

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2010-3-29 21:06:26
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY2
EDID-Name: VP2365WB
EDID-Serial:
Profile: C:/WINDOWS/system32/spool/.../29.03.10-5800K-18-120cd-trc.icc
Created: 2010-3-29 21:02
Measurement device: eye-one pro

Summary

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

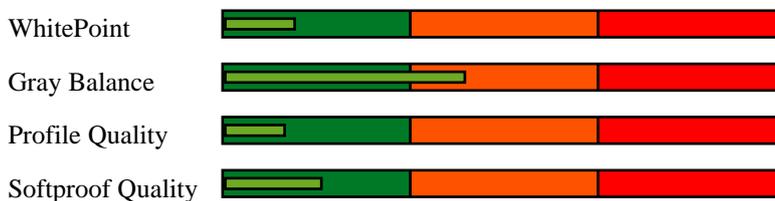
Calibration

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:	114.17 119.27 117.13
XYZ (normalized):	95.72 100.00 98.21
Luminance:	119.3 Cd/m2
Next Temperature:	5806 Kelvin
Assumed Target Whitepoint:	5800 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:	1.3 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	9336	0.16	1.22	1.30	
5	6412	0.59	4.43	0.78	1.91
10	5922	2.04	13.87	0.71	1.82
15	5790	4.15	21.88	0.43	1.80
20	5791	6.79	28.63	0.28	1.80
25	5776	9.90	34.60	0.34	1.81
30	5770	13.65	40.32	0.22	1.81
35	5809	18.13	45.91	0.26	1.81
40	5786	23.22	51.23	0.38	1.80
45	5802	28.31	55.82	0.58	1.81
50	5829	34.02	60.36	0.39	1.82
55	5807	40.38	64.85	0.26	1.82
60	5790	47.58	69.39	0.56	1.81
65	5787	54.60	73.40	0.61	1.83
70	5785	62.81	77.67	0.66	1.81
75	5801	71.08	81.62	0.80	1.82
80	5798	79.91	85.50	0.57	1.81
85	5804	88.35	88.96	0.57	1.87
90	5810	98.13	92.70	0.74	1.89
95	5806	108.36	96.35	0.70	1.94
100	5806	119.27	100.00	0.00	
Average	5804			0.48	1.83
Range				0.80	
Max				0.80	

Tone values = 92.4%

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	1.2 0.4 -1.2	-1.2 -0.4 1.2	1.8
0 0 128	16.7 31.9 -68.9	0.1 0.7 -1.2	1.4
0 0 255	33.1 49.5 -106.5	0.5 -0.1 0.4	0.7
0 128 0	50.8 -53.8 52.9	0.4 -0.3 1.1	1.2
0 128 128	53.6 -37.2 -10.7	0.1 0.5 -0.4	0.7
0 170 255	69.6 -28.0 -47.3	0.0 1.0 -0.1	1.0
0 255 0	85.5 -82.3 81.9	0.1 0.5 -0.2	0.6
0 255 170	87.4 -68.9 17.8	0.1 0.9 -0.7	1.1
0 255 255	89.3 -56.4 -17.0	0.1 0.9 0.0	0.9
85 85 85	44.2 0.0 -0.1	-0.2 -0.0 0.1	0.2
128 0 0	32.1 52.1 45.4	0.2 1.0 1.6	1.9
128 0 128	36.5 56.4 -36.6	0.3 0.4 0.1	0.5
128 128 0	58.4 -8.1 62.8	0.2 -0.0 0.4	0.5
128 128 128	60.8 -0.3 0.1	-0.1 0.3 -0.1	0.4
128 128 255	65.4 14.9 -53.8	-0.1 0.7 -0.1	0.7
128 255 128	90.1 -49.1 40.6	0.1 0.2 0.0	0.2
170 0 255	51.4 71.3 -76.0	0.2 0.3 0.3	0.5
170 170 170	75.1 -0.4 0.5	-0.1 0.4 -0.5	0.7
170 255 0	91.3 -41.1 89.4	0.1 -0.2 -0.5	0.5
170 255 255	94.7 -24.3 -8.4	0.0 0.1 0.1	0.2
255 0 0	57.3 80.0 73.5	-0.4 0.2 -1.0	1.1
255 0 170	60.6 83.1 -19.9	-0.1 -0.0 -0.6	0.7
255 0 255	64.0 85.9 -55.1	-0.1 0.0 -0.1	0.1
255 128 128	74.1 43.0 21.0	-0.2 -0.0 -0.2	0.3
255 170 0	80.4 21.8 85.3	-0.0 -0.4 -0.9	1.0
255 170 255	84.8 32.7 -22.7	-0.2 0.5 -0.4	0.7
255 255 0	96.9 -11.7 96.6	0.0 -0.5 -1.0	1.1
255 255 170	98.4 -5.9 34.1	-0.0 -0.2 -0.2	0.3
255 255 255	100.0 0.0 0.0	-0.0 0.0 -0.0	0.0
170 85 85	54.6 33.6 16.3	-0.2 0.2 0.1	0.3
85 170 85	67.4 -38.5 31.9	-0.1 -0.0 0.1	0.2
85 85 170	47.7 12.0 -41.7	-0.0 0.4 -0.7	0.7
85 170 170	69.3 -28.2 -8.6	-0.1 0.4 -0.6	0.7
170 85 170	57.2 39.2 -26.2	-0.1 0.4 -0.6	0.7
170 170 85	73.3 -6.8 40.8	-0.1 0.1 0.1	0.2
Average			0.7
Maximum			1.9

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	94 %
sRGB	96 %
AdobeRGB	78 %
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	57.6 -21.1 -45.1	16.8
66.9 -24.7 -37.1	66.7 -25.1 -36.9	0.5
79.7 -12.5 -21.8	79.8 -13.2 -21.2	0.9
48.0 74.0 -3.0	48.9 70.6 -1.9	3.7
60.8 50.6 -6.7	60.9 50.3 -6.3	0.5
76.4 25.8 -6.9	76.4 25.1 -6.3	0.9
89.0 -5.0 93.0	88.9 -5.0 90.0	3.0
90.3 -4.7 62.6	90.3 -4.8 62.3	0.3
92.2 -3.5 31.1	92.1 -3.7 31.4	0.3
53.1 37.7 28.9	53.3 37.4 28.5	0.5
41.5 22.7 16.8	41.9 22.2 16.6	0.6
31.9 40.0 24.0	32.5 39.0 23.7	1.2
32.5 44.4 -1.8	32.9 43.6 -1.8	0.9
51.3 1.3 44.5	51.6 0.9 44.3	0.5
34.6 -36.4 13.9	34.5 -35.1 13.5	1.4
36.0 -26.2 -20.9	36.6 -22.4 -19.3	4.2
20.9 9.6 -23.6	21.7 8.8 -22.0	2.0
89.0 0.0 -1.8	89.0 -0.5 -1.3	0.7
82.8 0.0 -1.7	82.9 -0.5 -1.2	0.7
69.3 0.0 -1.4	69.4 -0.4 -0.6	0.8
54.1 0.0 -1.0	54.4 -0.2 -0.7	0.5
36.6 -0.0 -0.5	36.8 -0.0 -0.3	0.2
16.0 0.0 0.0	17.4 -0.9 0.6	1.8
24.0 22.0 -46.0	24.6 20.9 -44.8	1.7
40.9 17.9 -36.6	41.1 17.3 -35.8	1.0
63.7 10.3 -23.8	63.6 10.0 -23.7	0.4
47.0 68.0 48.0	47.0 67.5 47.5	0.7
58.5 47.1 37.9	58.5 46.9 37.3	0.6
74.2 22.9 21.4	74.2 22.8 21.4	0.1
50.0 -65.0 27.0	51.6 -50.0 29.4	15.3
62.1 -39.8 21.0	62.2 -40.0 21.0	0.2
77.0 -19.1 11.0	77.0 -19.7 11.4	0.7
71.2 18.8 17.3	71.3 18.9 17.1	0.2
71.2 22.2 73.1	71.1 21.7 73.6	0.7
47.7 71.2 16.2	48.1 69.6 17.1	1.8
38.0 55.4 -20.9	37.8 54.8 -21.0	0.6
73.7 -22.8 67.6	73.7 -22.9 67.2	0.4
52.3 -52.3 -20.2	54.5 -35.7 -15.4	17.4
43.3 -17.0 -48.6	44.3 -11.6 -45.8	6.2
95.0 0.0 -2.0	95.0 -0.4 -1.6	0.5
88.5 -0.4 -3.1	88.6 -1.1 -2.8	0.8
82.0 -0.9 -4.1	82.0 -1.5 -3.4	0.9
67.7 -2.0 -4.4	67.7 -2.0 -4.1	0.2
52.2 -2.5 -3.5	52.5 -3.1 -2.9	0.9
37.5 -3.9 -3.1	37.6 -3.8 -3.2	0.1
26.3 -6.8 -3.4	26.8 -6.6 -3.5	0.6
Average		2.1
Gamut-Volume		94 %

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	114.17 119.27 117.13	85 85 170	22.41 20.02 51.13
0 0 0	0.17 0.16 0.25	85 170 170	36.15 47.66 55.19
12 12 12	0.54 0.59 0.60	170 85 170	41.29 30.05 52.07
25 25 25	1.92 2.04 1.98	170 170 85	48.48 54.20 21.08
38 38 38	3.95 4.15 4.02	0 131 209	25.20 30.99 74.69
51 51 51	6.48 6.79 6.62	47 160 222	34.73 43.81 84.80
63 63 63	9.45 9.90 9.62	140 194 233	59.33 67.55 94.82
76 76 76	13.07 13.65 13.32	200 0 103	38.92 20.57 21.70
89 89 89	17.31 18.13 17.73	210 82 143	50.73 34.57 39.45
102 102 102	22.17 23.22 22.62	221 153 190	69.42 60.26 66.77
114 114 114	26.98 28.31 27.55	239 221 0	79.29 87.40 10.54
127 127 127	32.45 34.02 33.34	239 225 85	83.21 91.24 25.60
140 140 140	38.59 40.38 39.53	237 230 157	89.04 96.18 54.28
153 153 153	45.41 47.58 46.32	174 78 63	34.01 25.07 11.00
165 165 165	52.11 54.60 53.12	116 65 56	18.08 14.71 8.44
178 178 178	59.94 62.81 61.08	111 29 30	13.65 8.56 3.16
191 191 191	67.74 71.08 69.17	113 24 64	14.96 8.86 9.42
204 204 204	76.28 79.91 77.94	119 103 32	22.25 23.42 5.42
216 216 216	84.32 88.35 86.25	0 78 44	5.52 9.87 5.78
229 229 229	93.57 98.13 95.74	0 78 98	8.10 11.23 19.48
242 242 242	103.37 108.36 105.73	38 33 67	4.77 4.15 9.71
0 0 128	5.52 2.92 29.00	215 216 220	84.46 88.46 88.74
0 0 255	19.06 9.90 102.77	194 195 199	70.46 73.85 74.06
0 128 0	11.32 22.74 3.36	152 153 155	45.39 47.55 47.30
0 128 128	16.94 25.95 32.67	110 110 112	25.53 26.70 26.65
0 170 255	38.39 48.81 108.80	68 68 69	10.74 11.22 11.15
0 255 0	39.55 79.85 11.21	30 30 30	2.67 2.85 2.70
0 255 170	48.71 84.71 60.13	43 30 108	7.34 5.24 22.21
0 255 255	58.82 90.07 114.60	83 66 139	17.30 14.38 35.50
85 85 85	15.94 16.65 16.38	140 128 184	40.80 38.66 61.05
128 0 0	15.54 8.28 0.76	197 11 27	34.81 18.68 3.39
128 0 128	21.07 11.10 30.28	208 81 61	44.64 31.17 11.11
128 128 0	27.12 31.24 3.95	221 149 126	62.90 55.71 35.32
128 128 128	33.00 34.59 33.88	0 128 54	12.60 23.63 9.54
128 128 255	46.73 41.86 107.53	62 155 92	23.74 36.63 21.47
128 255 128	61.14 91.24 41.83	143 190 153	50.42 61.54 48.35
170 0 255	45.40 23.87 104.41	202 144 126	55.72 50.51 34.69
170 170 170	55.07 57.71 56.10	220 142 18	55.75 49.95 6.42
170 255 0	66.22 93.90 12.21	200 0 72	37.23 19.75 12.03
170 255 255	85.62 104.16 115.98	136 16 105	21.63 11.82 21.65
255 0 0	55.34 29.38 2.23	148 182 31	42.80 54.91 9.52
255 0 170	64.41 34.00 51.72	0 130 140	18.12 27.02 37.64
255 0 255	74.40 39.21 105.88	0 91 168	15.05 17.12 49.29
255 128 128	72.43 55.45 35.64	236 237 242	99.95 104.60 105.30
255 170 0	74.32 67.65 7.53	211 215 222	83.19 87.48 89.91
255 170 255	93.83 78.30 111.30	188 193 201	68.36 72.07 75.10
255 255 0	94.95 109.06 13.23	142 149 157	42.27 44.82 47.88
255 255 170	104.21 113.99 63.27	99 107 111	22.90 24.64 25.97
170 85 85	34.83 26.68 17.19	63 72 75	10.76 11.79 12.79
85 170 85	29.68 44.25 20.29	37 50 52	5.18 6.01 6.77