

Colorimetric Report

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Date	Wednesday, November 21, 2018
Tester	Oliver Jachmann
Display	Acer PE270K
Sensor	X-Rite i1 Display Pro (Corr.: WLED, XR)
Testchart	In accordance with ISO 12646:2007 (1)
Target	DCI-P3 RGB
Display Profile	Considered
Rendering Intent	Relative colorimetric

(1) Five equally spaced code values for each channel

White Point (CCT)	6272 Kelvin
White Point XYZ (normalized)	93.66 100.00 102.64
DeltaE to D50/ D65	15.84/ 4.60
Assumed Target Whitepoint (2)	6300 Kelvin
DeltaE to Assumed Target Whitepoint	3.17
Brightness	248.18 cd/m²
Black Point	0.24 cd/m²
Contrast (x:1)	1034:1
Gradation (Average)	2.63

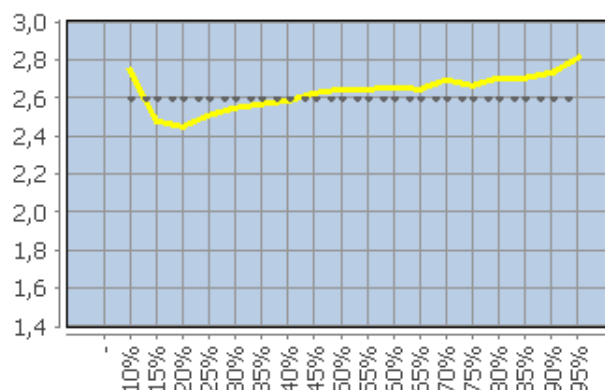
(2) Daylight

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	9094	1.32	1.47	2.74
	15	6796	1.77	2.40	2.48
	20	6371	1.58	2.92	2.45
	25	6134	0.57	1.69	2.51
	30	6371	0.79	1.14	2.55
	35	6361	0.57	0.72	2.57
	40	6300	0.80	0.83	2.59
	45	6231	0.20	0.36	2.62
	50	6268	0.37	0.67	2.64
	55	6322	0.32	0.60	2.64
	60	6299	0.17	0.68	2.65
	65	6249	0.20	0.49	2.64
	70	6283	0.53	1.04	2.69
	75	6257	0.18	0.52	2.66
	80	6276	0.07	0.67	2.70
	85	6301	0.28	0.59	2.70
	90	6305	0.59	0.75	2.73
	95	6287	0.14	0.44	2.81
	100 (3)	6272	-	-	-
	Average (4)	-	0.46	0.88	2.63
	Maximum (4)	-	1.58	2.92	-
	Range (4)	-	1.72	-	-

(3) Visual adaptation to display whitepoint is assumed

(4) 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	1.38	0.00	0.86	1.62
	0 0 63	1.96	1.53	1.06	1.70
	0 0 127	1.22	0.59	0.63	0.74
	0 0 191	1.30	1.00	0.50	0.67
	0 0 255	2.88	0.95	0.70	0.87
	0 63 0	6.01	4.52	2.17	4.12
	0 63 63	4.91	0.30	2.15	3.37
	0 63 127	3.03	0.75	1.82	2.10
	0 63 191	3.70	0.40	1.59	1.76
	0 63 255	3.53	0.93	1.06	1.23
	0 127 0	14.30	6.27	0.80	4.09
	0 127 63	12.12	6.07	0.87	4.37
	0 127 127	9.56	1.02	0.78	3.76
	0 127 191	2.81	5.72	0.95	3.57
	0 127 255	1.67	4.34	0.95	2.14
	0 191 0	18.48	9.62	1.12	4.55
	0 191 63	14.66	12.01	1.12	5.29
	0 191 127	14.07	8.58	1.08	5.11
	0 191 191	13.05	0.13	1.32	4.12
	0 191 255	6.00	8.44	1.19	5.09
	0 255 0	23.36	12.75	1.15	4.90
	0 255 63	17.08	17.25	1.09	5.89
	0 255 127	17.48	14.70	1.07	5.95
	0 255 191	18.78	8.23	1.03	5.16
	0 255 255	17.72	2.81	0.98	4.74
	63 0 0	1.35	0.78	1.97	2.13
	63 0 63	1.89	0.48	2.08	2.22
	63 0 127	1.85	0.23	0.85	0.96
	63 0 191	0.97	0.80	0.33	0.48
	63 0 255	1.82	0.87	0.18	0.42
	63 63 0	0.97	0.00	1.84	1.88
	63 63 63	0.25	0.02	1.83	1.85
	63 63 127	2.80	0.03	1.42	1.68
	63 63 191	3.08	0.13	1.14	1.30
	63 63 255	2.95	0.26	0.57	0.73
	63 127 0	7.30	2.89	0.18	2.09
	63 127 63	3.61	0.75	0.14	1.08
	63 127 127	1.84	0.56	0.13	0.90
	63 127 191	1.26	1.38	0.13	0.92
	63 127 255	1.33	1.63	0.26	0.80
	63 191 0	14.70	5.00	0.61	2.99
	63 191 63	10.49	7.62	0.61	3.52
	63 191 127	9.52	5.92	0.60	3.61
	63 191 191	9.07	0.31	0.86	3.00
	63 191 255	4.29	6.24	0.77	3.78
	63 255 0	20.98	9.91	0.85	4.06
	63 255 63	14.40	14.60	0.79	5.02

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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	14.86	12.35	0.77	5.07
	63 255 191	16.05	6.95	0.75	4.46
	63 255 255	15.35	2.69	0.70	4.22
	127 0 0	6.15	1.17	1.08	2.00
	127 0 63	5.26	0.43	1.11	1.91
	127 0 127	4.69	0.67	0.67	1.36
	127 0 191	2.69	0.87	0.42	0.73
	127 0 255	1.40	0.21	0.22	0.30
	127 63 0	5.26	0.55	0.37	1.53
	127 63 63	3.21	1.28	0.42	1.45
	127 63 127	2.89	0.24	0.44	0.98
	127 63 191	2.50	0.59	0.54	0.78
	127 63 255	2.47	0.09	0.21	0.43
	127 127 0	8.69	0.94	0.48	2.21
	127 127 63	3.18	0.01	0.47	1.15
	127 127 127	0.50	0.16	0.55	0.76
	127 127 191	0.20	0.46	0.30	0.41
	127 127 255	0.74	0.57	0.24	0.38
	127 191 0	9.12	3.28	0.51	2.09
	127 191 63	3.46	0.65	0.55	0.92
	127 191 127	1.24	0.70	0.57	0.77
	127 191 191	0.89	0.26	0.29	0.51
	127 191 255	0.43	1.39	0.38	0.91
	127 255 0	10.60	4.37	0.68	2.08
	127 255 63	2.98	0.82	0.74	0.89
	127 255 127	2.71	1.06	0.74	0.96
	127 255 191	3.13	0.44	0.73	1.04
	127 255 255	3.54	1.97	0.71	1.68
	191 0 0	9.52	0.61	1.40	2.24
	191 0 63	6.88	2.42	1.39	2.29
	191 0 127	6.76	1.40	1.26	2.06
	191 0 191	6.08	0.69	0.84	1.43
	191 0 255	4.30	0.98	0.41	0.83
	191 63 0	7.43	4.60	0.52	2.41
	191 63 63	3.47	2.50	0.50	1.49
	191 63 127	1.88	0.01	0.42	0.62
	191 63 191	1.97	0.72	0.31	0.59
	191 63 255	1.70	0.50	0.34	0.47
	191 127 0	10.71	3.17	0.67	2.66
	191 127 63	3.22	0.77	0.66	1.13
	191 127 127	0.78	0.71	0.66	0.85
	191 127 191	0.37	0.55	0.54	0.63
	191 127 255	0.21	0.06	0.57	0.58
	191 191 0	10.89	1.13	0.75	2.17
	191 191 63	3.36	0.21	0.74	1.03
	191 191 127	1.05	0.06	0.79	0.87
	191 191 191	0.27	0.14	0.50	0.59

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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	0.52	0.66	0.57	0.72
	191 255 0	10.83	4.09	0.42	2.12
	191 255 63	0.84	0.44	0.49	0.53
	191 255 127	0.97	0.42	0.48	0.54
	191 255 191	1.32	0.23	0.50	0.64
	191 255 255	1.48	1.33	0.55	1.24
	255 0 0	21.99	2.23	2.36	4.00
	255 0 63	15.39	2.18	2.39	3.55
	255 0 127	13.61	1.07	2.36	3.47
	255 0 191	10.42	6.24	2.19	3.74
	255 0 255	6.81	7.01	2.10	3.36
	255 63 0	18.91	7.09	4.19	5.56
	255 63 63	11.68	2.48	4.21	4.73
	255 63 127	8.50	4.64	4.14	4.86
	255 63 191	4.82	6.79	3.91	4.85
	255 63 255	1.31	6.66	3.60	4.31
	255 127 0	19.24	4.15	3.64	4.96
	255 127 63	10.36	0.49	3.63	4.10
	255 127 127	8.10	1.65	3.58	4.12
	255 127 191	4.78	5.51	3.31	4.37
	255 127 255	1.35	5.73	2.99	3.81
	255 191 0	15.30	2.49	1.91	3.30
	255 191 63	56.80	39.00	1.76	19.30
	255 191 127	4.05	4.05	1.92	3.08
	255 191 191	4.88	1.00	1.85	2.73
	255 191 255	1.20	3.60	1.71	2.67
	255 255 0	12.21	2.73	0.13	2.04
	255 255 63	0.57	1.10	0.22	0.46
	255 255 127	0.26	0.87	0.20	0.44
	255 255 191	0.50	0.62	0.06	0.43
	255 255 255 (1)	-	-	-	-
	Average (2)	6.71	3.08	1.10	2.45
	Maximum (2)	56.80	39.00	4.21	19.30

(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	76%

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(1) Five equally spaced code values for each channel

Property	Device adjustments
Backlight brightness	
Brightness	80
Contrast	n.a.
RGB Gain	n.a.
Gradation	n.a.
Other	Nur die Leuchtdichte lässt Änderungen zu