

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2005-1-6 20:31:56
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY1
EDID-Name: Acer G24
EDID-Serial: LE9040057200
Profile: C:/WINDOWS/System32/spool/.../acer_g24_ugra_kalibration_1.icc
Created: 2005-1-6 20:15
Measurement device: DTP94-LCD mode (Intelli Proof 260 excellence)

Summary

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

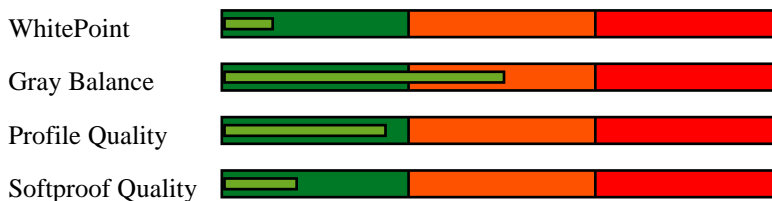
Calibration

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:	115.14 120.83 116.95
XYZ (normalized):	95.28 100.00 96.79
Luminance:	120.8 Cd/m ²
Next Temperature:	5776 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:	0.2 Cd/m ²
Chromaticity:	1.7 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/m ²	L	Chroma	Gamma
0	15098	0.17	1.25	1.66	
5	6251	0.65	4.83	0.67	1.88
10	5433	1.95	13.32	1.45	1.85
15	5553	3.87	20.83	0.89	1.85
20	5773	6.72	28.27	0.36	1.82
25	5761	9.92	34.41	0.80	1.82
30	5714	13.79	40.27	0.49	1.82
35	5807	18.50	46.05	1.15	1.81
40	5748	23.33	51.05	0.22	1.80
45	5798	28.56	55.72	0.37	1.81
50	5766	34.76	60.57	0.23	1.80
55	5719	40.95	64.87	0.67	1.81
60	5767	48.67	69.66	0.27	1.79
65	5712	55.42	73.46	0.54	1.82
70	5722	63.88	77.79	0.49	1.80
75	5793	72.65	81.91	0.46	1.76
80	5755	82.07	85.96	0.64	1.75
85	5803	90.93	89.51	0.26	1.75
90	5777	101.11	93.31	0.33	1.71
95	5776	111.40	96.90	0.00	1.59
100	5776	120.83	100.00	0.00	
Average	5734			0.51	1.79
Range				1.88	
Max				1.45	

Tone values = 91.1%

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	1.2 -0.1 -1.7	-1.2 0.1 1.7	2.1
0 0 128	13.4 54.8 -76.1	1.2 -2.2 1.3	2.8
0 0 255	30.6 75.1 -113.9	-0.3 4.5 0.8	4.6
0 128 0	49.3 -94.8 52.0	0.6 3.0 1.0	3.3
0 128 128	51.2 -57.6 -16.0	0.9 1.7 1.5	2.4
0 170 255	66.6 -38.9 -55.3	0.7 2.6 2.8	3.9
0 255 0	83.4 -140.0 83.3	0.3 1.2 -3.0	3.3
0 255 170	84.8 -110.4 12.7	0.5 1.1 0.3	1.3
0 255 255	86.8 -86.9 -23.4	0.2 2.3 1.5	2.8
85 85 85	44.4 0.3 0.1	-0.4 -0.3 -0.1	0.5
128 0 0	36.3 60.6 52.9	-0.9 1.1 4.5	4.8
128 0 128	39.4 71.4 -31.8	-0.7 -0.2 -1.6	1.8
128 128 0	59.4 -14.3 66.2	-0.4 1.1 0.9	1.5
128 128 128	61.0 0.1 0.1	-0.3 -0.1 -0.1	0.4
128 128 255	65.2 23.1 -57.1	-0.7 2.2 1.0	2.5
128 255 128	89.2 -74.6 40.1	-0.2 -0.6 -1.1	1.3
170 0 255	54.1 92.1 -74.1	-1.3 2.1 -0.4	2.6
170 170 170	75.2 0.9 -0.1	-0.3 -0.9 0.1	0.9
170 255 0	91.2 -63.2 94.5	-0.3 -0.3 -3.2	3.3
170 255 255	94.2 -34.3 -11.2	-0.6 0.1 0.5	0.7
255 0 0	62.9 94.4 95.5	-1.2 -0.9 -1.4	2.0
255 0 170	65.0 101.9 -11.6	-0.7 -1.2 -2.1	2.5
255 0 255	67.9 106.9 -50.2	-1.1 0.7 -0.3	1.3
255 128 128	77.1 54.7 27.4	-0.8 -0.8 -1.4	1.8
255 170 0	83.0 26.5 96.2	-0.8 -0.8 -2.7	2.9
255 170 255	86.4 44.0 -22.0	-0.8 0.7 0.4	1.2
255 255 0	98.2 -18.5 106.5	-0.7 -1.5 -5.0	5.2
255 255 170	99.3 -8.6 36.8	-0.5 -1.3 -1.5	2.1
255 255 255	100.0 0.0 0.0	0.0 0.0 -0.0	0.0
170 85 85	57.2 43.2 21.3	-0.9 -0.8 -0.9	1.5
85 170 85	66.3 -59.9 30.8	-0.0 0.6 -0.1	0.6
85 85 170	47.0 20.3 -44.9	-0.0 -0.5 0.7	0.8
85 170 170	67.7 -40.7 -12.7	0.2 0.5 0.9	1.0
170 85 170	59.0 53.2 -24.6	-0.7 -1.0 -0.3	1.2
170 170 85	74.0 -10.0 43.4	-0.5 -0.8 -0.7	1.2
Average			2.1
Maximum			5.2

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	98 %
sRGB	100 %
AdobeRGB	99 %
ECI-RGB v1.0	94 %

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	55.1 -29.4 -51.0	7.6
66.9 -24.7 -37.1	66.8 -26.1 -38.7	2.1
79.7 -12.5 -21.8	80.3 -14.1 -22.6	1.9
48.0 74.0 -3.0	49.2 74.8 -1.7	1.9
60.8 50.6 -6.7	61.5 51.6 -5.7	1.6
76.4 25.8 -6.9	77.0 26.4 -7.0	0.8
89.0 -5.0 93.0	89.9 -4.3 96.4	3.6
90.3 -4.7 62.6	91.1 -3.9 64.7	2.4
92.2 -3.5 31.1	92.8 -3.0 33.2	2.2
53.1 37.7 28.9	54.0 38.0 29.8	1.3
41.5 22.7 16.8	42.3 22.4 16.8	0.8
31.9 40.0 24.0	32.6 40.2 24.9	1.2
32.5 44.5 -1.8	33.3 44.9 -0.3	1.7
51.3 1.3 44.5	51.7 0.8 45.4	1.0
34.6 -36.4 13.9	34.7 -37.2 14.1	0.8
36.0 -26.2 -20.9	35.7 -27.3 -21.4	1.2
20.9 9.6 -23.6	21.1 10.2 -23.4	0.7
89.0 0.0 -1.9	89.7 -0.1 -1.8	0.8
82.8 0.0 -1.7	83.5 0.2 -2.5	1.1
69.3 0.0 -1.4	69.7 -0.3 -1.0	0.6
54.1 0.0 -1.0	54.0 1.2 -1.8	1.4
36.6 0.0 -0.5	37.0 -0.7 0.3	1.1
16.0 0.0 0.0	16.5 -0.3 0.3	0.6
24.0 22.0 -46.0	23.5 23.9 -47.3	2.3
40.9 17.9 -36.6	40.8 18.9 -37.3	1.2
63.7 10.3 -23.8	63.9 11.2 -25.2	1.7
47.0 68.0 48.0	48.3 68.5 49.4	2.0
58.5 47.1 37.9	59.4 48.1 39.6	2.1
74.2 22.9 21.4	74.8 24.3 22.2	1.7
50.0 -65.0 27.0	49.7 -67.2 27.3	2.3
62.1 -39.8 21.0	62.2 -39.8 20.8	0.3
77.0 -19.1 11.0	77.2 -18.7 11.2	0.5
71.2 18.9 17.3	71.8 19.3 17.7	0.8
71.2 22.1 73.1	71.9 24.0 74.8	2.6
47.7 71.2 16.2	48.8 71.8 18.3	2.4
38.0 55.4 -20.9	38.6 56.3 -20.5	1.2
73.7 -22.8 67.6	74.2 -22.1 69.7	2.3
52.3 -52.3 -20.1	51.4 -53.3 -21.2	1.7
43.3 -17.0 -48.6	42.5 -15.1 -50.2	2.7
95.0 0.0 -2.0	95.9 0.6 -2.3	1.1
88.5 -0.4 -3.1	89.4 -0.2 -3.3	0.9
82.0 -0.9 -4.1	82.5 -0.9 -4.1	0.6
67.7 -2.0 -4.4	67.9 -2.4 -4.5	0.5
52.2 -2.5 -3.5	52.3 -2.1 -3.7	0.4
37.5 -3.9 -3.1	37.6 -4.5 -3.2	0.7
26.3 -6.8 -3.4	26.2 -5.9 -3.0	1.0
Average		1.6
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	115.14 120.83 116.95	85 85 170	23.84 19.61 53.07
0 0 0	0.16 0.17 0.29	85 170 170	30.82 45.81 56.61
12 12 12	0.60 0.65 0.65	170 85 170	49.50 32.55 53.52
25 25 25	1.85 1.95 1.73	170 170 85	48.79 56.20 20.25
38 38 38	3.69 3.87 3.59	0 133 206	21.16 28.45 76.60
51 51 51	6.37 6.72 6.44	78 162 220	34.84 44.59 87.63
63 63 63	9.37 9.92 9.42	151 195 231	60.42 69.57 98.24
76 76 76	13.12 13.79 13.15	171 25 104	41.14 21.05 21.83
89 89 89	17.43 18.50 17.63	185 91 143	52.73 35.78 39.69
102 102 102	22.28 23.33 22.55	205 157 190	71.93 62.18 68.63
114 114 114	27.26 28.56 27.86	242 215 17	82.79 91.17 8.95
127 127 127	33.18 34.76 33.70	241 220 91	86.27 94.37 24.87
140 140 140	39.25 40.95 39.64	239 227 159	92.08 99.44 53.65
153 153 153	46.31 48.67 46.90	157 81 65	35.57 26.27 11.01
165 165 165	52.99 55.42 53.31	106 66 57	18.63 15.19 8.56
178 178 178	60.93 63.88 61.29	97 33 32	14.10 8.73 3.01
191 191 191	69.35 72.65 70.80	98 31 64	15.64 9.18 9.15
204 204 204	78.00 82.07 78.72	117 100 35	22.52 23.81 5.22
216 216 216	86.57 90.93 88.34	36 76 44	5.42 10.10 5.69
229 229 229	96.18 101.11 97.56	23 78 97	7.23 10.86 19.79
242 242 242	106.15 111.40 107.82	35 36 67	4.70 4.00 9.80
0 0 128	6.27 2.17 29.91	215 216 220	87.16 91.50 91.23
0 0 255	22.09 8.59 107.64	194 195 199	72.81 76.21 77.06
0 128 0	5.71 21.69 3.08	152 153 155	46.28 48.67 48.06
0 128 128	11.99 23.79 33.51	110 110 112	25.63 26.56 26.86
0 170 255	31.63 44.52 113.15	68 68 69	10.86 11.50 11.04
0 255 0	21.04 76.40 9.39	30 30 30	2.50 2.65 2.53
0 255 170	31.62 80.01 60.80	34 37 107	7.26 4.93 22.62
0 255 255	43.23 85.05 117.92	75 71 138	17.51 14.35 36.28
85 85 85	16.26 17.02 16.41	135 132 183	42.07 39.63 63.36
128 0 0	21.10 10.78 0.75	171 29 33	37.27 20.09 3.44
128 0 128	27.79 13.08 30.35	186 85 64	46.87 32.62 10.79
128 128 0	26.86 32.99 3.64	207 150 128	65.35 57.51 35.42
128 128 128	33.75 35.38 34.15	39 123 54	9.09 22.03 9.14
128 128 255	49.76 41.95 112.23	95 150 93	23.97 37.11 21.57
128 255 128	49.17 90.20 40.68	157 187 153	51.63 62.79 48.76
170 0 255	58.33 26.88 108.77	190 145 127	57.30 52.04 34.86
170 170 170	56.38 58.77 56.99	208 140 30	58.81 51.98 6.49
170 255 0	56.45 95.01 10.16	172 27 74	39.36 20.66 12.03
170 255 255	79.71 104.14 118.97	116 33 105	22.94 12.48 22.10
255 0 0	73.85 36.94 1.07	162 176 38	44.10 56.42 8.93
255 0 170	84.11 40.42 50.92	0 128 139	12.90 24.05 37.94
255 0 255	95.89 45.45 108.88	0 95 166	13.34 15.87 50.53
255 128 128	86.02 61.62 34.52	236 237 242	103.79 108.41 108.80
255 170 0	83.64 74.28 5.83	212 215 221	86.31 90.62 92.50
255 170 255	105.88 82.91 114.63	189 193 201	70.27 74.09 76.99
255 255 0	95.13 114.48 10.26	143 149 156	42.84 45.78 48.55
255 255 170	105.70 118.09 61.76	101 107 111	23.08 24.70 26.18
170 85 85	41.88 29.93 16.85	65 72 75	10.76 11.96 12.79
85 170 85	23.21 43.21 19.79	41 50 51	5.04 5.82 6.34