
85	5816	88.99	89.04	0.34	1.82
90	5794	99.13	92.89	0.45	1.82
95	5788	109.61	96.60	0.13	1.76
100	5796	119.85	100.00	0.00	
Average	5800			0.38	1.82
Range				1.91	
Max				1.25	

Tone values = 89.8%

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: CAT02

RGB	Lab	deltaLab	deltaE
0 0 0	0.3 0.2 -1.0	-0.3 -0.2 1.0	1.1
0 0 128	7.9 64.0 -80.5	2.2 0.6 -2.9	3.8
0 0 255	22.2 98.5 -125.9	1.4 -0.8 -0.3	1.6
0 128 0	51.1 -49.5 65.7	2.8 0.0 2.0	3.4
0 128 128	52.2 -26.3 -13.2	2.8 -2.0 4.4	5.6
0 170 255	67.6 -9.7 -52.0	2.2 -2.0 3.4	4.5
0 255 0	89.2 -74.2 105.4	0.5 -0.7 -3.1	3.2
0 255 170	90.0 -56.9 22.2	0.6 -1.5 2.2	2.7
0 255 255	90.9 -41.7 -14.6	0.6 -1.0 1.2	1.7
85 85 85	44.4 -0.5 0.4	-0.4 0.5 -0.4	0.8
128 0 0	28.4 48.9 36.1	0.8 1.0 6.0	6.1
128 0 128	31.7 64.6 -40.8	0.2 1.3 -6.1	6.2
128 128 0	59.5 -16.4 70.5	0.2 2.8 2.5	3.8
128 128 128	60.9 -0.2 0.1	-0.2 0.2 -0.1	0.3
128 128 255	63.1 27.1 -59.4	-0.0 -0.0 -0.2	0.2
128 255 128	92.8 -45.5 46.8	0.1 -1.5 2.1	2.6
170 0 255	43.9 93.5 -89.0	-0.0 0.4 -2.7	2.7
170 170 170	75.1 -0.1 0.1	-0.2 0.1 -0.1	0.2
170 255 0	94.0 -44.6 107.9	0.1 0.1 -1.4	1.5
170 255 255	95.8 -18.1 -7.0	0.0 -1.3 0.3	1.3
255 0 0	52.0 75.4 65.0	0.2 0.1 0.2	0.3
255 0 170	53.8 87.1 -27.9	0.5 0.9 -5.3	5.4
255 0 255	55.9 99.3 -68.7	0.5 0.3 -2.1	2.2
255 128 128	72.9 34.0 19.5	-1.1 3.6 -2.3	4.4
255 170 0	81.0 8.3 94.9	-0.9 3.2 -2.4	4.1
255 170 255	83.0 32.2 -26.6	-0.7 2.8 -1.8	3.4
255 255 0	98.5 -20.8 114.2	-0.1 0.3 -3.8	3.8
255 255 170	99.2 -10.0 36.7	-0.0 -0.3 0.6	0.7
255 255 255	100.0 -0.0 0.0	0.0 0.0 -0.0	0.0
170 85 85	53.7 28.1 14.5	-1.0 1.5 -0.9	2.0
85 170 85	69.1 -37.0 37.1	0.2 0.1 1.4	1.4
85 85 170	46.1 20.9 -45.7	-0.2 0.5 -1.2	1.3
85 170 170	70.0 -21.9 -7.8	0.3 -0.1 0.5	0.6
170 85 170	55.0 41.4 -31.3	-0.8 1.5 -2.0	2.7
170 170 85	74.4 -11.4 44.2	-0.3 0.2 1.1	1.2
Average			2.5
Maximum			6.2

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	90 %
sRGB	97 %
AdobeRGB	73 %
ECI-RGB v1.0	67 %

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	56.8 -7.2 -47.1	29.9
66.9 -24.7 -37.1	65.6 -17.7 -38.7	7.3
79.7 -12.5 -21.8	79.6 -12.4 -21.8	0.2
48.0 74.0 -3.0	47.9 74.3 -2.0	1.1
60.8 50.6 -6.7	61.5 48.7 -5.0	2.6
76.4 25.8 -6.9	76.9 24.2 -6.1	1.8
89.0 -5.0 93.0	89.2 -6.2 93.8	1.4
90.3 -4.7 62.6	90.7 -5.4 62.0	1.0
92.2 -3.5 31.1	92.7 -3.9 31.5	0.7
53.1 37.7 28.9	54.2 36.3 28.5	1.8
41.5 22.7 16.8	41.9 22.3 15.4	1.5
31.9 40.0 24.0	32.6 39.3 21.9	2.3
32.5 44.4 -1.8	33.3 43.4 -1.7	1.3
51.3 1.3 44.5	51.7 0.6 42.7	2.0
34.6 -36.4 13.9	32.2 -27.8 10.1	9.7
36.0 -26.2 -20.9	34.4 -11.7 -23.0	14.7
20.9 9.6 -23.6	20.9 9.1 -22.9	0.9
89.0 0.0 -1.8	88.9 -0.2 -2.1	0.3
82.8 0.0 -1.7	83.0 -0.3 -1.5	0.4
69.3 0.0 -1.4	69.3 0.2 -0.8	0.6
54.1 0.0 -1.0	54.3 0.2 -1.1	0.3
36.6 -0.0 -0.5	36.6 0.6 -0.7	0.6
16.0 0.0 0.0	16.4 -0.1 -0.1	0.4
24.0 22.0 -46.0	23.6 22.1 -45.3	0.8
40.9 17.9 -36.6	40.5 18.4 -36.0	0.9
63.7 10.3 -23.8	63.6 11.0 -24.0	0.7
47.0 68.0 48.0	46.9 67.9 46.2	1.8
58.5 47.1 37.9	59.6 44.6 38.1	2.7
74.2 22.9 21.4	75.1 20.7 22.7	2.8
50.0 -65.0 27.0	49.8 -41.3 25.9	23.7
62.1 -39.8 21.0	61.4 -40.4 19.4	1.8
77.0 -19.1 11.0	76.6 -18.8 10.5	0.7
71.2 18.8 17.3	71.5 17.3 17.6	1.6
71.2 22.2 73.1	72.2 19.9 73.4	2.4
47.7 71.2 16.2	47.8 71.0 17.3	1.1
38.0 55.4 -20.9	38.7 53.7 -18.8	2.8
73.7 -22.8 67.6	73.8 -23.0 65.5	2.1
52.3 -52.3 -20.2	53.4 -23.9 -18.4	28.5
43.3 -17.0 -48.6	43.2 1.2 -48.1	18.3
95.0 0.0 -2.0	95.2 -0.3 -1.6	0.6
88.5 -0.4 -3.1	88.4 -0.5 -3.4	0.4
82.0 -0.9 -4.1	82.3 -1.2 -4.2	0.4
67.7 -2.0 -4.4	67.9 -2.4 -3.4	1.1
52.2 -2.5 -3.5	52.3 -2.6 -3.6	0.2
37.5 -3.9 -3.1	37.1 -3.0 -3.7	1.1
26.3 -6.8 -3.4	26.2 -6.9 -3.8	0.4
Average		3.9
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	114.41 119.85 116.87	85 85 170	23.01 18.77 52.02
0 0 0	0.04 0.04 0.11	85 170 170	39.18 49.01 55.51
12 12 12	0.31 0.34 0.32	170 85 170	39.10 27.70 53.03
25 25 25	1.82 1.91 1.81	170 170 85	48.40 56.26 20.41
38 38 38	3.66 3.86 3.82	0 138 206	27.86 30.24 74.99
51 51 51	6.41 6.73 6.50	0 166 219	35.56 42.32 84.19
63 63 63	9.34 9.68 9.77	121 197 231	59.48 67.55 94.93
76 76 76	13.13 13.78 13.22	221 12 99	38.85 19.75 20.57
89 89 89	17.27 18.04 17.63	227 88 140	51.27 35.62 39.00
102 102 102	22.12 23.16 22.47	231 156 189	70.10 61.47 67.14
114 114 114	27.04 28.47 27.49	253 211 32	79.47 88.46 10.08
127 127 127	32.59 34.20 33.46	250 217 95	83.85 92.43 26.71
140 140 140	39.00 40.71 39.98	244 226 161	90.59 98.16 55.52
153 153 153	45.55 47.73 46.80	190 77 63	34.96 26.20 11.59
165 165 165	52.06 54.59 53.76	125 64 56	18.15 14.77 8.82
178 178 178	60.33 63.13 61.93	122 29 30	13.86 8.68 3.48
191 191 191	68.45 71.60 69.86	124 29 62	15.22 9.10 9.50
204 204 204	76.87 80.57 78.60	126 99 38	22.33 23.62 5.99
216 216 216	85.01 88.99 87.24	0 76 46	5.28 8.59 5.69
229 229 229	94.42 99.13 96.22	0 79 97	8.27 9.96 19.34
242 242 242	104.61 109.61 106.67	35 37 66	4.53 3.92 9.44
0 0 128	5.03 1.33 26.26	214 216 220	84.63 88.72 89.46
0 0 255	19.65 5.37 102.60	193 195 199	71.11 74.62 74.72
0 128 0	12.09 23.09 1.90	152 153 155	45.64 47.72 47.26
0 128 128	17.97 24.60 32.74	110 110 112	25.58 26.72 26.76
0 170 255	41.55 45.68 109.95	68 68 69	10.75 11.17 11.14
0 255 0	47.78 88.75 6.63	30 30 30	2.49 2.62 2.56
0 255 170	57.95 91.35 60.44	35 40 105	7.07 4.96 21.36
0 255 255	68.45 94.42 114.85	79 73 136	17.11 14.11 34.66
85 85 85	16.05 16.93 16.31	138 133 181	41.32 38.97 61.14
128 0 0	12.40 6.55 0.99	219 14 25	34.91 18.67 3.58
128 0 128	18.54 8.45 27.16	229 80 61	45.63 32.69 11.52
128 128 0	26.16 32.74 3.19	235 148 127	63.77 57.60 35.48
128 128 128	33.21 34.86 33.94	0 123 59	12.78 21.86 9.84
128 128 255	47.85 38.84 109.48	36 150 96	22.85 35.63 21.73
128 255 128	68.12 98.54 40.95	135 187 155	50.17 60.98 48.60
170 0 255	42.33 17.34 103.67	213 143 126	55.53 51.09 34.55
170 170 170	55.37 58.04 56.48	239 136 31	57.03 51.95 7.26
170 255 0	69.89 101.28 8.27	222 14 69	37.41 19.60 11.67
170 255 255	91.72 107.49 116.32	148 31 102	22.31 12.52 21.10
255 0 0	44.82 23.59 2.18	150 174 47	42.83 55.09 10.54
255 0 170	53.70 25.98 47.48	0 131 140	19.55 25.87 38.33
255 0 255	64.62 29.01 104.12	0 99 165	16.53 16.38 49.37
255 128 128	65.75 53.58 35.08	235 237 241	100.77 105.71 105.58
255 170 0	68.82 69.17 5.73	210 215 221	83.29 87.47 90.21
255 170 255	89.39 74.71 111.91	186 194 201	69.23 73.01 76.48
255 255 0	93.68 114.24 8.77	139 150 156	42.56 45.43 47.47
255 255 170	103.87 116.83 62.19	97 107 111	22.80 24.48 26.10
170 85 85	32.14 25.84 17.33	61 72 75	10.61 11.53 12.64
85 170 85	32.20 47.20 19.34	34 50 52	4.93 5.78 6.54