

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2007-9-26 10:44:39
Report-Version: v1.2.1
Monitor-Name: Cinema HD
EDID-Name: Cinema HD
EDID-Serial: 2A63300ZUG0
Profile: /Library/ColorSync/Profiles/Monitor_26-9-07_2.icc
Created: 2007-9-26 10:41
Measurement device: eye-one monitor

Summary

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

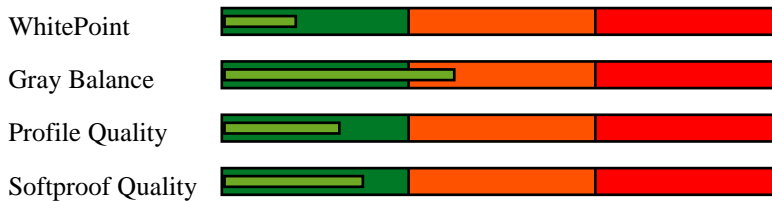
Calibration

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
Layout	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: 158.46 166.87 162.52
XYZ (normalized): 94.96 100.00 97.39
Luminance: 166.9 Cd/m2
Next Temperature: 5841 Kelvin
Assumed Target Whitepoint: 5800 Kelvin
Distance to assumed Target Whitepoint: 0.8 deltaE

Blackpoint

Luminance: 0.3 Cd/m2
Chromaticity: 1.9 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	11461	0.30	1.65	1.90	
5	6541	1.09	5.92	1.34	1.80
10	6241	2.96	14.25	1.30	1.80
15	5838	5.82	21.90	0.33	1.80
20	5824	9.64	28.84	0.15	1.79
25	5823	13.68	34.39	1.14	1.81
30	5801	19.39	40.61	0.52	1.81
35	5963	25.43	45.96	0.81	1.80
40	5808	32.67	51.36	0.24	1.79
45	5824	39.94	56.02	0.17	1.80
50	5846	47.82	60.48	0.20	1.81
55	5763	56.32	64.76	0.59	1.83
60	5754	66.78	69.48	0.85	1.81
65	5753	76.44	73.42	0.72	1.83
70	5741	88.26	77.81	1.18	1.81
75	5741	99.93	81.78	0.89	1.80
80	5760	112.10	85.59	0.74	1.80
85	5761	124.61	89.24	0.80	1.82
90	5748	138.51	93.02	0.94	1.81
95	5735	153.58	96.83	1.16	1.72
100	5841	166.87	100.00	0.00	
Average	5819			0.67	1.80
Range				2.48	

Tone values = 89.3%

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	1.6 0.2 -1.9	-1.6 -0.2 1.9	2.5
0 0 128	16.9 32.7 -70.3	-0.7 1.3 -1.2	1.9
0 0 255	33.3 50.5 -107.8	-0.3 1.2 -0.9	1.5
0 128 0	51.0 -53.1 54.1	0.1 -2.1 2.2	3.0
0 128 128	53.4 -36.1 -11.9	0.1 -1.5 0.5	1.6
0 170 255	69.4 -26.5 -49.1	-0.1 -0.7 -0.1	0.7
0 255 0	85.5 -81.5 84.1	-0.1 -2.0 0.9	2.2
0 255 170	87.3 -67.8 16.8	-0.1 -1.7 0.2	1.7
0 255 255	89.2 -55.0 -18.3	-0.1 -1.4 -0.0	1.4
85 85 85	44.2 0.3 -0.4	-0.3 -0.7 1.2	1.4
128 0 0	33.0 51.3 49.4	-0.3 1.1 3.5	3.7
128 0 128	37.1 55.9 -35.9	-0.2 0.9 -0.2	1.0
128 128 0	58.6 -7.8 65.9	0.1 -0.8 1.9	2.1
128 128 128	60.6 0.4 0.2	0.1 -0.7 0.4	0.8
128 128 255	65.1 16.3 -55.3	0.1 -0.3 0.1	0.3
128 255 128	90.1 -48.8 41.8	-0.1 -1.2 0.2	1.3
170 0 255	51.8 71.5 -76.3	-0.1 0.9 -0.5	1.1
170 170 170	75.0 0.2 0.4	-0.1 -0.5 0.1	0.5
170 255 0	91.4 -40.8 93.3	-0.1 -1.3 0.7	1.4
170 255 255	94.7 -23.6 -8.9	-0.1 -0.9 -0.2	0.9
255 0 0	57.5 78.4 85.8	0.1 1.0 2.1	2.3
255 0 170	60.8 81.9 -19.4	0.2 0.9 0.3	1.0
255 0 255	64.1 85.1 -55.3	0.2 1.1 -0.0	1.1
255 128 128	74.0 42.6 22.7	0.3 0.2 0.5	0.6
255 170 0	80.6 20.8 91.5	0.1 0.3 0.9	1.0
255 170 255	84.6 32.9 -23.3	0.1 0.5 0.1	0.5
255 255 0	96.9 -12.4 102.0	0.1 -0.2 0.5	0.6
255 255 170	98.4 -6.1 35.3	0.1 -0.2 0.3	0.4
255 255 255	100.0 0.0 0.0	0.0 0.0 -0.0	0.0
170 85 85	54.9 33.7 17.5	-0.2 -0.2 1.1	1.1
85 170 85	67.3 -38.1 32.1	-0.2 -1.4 1.2	1.8
85 85 170	47.6 12.8 -43.0	-0.1 -0.5 -0.1	0.5
85 170 170	69.1 -27.4 -9.6	-0.1 -1.0 0.1	1.1
170 85 170	57.3 39.7 -26.5	-0.1 -0.1 -0.0	0.1
170 170 85	73.4 -6.4 42.2	-0.1 -0.7 1.2	1.4
Average			1.3
Maximum			3.7

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
55.2 -39.9 -50.7	58.1 -20.6 -45.9	20.1
67.6 -27.1 -36.5	67.7 -26.4 -36.0	0.9
80.8 -13.8 -21.0	81.1 -13.5 -20.6	0.6
47.2 75.9 -3.8	49.4 69.4 -1.5	7.2
60.7 52.2 -7.1	60.8 51.8 -6.6	0.6
77.0 26.2 -7.7	77.0 26.7 -7.6	0.6
89.7 -4.5 94.7	89.8 -3.3 93.6	1.6
91.3 -4.6 63.1	91.6 -3.7 62.5	1.1
93.3 -3.3 30.6	93.8 -2.5 31.3	1.1
53.5 38.4 28.8	53.5 38.4 27.0	1.8
41.4 23.1 16.6	41.4 23.9 15.3	1.5
32.4 40.3 21.9	33.1 40.2 20.7	1.4
32.6 44.6 -1.8	33.5 43.8 -2.2	1.2
51.3 1.9 44.3	51.8 2.0 43.0	1.4
34.0 -40.9 14.5	34.7 -34.2 13.8	6.8
36.2 -30.6 -20.6	37.6 -22.1 -19.7	8.6
21.2 3.4 -23.0	22.3 3.9 -23.2	1.2
89.8 0.3 -3.5	89.9 1.0 -2.9	0.9
83.6 0.2 -3.7	83.8 0.3 -3.3	0.5
70.2 0.0 -3.7	70.1 1.0 -3.8	1.0
55.1 0.0 -3.1	55.7 0.5 -2.8	0.8
37.5 0.1 -2.1	37.7 1.2 -2.4	1.1
16.9 0.4 -0.4	18.3 0.9 -1.7	2.0
24.4 16.2 -47.1	25.3 16.2 -47.1	0.9
41.2 16.0 -36.5	41.4 16.1 -36.2	0.4
64.6 9.3 -23.6	64.6 9.8 -23.9	0.6
47.3 69.0 45.1	47.8 67.8 44.0	1.7
58.9 47.7 37.0	59.1 47.6 36.0	1.0
75.0 23.2 20.3	75.2 23.7 20.2	0.6
48.6 -67.5 28.0	50.4 -48.5 29.1	19.1
62.5 -41.7 22.4	62.7 -40.3 21.5	1.7
77.9 -19.6 11.3	78.0 -19.3 11.9	0.7
72.0 19.1 16.5	71.9 20.1 16.4	1.1
72.2 22.1 73.2	72.2 22.5 72.0	1.3
47.5 72.3 15.3	48.8 68.7 15.8	3.8
37.5 56.5 -21.1	37.9 55.7 -21.7	1.1
74.1 -22.1 69.3	74.4 -22.1 68.2	1.2
52.3 -55.2 -20.1	54.7 -35.0 -15.9	20.8
43.9 -20.9 -49.8	45.3 -10.9 -47.2	10.4
96.0 0.5 -3.3	96.3 1.0 -2.4	1.0
89.5 -0.1 -3.7	89.7 0.1 -2.8	0.9
83.0 -1.1 -4.3	83.3 -0.5 -4.2	0.7
68.6 -2.7 -4.0	68.4 -2.2 -3.7	0.6
53.0 -5.1 -2.3	53.4 -4.7 -2.9	0.8
37.8 -8.1 -0.9	38.4 -7.1 -1.5	1.3
25.9 -13.3 -2.2	26.7 -11.8 -3.1	1.9
Average		3.0
Gamut-Volume		95 %

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	158.46 166.87 162.52	85 85 170	31.39 28.04 72.20
0 0 0	0.30 0.30 0.49	85 170 170	50.16 66.32 77.57
12 12 12	1.04 1.09 1.21	170 85 170	57.92 42.31 72.64
25 25 25	2.82 2.96 3.10	170 170 85	67.54 75.88 28.68
38 38 38	5.55 5.82 5.72	0 134 209	35.87 44.36 105.96
51 51 51	9.17 9.64 9.39	46 165 221	49.33 63.58 118.75
63 63 63	13.16 13.68 13.61	143 199 234	85.57 98.49 134.81
76 76 76	18.36 19.39 18.63	198 0 104	54.70 29.51 30.36
89 89 89	24.15 25.43 25.34	210 79 145	71.15 48.16 54.59
102 102 102	31.03 32.67 31.62	223 154 195	99.45 85.99 96.39
114 114 114	37.99 39.94 38.89	242 222 17	114.19 125.29 14.59
127 127 127	45.33 47.82 46.47	242 228 94	120.56 132.04 38.11
140 140 140	53.57 56.32 54.19	241 234 165	130.27 140.64 80.25
153 153 153	63.41 66.78 63.91	175 77 68	48.22 35.48 16.34
165 165 165	72.79 76.44 73.55	115 63 58	25.05 20.06 11.95
178 178 178	83.73 88.26 84.10	112 28 36	19.92 12.43 5.35
191 191 191	95.20 99.93 96.02	113 23 65	21.49 12.83 13.61
204 204 204	106.79 112.10 108.12	119 102 37	31.51 33.00 8.26
216 216 216	118.52 124.61 119.84	0 78 43	7.85 13.98 8.15
229 229 229	131.86 138.51 133.08	0 80 98	11.99 16.66 28.56
242 242 242	146.13 153.58 147.03	32 37 67	6.41 6.13 14.43
0 0 128	7.93 4.25 41.55	217 218 227	121.67 127.15 129.73
0 0 255	27.23 14.34 145.21	196 198 206	101.40 106.46 109.59
0 128 0	15.93 32.10 4.81	154 155 164	65.50 68.31 71.70
0 128 128	23.54 36.03 46.20	112 113 119	37.68 39.45 41.01
0 170 255	53.56 67.95 153.59	70 70 74	16.02 16.59 17.42
0 255 0	54.83 111.51 15.57	32 31 33	4.18 4.32 4.58
0 255 170	67.67 118.10 85.31	35 35 111	10.10 7.83 33.51
0 255 255	81.84 125.51 161.44	81 68 139	24.17 20.57 50.10
85 85 85	22.27 23.37 23.03	142 132 186	58.88 56.42 87.83
128 0 0	22.41 12.23 0.82	198 0 38	50.10 27.11 5.93
128 0 128	29.98 16.13 41.97	209 80 68	63.78 44.60 16.69
128 128 0	38.01 43.98 5.15	223 151 134	90.67 80.42 52.32
128 128 128	45.71 47.97 46.49	0 124 51	16.59 31.27 12.69
128 128 255	64.99 58.06 150.57	62 157 92	33.42 52.18 30.40
128 255 128	84.64 127.34 57.34	146 193 156	72.38 88.73 68.85
170 0 255	64.34 34.33 146.09	204 145 132	79.75 72.17 50.28
170 170 170	76.69 80.63 77.99	222 143 34	80.61 72.33 10.63
170 255 0	92.04 131.49 16.13	199 0 77	52.79 28.53 17.98
170 255 255	119.08 145.55 161.74	136 8 105	30.60 16.72 30.55
255 0 0	76.69 41.42 1.57	151 183 37	61.08 78.38 13.91
255 0 170	89.46 48.02 70.98	0 131 140	25.57 38.23 53.13
255 0 255	103.53 55.41 146.72	0 95 171	22.17 25.27 72.35
255 128 128	99.95 77.14 47.31	239 240 248	144.79 151.44 153.04
255 170 0	103.01 95.01 8.88	215 218 226	119.97 126.17 128.58
255 170 255	129.94 109.04 154.62	191 197 206	99.18 104.65 109.49
255 255 0	131.23 152.50 16.63	144 152 159	60.11 64.37 67.53
255 255 170	144.05 159.06 86.38	98 110 112	32.50 35.84 37.40
170 85 85	48.88 37.67 23.39	59 75 73	14.96 17.27 17.60
85 170 85	41.05 61.64 28.26	29 52 50	6.53 8.36 9.16