

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2011-3-30 1:18:41
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY1
EDID-Name: SX2762W
EDID-Serial:
Profile: C:/Windows/system32/spool/drivers/color/eizo-sx2762-ugra.icc
Created: 2011-3-30 1:15
Measurement device: eye-one pro

Summary

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:	133.93 140.47 137.60
XYZ (normalized):	95.34 100.00 97.96
Luminance:	140.5 Cd/m2
Next Temperature:	5832 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:	1.1 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	8085	0.23	1.49	1.14	
5	6498	0.85	5.44	0.94	1.82
10	6041	2.37	13.74	0.54	1.82
15	5748	4.80	21.63	0.37	1.81
20	5931	7.99	28.61	0.39	1.80
25	5869	11.58	34.49	0.40	1.82
30	5802	15.98	40.21	0.50	1.81
35	5767	21.59	46.14	0.37	1.80
40	5831	27.31	51.20	0.27	1.80
45	5886	33.08	55.64	0.72	1.82
50	5811	40.39	60.57	0.20	1.81
55	5794	47.70	64.93	0.61	1.81
60	5863	56.38	69.56	0.64	1.80
65	5859	64.74	73.60	0.70	1.81
70	5838	73.74	77.58	0.18	1.81
75	5839	83.90	81.69	0.18	1.79
80	5806	94.66	85.70	0.28	1.78
85	5802	105.04	89.29	0.31	1.80
90	5844	116.59	93.01	0.42	1.79
95	5807	128.35	96.56	0.27	1.79
100	5832	140.47	100.00	0.00	
Average	5841			0.39	1.80
Range				1.33	
Max				0.72	

Tone values = 98.2%

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	1.5 0.3 -1.1	-1.5 -0.3 1.1	1.9
0 0 128	14.9 43.2 -73.8	-2.1 7.2 -3.5	8.3
0 0 255	26.9 78.0 -118.3	0.7 -1.8 1.4	2.4
0 128 0	51.2 -85.4 53.6	-0.1 -3.0 -0.5	3.1
0 128 128	53.2 -59.9 -12.0	-0.4 0.8 -1.2	1.4
0 170 255	67.8 -43.3 -51.4	-0.0 -0.4 0.1	0.5
0 255 0	85.9 -133.8 83.1	-0.4 0.0 -2.9	2.9
0 255 170	87.1 -110.5 16.3	-0.3 0.4 -1.2	1.3
0 255 255	88.2 -89.9 -19.4	-0.1 0.5 -0.5	0.7
85 85 85	44.2 0.8 0.0	-0.2 -0.8 -0.0	0.8
128 0 0	33.8 66.9 51.9	0.2 0.9 2.6	2.8
128 0 128	36.9 74.7 -37.1	0.1 0.7 1.1	1.3
128 128 0	59.3 -9.7 66.3	0.0 -1.5 -0.9	1.7
128 128 128	60.9 -0.1 0.2	-0.2 0.1 -0.2	0.3
128 128 255	63.9 22.1 -56.9	-0.1 -0.0 0.3	0.3
128 255 128	90.6 -74.6 41.4	-0.4 -0.1 -1.3	1.4
170 0 255	49.6 98.4 -79.6	0.7 -0.7 1.6	1.9
170 170 170	75.0 -0.0 -0.1	-0.0 0.0 0.1	0.1
170 255 0	92.2 -61.3 92.8	-0.4 0.4 -2.9	3.0
170 255 255	94.3 -36.6 -9.5	-0.1 0.1 -0.2	0.3
255 0 0	59.3 102.6 88.0	0.3 -0.0 0.7	0.8
255 0 170	61.4 109.0 -18.8	0.4 -0.6 1.4	1.6
255 0 255	63.6 114.7 -55.9	0.5 -0.7 1.4	1.7
255 128 128	75.3 58.1 23.7	-0.1 0.3 0.3	0.4
255 170 0	81.4 31.3 92.1	0.4 -1.3 -1.9	2.3
255 170 255	84.4 46.7 -23.4	0.3 -0.5 0.6	0.9
255 255 0	98.1 -17.0 102.2	-0.2 0.2 -3.2	3.2
255 255 170	99.1 -8.7 35.3	-0.2 0.3 -0.2	0.4
255 255 255	100.0 0.0 0.0	0.0 -0.0 0.0	0.0
170 85 85	55.2 46.5 18.1	0.3 -0.5 0.8	1.0
85 170 85	67.4 -57.2 32.5	-0.2 -1.6 -0.9	1.8
85 85 170	46.5 17.8 -45.1	-0.0 -0.5 0.5	0.6
85 170 170	68.7 -42.4 -10.5	-0.2 -0.4 -0.2	0.5
170 85 170	56.9 54.7 -27.5	0.3 -0.4 1.1	1.2
170 170 85	73.9 -9.0 42.8	-0.1 -0.3 -0.5	0.6
Average			1.5
Maximum			8.3

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	100 %
sRGB	100 %
AdobeRGB	99 %
ECI-RGB v1.0	93 %

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	56.2 -34.3 -48.0	3.6
66.9 -24.7 -37.1	67.3 -25.3 -37.1	0.7
79.7 -12.5 -21.8	79.8 -12.4 -21.9	0.2
48.0 74.0 -3.0	47.8 73.8 -4.0	1.0
60.8 50.6 -6.7	60.8 50.4 -7.1	0.4
76.4 25.8 -6.9	76.7 25.7 -6.9	0.3
89.0 -5.0 93.0	89.2 -4.8 94.9	1.9
90.3 -4.7 62.6	90.5 -4.3 63.6	1.1
92.2 -3.5 31.1	92.5 -4.1 31.9	1.0
53.1 37.7 28.9	52.7 38.7 28.2	1.2
41.5 22.7 16.8	41.5 23.3 17.0	0.6
31.9 40.0 24.0	32.1 40.8 24.0	0.9
32.5 44.4 -1.8	32.7 43.7 -2.0	0.8
51.3 1.3 44.5	51.2 1.8 45.2	0.9
34.6 -36.4 13.9	34.6 -33.8 13.8	2.7
36.0 -26.2 -20.9	36.2 -25.9 -20.5	0.5
20.9 9.6 -23.6	21.6 9.0 -23.3	1.0
89.0 0.0 -1.8	89.3 -0.0 -1.5	0.5
82.8 0.0 -1.7	83.0 0.1 -2.0	0.4
69.3 0.0 -1.4	69.6 -0.9 -1.0	1.0
54.1 0.0 -1.0	54.3 0.2 -0.9	0.3
36.6 -0.0 -0.5	36.5 0.5 -0.9	0.6
16.0 0.0 0.0	16.6 0.4 -0.3	0.7
24.0 22.0 -46.0	24.8 20.4 -44.9	2.1
40.9 17.9 -36.6	40.8 18.0 -36.9	0.4
63.7 10.3 -23.8	63.7 10.8 -24.3	0.7
47.0 68.0 48.0	46.7 67.6 46.7	1.4
58.5 47.1 37.9	58.3 47.5 37.6	0.5
74.2 22.9 21.4	74.5 22.9 21.9	0.6
50.0 -65.0 27.0	50.3 -64.0 27.8	1.3
62.1 -39.8 21.0	62.5 -38.8 21.9	1.4
77.0 -19.1 11.0	77.2 -19.4 11.1	0.4
71.2 18.8 17.3	71.4 18.1 17.7	0.9
71.2 22.2 73.1	71.1 23.3 74.3	1.7
47.7 71.2 16.2	47.3 71.3 14.7	1.6
38.0 55.4 -20.9	38.0 54.0 -21.5	1.5
73.7 -22.8 67.6	73.5 -22.3 69.8	2.3
52.3 -52.3 -20.2	52.8 -52.7 -19.5	0.9
43.3 -17.0 -48.6	43.9 -18.2 -47.9	1.5
95.0 0.0 -2.0	95.1 0.1 -1.9	0.2
88.5 -0.4 -3.1	88.8 -0.6 -2.7	0.6
82.0 -0.9 -4.1	82.1 -0.7 -4.3	0.3
67.7 -2.0 -4.4	67.8 -2.8 -4.3	0.9
52.2 -2.5 -3.5	52.6 -3.1 -3.1	0.8
37.5 -3.9 -3.1	37.7 -3.9 -3.4	0.4
26.3 -6.8 -3.4	27.1 -7.0 -3.6	0.8
Average		1.0
Gamut-Volume		100 %

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	133.93 140.47 137.60	85 85 170	26.68 22.47 61.32
0 0 0	0.23 0.23 0.32	85 170 170	36.60 55.02 65.87
12 12 12	0.80 0.85 0.91	170 85 170	54.48 34.99 61.87
25 25 25	2.24 2.37 2.37	170 170 85	56.78 64.82 24.39
38 38 38	4.60 4.80 4.68	0 130 207	24.67 34.69 88.02
51 51 51	7.60 7.99 7.93	84 159 221	41.57 52.76 101.25
63 63 63	10.98 11.58 11.31	154 193 232	70.14 79.74 112.54
76 76 76	15.33 15.98 15.74	171 39 103	45.19 23.05 25.46
89 89 89	20.62 21.59 20.95	185 96 143	59.33 40.50 46.62
102 102 102	25.98 27.31 26.63	206 159 190	82.52 71.62 79.68
114 114 114	31.33 33.08 32.32	237 217 0	93.89 103.75 11.47
127 127 127	38.50 40.39 39.40	237 221 88	98.19 107.67 29.97
140 140 140	45.71 47.70 46.84	236 228 158	105.26 114.43 64.53
153 153 153	53.48 56.38 55.04	156 85 64	39.49 28.78 12.70
165 165 165	61.41 64.74 63.13	106 68 56	21.09 16.97 9.59
178 178 178	70.36 73.74 72.43	97 37 31	16.10 9.87 3.56
191 191 191	80.05 83.90 82.41	98 36 64	17.43 10.33 10.94
204 204 204	90.25 94.66 92.28	116 101 34	25.83 27.02 6.13
216 216 216	100.19 105.04 102.38	35 74 44	6.60 11.63 6.80
229 229 229	110.88 116.59 113.94	26 76 97	8.85 12.99 23.17
242 242 242	122.41 128.35 125.20	36 35 67	5.59 4.87 11.75
0 0 128	6.90 3.04 35.18	215 216 220	100.21 105.08 105.52
0 0 255	23.04 8.42 121.80	194 195 199	83.30 87.27 88.53
0 128 0	8.63 27.28 4.23	152 153 155	53.41 56.38 56.34
0 128 128	15.04 30.18 38.93	110 110 112	29.91 31.29 31.33
0 170 255	37.12 54.13 128.92	68 68 69	12.50 13.01 13.12
0 255 0	28.78 95.10 13.90	30 30 30	2.98 3.10 3.09
0 255 170	39.80 99.03 72.36	39 37 107	8.73 6.35 26.25
0 255 255	51.53 103.01 135.51	78 71 138	20.24 16.76 42.02
85 85 85	18.89 19.63 19.22	137 132 183	48.46 45.79 72.51
128 0 0	23.36 10.78 0.61	169 42 31	40.44 21.65 4.05
128 0 128	30.28 13.41 36.32	185 91 63	52.32 36.39 12.87
128 128 0	32.38 38.00 4.51	206 153 127	74.50 66.23 41.59
128 128 128	39.03 40.97 39.97	35 120 54	11.38 26.21 11.15
128 128 255	55.36 46.92 126.80	93 148 92	28.44 43.53 25.19
128 255 128	59.76 108.76 49.81	156 186 153	59.50 72.74 57.50
170 0 255	61.95 26.15 122.72	189 147 126	65.35 59.82 40.59
170 170 170	64.62 67.79 66.52	205 144 25	66.18 58.71 7.70
170 255 0	68.59 113.32 14.50	171 41 74	43.16 22.47 14.56
170 255 255	91.44 121.26 136.73	117 39 105	25.44 14.14 25.78
255 0 0	81.71 37.34 1.43	158 176 34	49.96 64.07 10.58
255 0 170	92.89 41.29 60.69	10 125 140	16.24 29.67 45.19
255 0 255	104.58 45.60 123.72	16 92 167	16.21 19.96 59.32
255 128 128	97.28 67.58 41.12	236 237 242	117.89 123.48 124.52
255 170 0	95.70 81.95 7.77	212 215 221	98.54 103.69 106.09
255 170 255	118.83 91.06 130.24	189 193 201	80.77 85.02 89.73
255 255 0	111.01 132.32 14.93	143 149 156	49.50 53.05 56.62
255 255 170	122.23 136.56 74.87	101 107 111	26.92 29.09 30.74
170 85 85	46.60 32.05 19.73	65 72 75	12.71 13.99 15.25
85 170 85	28.92 52.06 23.77	41 50 52	6.16 7.22 8.11