UGRA
Display Analysis & Certification Tool Report

Basics

Date:	2007-11-26 12:14:09
Report-Version:	v1.2.2
Monitor-Name:	\\.\DISPLAY1
Profile:	C:/Windows/system32/spool/DRIVERS/COLOR/xerox-ugra.icc
Created:	2007-11-26 12:02
Measurement device:	DTP94-LCD mode

Summary

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

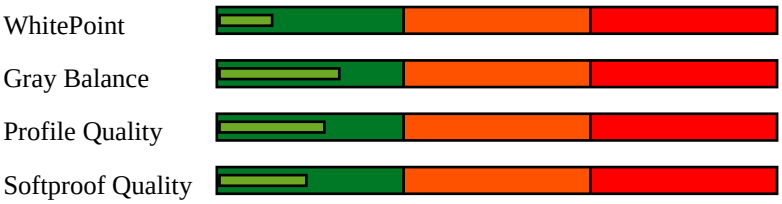
Calibration

White Point	yes
Gray balance	yes
Profile quality	yes

Softproofing

MultiColor, HighBody	no
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:	114.70 120.28 118.27
XYZ (normalized):	95.36 100.00 98.33
Luminance:	120.3 Cd/m2
Next Temperature:	5849 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.6 deltaE

Blackpoint

Luminance:	0.2 Cd/m2
Chromaticity:	1.6 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	12024	0.19	1.43	1.65	
5	6107	0.66	4.96	0.51	1.87
10	5779	1.96	13.41	0.50	1.84
15	5822	4.00	21.30	0.56	1.82
20	5925	6.74	28.39	0.29	1.81
25	5825	9.90	34.46	0.21	1.82
30	5709	13.66	40.18	0.83	1.83
35	5745	18.07	45.67	0.77	1.81
40	5839	23.28	51.10	0.23	1.80
45	5860	28.20	55.53	0.28	1.82
50	5856	34.46	60.47	0.50	1.82
55	5769	41.08	65.08	0.64	1.81
60	5770	48.08	69.45	0.63	1.81
65	5779	55.21	73.48	0.56	1.82
70	5746	63.24	77.62	0.91	1.82
75	5769	71.73	81.64	0.85	1.82
80	5769	80.51	85.47	0.82	1.82
85	5796	89.04	88.94	0.84	1.89
90	5789	98.74	92.62	0.60	1.89
95	5813	109.62	96.47	0.43	1.81
100	5849	120.28	100.00	0.00	
Average	5800			0.55	1.83
Range				1.30	

Tone values = 77.5%

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	1.4 0.1 -1.6	-1.4 -0.1 1.6	2.2
0 0 128	16.4 34.7 -68.1	0.6 -2.3 -0.1	2.4
0 0 255	33.7 49.5 -103.5	0.3 -0.5 0.3	0.6
0 128 0	49.9 -60.0 45.7	0.7 1.1 1.4	1.9
0 128 128	52.8 -41.2 -11.5	0.4 1.1 -0.7	1.3
0 170 255	69.2 -31.6 -46.8	-0.1 1.7 -0.5	1.7
0 255 0	84.2 -89.2 73.3	0.5 0.1 -2.1	2.2
0 255 170	86.5 -74.7 16.2	0.1 0.7 -2.4	2.5
0 255 255	88.7 -61.4 -17.3	-0.0 0.8 -1.1	1.3
85 85 85	44.2 0.0 0.3	-0.2 -0.0 -0.3	0.4
128 0 0	33.4 52.9 46.9	-0.1 1.0 2.5	2.7
128 0 128	37.5 58.1 -33.7	0.3 -0.6 0.5	0.9
128 128 0	58.2 -7.5 57.5	0.4 -0.6 0.6	0.9
128 128 128	60.6 0.2 -0.0	0.1 -0.2 0.0	0.3
128 128 255	65.5 15.4 -52.8	-0.1 0.2 0.7	0.7
128 255 128	89.6 -52.1 38.1	-0.0 -0.3 -1.5	1.6
170 0 255	52.5 72.4 -72.7	0.2 -0.2 1.3	1.3
170 170 170	75.0 0.0 0.6	-0.1 -0.0 -0.6	0.6
170 255 0	90.5 -42.4 82.4	0.4 -1.1 -2.6	2.9
170 255 255	94.6 -25.7 -8.7	-0.2 -0.3 -0.3	0.4
255 0 0	57.9 81.9 78.5	0.7 -0.4 -2.2	2.4
255 0 170	61.1 85.5 -17.0	0.9 -1.4 1.0	2.0
255 0 255	64.8 87.6 -52.2	0.7 -0.8 2.0	2.2
255 128 128	74.3 45.4 22.0	0.5 -0.7 0.2	0.9
255 170 0	80.2 23.6 81.3	0.6 -0.8 -1.5	1.7
255 170 255	85.0 34.0 -21.8	0.1 0.3 0.7	0.8
255 255 0	96.3 -11.3 91.0	0.6 -1.0 -3.2	3.4
255 255 170	98.2 -5.7 33.6	0.2 -0.4 -1.4	1.4
255 255 255	100.0 0.0 -0.0	0.0 0.0 -0.0	0.0
170 85 85	55.2 35.4 17.9	-0.1 -0.3 -0.3	0.4
85 170 85	66.9 -41.8 29.4	-0.1 0.6 -0.6	0.8
85 85 170	47.7 12.8 -40.7	0.0 -0.5 -0.3	0.6
85 170 170	68.9 -30.4 -9.3	-0.1 0.4 -0.7	0.8
170 85 170	57.7 41.4 -24.2	0.0 -0.7 -0.2	0.7
170 170 85	73.3 -6.8 39.4	-0.1 0.1 -0.7	0.7
Average			1.4
Maximum			3.4

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	57.3 -24.0 -44.6	14.2
66.9 -24.7 -37.1	66.7 -25.4 -36.7	0.8
79.7 -12.5 -21.8	80.0 -13.1 -21.1	0.9
48.0 74.0 -3.0	48.7 71.0 -1.6	3.4
60.8 50.6 -6.7	60.8 51.4 -6.4	0.9
76.4 25.8 -6.9	76.2 26.6 -7.0	0.8
89.0 -5.0 93.0	88.6 -2.9 84.7	8.5
90.3 -4.7 62.6	89.9 -4.2 64.6	2.1
92.2 -3.5 31.1	92.3 -3.9 32.3	1.3
53.1 37.7 28.9	53.3 38.0 29.7	0.9
41.5 22.7 16.8	41.9 21.8 17.2	1.1
31.9 40.0 24.0	32.4 39.6 24.5	0.8
32.5 44.5 -1.8	32.7 44.4 -1.1	0.7
51.3 1.3 44.5	51.2 1.1 44.7	0.3
34.6 -36.4 13.9	34.4 -37.1 13.6	0.7
36.0 -26.2 -20.9	36.2 -24.9 -19.4	1.9
20.9 9.6 -23.6	21.2 9.5 -22.3	1.4
89.0 0.0 -1.9	89.0 0.2 -1.0	0.8
82.8 0.0 -1.7	82.7 0.6 -1.3	0.7
69.3 0.0 -1.4	69.4 0.1 -1.0	0.4
54.1 0.0 -1.0	54.0 0.8 -1.0	0.8
36.6 0.0 -0.5	36.9 -0.4 0.3	0.9
16.0 0.0 0.0	16.6 0.5 0.2	0.8
24.0 22.0 -46.0	24.0 23.3 -46.1	1.3
40.9 17.9 -36.6	41.1 18.1 -36.1	0.5
63.7 10.3 -23.8	63.6 11.1 -24.1	0.9
47.0 68.0 48.0	46.6 68.1 48.5	0.7
58.5 47.1 37.9	58.5 47.4 38.5	0.6
74.2 22.9 21.4	74.1 23.3 21.7	0.5
50.0 -65.0 27.0	50.8 -56.5 28.7	8.7
62.1 -39.8 21.0	62.1 -40.2 21.2	0.4
77.0 -19.1 11.0	77.0 -18.8 11.5	0.5
71.2 18.9 17.3	71.3 19.4 17.5	0.6
71.2 22.1 73.1	70.9 23.2 73.0	1.1
47.7 71.2 16.2	47.9 70.0 16.4	1.2
38.0 55.4 -20.9	38.0 56.1 -21.0	0.7
73.7 -22.8 67.6	73.3 -22.5 68.5	1.0
52.3 -52.3 -20.1	54.0 -39.7 -15.6	13.5
43.3 -17.0 -48.6	43.8 -12.1 -46.2	5.5
95.0 0.0 -2.0	95.3 0.0 -1.6	0.5
88.5 -0.4 -3.1	88.6 -0.5 -2.5	0.7
82.0 -0.9 -4.1	82.0 -0.6 -3.7	0.4
67.7 -2.0 -4.4	67.6 -1.7 -4.4	0.2
52.2 -2.5 -3.5	52.5 -2.0 -3.3	0.6
37.5 -3.9 -3.1	37.9 -4.1 -2.6	0.7
26.3 -6.8 -3.4	26.4 -6.6 -3.4	0.2
Average		1.9
Gamut-Volume		93 %

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	114.70 120.28 118.27	85 85 170	22.73 20.20 50.64
0 0 0	0.19 0.19 0.31	85 170 170	35.09 47.39 55.68
12 12 12	0.63 0.66 0.69	170 85 170	42.96 30.87 51.45
25 25 25	1.89 1.96 1.94	170 170 85	48.65 54.60 22.07
38 38 38	3.85 4.00 3.98	0 131 211	24.34 30.92 74.06
51 51 51	6.41 6.74 6.69	57 160 224	34.79 44.19 85.36
63 63 63	9.43 9.90 9.67	143 194 234	60.00 68.54 96.10
76 76 76	13.04 13.66 13.09	193 0 105	39.05 20.55 21.59
89 89 89	17.38 18.07 17.70	204 82 145	51.23 34.68 39.74
102 102 102	22.17 23.28 22.78	217 152 192	69.98 60.26 67.72
114 114 114	26.94 28.20 27.88	240 221 0	80.12 87.37 12.51
127 127 127	32.73 34.46 33.68	239 225 76	82.86 90.91 23.94
140 140 140	39.22 41.08 39.85	237 231 154	89.83 97.59 54.26
153 153 153	45.93 48.08 46.70	170 78 62	34.33 25.25 10.68
165 165 165	52.77 55.21 53.79	113 65 56	18.03 14.78 8.30
178 178 178	60.43 63.24 61.19	107 29 31	13.79 8.59 3.06
191 191 191	68.42 71.73 69.47	109 23 65	14.99 8.78 9.16
204 204 204	76.84 80.51 78.06	118 103 27	21.98 23.20 5.24
216 216 216	84.77 89.04 86.39	14 78 42	5.32 9.92 5.79
229 229 229	94.45 98.74 96.54	0 78 98	7.67 11.09 19.37
242 242 242	104.79 109.62 107.53	37 33 68	4.66 4.01 9.58
0 0 128	5.64 2.85 28.33	215 216 220	85.29 89.30 89.30
0 0 255	19.58 10.27 100.48	194 195 199	71.09 74.19 74.67
0 128 0	9.97 22.08 4.47	152 153 155	45.84 48.03 48.19
0 128 128	15.72 25.39 32.61	110 110 112	25.37 26.38 26.60
0 170 255	36.82 48.52 107.65	68 68 69	10.81 11.39 11.10
0 255 0	35.55 77.44 13.92	30 30 30	2.57 2.67 2.59
0 255 170	45.31 83.39 60.82	41 30 110	7.39 5.07 22.60
0 255 255	55.74 89.21 114.31	81 66 141	17.57 14.52 36.17
85 85 85	16.04 16.82 16.40	139 128 186	41.43 38.99 62.14
128 0 0	16.82 9.04 0.83	190 6 29	34.62 18.43 3.15
128 0 128	22.48 11.80 29.75	203 81 61	44.90 31.29 10.75
128 128 0	27.17 31.23 5.02	217 149 126	63.20 55.97 35.27
128 128 128	33.09 34.63 34.07	0 128 49	11.14 23.02 9.41
128 128 255	47.31 42.37 107.29	72 155 89	23.59 36.70 21.37
128 255 128	59.14 90.77 43.67	147 190 151	50.90 62.00 48.60
170 0 255	47.80 25.25 103.40	199 144 125	56.26 50.99 34.78
170 170 170	55.42 58.12 56.50	217 142 0	56.19 49.94 6.55
170 255 0	64.32 92.69 14.79	193 0 75	37.24 19.67 12.27
170 255 255	84.95 104.71 117.23	131 14 108	22.28 12.06 22.09
255 0 0	57.41 30.20 1.79	151 182 7	42.41 54.60 8.94
255 0 170	66.85 34.86 50.19	0 130 140	17.05 26.76 37.47
255 0 255	77.30 40.57 104.31	0 91 170	14.68 16.86 49.36
255 128 128	74.19 56.05 35.29	236 237 242	101.48 106.33 107.15
255 170 0	75.18 67.78 8.74	212 215 222	83.84 88.11 90.21
255 170 255	95.56 79.38 111.42	188 193 202	69.00 72.57 76.16
255 255 0	94.03 108.15 15.43	142 149 157	42.54 45.16 48.57
255 255 170	104.11 114.25 64.02	100 107 111	23.18 24.76 26.41
170 85 85	36.25 27.47 17.05	64 72 75	10.95 12.09 12.91
85 170 85	28.34 43.87 21.41	38 50 52	5.05 5.89 6.61