

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2008-1-13 11:01:09
Report-Version: v1.2.2
Monitor-Name: \\.\DISPLAY1
Profile: C:/WINDOWS/.../Dell 3008_14_13.01.08-5800K-18-120cd-trc.icc
Created: 2008-1-13 10:54
Measurement device: DTP94-LCD mode (Intelli Proof 260 excellence)

Summary

The monitor has passed the certification according to the UGRA DACT specifications.

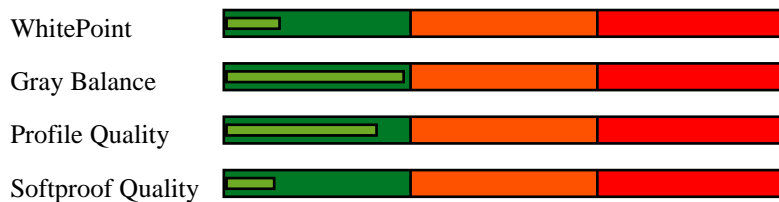
Calibration

White Point	yes
Gray balance	yes
Profile quality	yes

Softproofing

MultiColor, HighBody	yes
Offset/Gravure Paper Type 1/2	yes
Offset on uncoated paper	yes
Newspaper Printing	yes

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:	113.68 118.78 116.11
XYZ (normalized):	95.71 100.00 97.76
Luminance:	118.8 Cd/m2
Next Temperature:	5783 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.6 deltaE

Blackpoint

Luminance:	0.2 Cd/m2
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/m2	L	Chroma	Gamma
0	10963	0.24	1.84	1.72	
5	7132	0.75	5.71	1.80	1.83
10	5804	2.05	14.00	0.29	1.83
15	5693	3.94	21.26	0.94	1.83
20	5785	6.87	28.87	0.35	1.80
25	5877	9.62	34.20	0.44	1.83
30	5726	13.53	40.23	0.47	1.82
35	5860	18.12	45.98	0.98	1.81
40	5837	22.90	51.01	0.89	1.81
45	5756	28.09	55.74	0.29	1.82
50	5751	34.20	60.60	0.22	1.81
55	5785	40.85	65.27	0.68	1.80
60	5803	47.76	69.62	0.37	1.79
65	5807	54.70	73.58	0.38	1.81
70	5839	62.54	77.67	0.47	1.80
75	5799	71.25	81.83	0.68	1.79
80	5806	79.92	85.65	0.24	1.78
85	5787	88.84	89.30	0.29	1.78
90	5840	98.65	93.04	0.64	1.77
95	5794	109.16	96.78	0.68	1.71
100	5783	118.78	100.00	0.00	
Average	5796			0.49	1.80
Range				1.92	

Tone values = 93.6%

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	1.8 -0.3 -1.7	-1.8 0.3 1.7	2.5
0 0 128	11.9 62.1 -80.1	-0.2 -0.4 -0.1	0.5
0 0 255	25.2 97.2 -123.5	0.7 -3.9 2.2	4.6
0 128 0	51.3 -97.3 57.0	-0.1 2.2 0.9	2.4
0 128 128	52.9 -61.7 -12.6	-0.1 2.4 -0.7	2.5
0 170 255	67.6 -41.2 -52.6	-0.2 2.1 0.0	2.1
0 255 0	86.0 -148.5 88.8	-0.3 4.7 -1.2	4.9
0 255 170	87.0 -118.8 17.1	-0.2 4.2 -0.8	4.2
0 255 255	88.1 -93.0 -19.9	-0.2 3.3 -0.1	3.3
85 85 85	44.9 -1.5 0.3	-0.9 1.5 -0.3	1.8
128 0 0	34.9 67.3 52.3	-0.7 0.0 2.1	2.2
128 0 128	37.3 79.6 -37.3	-0.4 -1.0 -0.0	1.1
128 128 0	59.9 -13.6 70.1	-0.4 -0.3 -0.2	0.5
128 128 128	61.2 0.3 0.1	-0.5 -0.3 -0.1	0.5
128 128 255	63.9 28.0 -58.6	-0.3 -0.7 0.4	0.8
128 255 128	90.6 -80.7 43.2	-0.4 1.5 -1.0	1.8
170 0 255	49.3 106.9 -82.2	0.5 -1.9 1.7	2.6
170 170 170	75.2 -0.8 -0.1	-0.3 0.9 0.1	0.9
170 255 0	92.3 -68.6 98.5	-0.2 2.0 -1.5	2.5
170 255 255	94.1 -37.7 -9.5	-0.0 1.3 -0.3	1.4
255 0 0	60.4 102.6 88.7	-0.5 -0.7 -0.9	1.3
255 0 170	61.9 111.7 -19.0	-0.0 -1.2 0.4	1.2
255 0 255	63.8 120.4 -57.1	0.1 -1.6 0.7	1.8
255 128 128	75.7 58.6 24.2	-0.3 -0.5 -0.1	0.6
255 170 0	82.4 27.5 96.9	-0.3 -0.1 -1.7	1.8
255 170 255	84.8 48.1 -23.2	-0.2 0.2 -0.5	0.5
255 255 0	98.4 -21.7 108.0	-0.2 0.6 -2.2	2.3
255 255 170	99.2 -11.1 36.6	-0.2 0.6 -0.2	0.7
255 255 255	100.0 0.0 -0.0	-0.0 0.0 0.0	0.0
170 85 85	56.1 44.4 19.0	-0.5 1.3 0.0	1.4
85 170 85	67.5 -63.9 33.3	-0.2 1.6 0.1	1.6
85 85 170	46.9 20.2 -45.3	-0.6 1.3 -0.6	1.6
85 170 170	68.7 -44.2 -10.8	-0.3 1.4 -0.1	1.4
170 85 170	57.7 55.7 -27.3	-0.5 0.9 -0.1	1.1
170 170 85	74.3 -12.8 44.1	-0.4 1.3 -0.0	1.4
Average			1.8
Maximum			4.9

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	55.7 -32.0 -48.4	5.3
66.9 -24.7 -37.1	67.1 -26.3 -36.6	1.6
79.7 -12.5 -21.8	79.9 -13.1 -21.7	0.6
48.0 74.0 -3.0	48.3 74.3 -2.7	0.5
60.8 50.6 -6.7	61.5 50.5 -6.1	0.9
76.4 25.8 -6.9	76.7 26.2 -7.2	0.6
89.0 -5.0 93.0	89.5 -5.6 94.9	2.1
90.3 -4.7 62.6	90.8 -4.8 62.5	0.5
92.2 -3.5 31.1	92.7 -4.3 31.2	1.0
53.1 37.7 28.9	53.8 37.1 29.8	1.2
41.5 22.7 16.8	42.0 22.6 16.6	0.5
31.9 40.0 24.0	31.8 39.1 23.0	1.3
32.5 44.5 -1.8	32.6 43.8 -2.0	0.7
51.3 1.3 44.5	51.7 1.7 44.3	0.7
34.6 -36.4 13.9	34.9 -37.3 13.0	1.2
36.0 -26.2 -20.9	36.2 -27.2 -20.1	1.3
20.9 9.6 -23.6	21.3 9.4 -23.1	0.7
89.0 0.0 -1.9	89.2 0.2 -1.9	0.3
82.8 0.0 -1.7	83.1 -0.0 -1.6	0.3
69.3 0.0 -1.4	69.5 -0.1 -1.3	0.2
54.1 0.0 -1.0	54.3 0.5 -1.3	0.6
36.6 0.0 -0.5	36.7 0.4 -0.8	0.4
16.0 0.0 0.0	16.8 0.2 -0.5	1.0
24.0 22.0 -46.0	24.2 22.3 -46.1	0.4
40.9 17.9 -36.6	41.1 17.7 -36.4	0.4
63.7 10.3 -23.8	63.7 10.6 -23.6	0.4
47.0 68.0 48.0	47.3 68.4 47.2	0.9
58.5 47.1 37.9	58.9 46.8 37.9	0.5
74.2 22.9 21.4	74.4 23.0 21.4	0.3
50.0 -65.0 27.0	50.1 -66.9 28.0	2.1
62.1 -39.8 21.0	62.2 -41.2 20.4	1.5
77.0 -19.1 11.0	77.0 -18.8 10.6	0.5
71.2 18.9 17.3	71.5 19.0 17.3	0.3
71.2 22.1 73.1	71.7 22.2 74.0	1.0
47.7 71.2 16.2	48.0 71.8 16.0	0.7
38.0 55.4 -20.9	38.4 55.9 -21.1	0.6
73.7 -22.8 67.6	74.2 -24.1 68.9	1.9
52.3 -52.3 -20.1	52.4 -54.9 -19.7	2.6
43.3 -17.0 -48.6	43.1 -17.4 -48.3	0.6
95.0 0.0 -2.0	95.3 -1.0 -2.0	1.1
88.5 -0.4 -3.1	88.8 -1.2 -2.8	0.9
82.0 -0.9 -4.1	82.1 -0.9 -4.6	0.5
67.7 -2.0 -4.4	67.9 -1.3 -4.2	0.7
52.2 -2.5 -3.5	52.6 -3.8 -3.3	1.4
37.5 -3.9 -3.1	38.0 -5.9 -1.8	2.5
26.3 -6.8 -3.4	27.5 -7.8 -2.0	2.1
Average		1.0
Gamut-Volume		99 %

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	113.68 118.78 116.11	85 85 170	23.43 19.18 52.91
0 0 0	0.22 0.24 0.36	85 170 170	30.69 46.66 56.00
12 12 12	0.69 0.75 0.84	170 85 170	47.73 30.39 53.64
25 25 25	1.95 2.05 1.99	170 170 85	47.55 55.79 19.98
38 38 38	3.83 3.94 3.90	0 132 206	20.92 28.67 74.11
51 51 51	6.55 6.87 6.66	81 161 219	34.65 44.19 84.62
63 63 63	9.17 9.62 9.49	152 194 231	59.28 67.45 95.09
76 76 76	13.03 13.53 13.23	170 40 102	39.17 19.94 21.40
89 89 89	17.16 18.12 17.61	184 97 142	51.52 35.16 39.67
102 102 102	21.72 22.90 22.24	205 159 190	70.20 60.47 67.76
114 114 114	26.87 28.09 27.28	240 214 26	80.04 88.61 9.12
127 127 127	32.77 34.20 33.30	240 219 93	84.06 92.12 25.78
140 140 140	38.91 40.85 39.58	238 227 160	89.79 97.39 55.09
153 153 153	45.57 47.76 46.60	156 84 64	34.44 25.52 10.76
165 165 165	52.20 54.70 53.42	106 68 57	18.20 14.75 8.45
178 178 178	59.71 62.54 61.52	96 37 31	13.15 8.18 3.07
191 191 191	67.89 71.25 69.28	97 36 63	14.66 8.63 9.20
204 204 204	76.47 79.92 78.44	117 100 37	22.46 23.44 5.44
216 216 216	85.14 88.84 87.14	36 74 45	5.46 10.07 6.02
229 229 229	94.06 98.65 96.79	25 77 97	7.38 10.98 19.40
242 242 242	104.09 109.16 106.18	35 36 66	4.64 3.99 9.72
0 0 128	6.34 1.89 30.79	215 216 220	84.91 88.56 89.26
0 0 255	21.75 6.14 107.41	194 195 199	70.82 73.97 74.37
0 128 0	6.19 23.24 2.77	152 153 155	45.55 47.60 47.78
0 128 128	12.31 25.16 32.85	110 110 112	25.43 26.43 26.69
0 170 255	31.79 45.29 110.70	68 68 69	10.73 11.16 11.19
0 255 0	21.29 80.91 8.81	30 30 30	2.59 2.69 2.69
0 255 170	31.51 83.76 59.61	35 39 106	7.28 5.07 22.38
0 255 255	42.68 86.88 115.04	75 73 137	17.34 14.37 35.81
85 85 85	16.16 17.19 16.63	135 133 182	41.12 38.77 60.78
128 0 0	20.96 9.76 0.63	169 41 31	35.29 18.83 3.48
128 0 128	27.25 11.47 31.51	185 90 64	44.99 31.50 11.02
128 128 0	27.18 33.03 3.07	206 152 128	63.17 55.92 35.27
128 128 128	33.58 35.00 34.18	39 119 56	9.27 22.05 9.07
128 128 255	48.96 39.35 110.25	95 147 94	23.30 36.38 21.59
128 255 128	48.53 92.17 39.69	157 185 154	50.52 61.24 48.66
170 0 255	55.30 21.53 107.89	190 146 127	55.96 50.74 34.59
170 170 170	54.97 57.80 56.64	206 142 32	56.71 50.66 6.49
170 255 0	55.39 96.24 9.25	171 41 73	37.65 19.58 12.30
170 255 255	76.75 102.16 115.01	115 40 104	22.34 12.15 22.06
255 0 0	71.53 32.94 1.28	161 174 42	42.91 55.55 9.14
255 0 170	81.24 35.45 52.75	6 126 139	13.19 24.68 37.83
255 0 255	92.26 38.51 107.92	0 94 165	13.23 16.09 49.32
255 128 128	83.74 57.93 34.86	236 237 242	99.88 104.96 105.84
255 170 0	81.47 71.53 5.35	212 215 221	83.34 87.67 89.73
255 170 255	102.71 77.78 111.22	189 193 201	68.45 71.83 76.06
255 255 0	92.40 113.10 9.69	143 149 156	42.59 44.92 47.85
255 255 170	102.56 115.95 61.41	101 107 111	22.72 24.64 26.13
170 85 85	40.13 28.15 16.94	65 72 74	10.66 12.01 12.40
85 170 85	23.18 44.35 19.43	41 50 51	5.31 6.28 6.63