

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2011-7-23 20:39:21
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY1
Profile: C:/Windows/system32/spool/drivers/.../23.07.11-5800K-18-120cd-trc.icc
Created: 2011-7-23 20:33
Measurement device: eye-one pro

Summary

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

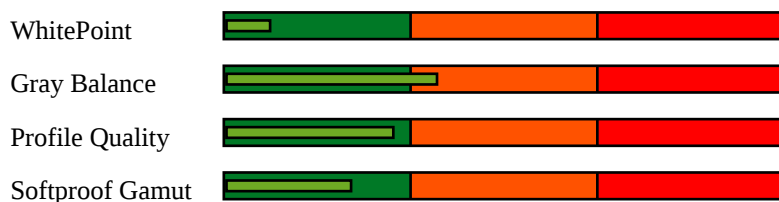
Calibration

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:	114.19 119.57 117.35
XYZ (normalized):	95.50 100.00 98.14
Luminance:	119.6 Cd/m2
Next Temperature:	5824 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.5 deltaE

Blackpoint

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

Luminance:	0.6 Cd/m2
Chromaticity:	2.5 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	8568	0.56	4.20	2.50	
5	6612	1.11	8.42	1.58	1.80
10	5903	2.48	15.89	1.10	1.79
15	5896	4.46	22.75	0.64	1.80
20	5887	7.20	29.47	0.28	1.80
25	5819	10.13	34.95	0.18	1.82
30	5820	13.85	40.55	0.63	1.82
35	5857	18.44	46.20	0.40	1.80
40	5757	23.26	51.21	0.41	1.81
45	5807	28.33	55.78	0.12	1.83
50	5762	34.16	60.40	0.58	1.83
55	5773	41.10	65.25	0.41	1.81
60	5851	48.12	69.64	1.21	1.81
65	5881	55.22	73.66	0.58	1.81
70	5801	62.91	77.64	0.54	1.82
75	5813	71.44	81.70	0.36	1.81
80	5819	79.85	85.39	0.34	1.81
85	5863	88.51	88.93	0.36	1.86
90	5815	98.01	92.56	0.14	1.90
95	5824	108.83	96.42	0.22	1.83
100	5824	119.57	100.00	0.00	
Average	5830			0.45	1.82
Range				2.28	
Max				1.21	

Tone values = 94.1%

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	4.2 -0.6 -2.5	-4.2 0.6 2.5	4.9
0 0 128	17.6 37.6 -68.5	-1.3 3.0 -2.9	4.3
0 0 255	33.0 61.6 -108.1	-0.1 -0.2 0.1	0.3
0 128 0	51.8 -53.2 56.2	-0.0 -0.7 3.4	3.5
0 128 128	54.3 -34.0 -9.0	-0.1 0.1 -0.9	0.9
0 170 255	70.2 -21.8 -46.5	-0.2 0.6 -0.2	0.7
0 255 0	86.5 -81.8 90.2	-0.0 0.3 0.0	0.3
0 255 170	88.3 -66.3 20.8	-0.0 0.5 -0.7	0.9
0 255 255	90.1 -52.0 -14.8	-0.0 0.7 -0.2	0.8
85 85 85	44.3 0.3 -0.4	-0.3 -0.3 0.4	0.6
128 0 0	31.8 50.8 35.1	-0.5 1.3 5.2	5.4
128 0 128	36.1 58.5 -38.5	-0.2 0.7 -0.7	1.0
128 128 0	58.7 -9.9 63.3	0.0 -0.5 2.0	2.0
128 128 128	60.8 -0.1 0.4	-0.1 0.1 -0.4	0.5
128 128 255	65.2 19.7 -54.8	-0.1 0.1 0.1	0.2
128 255 128	90.8 -49.4 44.4	-0.0 0.1 -0.8	0.8
170 0 255	50.3 77.9 -79.3	0.1 -0.6 0.6	0.9
170 170 170	75.2 -0.2 0.6	-0.3 0.2 -0.6	0.7
170 255 0	91.8 -43.3 95.1	0.0 -0.2 -0.6	0.7
170 255 255	95.2 -22.6 -7.3	-0.1 -0.1 -0.1	0.2
255 0 0	55.6 78.8 60.7	-0.1 0.0 0.3	0.3
255 0 170	58.8 84.8 -25.0	0.2 -0.5 0.2	0.6
255 0 255	62.2 90.4 -60.0	0.3 -0.9 0.8	1.3
255 128 128	73.2 41.5 18.9	0.1 -0.1 -0.4	0.5
255 170 0	80.1 18.0 84.5	-0.0 0.0 -1.1	1.1
255 170 255	84.2 33.7 -24.7	-0.1 0.2 0.1	0.2
255 255 0	96.9 -15.6 100.1	0.1 -0.1 -1.4	1.4
255 255 170	98.4 -7.6 34.9	0.1 -0.1 -0.4	0.4
255 255 255	100.0 0.0 -0.0	-0.0 0.0 -0.0	0.0
170 85 85	54.1 33.0 14.3	-0.2 -0.4 0.2	0.5
85 170 85	68.0 -39.0 34.5	-0.3 0.2 -0.2	0.4
85 85 170	47.6 15.7 -42.9	-0.1 -0.2 -0.1	0.2
85 170 170	69.9 -26.5 -7.4	-0.3 0.6 -0.7	1.0
170 85 170	56.6 41.2 -28.6	-0.1 -0.5 -0.1	0.5
170 170 85	73.6 -8.5 41.9	-0.3 -0.1 -0.1	0.3
Average			1.1
Maximum			5.4

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	92 %
sRGB	97 %
AdobeRGB	78 %
ECI-RGB v1.0	71 %

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	58.8 -16.2 -44.1	22.0
66.9 -24.7 -37.1	67.2 -25.4 -36.8	0.8
79.7 -12.5 -21.8	79.8 -12.6 -21.5	0.3
48.0 74.0 -3.0	48.7 71.9 -2.0	2.4
60.8 50.6 -6.7	60.8 51.0 -7.5	0.9
76.4 25.8 -6.9	76.9 25.0 -6.0	1.3
89.0 -5.0 93.0	88.6 -4.5 92.4	0.9
90.3 -4.7 62.6	90.2 -4.7 62.8	0.3
92.2 -3.5 31.1	91.9 -3.4 30.6	0.6
53.1 37.7 28.9	53.3 37.6 28.4	0.6
41.5 22.7 16.8	42.3 22.2 16.2	1.1
31.9 40.0 24.0	32.6 38.8 21.9	2.5
32.5 44.4 -1.8	33.2 43.5 -1.9	1.2
51.3 1.3 44.5	51.6 1.4 43.5	1.1
34.6 -36.4 13.9	35.7 -32.0 12.7	4.8
36.0 -26.2 -20.9	37.4 -19.0 -18.4	7.8
20.9 9.6 -23.6	22.7 8.8 -22.0	2.6
89.0 0.0 -1.8	89.0 -0.3 -1.8	0.3
82.8 0.0 -1.7	82.8 0.4 -2.2	0.6
69.3 0.0 -1.4	69.7 -0.7 -0.6	1.1
54.1 0.0 -1.0	54.7 0.3 -0.6	0.7
36.6 -0.0 -0.5	37.2 0.4 -0.7	0.7
16.0 0.0 0.0	18.4 0.1 -0.1	2.4
24.0 22.0 -46.0	25.1 21.0 -44.8	1.9
40.9 17.9 -36.6	41.2 17.4 -36.4	0.6
63.7 10.3 -23.8	63.7 10.5 -23.5	0.3
47.0 68.0 48.0	47.3 67.4 46.9	1.3
58.5 47.1 37.9	58.5 47.6 37.3	0.7
74.2 22.9 21.4	74.4 22.3 22.6	1.4
50.0 -65.0 27.0	52.1 -47.7 28.8	17.5
62.1 -39.8 21.0	62.5 -39.8 20.9	0.4
77.0 -19.1 11.0	76.9 -18.6 11.0	0.4
71.2 18.8 17.3	71.6 18.2 18.3	1.3
71.2 22.2 73.1	71.3 22.3 73.8	0.7
47.7 71.2 16.2	47.9 70.4 15.9	0.9
38.0 55.4 -20.9	38.6 54.6 -20.0	1.3
73.7 -22.8 67.6	73.9 -23.2 67.8	0.5
52.3 -52.3 -20.2	55.1 -31.5 -15.5	21.6
43.3 -17.0 -48.6	45.5 -6.6 -45.0	11.3
95.0 0.0 -2.0	94.9 -0.1 -2.4	0.4
88.5 -0.4 -3.1	88.5 -0.1 -3.8	0.7
82.0 -0.9 -4.1	81.8 -0.7 -4.6	0.6
67.7 -2.0 -4.4	68.0 -2.1 -4.4	0.3
52.2 -2.5 -3.5	52.7 -2.7 -2.7	1.0
37.5 -3.9 -3.1	38.0 -3.8 -3.1	0.6
26.3 -6.8 -3.4	27.6 -6.2 -3.7	1.5
Average		2.7
Gamut-Volume		92 %

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	114.19 119.57 117.35	85 85 170	23.20 19.97 52.24
0 0 0	0.52 0.56 0.73	85 170 170	37.46 48.75 55.10
12 12 12	1.05 1.11 1.22	170 85 170	41.15 29.36 53.54
25 25 25	2.41 2.48 2.55	170 170 85	48.18 54.74 20.69
38 38 38	4.28 4.46 4.48	0 133 209	27.70 32.58 76.20
51 51 51	6.87 7.20 7.14	15 162 222	35.34 44.76 86.17
63 63 63	9.70 10.13 9.97	133 195 233	59.60 67.71 95.45
76 76 76	13.32 13.85 13.75	206 0 99	39.13 20.43 21.66
89 89 89	17.64 18.44 18.28	214 84 141	50.76 34.42 40.32
102 102 102	22.25 23.26 22.61	224 154 189	70.30 61.22 67.35
114 114 114	27.07 28.33 27.73	246 218 0	78.90 86.91 9.58
127 127 127	32.61 34.16 33.09	244 223 87	82.89 91.02 25.16
140 140 140	39.28 41.10 39.99	240 229 158	88.80 95.94 54.96
153 153 153	45.55 48.12 46.69	179 78 60	34.17 25.20 11.11
165 165 165	52.50 55.22 54.32	119 65 55	18.43 15.05 8.80
178 178 178	59.95 62.91 61.21	114 29 28	13.72 8.64 3.50
191 191 191	68.13 71.44 69.76	116 25 62	15.15 9.01 9.62
204 204 204	76.42 79.85 78.59	122 101 33	22.38 23.49 5.64
216 216 216	84.40 88.51 87.24	0 78 46	6.31 10.62 6.50
229 229 229	93.69 98.01 96.18	0 78 98	8.90 11.78 19.75
242 242 242	104.05 108.83 107.02	36 34 67	5.13 4.50 10.31
0 0 128	6.35 3.14 29.80	214 216 220	84.50 88.59 89.58
0 0 255	21.39 9.84 105.27	194 195 199	70.81 73.86 75.28
0 128 0	12.04 23.86 3.10	152 153 155	45.75 48.15 47.82
0 128 128	18.11 26.81 32.37	110 110 112	25.92 27.06 26.95
0 170 255	41.19 49.89 109.36	68 68 69	11.07 11.53 11.58
0 255 0	41.05 82.47 8.88	30 30 30	2.98 3.11 3.07
0 255 170	51.17 87.19 58.57	38 33 107	7.60 5.45 22.73
0 255 255	62.15 92.34 113.41	80 68 138	17.42 14.48 36.15
85 85 85	16.08 16.77 16.63	138 130 183	41.17 38.94 61.27
128 0 0	15.14 8.17 1.58	204 12 18	35.22 18.98 3.59
128 0 128	21.15 10.85 31.14	215 81 57	44.85 31.17 11.09
128 128 0	26.96 31.69 3.97	225 149 125	63.08 56.26 34.73
128 128 128	33.07 34.66 33.67	0 127 58	13.30 24.20 10.04
128 128 255	48.27 41.68 108.94	58 153 95	24.07 37.10 21.85
128 255 128	62.24 93.24 39.60	142 189 154	50.67 61.49 48.59
170 0 255	46.31 22.87 107.26	205 144 125	55.94 51.14 34.25
170 170 170	55.46 58.15 56.41	227 140 15	56.30 50.35 6.47
170 255 0	66.15 95.54 10.38	206 0 68	37.15 19.54 12.36
170 255 255	87.63 105.66 115.53	139 21 103	22.37 12.37 21.92
255 0 0	51.92 27.41 3.69	151 180 37	42.88 55.32 9.41
255 0 170	61.82 31.75 53.91	0 130 141	19.52 27.82 38.64
255 0 255	72.95 36.73 109.03	0 93 168	16.82 18.17 50.61
255 128 128	69.75 53.88 36.06	235 237 242	99.81 104.49 106.45
255 170 0	71.65 67.11 7.59	211 215 222	83.55 87.44 91.30
255 170 255	92.97 77.03 113.15	187 193 201	68.26 71.69 76.24
255 255 0	92.68 109.45 11.84	141 149 157	42.71 45.40 48.68
255 255 170	103.06 114.28 62.46	99 107 111	23.19 24.90 26.11
170 85 85	33.93 26.10 17.74	62 72 75	11.03 12.11 13.10
85 170 85	30.26 45.39 19.48	36 50 52	5.54 6.39 7.22