

Colorimetric Report

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Date	Wednesday, March 20, 2024
Tester	Damian Köb
Display	Acer Nitro XV275UP3
Sensor	X-Rite i1 Display Pro (Corr.: Generic)
Testchart	In accordance with ISO 12646:2007 (1)
Target	DCI-P3 RGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

White Point (CCT)	6979 Kelvin
White Point XYZ (normalized)	96.33 100.00 118.07
DeltaE to D50/ D65	25.37/ 5.91
Assumed Target Whitepoint (2)	7000 Kelvin
DeltaE to Assumed Target Whitepoint	2.72
Brightness (3)	168.00 cd/m ²
Black Point (3)	0.05 cd/m ²
Contrast (x:1)	3360:1
Gradation (Average)	2.26

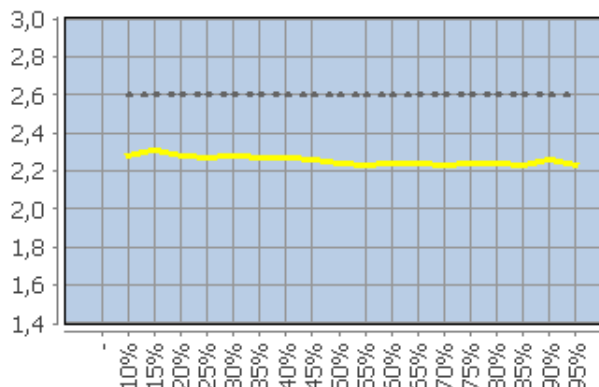
(2) Daylight (3) Measured separately

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	7592	1.25	2.89	2.28
	15	7739	1.10	4.55	2.31
	20	7222	0.69	5.36	2.28
	25	7148	0.39	5.78	2.27
	30	7142	0.46	5.64	2.28
	35	7190	0.98	5.85	2.27
	40	7170	0.84	5.61	2.27
	45	7140	0.93	5.61	2.26
	50	7122	0.88	5.52	2.24
	55	7094	1.00	5.37	2.23
	60	7098	1.11	4.92	2.24
	65	7093	0.79	4.29	2.24
	70	7056	0.95	3.90	2.23
	75	7103	0.86	3.33	2.24
	80	7105	0.85	2.76	2.24
	85	7095	0.74	2.18	2.23
	90	7126	0.94	1.56	2.26
	95	7080	0.68	0.99	2.23
	100 (4)	6979	-	-	-
	Average (5)	-	0.83	4.31	2.26
	Maximum (5)	-	1.11	5.85	-
	Range (5)	-	1.3	-	-

(4) Visual adaptation to display whitepoint is assumed

(5) Only luminance > 1% considered

Corresponding Gamma



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(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	0 0 0	0.00	0.00	0.00	0.00
	0 0 63	7.23	4.07	0.36	4.13
	0 0 127	9.61	3.96	1.78	3.37
	0 0 191	5.24	3.60	1.56	2.26
	0 0 255	8.35	1.14	2.46	2.75
	0 63 0	8.47	0.87	4.29	5.24
	0 63 63	3.57	0.05	5.15	5.48
	0 63 127	0.28	1.46	4.70	4.78
	0 63 191	2.31	0.38	3.56	3.60
	0 63 255	13.00	4.46	3.95	4.67
	0 127 0	3.44	9.86	5.90	7.33
	0 127 63	2.27	6.02	5.24	6.07
	0 127 127	3.36	0.44	5.24	5.40
	0 127 191	2.89	5.70	4.82	5.92
	0 127 255	12.57	9.03	4.85	6.74
	0 191 0	2.78	11.01	4.29	5.80
	0 191 63	2.86	8.66	4.16	5.31
	0 191 127	0.48	3.98	3.80	4.22
	0 191 191	0.95	0.56	3.58	3.60
	0 191 255	3.13	9.61	3.97	6.67
	0 255 0	12.34	7.69	0.18	2.75
	0 255 63	13.24	8.48	0.22	3.15
	0 255 127	10.96	6.49	0.25	2.86
	0 255 191	7.77	4.17	0.22	2.34
	0 255 255	2.66	0.43	0.66	0.96
	63 0 0	5.43	0.82	1.15	2.72
	63 0 63	8.51	0.33	2.16	3.83
	63 0 127	8.90	3.91	2.30	3.63
	63 0 191	5.05	4.25	1.77	2.57
	63 0 255	7.86	0.35	2.64	2.87
	63 63 0	4.21	0.78	4.78	5.14
	63 63 63	0.79	0.12	5.70	5.76
	63 63 127	1.24	0.72	5.21	5.25
	63 63 191	2.49	1.29	3.96	4.03
	63 63 255	12.91	2.51	4.37	4.86
	63 127 0	1.47	6.32	6.22	6.87
	63 127 63	2.03	3.25	5.65	5.93
	63 127 127	0.27	0.41	5.60	5.61
	63 127 191	4.40	3.20	5.17	5.68
	63 127 255	12.73	6.05	5.16	6.34
	63 191 0	6.16	7.41	4.51	5.33
	63 191 63	6.04	6.19	4.34	5.07
	63 191 127	3.50	2.60	3.98	4.25
	63 191 191	1.51	0.42	3.73	3.77
	63 191 255	4.69	7.81	4.11	6.14
	63 255 0	15.00	4.61	0.47	2.38
	63 255 63	15.44	6.12	0.47	2.84

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(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	13.24	4.57	0.50	2.70
	63 255 191	9.96	2.98	0.50	2.43
	63 255 255	4.71	0.32	0.89	1.51
	127 0 0	6.84	2.34	2.42	3.21
	127 0 63	5.85	6.00	2.20	4.33
	127 0 127	8.93	0.42	2.42	3.26
	127 0 191	5.09	4.40	2.15	2.93
	127 0 255	6.12	2.93	2.66	2.96
	127 63 0	0.31	0.28	4.20	4.21
	127 63 63	2.67	2.10	4.39	4.67
	127 63 127	0.26	0.28	4.36	4.37
	127 63 191	1.52	2.27	3.67	3.81
	127 63 255	11.32	0.04	4.06	4.41
	127 127 0	5.76	4.95	6.25	6.85
	127 127 63	3.83	3.12	5.43	5.88
	127 127 127	0.90	0.16	5.44	5.52
	127 127 191	5.26	0.19	5.12	5.41
	127 127 255	12.73	2.77	5.02	5.79
	127 191 0	9.57	4.54	4.46	5.08
	127 191 63	7.70	4.49	4.18	4.83
	127 191 127	4.83	1.60	3.86	4.18
	127 191 191	2.79	0.00	3.65	3.84
	127 191 255	6.61	4.37	3.95	5.18
	127 255 0	16.53	1.69	0.61	2.34
	127 255 63	17.03	2.91	0.59	2.66
	127 255 127	14.56	2.16	0.61	2.71
	127 255 191	11.34	1.60	0.60	2.75
	127 255 255	5.96	0.12	0.99	2.03
	191 0 0	2.65	6.10	0.82	2.62
	191 0 63	2.39	9.68	0.83	4.42
	191 0 127	7.50	5.10	0.85	2.99
	191 0 191	6.84	0.95	0.85	1.57
	191 0 255	2.71	3.72	1.57	2.06
	191 63 0	2.09	3.13	2.37	2.72
	191 63 63	3.22	5.48	2.63	3.73
	191 63 127	0.98	2.93	2.50	2.90
	191 63 191	1.27	0.66	2.24	2.28
	191 63 255	7.75	2.35	2.93	3.28
	191 127 0	11.53	2.71	4.55	5.25
	191 127 63	8.11	0.60	3.93	4.46
	191 127 127	4.09	1.15	3.82	4.18
	191 127 191	4.00	0.22	3.64	3.83
	191 127 255	10.61	0.20	3.80	4.36
	191 191 0	10.83	4.94	4.01	4.89
	191 191 63	8.64	4.34	3.79	4.63
	191 191 127	4.03	2.39	3.36	3.92
	191 191 191	0.80	0.19	3.17	3.27

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(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	191 191 255	7.83	1.92	3.54	4.61
	191 255 0	15.22	0.25	0.45	2.24
	191 255 63	16.15	1.23	0.45	2.58
	191 255 127	12.69	0.69	0.38	2.57
	191 255 191	9.13	0.67	0.37	2.70
	191 255 255	4.33	0.04	0.78	2.00
	255 0 0	2.36	6.72	2.25	3.19
	255 0 63	4.12	12.64	2.15	5.18
	255 0 127	2.38	10.99	2.00	4.88
	255 0 191	5.73	5.66	1.92	3.08
	255 0 255	0.27	0.14	0.96	0.96
	255 63 0	7.34	3.08	0.70	1.65
	255 63 63	9.16	7.86	0.49	3.36
	255 63 127	3.65	7.46	0.40	3.21
	255 63 191	0.20	4.63	0.42	1.91
	255 63 255	5.91	0.41	0.48	1.05
	255 127 0	17.43	1.43	1.71	3.27
	255 127 63	14.18	1.08	1.22	2.90
	255 127 127	9.57	3.15	1.29	2.98
	255 127 191	6.41	2.95	1.25	2.40
	255 127 255	9.46	0.87	1.59	2.42
	255 191 0	15.13	7.06	2.14	4.21
	255 191 63	14.12	5.82	2.02	4.10
	255 191 127	9.55	3.11	1.72	3.53
	255 191 191	6.31	0.76	1.58	2.96
	255 191 255	8.97	0.92	2.03	3.41
	255 255 0	14.27	2.74	0.55	2.38
	255 255 63	16.40	2.64	0.48	2.85
	255 255 127	12.51	1.26	0.44	2.78
	255 255 191	7.53	0.27	0.42	2.69
	255 255 255 (1)	-	-	-	-
	Average (2)	6.78	3.23	2.67	3.83
	Maximum (2)	17.43	12.64	6.25	7.33

(1) Visual adaptation to display whitepoint is assumed; CIELAB reference values are adapted (Bradford transformation) to display whitepoint
(2) Without Black

Color Space	Gamut Volume CIELAB D50
DCI-P3 RGB	89%

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Rendering Intent	-

(1) Five equally spaced code values for each channel

Property	Device adjustments
Backlight brightness	80
Brightness	172.7
Contrast	50
RGB Gain	
Gradation	
Other	