

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2008-7-16 21:40:09
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY2
EDID-Name: SyncMaster
EDID-Serial: HS3Q600209
Profile: C:/WINDOWS/System32/spool/DRIVERS/COLOR/2263DX_UGRA.icc
Created: 2008-7-16 21:33
Measurement device: DTP94-CRT mode

Summary

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

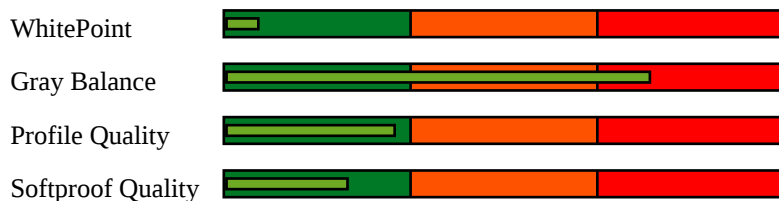
Calibration

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:	132.95 139.50 136.64
XYZ (normalized):	95.31 100.00 97.95
Luminance:	139.5 Cd/m2
Next Temperature:	5835 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.3 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:	3.8 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	0	0.20	1.30	3.82	
5	7469	1.00	6.48	2.66	1.74
10	5833	2.50	14.36	0.16	1.81
15	5835	4.80	21.73	0.00	1.81
20	5924	8.20	29.10	0.59	1.79
25	5878	11.60	34.63	0.44	1.81
30	5787	16.10	40.48	0.29	1.81
35	5743	21.30	46.00	0.59	1.80
40	5741	27.30	51.35	0.69	1.80
45	5881	33.40	56.03	0.34	1.80
50	5786	40.20	60.62	0.72	1.81
55	5833	47.50	65.00	0.44	1.81
60	5786	55.20	69.16	0.80	1.83
65	5833	63.30	73.14	0.48	1.85
70	5833	72.50	77.26	0.50	1.85
75	5742	82.80	81.49	0.81	1.83
80	5787	93.10	85.37	0.52	1.83
85	5786	103.60	89.05	0.99	1.87
90	5741	114.80	92.70	1.12	1.91
95	5697	126.30	96.22	1.40	2.00
100	5835	139.50	100.00	0.00	
Average	5804			0.57	1.83
Range				1.87	
Max				1.40	

Tone values = 86.5%

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: CAT02

RGB	Lab	deltaLab	deltaE
0 0 0	1.3 0.7 -3.8	-1.3 -0.7 3.8	4.0
0 0 128	12.0 47.8 -73.4	0.1 -0.9 -0.5	1.1
0 0 255	26.2 71.8 -112.2	0.4 -0.9 0.4	1.0
0 128 0	51.0 -63.3 40.2	0.3 1.4 2.5	2.9
0 128 128	52.4 -42.5 -12.1	0.5 0.9 0.3	1.1
0 170 255	66.8 -28.7 -49.6	0.8 -0.7 2.5	2.7
0 255 0	85.6 -92.7 66.6	0.2 -0.8 -2.0	2.2
0 255 170	86.6 -77.1 15.3	0.3 -0.6 -2.0	2.1
0 255 255	87.9 -61.9 -18.6	0.3 -1.0 0.7	1.2
85 85 85	44.1 0.0 0.3	-0.1 -0.0 -0.3	0.3
128 0 0	34.4 53.1 37.2	-0.6 1.0 5.3	5.5
128 0 128	37.2 62.0 -31.1	-0.5 0.2 -2.3	2.3
128 128 0	59.7 -10.8 49.6	-0.3 1.1 2.3	2.5
128 128 128	60.9 -0.3 0.7	-0.2 0.3 -0.7	0.8
128 128 255	63.9 19.7 -53.3	-0.2 -0.1 1.0	1.0
128 255 128	90.4 -54.5 36.7	-0.1 -0.8 -2.0	2.2
170 0 255	50.0 82.8 -73.1	-0.2 -0.3 -0.1	0.4
170 170 170	74.8 0.1 0.9	0.2 -0.1 -0.9	1.0
170 255 0	92.2 -46.7 73.8	-0.1 0.0 -2.0	2.0
170 255 255	94.4 -25.7 -8.6	-0.2 -1.0 -0.1	1.0
255 0 0	59.2 81.7 68.3	0.2 0.1 -3.9	3.9
255 0 170	61.1 88.1 -12.4	0.4 -0.0 -3.4	3.5
255 0 255	63.4 94.4 -50.3	0.4 -0.3 -0.2	0.5
255 128 128	74.9 44.7 22.8	0.2 0.6 -1.7	1.8
255 170 0	81.5 21.0 71.9	0.3 0.6 -1.1	1.3
255 170 255	84.1 36.5 -21.4	0.4 0.2 0.7	0.8
255 255 0	98.0 -15.2 81.9	0.1 0.6 -3.4	3.4
255 255 170	98.9 -7.5 33.9	0.1 0.2 -3.3	3.3
255 255 255	100.0 0.0 0.0	0.0 0.0 -0.0	0.0
170 85 85	55.5 35.6 17.2	-0.2 0.1 -0.6	0.6
85 170 85	67.1 -43.8 27.1	0.2 0.2 0.2	0.4
85 85 170	46.1 15.2 -39.8	0.2 0.2 -1.4	1.5
85 170 170	68.2 -31.5 -8.7	0.3 0.4 -1.0	1.1
170 85 170	57.0 43.6 -22.5	0.0 0.1 -1.7	1.7
170 170 85	73.7 -8.0 36.5	0.1 -0.0 -0.3	0.3
Average			1.8
Maximum			5.5

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	90 %
sRGB	93 %
AdobeRGB	82 %
ECI-RGB v1.0	72 %

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	56.7 -23.3 -46.6	14.3
66.9 -24.7 -37.1	66.4 -24.8 -37.8	0.9
79.7 -12.5 -21.8	79.4 -11.8 -23.0	1.5
48.0 74.0 -3.0	49.0 72.3 -0.1	3.5
60.8 50.6 -6.7	60.9 50.7 -4.7	2.1
76.4 25.8 -6.9	75.9 26.5 -6.6	0.9
89.0 -5.0 93.0	89.1 -3.4 74.8	18.3
90.3 -4.7 62.6	90.1 -4.5 64.2	1.7
92.2 -3.5 31.1	92.3 -3.0 33.7	2.6
53.1 37.7 28.9	53.3 36.9 28.5	0.9
41.5 22.7 16.8	42.0 22.9 16.2	0.7
31.9 40.0 24.0	32.6 39.3 22.6	1.7
32.5 44.5 -1.8	33.4 44.0 -0.9	1.3
51.3 1.3 44.5	51.6 1.3 42.1	2.5
34.6 -36.4 13.9	34.6 -36.8 13.0	1.0
36.0 -26.2 -20.9	35.7 -25.0 -20.3	1.3
20.9 9.6 -23.6	21.3 9.3 -22.3	1.4
89.0 0.0 -1.9	88.9 -0.1 -1.1	0.8
82.8 0.0 -1.7	82.5 0.8 -1.2	1.0
69.3 0.0 -1.4	68.9 -0.5 -1.0	0.7
54.1 0.0 -1.0	54.3 0.2 -1.0	0.2
36.6 0.0 -0.5	36.5 0.9 -0.4	0.9
16.0 0.0 0.0	17.0 -0.3 0.2	1.0
24.0 22.0 -46.0	24.1 22.2 -45.2	0.8
40.9 17.9 -36.6	40.4 18.6 -36.1	1.0
63.7 10.3 -23.8	63.3 10.0 -23.4	0.6
47.0 68.0 48.0	47.6 67.7 47.3	1.0
58.5 47.1 37.9	58.8 46.7 38.5	0.8
74.2 22.9 21.4	73.9 23.3 21.4	0.5
50.0 -65.0 27.0	50.4 -58.9 27.1	6.1
62.1 -39.8 21.0	62.0 -40.1 21.0	0.3
77.0 -19.1 11.0	76.6 -19.6 11.6	0.9
71.2 18.9 17.3	71.1 19.0 17.2	0.2
71.2 22.1 73.1	71.2 21.9 62.8	10.3
47.7 71.2 16.2	48.4 70.3 18.8	2.8
38.0 55.4 -20.9	38.6 54.8 -19.0	2.1
73.7 -22.8 67.6	73.5 -23.1 59.3	8.3
52.3 -52.3 -20.1	53.2 -39.9 -17.9	12.7
43.3 -17.0 -48.6	43.7 -12.0 -47.1	5.3
95.0 0.0 -2.0	94.7 -0.1 -1.2	0.9
88.5 -0.4 -3.1	88.3 -0.3 -2.7	0.5
82.0 -0.9 -4.1	81.5 0.1 -3.4	1.3
67.7 -2.0 -4.4	67.2 -2.6 -3.5	1.2
52.2 -2.5 -3.5	52.4 -2.2 -3.6	0.3
37.5 -3.9 -3.1	37.1 -3.4 -3.1	0.6
26.3 -6.8 -3.4	26.7 -6.7 -3.1	0.6
Average		2.6
Gamut-Volume		90 %

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	132.95 139.50 136.64	85 85 170	25.13 21.80 54.00
0 0 0	0.22 0.20 0.52	85 170 170	39.27 53.70 62.24
12 12 12	0.94 1.00 1.21	170 85 170	49.48 34.90 55.78
25 25 25	2.38 2.50 2.43	170 170 85	56.73 64.20 28.37
38 38 38	4.57 4.80 4.70	0 136 216	27.86 35.20 86.73
51 51 51	7.74 8.20 8.03	58 164 228	40.07 50.70 99.12
63 63 63	10.99 11.60 11.33	144 196 237	69.11 78.20 112.49
76 76 76	15.35 16.10 15.63	190 0 106	46.23 24.20 24.11
89 89 89	20.43 21.30 20.74	201 85 146	59.23 40.40 44.14
102 102 102	26.03 27.30 26.27	215 154 193	80.40 69.30 76.77
114 114 114	31.73 33.40 32.81	241 215 0	94.09 102.80 20.91
127 127 127	38.21 40.20 38.79	240 220 59	96.42 105.90 28.90
140 140 140	45.14 47.50 46.25	238 227 148	104.44 112.80 61.27
153 153 153	52.46 55.20 53.27	168 77 58	39.55 29.40 12.94
165 165 165	60.15 63.30 61.63	113 64 54	21.34 17.30 10.09
178 178 178	68.90 72.50 70.59	106 28 28	16.10 10.10 3.95
191 191 191	79.17 82.80 80.14	108 26 65	17.99 10.70 10.94
204 204 204	88.74 93.10 90.38	119 100 15	26.07 27.40 7.15
216 216 216	98.47 103.60 99.98	18 77 41	6.27 11.60 7.02
229 229 229	109.44 114.80 110.45	0 79 100	8.59 12.50 22.31
242 242 242	121.13 126.30 121.87	36 35 70	5.42 4.70 11.05
0 0 128	6.00 2.30 30.68	215 216 221	98.42 103.30 103.00
0 0 255	20.57 7.90 107.74	194 195 199	81.86 85.40 85.40
0 128 0	11.75 26.80 7.34	152 153 156	52.05 54.80 54.80
0 128 128	17.56 28.90 37.55	110 110 112	29.62 31.00 31.09
0 170 255	40.15 51.90 121.53	68 68 69	12.44 12.90 12.82
0 255 0	42.10 93.50 22.07	30 30 30	3.03 3.20 3.10
0 255 170	51.65 96.90 72.18	39 36 113	8.52 6.00 25.48
0 255 255	62.79 101.30 132.10	79 70 144	19.82 16.30 40.41
85 85 85	18.49 19.40 18.83	138 131 188	47.17 44.90 70.02
128 0 0	20.60 11.20 2.14	188 6 19	41.65 22.50 4.24
128 0 128	26.71 13.50 31.60	201 80 54	52.40 36.80 12.74
128 128 0	32.48 38.40 9.12	216 148 122	72.87 64.50 40.80
128 128 128	38.68 40.70 39.28	0 126 45	12.23 26.20 11.48
128 128 255	53.62 46.40 118.85	76 153 86	27.19 42.30 24.93
128 255 128	68.98 107.50 54.21	148 189 149	57.82 70.90 55.43
170 0 255	55.11 26.40 111.19	198 143 123	64.59 58.70 40.22
170 170 170	63.68 66.80 64.27	216 138 0	65.27 58.50 11.65
170 255 0	76.14 112.40 24.74	190 0 72	44.13 23.40 13.44
170 255 255	97.68 120.60 134.35	129 24 109	26.13 14.50 24.69
255 0 0	69.55 37.10 4.10	154 178 0	49.22 63.50 14.79
255 0 170	78.96 40.60 52.47	0 131 143	18.94 29.90 44.01
255 0 255	90.05 44.90 111.76	0 96 175	17.06 19.60 57.58
255 128 128	87.37 66.50 41.15	236 237 242	115.48 121.20 120.84
255 170 0	89.18 81.90 15.48	212 215 222	96.76 101.60 104.02
255 170 255	109.90 89.80 124.49	188 193 202	79.18 82.90 86.13
255 255 0	111.57 131.20 26.08	142 150 157	48.21 51.60 54.22
255 255 170	121.52 134.80 75.70	100 107 112	26.71 28.60 30.58
170 85 85	42.72 32.40 20.45	64 72 75	12.24 13.40 14.48
85 170 85	32.51 51.20 26.87	39 50 52	5.99 7.00 7.72