

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2008-5-20 11:08:09
Report-Version: v1.2.2
Monitor-Name: \\.\DISPLAY2
Profile: C:/WINDOWS/.../VP2250wb UGRA 20.05.08-5800K-18-120cd-trc.icc
Created: 2008-5-20 11:02
Measurement device: DTP94-LCD mode

Summary

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

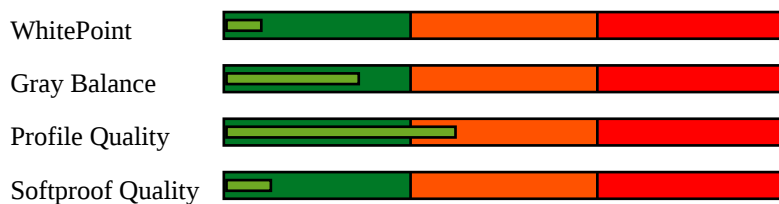
Calibration

White Point	yes
Gray balance	yes
Profile quality	no

Softproofing

MultiColor, HighBody	no
Offset/Gravure Paper Type 1/2	no
Offset on uncoated paper	no
Newspaper Printing	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 .

XYZ:	114.72 120.00 117.18
XYZ (normalized):	95.60 100.00 97.65
Luminance:	120.0 Cd/m2
Next Temperature:	5789 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.4 deltaE

Blackpoint

Luminance:	0.2 Cd/m2
Chromaticity:	1.5 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	12122	0.20	1.51	1.52	
5	6345	0.70	5.27	0.99	1.85
10	5779	2.00	13.63	0.95	1.84
15	5742	4.10	21.64	0.19	1.81
20	5743	6.70	28.34	0.21	1.81
25	5786	9.90	34.50	0.55	1.82
30	5831	13.70	40.27	0.77	1.82
35	5885	18.10	45.75	0.63	1.81
40	5742	23.30	51.17	0.35	1.80
45	5787	28.40	55.75	0.39	1.82
50	5741	34.60	60.63	0.72	1.81
55	5786	41.10	65.16	0.88	1.81
60	5742	48.20	69.59	0.44	1.80
65	5789	55.10	73.49	0.00	1.81
70	5881	62.80	77.48	0.89	1.82
75	5789	71.70	81.70	0.00	1.79
80	5789	80.40	85.50	0.00	1.80
85	5833	89.30	89.12	0.92	1.84
90	5837	98.20	92.50	0.56	1.88
95	5835	108.40	96.13	0.53	1.99
100	5789	120.00	100.00	0.00	
Average	5795			0.47	1.83
Range				1.43	

Tone values = 88.4%

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	1.5 -0.9 -1.3	-1.5 0.9 1.3	2.2
0 0 128	15.3 41.6 -72.4	2.6 -6.4 2.7	7.4
0 0 255	34.1 52.6 -107.4	1.2 0.5 2.0	2.4
0 128 0	49.0 -88.4 53.2	0.0 2.6 1.3	2.9
0 128 128	51.9 -59.1 -13.6	0.2 3.1 -1.1	3.3
0 170 255	68.0 -46.7 -52.1	0.1 4.8 0.5	4.8
0 255 0	82.2 -129.7 82.8	0.2 0.0 -0.3	0.4
0 255 170	84.2 -106.0 12.9	0.4 1.0 -0.5	1.2
0 255 255	86.6 -87.1 -22.9	0.3 2.5 0.6	2.6
85 85 85	44.2 -0.8 0.3	-0.2 0.8 -0.3	0.8
128 0 0	35.8 59.9 56.7	-0.3 1.6 1.5	2.2
128 0 128	39.4 66.6 -33.0	0.7 -1.7 1.1	2.2
128 128 0	58.8 -9.4 69.0	-0.3 -0.1 0.1	0.4
128 128 128	61.0 -0.3 0.7	-0.3 0.3 -0.7	0.8
128 128 255	66.1 14.8 -54.4	-0.3 3.0 -0.3	3.0
128 255 128	88.1 -68.9 39.4	0.0 -1.2 -0.6	1.3
170 0 255	54.7 80.2 -72.5	0.6 0.8 1.4	1.7
170 170 170	75.0 -0.0 -0.5	-0.0 0.0 0.5	0.5
170 255 0	89.8 -55.3 95.2	-0.1 -1.3 -1.3	1.8
170 255 255	93.6 -34.5 -10.9	-0.1 0.3 0.0	0.4
255 0 0	62.2 93.6 98.5	-0.3 -0.7 -2.5	2.6
255 0 170	64.9 97.8 -13.7	0.4 -2.3 1.2	2.6
255 0 255	68.5 98.8 -49.0	0.3 -0.7 0.8	1.1
255 128 128	76.5 54.0 26.6	-0.2 -0.3 -0.4	0.5
255 170 0	81.7 29.9 98.0	0.0 -1.0 -1.7	2.0
255 170 255	86.4 40.2 -21.0	-0.2 1.0 0.1	1.0
255 255 0	96.6 -12.7 106.4	-0.0 -1.6 -1.9	2.4
255 255 170	98.1 -5.7 34.9	0.1 -1.4 0.3	1.4
255 255 255	100.0 0.0 0.0	-0.0 0.0 -0.0	0.0
170 85 85	56.7 42.1 21.2	-0.4 0.2 -0.5	0.6
85 170 85	65.8 -56.5 30.8	-0.2 1.3 -0.3	1.3
85 85 170	47.6 14.5 -44.0	0.4 -0.5 1.0	1.2
85 170 170	67.7 -40.8 -12.8	0.1 0.6 0.8	1.0
170 85 170	59.1 48.8 -24.8	0.1 -0.9 0.8	1.2
170 170 85	73.4 -8.1 43.6	-0.3 0.4 -0.7	0.8
Average			1.8
Maximum			7.4

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	55.2 -34.6 -48.1	3.0
66.9 -24.7 -37.1	66.6 -25.8 -37.9	1.3
79.7 -12.5 -21.8	79.8 -13.0 -21.9	0.5
48.0 74.0 -3.0	47.9 74.4 -3.2	0.5
60.8 50.6 -6.7	60.7 52.1 -7.3	1.6
76.4 25.8 -6.9	76.5 25.9 -7.3	0.4
89.0 -5.0 93.0	89.1 -6.0 94.2	1.6
90.3 -4.7 62.6	90.4 -5.7 62.6	1.0
92.2 -3.5 31.1	92.0 -2.8 30.6	0.9
53.1 37.7 28.9	53.5 37.4 29.4	0.7
41.5 22.7 16.8	41.9 22.0 17.5	1.1
31.9 40.0 24.0	32.6 38.5 24.6	1.8
32.5 44.5 -1.8	32.7 44.5 -1.5	0.3
51.3 1.3 44.5	51.7 0.5 44.6	0.9
34.6 -36.4 13.9	35.0 -37.1 13.1	1.1
36.0 -26.2 -20.9	35.9 -27.0 -20.9	0.8
20.9 9.6 -23.6	21.2 10.3 -23.2	0.9
89.0 0.0 -1.9	89.2 -0.6 -1.8	0.7
82.8 0.0 -1.7	82.9 -0.2 -2.0	0.4
69.3 0.0 -1.4	69.5 -0.1 -0.9	0.5
54.1 0.0 -1.0	54.1 0.2 -1.0	0.2
36.6 0.0 -0.5	36.8 -0.3 -0.4	0.3
16.0 0.0 0.0	16.7 0.0 0.2	0.8
24.0 22.0 -46.0	23.8 23.6 -46.8	1.8
40.9 17.9 -36.6	40.3 19.1 -37.5	1.6
63.7 10.3 -23.8	63.8 10.1 -23.7	0.3
47.0 68.0 48.0	47.4 67.3 48.3	0.8
58.5 47.1 37.9	58.9 47.3 38.3	0.6
74.2 22.9 21.4	74.3 23.1 21.8	0.4
50.0 -65.0 27.0	50.5 -67.2 27.5	2.3
62.1 -39.8 21.0	62.5 -41.0 20.9	1.3
77.0 -19.1 11.0	77.2 -19.3 11.7	0.7
71.2 18.9 17.3	71.5 18.7 18.0	0.8
71.2 22.1 73.1	71.9 21.2 74.3	1.7
47.7 71.2 16.2	47.7 71.0 15.7	0.5
38.0 55.4 -20.9	37.8 56.2 -20.9	0.9
73.7 -22.8 67.6	74.3 -23.1 68.5	1.2
52.3 -52.3 -20.1	52.3 -55.2 -19.3	3.1
43.3 -17.0 -48.6	42.4 -17.1 -49.6	1.4
95.0 0.0 -2.0	94.8 -0.2 -2.3	0.4
88.5 -0.4 -3.1	88.7 -1.2 -3.1	0.9
82.0 -0.9 -4.1	82.0 -0.4 -4.6	0.7
67.7 -2.0 -4.4	67.7 -1.9 -4.5	0.1
52.2 -2.5 -3.5	52.6 -2.8 -3.4	0.5
37.5 -3.9 -3.1	37.7 -4.2 -3.1	0.4
26.3 -6.8 -3.4	26.5 -6.3 -3.1	0.6
Average		1.0
Gamut-Volume		100 %

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	114.72 120.00 117.18	85 85 170	23.10 20.10 53.44
0 0 0	0.17 0.20 0.29	85 170 170	30.73 45.50 56.81
12 12 12	0.64 0.70 0.70	170 85 170	47.81 32.50 53.99
25 25 25	1.88 2.00 1.88	170 170 85	48.23 54.60 19.59
38 38 38	3.92 4.10 3.97	0 129 205	20.11 28.40 73.38
51 51 51	6.42 6.70 6.52	82 159 219	34.53 43.90 85.99
63 63 63	9.41 9.90 9.55	153 193 231	59.72 68.00 95.96
76 76 76	12.98 13.70 13.26	172 11 103	38.92 19.70 21.46
89 89 89	17.30 18.10 17.99	186 87 143	51.37 34.50 40.04
102 102 102	22.28 23.30 22.55	206 155 190	70.25 60.70 68.06
114 114 114	27.07 28.40 27.57	238 221 26	79.54 88.40 9.21
127 127 127	32.99 34.60 33.29	238 225 93	83.36 92.00 25.51
140 140 140	39.06 41.10 39.66	237 230 160	89.75 96.50 55.00
153 153 153	46.09 48.20 46.65	156 81 65	34.50 25.50 10.84
165 165 165	52.68 55.10 53.81	106 66 57	18.13 14.80 8.18
178 178 178	59.67 62.80 61.70	97 33 32	13.75 8.70 3.06
191 191 191	68.55 71.70 70.02	98 28 64	15.05 8.80 9.23
204 204 204	76.86 80.40 78.51	116 103 37	22.41 23.70 5.41
216 216 216	84.86 89.30 86.95	34 77 45	5.54 10.20 6.06
229 229 229	93.87 98.20 96.76	25 77 97	7.33 10.90 19.75
242 242 242	103.31 108.40 106.17	36 33 66	4.72 4.00 9.80
0 0 128	5.85 2.60 29.79	215 216 220	85.36 89.60 90.13
0 0 255	20.59 10.50 107.07	194 195 199	70.99 74.30 75.18
0 128 0	6.19 21.20 2.81	152 153 155	45.97 48.10 47.82
0 128 128	12.15 24.30 32.58	110 110 112	25.40 26.50 26.50
0 170 255	31.13 46.50 112.17	68 68 69	10.77 11.30 11.17
0 255 0	22.12 72.90 8.83	30 30 30	2.58 2.70 2.61
0 255 170	31.97 77.80 59.36	38 31 106	7.34 5.00 22.62
0 255 255	42.85 84.00 116.63	77 66 137	17.11 13.90 35.82
85 85 85	15.92 16.80 16.26	136 129 182	41.33 39.20 61.50
128 0 0	20.33 10.40 0.40	170 28 33	35.42 19.10 3.36
128 0 128	26.42 13.00 31.23	186 86 65	45.58 31.80 10.95
128 128 0	27.30 31.90 2.98	206 151 128	63.59 56.30 35.21
128 128 128	33.46 35.10 33.77	34 126 55	9.53 22.70 9.57
128 128 255	48.04 43.20 110.62	92 153 94	23.86 37.20 21.79
128 255 128	49.47 86.80 39.79	156 189 153	51.05 62.20 48.31
170 0 255	54.44 27.60 108.31	190 145 127	56.31 51.20 34.32
170 170 170	55.35 57.90 57.05	206 144 33	57.26 51.60 6.58
170 255 0	57.06 90.60 9.09	172 21 74	37.34 19.50 12.31
170 255 255	78.06 101.80 116.94	117 24 104	22.08 11.90 21.63
255 0 0	71.60 35.80 0.76	159 181 41	43.81 56.30 9.42
255 0 170	81.45 40.20 53.13	0 128 139	13.16 24.80 37.65
255 0 255	92.15 46.20 108.71	10 90 165	12.95 15.70 49.85
255 128 128	83.96 60.20 34.48	236 237 242	100.04 104.70 105.94
255 170 0	81.88 70.70 4.88	212 215 221	83.93 88.40 90.77
255 170 255	103.00 82.40 113.15	189 193 201	69.22 72.50 76.65
255 255 0	93.95 108.80 9.33	143 149 156	42.61 45.20 48.33
255 255 170	104.01 113.80 61.79	101 107 111	23.09 24.80 26.36
170 85 85	40.60 29.20 16.59	65 72 74	10.80 11.90 12.82
85 170 85	23.43 42.10 19.35	41 50 51	5.09 5.90 6.51