

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2011-6-15 00:49:23
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY2
Profile: C:/Windows/system32/spool/.../15.06.11-6500K-22-120cd-lut_S2433.icc
Created: 2011-6-15 0:34
Measurement device: DTP94-LCD mode (Wide Gamut S-PVA (generic))

Summary

WARNING: You are using a LookUpTable-Profile. Some applications do not support LUT-Profiles correctly. The monitor has not passed the certification according to the UGRA DACT specifications.

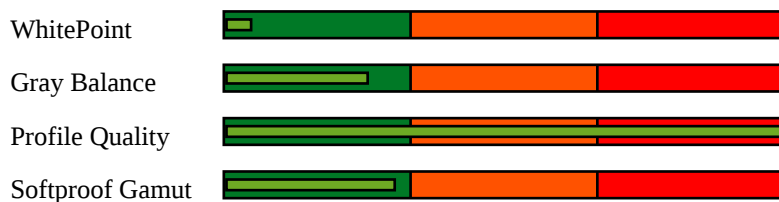
Calibration

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
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:	113.22 119.30 129.75
XYZ (normalized):	94.90 100.00 108.76
Luminance:	119.3 Cd/m2
Next Temperature:	6511 Kelvin
Assumed Target Whitepoint:	6500 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:	0.1 Cd/m2
Chromaticity:	0.4 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	9925	0.10	0.74	0.40	
5	7397	0.29	2.21	0.50	2.16
10	6844	0.88	6.63	0.51	2.19
15	6511	1.94	13.40	0.00	2.20
20	6399	3.59	20.09	0.29	2.20
25	6405	5.63	25.93	0.40	2.22
30	6503	8.36	31.82	0.27	2.22
35	6564	11.86	37.73	0.26	2.21
40	6511	16.03	43.41	0.00	2.20
45	6451	20.30	48.28	0.32	2.23
50	6412	25.83	53.65	0.94	2.21
55	6511	32.06	58.86	0.00	2.20
60	6503	38.96	63.88	0.45	2.20
65	6511	45.95	68.40	0.00	2.22
70	6511	54.02	73.07	0.00	2.22
75	6526	63.04	77.78	1.07	2.20
80	6511	73.45	82.68	0.00	2.18
85	6518	83.45	86.97	0.59	2.18
90	6518	94.62	91.37	0.61	2.17
95	6511	106.67	95.75	0.00	2.18
100	6511	119.30	100.00	0.00	
Average	6493			0.29	2.20
Range				1.53	
Max				1.07	

Tone values = 97.0%

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	0.7 -0.2 -0.4	0.0 -0.1 0.2	0.2
0 0 128	14.2 28.4 -61.8	1.8 -7.9 4.7	9.4
0 0 255	35.6 39.9 -100.6	0.7 0.6 -1.4	1.7
0 128 0	44.0 -71.4 46.2	-1.0 4.7 -0.5	4.9
0 128 128	45.2 -45.3 -14.4	2.7 -2.1 3.1	4.6
0 170 255	63.7 -31.7 -57.0	-0.6 0.8 -0.4	1.1
0 255 0	83.2 -115.7 78.3	-0.4 0.5 -0.3	0.7
0 255 170	83.3 -94.6 16.9	-0.5 0.4 -0.5	0.8
0 255 255	85.4 -74.4 -23.8	1.9 -6.2 3.1	7.2
85 85 85	35.9 -0.5 0.1	0.4 -1.0 -0.2	1.1
128 0 0	22.0 44.7 33.2	-0.3 -0.4 -0.2	0.6
128 0 128	27.8 48.7 -38.7	0.2 -5.7 -0.2	5.7
128 128 0	52.7 -10.5 57.9	-1.0 -3.0 -1.6	3.5
128 128 128	53.9 0.3 0.1	0.2 -0.4 -0.1	0.4
128 128 255	60.3 19.5 -61.4	0.1 -0.2 1.1	1.1
128 255 128	88.7 -60.7 45.7	-0.6 4.3 -0.8	4.4
170 0 255	46.5 61.4 -82.5	0.5 -0.9 1.2	1.6
170 170 170	70.1 0.0 0.4	0.2 0.1 -0.3	0.4
170 255 0	90.7 -50.8 88.7	0.1 0.0 -0.1	0.2
170 255 255	93.7 -28.0 -10.4	-0.4 -0.8 -0.5	1.0
255 0 0	47.4 75.9 67.2	13.7 16.4 14.5	25.8
255 0 170	51.9 78.6 -24.4	1.3 -2.0 2.4	3.4
255 0 255	57.8 78.5 -63.0	10.5 14.6 15.1	23.5
255 128 128	69.4 48.9 25.0	-0.5 -4.8 -2.2	5.3
255 170 0	78.5 23.8 85.7	0.1 1.7 -1.5	2.2
255 170 255	82.3 39.8 -26.1	-0.0 2.9 0.6	3.0
255 255 0	97.0 -12.8 98.5	-0.7 2.1 -1.7	2.8
255 255 170	98.4 -7.7 40.7	-0.5 3.0 -0.2	3.0
255 255 255	100.0 0.0 -0.0	0.0 -0.0 0.0	0.0
170 85 85	46.7 33.5 17.2	0.5 -3.0 -1.2	3.3
85 170 85	61.9 -45.5 33.8	0.5 -4.3 -0.9	4.5
85 85 170	40.1 16.2 -46.1	2.3 -7.0 2.3	7.7
85 170 170	63.3 -31.1 -10.4	0.9 -3.2 -0.0	3.3
170 85 170	49.7 41.0 -30.3	1.3 -4.1 1.7	4.6
170 170 85	68.8 -8.7 44.1	0.2 -1.1 -1.0	1.5
Average			4.1
Maximum			25.8

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	97 %
sRGB	94 %
AdobeRGB	86 %
ECI-RGB v1.0	86 %

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	55.6 -26.3 -53.1	11.2
66.9 -24.7 -37.1	66.1 -25.0 -38.3	1.4
79.7 -12.5 -21.8	79.8 -13.3 -21.8	0.8
48.0 74.0 -3.0	48.7 76.4 0.1	3.9
60.8 50.6 -6.7	61.1 56.8 -5.4	6.4
76.4 25.8 -6.9	75.4 23.4 -8.9	3.3
89.0 -5.0 93.0	89.4 -11.0 91.3	6.3
90.3 -4.7 62.6	90.0 -8.6 61.7	4.0
92.2 -3.5 31.1	92.1 -6.0 30.5	2.6
53.1 37.7 28.9	53.5 43.1 32.2	6.4
41.5 22.7 16.8	41.4 24.0 18.0	1.8
31.9 40.0 24.0	32.2 42.0 27.2	3.8
32.5 44.4 -1.8	33.4 51.9 0.8	7.9
51.3 1.3 44.5	51.4 5.0 47.8	5.0
34.6 -36.4 13.9	33.8 -32.4 14.2	4.1
36.0 -26.2 -20.9	33.4 -21.5 -23.4	5.9
20.9 9.6 -23.6	19.2 14.1 -25.1	5.1
89.0 0.0 -1.8	89.2 0.3 -2.0	0.4
82.8 0.0 -1.7	82.9 0.3 -1.8	0.4
69.3 0.0 -1.4	69.0 0.7 -1.4	0.7
54.1 0.0 -1.0	54.0 0.6 -0.8	0.6
36.6 -0.0 -0.5	36.4 -0.3 -0.4	0.4
16.0 0.0 0.0	16.1 -0.5 0.8	0.9
24.0 22.0 -46.0	20.6 31.2 -50.0	10.6
40.9 17.9 -36.6	39.1 23.6 -37.4	6.1
63.7 10.3 -23.8	62.9 11.6 -24.5	1.7
47.0 68.0 48.0	46.5 68.5 48.7	1.0
58.5 47.1 37.9	59.3 52.3 41.5	6.4
74.2 22.9 21.4	73.6 20.4 20.4	2.8
50.0 -65.0 27.0	48.4 -65.5 26.2	1.8
62.1 -39.8 21.0	62.0 -35.8 21.6	4.0
77.0 -19.1 11.0	77.2 -17.0 11.2	2.1
71.2 18.8 17.3	70.5 16.3 16.5	2.7
71.2 22.2 73.1	70.9 24.2 75.8	3.4
47.7 71.2 16.2	49.2 76.2 19.2	6.0
38.0 55.4 -20.9	40.5 64.8 -17.6	10.3
73.7 -22.8 67.6	73.4 -21.6 69.3	2.1
52.3 -52.3 -20.2	49.6 -45.3 -20.3	7.5
43.3 -17.0 -48.6	40.1 -11.7 -52.1	7.1
95.0 0.0 -2.0	94.9 0.3 -2.1	0.4
88.5 -0.4 -3.1	88.7 0.2 -3.0	0.6
82.0 -0.9 -4.1	82.0 -0.9 -4.6	0.5
67.7 -2.0 -4.4	67.6 -1.1 -4.1	0.9
52.2 -2.5 -3.5	52.0 -0.9 -3.3	1.6
37.5 -3.9 -3.1	37.3 -2.1 -3.6	1.8
26.3 -6.8 -3.4	26.2 -4.4 -3.7	2.5
Average		3.6
Gamut-Volume		97 %

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	113.22 119.30 129.75	85 85 170	16.99 13.90 47.44
0 0 0	0.09 0.10 0.14	85 170 170	27.95 38.57 51.64
12 12 12	0.26 0.29 0.33	170 85 170	31.74 21.77 48.37
25 25 25	0.82 0.88 0.97	170 170 85	39.62 46.16 16.95
38 38 38	1.84 1.94 2.11	0 148 224	23.39 29.17 89.60
51 51 51	3.42 3.59 3.86	70 175 228	34.83 43.37 94.77
63 63 63	5.38 5.63 6.09	154 205 237	59.56 67.92 106.19
76 76 76	7.91 8.36 9.03	252 0 123	40.02 20.11 22.76
89 89 89	11.22 11.86 12.93	243 96 160	52.96 34.48 43.16
102 102 102	15.21 16.03 17.43	221 168 202	66.05 58.19 75.03
114 114 114	19.27 20.30 21.89	239 226 0	74.96 88.27 11.23
127 127 127	24.75 25.83 28.11	237 230 102	78.50 90.17 28.22
140 140 140	30.43 32.06 34.87	236 236 172	86.20 96.04 61.08
153 153 153	36.86 38.96 42.12	209 92 77	35.29 25.04 10.93
165 165 165	43.61 45.95 49.98	139 80 71	17.61 14.18 8.57
178 178 178	51.26 54.02 58.75	144 41 41	13.61 8.26 2.85
191 191 191	60.21 63.04 69.39	159 28 82	16.57 8.97 9.85
204 204 204	69.70 73.45 79.88	146 117 39	22.32 23.00 5.02
216 216 216	79.44 83.45 91.30	38 94 57	5.39 9.49 5.89
229 229 229	90.08 94.62 103.52	20 90 115	6.93 9.45 20.81
242 242 242	101.24 106.67 116.02	54 42 85	4.40 3.40 10.29
0 0 128	4.61 2.41 24.15	221 223 226	84.75 89.01 99.95
0 0 255	20.89 11.88 111.21	204 205 208	70.50 74.04 83.14
0 128 0	5.52 16.55 2.80	167 167 170	44.82 46.92 52.55
0 128 128	10.08 17.86 27.95	128 128 130	25.05 26.23 29.12
0 170 255	31.50 40.27 119.76	86 86 87	10.39 10.98 12.08
0 255 0	25.49 74.74 11.82	43 43 43	2.37 2.53 2.64
0 255 170	33.62 75.55 58.94	63 27 126	6.98 3.99 23.71
0 255 255	46.20 81.40 127.16	105 76 154	17.19 13.08 37.98
85 85 85	10.08 10.69 11.59	155 144 195	40.59 37.89 67.43
128 0 0	7.89 4.01 0.42	237 33 41	33.58 17.86 3.42
128 0 128	12.75 6.50 24.32	243 96 76	46.86 31.77 11.22
128 128 0	20.09 24.53 3.40	225 164 143	59.58 54.34 39.01
128 128 128	24.87 26.13 28.34	11 140 66	8.37 20.51 9.64
128 128 255	41.94 35.06 117.26	97 166 108	24.05 36.27 23.07
128 255 128	52.16 87.66 38.95	164 200 167	51.09 61.79 53.89
170 0 255	36.75 19.69 112.69	208 159 142	52.47 49.07 37.80
170 170 170	46.28 48.77 52.58	239 151 20	54.75 49.02 6.31
170 255 0	58.61 92.19 13.03	252 15 93	40.19 20.41 13.33
170 255 255	81.13 101.69 128.78	203 9 128	26.56 13.51 24.85
255 0 0	36.97 18.55 1.30	169 188 36	41.40 53.99 9.38
255 0 170	46.56 23.52 46.31	0 140 150	13.09 22.05 38.50
255 0 255	59.43 31.15 112.55	0 103 180	12.97 14.20 53.86
255 128 128	63.94 46.59 29.70	239 240 244	99.27 104.26 117.08
255 170 0	69.27 63.19 7.12	219 222 227	83.66 87.86 100.37
255 170 255	91.64 72.69 122.04	198 203 210	68.10 71.97 84.79
255 255 0	91.89 108.92 13.58	158 164 171	42.20 44.75 52.85
255 255 170	100.67 113.46 61.63	119 124 129	22.66 24.03 28.38
170 85 85	24.74 18.46 12.19	83 89 93	10.75 11.59 14.10
85 170 85	21.44 36.15 16.14	55 66 68	5.12 5.76 7.23