

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2008-8-16 12:38:15
Report-Version: v1.3.1
Monitor-Name: \\.\DISPLAY1
EDID-Name: Q26W-1
EDID-Serial: YE4J000002
Profile: C:/WINDOWS/System32/spool/.../scaleoview_q26w_1_ugra1.icc
Created: 2008-8-16 12:35
Measurement device: eye-one display

Summary

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

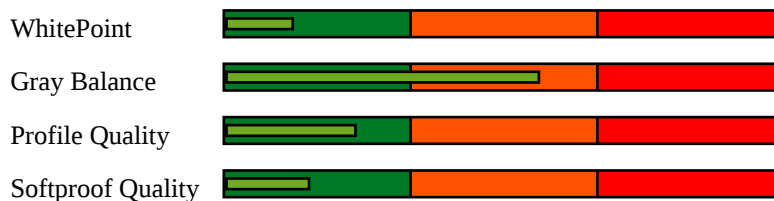
Calibration

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:	113.79 118.81 116.31
XYZ (normalized):	95.77 100.00 97.90
Luminance:	118.8 Cd/m2
Next Temperature:	5784 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	0.7 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:	1.4 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	12148	0.14	1.03	1.44	
5	6381	0.61	4.66	0.82	1.84
10	6015	1.88	13.11	1.33	1.84
15	6015	3.80	20.81	0.83	1.83
20	5719	6.49	28.02	0.26	1.82
25	5875	9.56	34.09	0.66	1.82
30	5804	13.35	39.97	0.84	1.83
35	5879	17.38	45.12	0.95	1.84
40	5845	22.71	50.82	0.81	1.82
45	5753	27.54	55.25	0.72	1.83
50	5750	33.58	60.13	0.57	1.82
55	5830	40.51	65.04	1.05	1.81
60	5782	47.26	69.31	0.27	1.81
65	5783	53.52	72.92	0.72	1.86
70	5825	61.72	77.25	0.34	1.83
75	5810	70.48	81.47	0.28	1.81
80	5829	79.17	85.32	0.50	1.82
85	5761	87.81	88.88	0.66	1.89
90	5786	97.73	92.69	0.59	1.88
95	5806	109.08	96.74	1.11	1.76
100	5784	118.81	100.00	0.00	
Average	5824			0.66	1.83
Range				2.04	
Max				1.33	

Tone values = 90.1%

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	1.0 -1.4 -0.5	-1.0 1.4 0.5	1.8
0 0 128	17.5 26.1 -67.5	1.8 -3.1 -0.1	3.5
0 0 255	38.4 31.2 -100.7	-1.0 3.7 -1.7	4.2
0 128 0	46.7 -85.4 55.2	1.1 1.1 0.7	1.7
0 128 128	50.6 -60.5 -13.7	0.5 1.8 -2.2	2.9
0 170 255	67.6 -50.4 -52.4	-0.0 1.4 -0.3	1.4
0 255 0	78.9 -126.1 85.2	1.5 -1.3 -0.7	2.2
0 255 170	82.1 -106.3 13.5	0.9 0.1 -2.8	2.9
0 255 255	85.5 -89.0 -23.8	0.1 0.3 -0.2	0.4
85 85 85	43.6 -0.8 0.6	0.4 0.8 -0.6	1.1
128 0 0	35.8 57.5 54.7	1.1 2.2 3.3	4.1
128 0 128	40.2 59.2 -31.3	1.5 0.0 1.6	2.2
128 128 0	57.2 -5.9 70.0	0.9 -0.3 0.6	1.1
128 128 128	60.4 -0.2 -0.0	0.3 0.2 0.0	0.4
128 128 255	67.2 8.8 -53.8	-0.8 2.9 -0.2	3.0
128 255 128	87.4 -67.6 39.1	-0.6 0.2 -1.0	1.1
170 0 255	57.3 66.5 -69.1	0.3 3.9 1.2	4.1
170 170 170	74.3 0.2 0.1	0.6 -0.2 -0.1	0.6
170 255 0	87.1 -49.4 97.0	1.4 -2.0 -0.8	2.6
170 255 255	92.9 -35.8 -11.9	0.1 0.8 0.3	0.9
255 0 0	63.8 90.3 95.5	0.2 -0.0 -3.9	3.9
255 0 170	67.2 91.1 -8.9	0.5 -1.3 -0.6	1.6
255 0 255	71.6 88.0 -44.8	-0.3 1.5 -0.0	1.6
255 128 128	77.3 54.1 27.5	0.1 -0.9 0.0	0.9
255 170 0	81.0 34.6 99.9	1.1 -2.8 -2.1	3.7
255 170 255	87.2 37.9 -20.1	-0.1 0.5 0.3	0.6
255 255 0	94.9 -6.2 109.3	1.2 -3.2 -2.4	4.2
255 255 170	97.4 -2.9 36.3	0.6 -1.7 -0.9	2.0
255 255 255	100.0 0.0 -0.0	0.0 -0.0 0.0	0.0
170 85 85	58.6 43.2 22.4	-1.4 -1.4 -0.7	2.1
85 170 85	65.5 -53.8 30.9	-0.9 0.7 -0.9	1.4
85 85 170	49.5 10.6 -44.3	-1.0 -1.4 1.7	2.4
85 170 170	68.5 -42.4 -12.7	-1.3 0.9 -0.2	1.6
170 85 170	61.7 46.4 -24.0	-1.4 -2.1 1.3	2.8
170 170 85	74.1 -5.7 44.5	-1.4 0.6 -1.4	2.1
Average			2.1
Maximum			4.2

Gamut-Volume

These measurements are only informative.

Gamut-Volume	
ISO	100 %
sRGB	92 %
AdobeRGB	93 %
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	54.5 -37.9 -48.6	1.7
66.9 -24.7 -37.1	68.3 -25.7 -38.4	2.2
79.7 -12.5 -21.8	79.8 -13.4 -22.3	1.1
48.0 74.0 -3.0	47.5 69.5 -3.1	4.6
60.8 50.6 -6.7	62.8 53.1 -7.4	3.2
76.4 25.8 -6.9	76.9 25.6 -7.7	1.0
89.0 -5.0 93.0	89.1 -5.3 95.4	2.5
90.3 -4.7 62.6	91.8 -5.0 65.4	3.2
92.2 -3.5 31.1	92.4 -3.8 32.2	1.1
53.1 37.7 28.9	54.9 37.5 28.4	1.9
41.5 22.7 16.8	42.9 21.5 15.6	2.1
31.9 40.0 24.0	32.1 39.3 22.6	1.6
32.5 44.5 -1.8	32.6 45.0 -3.9	2.2
51.3 1.3 44.5	53.1 1.2 46.1	2.5
34.6 -36.4 13.9	34.9 -38.1 15.1	2.1
36.0 -26.2 -20.9	37.1 -27.4 -20.4	1.7
20.9 9.6 -23.6	20.4 10.6 -25.3	2.0
89.0 0.0 -1.9	88.7 -0.8 -1.4	1.0
82.8 0.0 -1.7	82.7 -0.5 -2.0	0.6
69.3 0.0 -1.4	69.2 -0.5 -0.5	1.0
54.1 0.0 -1.0	54.1 0.3 -1.0	0.3
36.6 0.0 -0.5	36.7 -0.2 -0.7	0.3
16.0 0.0 0.0	16.2 -0.5 0.8	1.0
24.0 22.0 -46.0	23.6 25.1 -47.2	3.3
40.9 17.9 -36.6	42.5 19.1 -39.4	3.5
63.7 10.3 -23.8	64.8 11.0 -24.4	1.4
47.0 68.0 48.0	46.5 67.1 46.4	1.9
58.5 47.1 37.9	60.9 49.8 38.6	3.7
74.2 22.9 21.4	74.6 22.7 21.7	0.6
50.0 -65.0 27.0	51.7 -67.1 26.9	2.8
62.1 -39.8 21.0	62.6 -41.8 22.1	2.4
77.0 -19.1 11.0	76.4 -19.5 11.5	0.8
71.2 18.9 17.3	72.2 18.9 17.9	1.2
71.2 22.1 73.1	72.7 22.5 75.3	2.7
47.7 71.2 16.2	46.4 68.7 14.1	3.5
38.0 55.4 -20.9	37.8 56.5 -21.1	1.1
73.7 -22.8 67.6	76.5 -23.6 70.4	4.1
52.3 -52.3 -20.1	53.6 -53.5 -19.9	1.8
43.3 -17.0 -48.6	44.2 -16.9 -49.1	1.0
95.0 0.0 -2.0	95.2 -0.9 -1.5	1.0
88.5 -0.4 -3.1	88.4 -1.1 -3.2	0.7
82.0 -0.9 -4.1	82.0 -1.2 -4.2	0.3
67.7 -2.0 -4.4	67.8 -2.0 -3.7	0.7
52.2 -2.5 -3.5	52.1 -3.7 -3.2	1.3
37.5 -3.9 -3.1	37.5 -3.8 -2.0	1.2
26.3 -6.8 -3.4	26.0 -6.5 -2.9	0.7
Average		1.8
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	113.79 118.81 116.31	85 85 170	23.96 21.74 56.72
0 0 0	0.09 0.14 0.17	85 170 170	30.99 46.26 57.72
12 12 12	0.56 0.61 0.62	170 85 170	50.87 35.68 57.52
25 25 25	1.74 1.88 1.81	170 170 85	50.05 55.44 19.62
38 38 38	3.63 3.80 3.86	5 127 205	18.69 27.27 71.84
51 51 51	6.23 6.49 6.30	90 157 219	36.62 46.23 90.43
63 63 63	9.18 9.56 9.57	156 192 231	59.13 67.37 96.03
76 76 76	12.67 13.35 12.89	170 0 102	36.58 19.27 20.91
89 89 89	16.46 17.38 16.98	185 81 142	54.99 37.00 42.90
102 102 102	21.57 22.71 22.15	206 152 190	70.37 60.84 68.87
114 114 114	26.54 27.54 27.13	233 226 30	79.26 87.53 8.73
127 127 127	32.33 33.58 32.98	234 229 94	86.43 94.79 25.10
140 140 140	38.47 40.51 39.36	234 233 161	89.43 96.59 53.65
153 153 153	45.18 47.26 46.09	154 80 65	36.08 26.77 11.99
165 165 165	51.03 53.52 51.94	104 66 57	18.73 15.40 9.20
178 178 178	59.05 61.72 60.77	95 30 32	13.41 8.34 3.21
191 191 191	67.50 70.48 69.34	97 23 63	14.93 8.65 9.87
204 204 204	75.58 79.17 77.70	114 104 37	23.77 24.93 5.56
216 216 216	83.89 87.81 85.18	35 79 45	5.36 10.05 5.52
229 229 229	93.31 97.73 95.15	30 77 97	7.78 11.52 20.41
242 242 242	103.82 109.08 105.99	37 31 66	4.46 3.72 9.96
0 0 128	5.29 3.11 28.79	215 216 220	83.19 87.30 87.42
0 0 255	19.92 13.14 107.44	194 195 199	69.86 73.14 74.10
0 128 0	5.46 18.75 1.98	152 153 155	44.85 47.03 46.53
0 128 128	11.08 22.78 30.85	110 110 112	25.18 26.21 26.28
0 170 255	29.49 45.44 110.63	68 68 69	10.65 11.14 11.16
0 255 0	19.59 65.04 6.39	30 30 30	2.40 2.54 2.38
0 255 170	29.08 72.25 54.37	42 24 106	7.36 4.89 22.54
0 255 255	40.35 80.57 114.10	80 62 136	18.90 15.45 40.30
85 85 85	15.25 16.08 15.47	138 126 182	42.85 40.31 63.87
128 0 0	19.70 10.34 0.55	167 17 32	33.87 18.13 3.39
128 0 128	25.30 13.53 30.83	183 83 64	49.40 34.06 12.06
128 128 0	26.23 29.61 2.43	204 151 128	63.36 56.18 35.29
128 128 128	32.46 33.97 33.26	35 129 57	10.18 23.73 10.41
128 128 255	47.23 44.49 111.98	92 156 94	23.62 37.04 21.05
128 255 128	48.46 84.22 38.79	156 191 154	49.28 60.09 46.90
170 0 255	53.07 30.50 109.25	188 145 127	57.24 51.95 35.09
170 170 170	53.83 56.13 54.80	202 145 34	58.86 52.56 6.65
170 255 0	54.25 83.03 7.11	169 0 73	34.49 18.13 11.94
170 255 255	75.23 98.86 115.72	117 8 104	21.92 11.78 21.59
255 0 0	72.81 37.77 1.17	156 185 44	46.69 59.88 9.97
255 0 170	82.20 43.21 51.70	22 129 139	14.30 26.00 39.81
255 0 255	93.01 51.14 109.89	29 87 165	14.16 17.03 52.18
255 128 128	85.10 61.09 34.53	236 237 241	99.80 104.72 104.87
255 170 0	82.06 68.46 4.22	212 214 221	82.48 86.64 89.42
255 170 255	102.91 83.58 113.13	189 193 201	68.17 71.66 75.51
255 255 0	92.82 102.98 7.49	144 149 156	42.33 44.87 47.34
255 255 170	102.78 110.40 58.35	101 107 111	22.26 24.10 25.55
170 85 85	43.51 31.25 17.46	66 72 74	10.65 11.67 12.15
85 170 85	23.56 41.16 18.87	41 50 51	4.86 5.64 6.20