

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2008-4-9 19:20:46
Report-Version: v1.2.2
Monitor-Name: \\.\DISPLAY1
Profile: C:/WINDOWS/System32/spool/DRIVERS/COLOR/ugra.icm
Created: 2008-4-9 19:04
Measurement device: DTP94-LCD mode

Summary

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

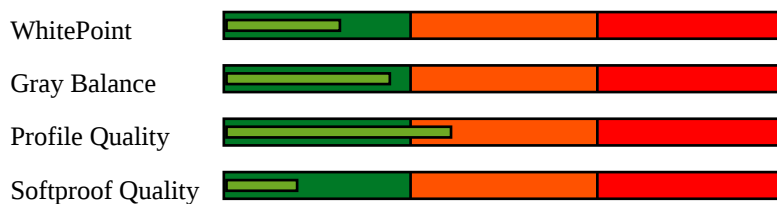
Calibration

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:	112.85 119.10 115.28
XYZ (normalized):	94.75 100.00 96.79
Luminance:	119.1 Cd/m2
Next Temperature:	5831 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	1.2 deltaE

Blackpoint

Luminance:	0.2 Cd/m2
Chromaticity:	0.8 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	5904	0.20	1.52	0.81	
5	6016	0.70	5.31	1.25	1.82
10	5989	1.90	13.20	0.98	1.84
15	5700	4.00	21.43	1.17	1.81
20	5746	6.70	28.45	1.23	1.80
25	5742	9.70	34.28	0.66	1.82
30	5697	13.70	40.41	0.99	1.81
35	5742	18.20	46.02	0.81	1.80
40	5787	23.30	51.34	0.59	1.79
45	5787	28.20	55.76	0.63	1.81
50	5789	34.00	60.38	1.05	1.81
55	5789	40.60	65.03	1.12	1.80
60	5835	48.00	69.68	0.93	1.77
65	5787	54.80	73.55	0.79	1.80
70	5833	62.60	77.62	0.51	1.80
75	5833	71.20	81.72	0.53	1.78
80	5835	80.00	85.59	1.10	1.76
85	5833	88.80	89.19	0.57	1.79
90	5837	97.50	92.51	1.77	1.82
95	5833	108.20	96.35	0.61	1.82
100	5831	119.10	100.00	0.00	
Average	5801			0.84	1.80
Range				1.77	

Tone values = 98.2%

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 0.6 -0.5	-1.5 -0.6 0.5	1.7
0 0 128	16.0 36.5 -69.2	1.5 -0.6 0.6	1.7
0 0 255	33.7 51.0 -104.8	1.0 3.2 1.1	3.6
0 128 0	48.5 -81.7 49.8	0.8 0.1 -2.4	2.6
0 128 128	51.0 -53.6 -16.5	1.1 -0.0 2.2	2.4
0 170 255	67.5 -42.6 -51.6	0.6 2.7 1.5	3.1
0 255 0	83.0 -125.1 78.7	-0.3 1.7 -7.1	7.3
0 255 170	84.9 -101.9 10.3	-0.1 1.5 0.7	1.7
0 255 255	87.0 -84.2 -22.6	0.0 3.1 0.8	3.2
85 85 85	44.3 0.8 0.0	-0.3 -0.8 -0.0	0.8
128 0 0	34.0 63.1 52.8	1.4 -2.9 3.7	4.9
128 0 128	38.6 68.1 -29.8	1.1 -3.9 -0.9	4.2
128 128 0	58.3 -11.5 63.8	0.2 2.0 -2.3	3.1
128 128 128	60.8 0.6 -0.5	-0.0 -0.6 0.5	0.8
128 128 255	65.9 18.4 -53.0	-0.3 -0.5 0.1	0.6
128 255 128	88.7 -67.4 34.9	-0.4 -0.3 0.8	1.0
170 0 255	54.3 84.6 -69.5	0.5 -4.2 0.3	4.2
170 170 170	75.2 0.4 0.2	-0.3 -0.4 -0.2	0.5
170 255 0	90.1 -57.0 89.5	-0.2 2.1 -6.7	7.1
170 255 255	94.0 -33.1 -10.1	-0.3 0.1 -0.5	0.6
255 0 0	60.0 96.7 91.3	1.6 -5.6 -0.6	5.9
255 0 170	63.5 99.7 -11.8	1.4 -5.7 0.5	5.9
255 0 255	67.1 102.3 -47.4	1.2 -5.4 1.0	5.6
255 128 128	76.1 53.3 25.3	0.1 -0.9 0.4	1.0
255 170 0	81.7 26.6 90.9	-0.0 1.3 -4.0	4.2
255 170 255	86.1 39.9 -19.5	-0.1 0.5 -0.4	0.6
255 255 0	96.6 -15.9 99.9	0.1 1.6 -6.9	7.1
255 255 170	98.3 -6.9 33.1	-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	56.5 42.1 20.5	-0.3 -0.9 -0.3	1.0
85 170 85	66.2 -53.1 27.6	-0.4 -0.2 0.5	0.7
85 85 170	48.2 14.8 -41.4	-0.3 -0.7 -0.3	0.8
85 170 170	68.3 -38.6 -11.6	-0.4 -0.1 -0.1	0.4
170 85 170	59.2 48.0 -22.6	-0.2 -0.9 -0.3	1.0
170 170 85	73.5 -7.4 39.6	-0.4 -0.4 0.5	0.7
Average			2.6
Maximum			7.3

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	54.9 -30.7 -51.0	6.4
66.9 -24.7 -37.1	67.2 -24.4 -37.8	0.9
79.7 -12.5 -21.8	80.0 -12.2 -22.1	0.6
48.0 74.0 -3.0	47.0 79.7 -2.9	5.8
60.8 50.6 -6.7	61.0 52.0 -7.0	1.4
76.4 25.8 -6.9	76.5 26.4 -6.9	0.6
89.0 -5.0 93.0	89.1 -6.0 93.1	1.0
90.3 -4.7 62.6	90.3 -3.4 61.8	1.5
92.2 -3.5 31.1	91.9 -2.3 30.3	1.5
53.1 37.7 28.9	53.4 38.2 28.9	0.6
41.5 22.7 16.8	41.8 23.3 16.6	0.6
31.9 40.0 24.0	31.7 41.2 22.8	1.7
32.5 44.5 -1.8	32.4 46.6 -2.0	2.2
51.3 1.3 44.5	51.9 0.9 45.1	1.0
34.6 -36.4 13.9	34.7 -35.9 13.3	0.8
36.0 -26.2 -20.9	35.8 -26.4 -21.9	1.0
20.9 9.6 -23.6	21.0 11.7 -23.9	2.1
89.0 0.0 -1.9	89.2 0.3 -2.0	0.4
82.8 0.0 -1.7	82.9 0.6 -2.2	0.8
69.3 0.0 -1.4	69.6 0.6 -1.5	0.7
54.1 0.0 -1.0	54.3 1.1 -1.0	1.1
36.6 0.0 -0.5	36.8 1.1 -0.6	1.1
16.0 0.0 0.0	16.4 0.3 -0.8	1.0
24.0 22.0 -46.0	23.7 23.4 -46.1	1.5
40.9 17.9 -36.6	41.0 19.1 -36.5	1.2
63.7 10.3 -23.8	63.8 11.5 -24.0	1.2
47.0 68.0 48.0	46.6 71.6 47.6	3.6
58.5 47.1 37.9	58.7 47.8 38.1	0.7
74.2 22.9 21.4	74.5 23.7 21.3	0.9
50.0 -65.0 27.0	49.9 -65.1 26.2	0.8
62.1 -39.8 21.0	62.4 -40.1 20.7	0.5
77.0 -19.1 11.0	77.3 -19.0 10.4	0.7
71.2 18.9 17.3	71.4 19.4 17.0	0.6
71.2 22.1 73.1	71.2 22.5 74.6	1.5
47.7 71.2 16.2	47.0 75.5 16.1	4.3
38.0 55.4 -20.9	37.6 58.7 -21.8	3.5
73.7 -22.8 67.6	74.1 -23.3 69.8	2.3
52.3 -52.3 -20.1	51.5 -49.9 -21.9	3.1
43.3 -17.0 -48.6	41.9 -15.6 -51.2	3.3
95.0 0.0 -2.0	95.1 0.7 -2.5	0.9
88.5 -0.4 -3.1	88.7 0.5 -4.0	1.3
82.0 -0.9 -4.1	82.2 -0.4 -4.1	0.6
67.7 -2.0 -4.4	67.9 -1.2 -4.6	0.8
52.2 -2.5 -3.5	52.4 -2.1 -3.2	0.5
37.5 -3.9 -3.1	37.6 -3.2 -3.3	0.7
26.3 -6.8 -3.4	26.6 -6.0 -3.7	0.9
Average		1.5
Gamut-Volume		98 %

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	112.85 119.10 115.28	85 85 170	23.23 20.40 50.81
0 0 0	0.21 0.20 0.23	85 170 170	31.44 46.10 55.69
12 12 12	0.69 0.70 0.75	170 85 170	46.89 32.30 51.05
25 25 25	1.82 1.90 1.93	170 170 85	47.96 54.40 21.56
38 38 38	3.87 4.00 3.93	0 129 208	20.37 27.90 75.18
51 51 51	6.46 6.70 6.60	78 159 222	35.15 44.60 86.05
63 63 63	9.27 9.70 9.39	151 193 233	59.44 67.90 95.28
76 76 76	13.14 13.70 13.22	174 3 105	38.83 18.60 20.07
89 89 89	17.40 18.20 17.61	188 86 145	51.00 34.50 39.50
102 102 102	22.21 23.30 22.62	207 154 191	69.53 60.30 66.59
114 114 114	26.88 28.20 27.38	239 221 0	78.41 87.90 9.49
127 127 127	32.50 34.00 33.20	239 225 83	83.02 91.00 25.54
140 140 140	38.81 40.60 39.65	237 230 156	88.45 95.60 54.36
153 153 153	45.75 48.00 47.01	158 81 64	34.05 25.10 10.77
165 165 165	52.24 54.80 53.20	107 66 56	18.04 14.60 8.26
178 178 178	59.49 62.60 60.95	98 32 32	13.34 8.10 3.03
191 191 191	67.66 71.20 69.33	99 28 65	14.92 8.50 9.02
204 204 204	76.25 80.00 78.36	117 103 31	22.31 23.70 5.28
216 216 216	84.39 88.80 86.46	33 77 43	5.45 10.00 5.83
229 229 229	93.20 97.50 96.07	22 77 98	7.24 10.80 19.86
242 242 242	102.82 108.20 105.35	36 33 68	4.69 3.90 9.72
0 0 128	5.51 2.70 27.79	215 216 220	84.44 88.90 88.90
0 0 255	19.42 10.10 99.96	194 195 199	70.40 73.90 74.34
0 128 0	6.51 20.60 3.18	152 153 155	45.64 47.90 47.76
0 128 128	12.23 23.30 33.20	110 110 112	25.41 26.50 26.27
0 170 255	30.94 45.30 107.91	68 68 69	10.77 11.20 11.07
0 255 0	23.60 74.50 10.66	30 30 30	2.48 2.60 2.63
0 255 170	33.54 79.20 62.87	37 31 109	7.13 4.90 21.76
0 255 255	43.59 84.50 115.43	77 67 139	17.39 14.30 35.45
85 85 85	15.97 16.70 16.16	136 129 184	41.26 39.00 61.04
128 0 0	19.09 9.20 0.46	173 25 32	35.27 18.20 3.23
128 0 128	25.52 12.30 27.61	188 85 63	44.86 31.30 10.78
128 128 0	25.83 31.10 3.70	208 151 127	63.21 56.10 35.24
128 128 128	32.88 34.50 33.79	31 126 51	9.31 22.00 9.51
128 128 255	48.09 42.40 105.80	91 153 90	23.62 36.90 21.48
128 255 128	50.33 87.90 44.13	155 189 152	50.54 62.00 48.92
170 0 255	54.49 26.70 100.44	191 145 126	55.52 50.60 34.44
170 170 170	55.03 57.90 55.87	207 143 20	55.70 50.00 6.15
170 255 0	56.02 91.00 11.24	174 18 75	37.27 18.60 11.52
170 255 255	78.20 102.10 114.79	118 23 107	22.10 11.60 21.54
255 0 0	67.53 32.40 1.01	159 181 25	42.74 55.60 8.78
255 0 170	77.98 37.60 47.90	0 128 139	13.21 23.80 38.06
255 0 255	89.16 43.30 100.33	0 90 168	12.64 15.20 49.71
255 128 128	81.45 58.90 34.43	236 237 242	99.84 104.80 105.42
255 170 0	79.03 70.30 6.55	212 215 222	83.51 87.70 90.58
255 170 255	100.51 81.10 108.04	189 193 201	68.51 72.40 75.21
255 255 0	90.81 108.30 11.59	143 149 156	42.39 45.10 47.94
255 255 170	102.25 113.70 63.41	101 107 111	22.75 24.50 25.67
170 85 85	39.74 28.70 16.47	65 72 75	10.74 11.80 12.68
85 170 85	24.29 42.50 21.21	40 50 51	5.07 5.90 6.58