

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2008-5-12 20:33:37
Report-Version: v1.2.2
Monitor-Name: \\.\DISPLAY1
Profile: C:/WINDOWS/System32/.../HANNspree Verona XM UGRA K80.icc
Created: 2008-5-12 20:07
Measurement device: eye-one display

Summary

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

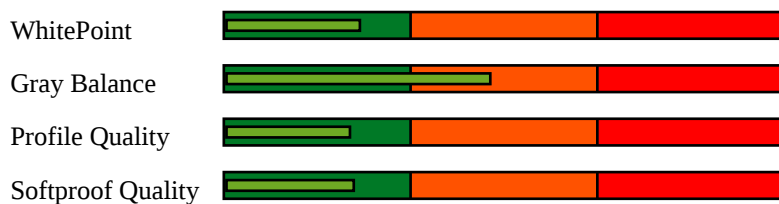
Calibration

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

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:	116.84 121.87 120.93
XYZ (normalized):	95.88 100.00 99.23
Luminance:	121.9 Cd/m2
Next Temperature:	5844 Kelvin
Assumed Target Whitepoint:	5800 Kelvin
Distance to assumed Target Whitepoint:	1.4 deltaE

Blackpoint

Luminance:	0.2 Cd/m2
Chromaticity:	2.4 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	19256	0.24	1.76	2.43	
5	6987	0.78	5.80	3.28	1.78
10	6160	2.17	14.28	2.16	1.79
15	5883	4.43	22.41	2.22	1.76
20	5870	7.36	29.50	1.40	1.76
25	5736	10.32	34.93	1.74	1.79
30	5938	14.74	41.37	0.87	1.76
35	5951	19.36	46.83	1.37	1.75
40	5837	24.52	51.97	1.17	1.75
45	5769	30.41	57.03	0.59	1.75
50	5836	36.58	61.67	0.09	1.74
55	5875	43.48	66.27	0.30	1.73
60	5820	50.99	70.76	0.65	1.72
65	5791	57.38	74.24	0.49	1.76
70	5862	65.71	78.42	0.46	1.74
75	5860	74.60	82.50	0.32	1.71
80	5832	83.72	86.35	0.33	1.70
85	5882	91.67	89.50	0.35	1.75
90	5787	101.74	93.22	0.65	1.72
95	5819	111.30	96.54	0.30	1.80
100	5844	121.87	100.00	0.00	
Average	5861			0.81	1.75
Range				2.85	

Tone values = 84.1%

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	1.7 -1.2 -2.2	-1.7 1.2 2.2	3.1
0 0 128	14.6 38.7 -71.3	0.4 -1.7 0.6	1.8
0 0 255	29.7 58.0 -107.2	1.2 -2.0 0.2	2.4
0 128 0	51.7 -58.6 43.8	-0.2 1.8 1.8	2.5
0 128 128	54.5 -41.4 -10.3	-1.0 2.5 -1.2	2.9
0 170 255	69.4 -31.3 -44.4	-0.4 2.5 -2.2	3.3
0 255 0	85.2 -85.6 69.6	0.8 -0.3 -0.7	1.1
0 255 170	87.5 -72.3 16.4	0.1 0.4 -1.9	2.0
0 255 255	89.1 -59.5 -15.3	0.1 0.6 -2.0	2.1
85 85 85	45.3 0.7 -0.6	-1.2 -0.7 0.6	1.6
128 0 0	33.4 53.8 43.0	-0.7 0.6 3.9	4.0
128 0 128	36.9 60.7 -36.1	-0.4 -1.1 1.4	1.9
128 128 0	59.7 -7.3 54.4	-0.7 -1.1 1.1	1.7
128 128 128	62.1 0.1 -0.1	-1.4 -0.1 0.1	1.4
128 128 255	65.8 16.3 -51.1	-1.2 0.3 -1.3	1.8
128 255 128	90.7 -49.2 36.3	-0.3 -2.1 0.1	2.2
170 0 255	50.2 77.4 -74.9	0.4 -1.3 1.1	1.7
170 170 170	75.7 0.1 0.1	-0.8 -0.1 -0.1	0.8
170 255 0	91.3 -40.5 77.8	0.5 -2.6 -1.2	2.9
170 255 255	94.9 -24.0 -8.0	-0.3 -1.5 -0.5	1.6
255 0 0	56.7 81.4 73.1	0.9 0.8 -1.3	1.7
255 0 170	59.4 86.6 -20.1	1.0 -0.4 2.3	2.5
255 0 255	62.4 90.7 -54.5	1.0 -0.6 2.2	2.5
255 128 128	74.6 42.8 19.8	-0.4 1.7 1.3	2.2
255 170 0	80.4 21.9 76.2	0.5 0.1 -0.3	0.6
255 170 255	84.6 33.5 -21.7	-0.3 1.2 0.2	1.2
255 255 0	96.6 -11.7 85.8	0.8 -1.0 -1.9	2.3
255 255 170	98.6 -6.2 31.8	0.1 -0.1 -0.1	0.2
255 255 255	100.0 -0.0 0.0	0.0 0.0 0.0	0.0
170 85 85	55.6 35.1 15.4	-0.9 -0.0 1.2	1.5
85 170 85	68.3 -39.8 27.8	-0.9 -0.6 0.8	1.4
85 85 170	48.0 13.9 -40.7	-0.9 -0.8 -0.6	1.3
85 170 170	69.9 -29.1 -8.8	-0.9 -0.3 -0.5	1.1
170 85 170	57.6 41.8 -25.1	-0.7 -0.4 -0.1	0.8
170 170 85	74.3 -6.8 36.8	-0.8 -0.1 1.0	1.3
Average			1.8
Maximum			4.0

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	58.3 -23.8 -43.8	14.9
66.9 -24.7 -37.1	67.8 -25.4 -35.9	1.7
79.7 -12.5 -21.8	80.5 -12.2 -20.9	1.2
48.0 74.0 -3.0	48.4 72.9 -4.5	1.9
60.8 50.6 -6.7	61.3 51.0 -7.6	1.1
76.4 25.8 -6.9	77.1 24.5 -7.3	1.4
89.0 -5.0 93.0	88.6 -3.2 79.3	13.8
90.3 -4.7 62.6	90.7 -5.3 62.8	0.8
92.2 -3.5 31.1	92.3 -3.5 30.9	0.3
53.1 37.7 28.9	53.8 37.5 28.4	0.9
41.5 22.7 16.8	42.7 24.1 16.1	1.9
31.9 40.0 24.0	33.3 40.6 22.1	2.4
32.5 44.5 -1.8	33.9 45.2 -1.5	1.6
51.3 1.3 44.5	52.3 2.3 43.2	1.9
34.6 -36.4 13.9	35.6 -38.4 12.3	2.7
36.0 -26.2 -20.9	37.1 -25.3 -19.0	2.4
20.9 9.6 -23.6	22.0 10.6 -24.0	1.5
89.0 0.0 -1.9	89.5 -0.1 -1.6	0.6
82.8 0.0 -1.7	83.4 -0.0 -1.8	0.7
69.3 0.0 -1.4	70.7 -0.3 -0.8	1.5
54.1 0.0 -1.0	55.5 0.3 -0.7	1.4
36.6 0.0 -0.5	37.4 1.5 -1.4	1.9
16.0 0.0 0.0	17.6 1.3 -1.6	2.6
24.0 22.0 -46.0	24.7 23.8 -45.7	2.0
40.9 17.9 -36.6	41.7 19.4 -36.6	1.7
63.7 10.3 -23.8	64.8 10.3 -23.8	1.1
47.0 68.0 48.0	47.1 67.8 45.6	2.4
58.5 47.1 37.9	59.0 46.7 36.9	1.1
74.2 22.9 21.4	74.8 21.7 20.6	1.6
50.0 -65.0 27.0	52.0 -54.6 27.8	10.6
62.1 -39.8 21.0	63.4 -39.8 20.2	1.5
77.0 -19.1 11.0	77.8 -19.1 11.2	0.9
71.2 18.9 17.3	72.1 17.9 16.7	1.4
71.2 22.1 73.1	71.5 21.6 68.3	4.8
47.7 71.2 16.2	47.6 71.4 14.0	2.3
38.0 55.4 -20.9	38.8 56.9 -21.0	1.7
73.7 -22.8 67.6	73.8 -21.0 64.4	3.6
52.3 -52.3 -20.1	55.1 -39.1 -15.0	14.4
43.3 -17.0 -48.6	44.6 -13.3 -44.9	5.4
95.0 0.0 -2.0	95.5 -0.1 -1.1	1.0
88.5 -0.4 -3.1	89.2 -0.2 -2.7	0.8
82.0 -0.9 -4.1	82.9 -1.0 -4.0	0.9
67.7 -2.0 -4.4	68.7 -1.7 -4.3	1.0
52.2 -2.5 -3.5	53.2 -2.0 -3.9	1.2
37.5 -3.9 -3.1	38.4 -2.8 -4.4	1.9
26.3 -6.8 -3.4	27.4 -5.3 -4.3	2.1
Average		2.8
Gamut-Volume		91 %

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	116.84 121.87 120.93	85 85 170	23.77 20.85 51.91
0 0 0	0.20 0.24 0.41	85 170 170	37.68 49.79 58.46
12 12 12	0.80 0.78 1.00	170 85 170	43.79 31.28 53.01
25 25 25	2.14 2.17 2.38	170 170 85	51.31 57.18 25.58
38 38 38	4.38 4.43 4.68	0 132 213	26.01 32.71 76.66
51 51 51	7.17 7.36 7.56	53 161 225	36.96 46.56 88.45
63 63 63	10.11 10.32 10.46	142 194 235	62.61 70.58 99.07
76 76 76	14.19 14.74 14.99	196 0 106	39.91 20.63 23.30
89 89 89	18.71 19.36 19.86	206 84 146	52.86 35.91 42.27
102 102 102	23.74 24.52 24.74	219 154 192	72.17 62.90 71.30
114 114 114	29.32 30.41 30.06	240 219 0	81.39 88.39 15.85
127 127 127	35.10 36.58 36.30	239 224 70	85.66 94.05 27.14
140 140 140	41.59 43.48 43.20	237 229 152	91.65 98.69 57.40
153 153 153	48.74 50.99 50.07	171 78 61	35.52 26.23 11.82
165 165 165	55.03 57.38 56.40	114 65 55	19.62 15.68 9.37
178 178 178	62.80 65.71 65.04	109 30 30	14.83 9.20 3.79
191 191 191	71.37 74.60 73.95	111 26 65	16.38 9.63 10.16
204 204 204	80.16 83.72 82.69	118 102 23	23.75 24.60 6.33
216 216 216	87.74 91.67 91.31	6 78 41	5.76 10.70 6.81
229 229 229	97.92 101.74 100.61	0 78 99	8.24 11.85 20.36
242 242 242	106.71 111.30 109.92	37 34 69	5.16 4.36 10.80
0 0 128	5.51 2.57 28.77	215 216 220	87.88 91.65 93.25
0 0 255	18.38 8.55 96.76	194 195 199	73.67 76.81 78.61
0 128 0	11.44 24.09 5.92	152 153 156	48.65 50.84 51.27
0 128 128	17.36 27.62 34.65	110 110 112	27.42 28.50 28.74
0 170 255	37.94 49.59 106.24	68 68 69	11.66 11.92 12.36
0 255 0	38.77 80.41 17.60	30 30 30	2.92 2.96 3.18
0 255 170	48.69 86.60 64.26	42 32 111	7.98 5.48 23.45
0 255 255	58.38 91.34 114.61	82 68 142	18.73 15.26 37.98
85 85 85	17.34 17.95 18.13	139 130 187	43.80 41.40 65.44
128 0 0	17.27 9.18 1.16	193 16 27	35.86 19.23 3.90
128 0 128	22.94 11.68 31.07	205 82 59	46.25 32.40 11.98
128 128 0	29.44 33.53 6.75	218 149 125	64.95 58.00 38.03
128 128 128	35.70 37.19 37.02	0 126 47	12.39 24.47 10.85
128 128 255	49.08 43.58 107.08	69 153 88	25.58 39.03 24.06
128 255 128	63.73 94.60 48.87	145 189 150	53.24 64.47 51.71
170 0 255	46.88 23.43 101.70	200 144 124	58.20 53.17 37.45
170 170 170	57.85 60.28 59.66	218 141 0	57.58 51.57 8.66
170 255 0	67.97 95.60 18.87	196 2 74	38.02 19.79 13.29
170 255 255	88.29 106.92 119.55	133 21 108	23.73 12.88 23.28
255 0 0	56.00 29.25 2.27	150 180 0	44.47 56.05 11.35
255 0 170	65.26 33.37 51.12	0 130 141	18.45 28.37 39.34
255 0 255	75.09 38.03 102.85	0 92 172	15.45 17.89 50.32
255 128 128	74.99 57.54 38.45	236 237 242	103.73 108.21 109.16
255 170 0	76.07 69.04 11.24	212 215 222	87.12 90.90 94.27
255 170 255	96.16 79.81 112.29	188 193 202	72.03 75.51 80.28
255 255 0	96.30 110.28 19.54	142 149 157	44.97 47.47 51.25
255 255 170	106.76 116.77 68.91	99 107 112	24.41 25.91 28.27
170 85 85	37.37 28.35 19.05	63 72 75	11.69 12.59 14.30
85 170 85	31.21 46.70 24.65	38 50 52	5.68 6.42 7.52