

Colorimetric Report

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CCalc 2.4
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Date	Monday, September 30, 2019
Tester	Denis Freund
Display	BenQ PD3220U
Sensor	X-Rite i1 Pro
Testchart	In accordance with ISO 12646:2007 (1)
Target	AdobeRGB
Display Profile	Not considered
Rendering Intent	-

(1) Five equally spaced code values for each channel

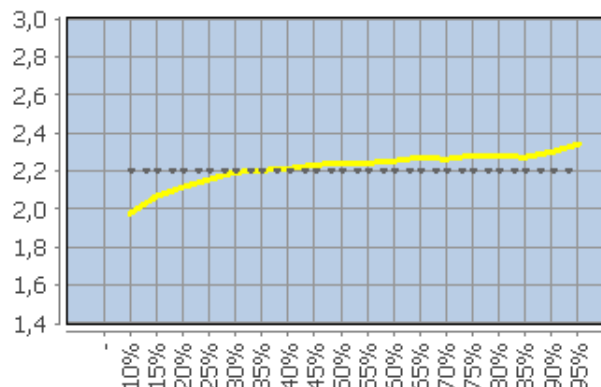
White Point (CCT)	6364 Kelvin
White Point XYZ (normalized)	96.67 100.00 109.65
DeltaE to D50/ D65	19.88/ 2.87
Assumed Target Whitepoint (2)	6400 Kelvin
DeltaE to Assumed Target Whitepoint	3.20
Brightness (3)	339.20 cd/m ²
Black Point (3)	0.25 cd/m ²
Contrast (x:1)	1357:1
Gradation (Average)	2.22

(2) Daylight (3) Measured separately

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	6867	1.35	4.04	1.98
	15	6878	1.12	2.62	2.07
	20	6706	0.89	1.94	2.11
	25	6620	0.82	1.27	2.15
	30	6576	0.74	0.76	2.19
	35	6518	0.58	0.59	2.20
	40	6504	0.56	0.62	2.21
	45	6511	0.64	0.79	2.23
	50	6515	0.72	0.93	2.24
	55	6457	0.61	0.89	2.24
	60	6524	0.87	1.11	2.25
	65	6483	0.73	1.11	2.27
	70	6466	0.68	0.97	2.26
	75	6489	0.86	1.13	2.28
	80	6433	0.63	0.85	2.28
	85	6463	0.92	1.01	2.27
	90	6466	0.91	0.98	2.30
	95	6464	1.02	1.05	2.34
	100 (4)	6365	-	-	-
	Average (5)	-	0.81	1.26	2.22
	Maximum (5)	-	1.35	4.04	-
	Range (5)	-	1.75	-	-

(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	1.03	0.00	0.45	1.12
	0 0 63	2.03	2.00	1.18	1.83
	0 0 127	2.21	0.63	1.10	1.23
	0 0 191	2.52	0.99	1.22	1.34
	0 0 255	2.41	1.20	1.71	1.79
	0 63 0	9.86	7.03	1.92	5.05
	0 63 63	7.72	1.57	1.97	4.04
	0 63 127	2.56	2.66	1.69	2.45
	0 63 191	2.71	2.10	1.72	2.03
	0 63 255	2.23	2.15	1.96	2.14
	0 127 0	16.23	12.05	0.99	5.77
	0 127 63	17.62	6.93	1.14	5.17
	0 127 127	13.47	1.69	1.14	4.49
	0 127 191	4.79	8.51	1.29	5.29
	0 127 255	0.58	7.83	1.56	3.96
	0 191 0	21.03	16.88	1.45	6.53
	0 191 63	21.85	13.59	1.44	6.14
	0 191 127	20.51	7.84	1.49	5.45
	0 191 191	17.74	1.75	1.64	4.87
	0 191 255	9.79	11.03	1.83	6.66
	0 255 0	24.69	21.09	2.44	7.16
	0 255 63	25.43	19.00	2.46	7.00
	0 255 127	24.71	14.88	2.46	6.68
	0 255 191	23.69	7.94	2.51	5.82
	0 255 255	21.36	1.78	2.65	5.37
	63 0 0	3.86	1.77	1.06	2.12
	63 0 63	0.45	3.58	0.53	2.26
	63 0 127	0.71	0.75	0.12	0.41
	63 0 191	1.36	0.23	0.46	0.52
	63 0 255	1.64	0.64	1.19	1.23
	63 63 0	0.68	1.09	0.89	1.17
	63 63 63	0.83	0.17	0.98	1.29
	63 63 127	1.75	0.36	0.96	1.15
	63 63 191	2.22	0.89	1.16	1.31
	63 63 255	1.77	1.36	1.50	1.61
	63 127 0	8.30	8.33	0.67	4.20
	63 127 63	11.57	5.75	1.20	4.50
	63 127 127	9.14	1.28	0.83	3.80
	63 127 191	2.66	6.83	1.01	4.32
	63 127 255	0.03	6.37	1.30	3.26
	63 191 0	15.36	14.58	1.21	5.79
	63 191 63	16.79	11.93	1.26	5.54
	63 191 127	16.51	7.43	1.34	5.12
	63 191 191	15.12	1.48	1.48	4.56
	63 191 255	7.93	10.29	1.66	6.31
	63 255 0	20.91	19.38	2.29	6.73
	63 255 63	21.75	17.59	2.31	6.61

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Rendering Intent	-

(1) Five equally spaced code values for each channel

	RGB	Delta C	Delta H	Delta L	Delta E94
	63 255 127	21.46	14.10	2.33	6.42
	63 255 191	21.16	7.79	2.38	5.64
	63 255 255	19.56	1.62	2.52	5.19
	127 0 0	7.09	0.99	3.59	4.01
	127 0 63	4.79	6.70	3.30	5.08
	127 0 127	0.84	5.30	2.74	3.77
	127 0 191	0.03	3.53	1.84	2.33
	127 0 255	0.26	2.27	0.86	1.17
	127 63 0	6.07	4.77	1.95	3.58
	127 63 63	7.69	1.46	1.69	3.35
	127 63 127	3.30	4.35	1.48	3.07
	127 63 191	1.56	3.25	0.97	1.80
	127 63 255	0.57	1.97	0.32	0.81
	127 127 0	0.99	1.59	0.83	1.18
	127 127 63	2.42	1.47	0.70	1.45
	127 127 127	0.64	0.20	0.15	0.69
	127 127 191	0.26	0.33	0.33	0.40
	127 127 255	0.82	1.20	0.09	0.61
	127 191 0	4.28	6.26	0.29	2.67
	127 191 63	5.57	5.30	0.33	2.67
	127 191 127	5.68	4.46	0.41	3.03
	127 191 191	6.82	0.81	0.56	2.91
	127 191 255	2.26	6.35	0.79	4.04
	127 255 0	10.35	12.84	1.61	4.75
	127 255 63	11.24	11.87	1.63	4.75
	127 255 127	11.46	10.39	1.65	4.93
	127 255 191	12.56	6.56	1.72	4.57
	127 255 255	13.04	1.16	1.82	4.15
	191 0 0	7.01	1.46	4.93	5.14
	191 0 63	8.52	5.42	4.72	5.63
	191 0 127	4.30	7.20	4.38	5.57
	191 0 191	1.25	6.86	3.62	4.60
	191 0 255	0.63	5.75	2.79	3.47
	191 63 0	7.09	4.52	3.93	4.62
	191 63 63	9.90	1.73	3.77	4.51
	191 63 127	6.40	5.56	3.57	4.81
	191 63 191	2.79	6.38	2.92	4.12
	191 63 255	0.53	5.56	2.21	3.07
	191 127 0	3.92	5.87	2.54	3.83
	191 127 63	6.68	3.81	2.41	3.66
	191 127 127	6.33	0.75	2.35	3.44
	191 127 191	2.40	4.39	1.95	3.33
	191 127 255	0.20	3.85	1.42	2.30
	191 191 0	0.20	2.04	0.97	1.31
	191 191 63	1.50	2.11	0.92	1.42
	191 191 127	0.46	1.57	0.85	1.34
	191 191 191	0.87	0.23	0.71	1.15

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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	1.04	0.05	0.45	0.60
	191 255 0	1.94	4.56	0.58	1.79
	191 255 63	2.65	4.26	0.61	1.83
	191 255 127	2.30	4.45	0.64	2.23
	191 255 191	3.28	3.78	0.73	2.54
	191 255 255	5.19	0.48	0.85	2.39
	255 0 0	6.42	2.35	5.14	5.31
	255 0 63	8.95	3.29	5.02	5.41
	255 0 127	6.61	6.06	4.81	5.56
	255 0 191	3.35	7.50	4.41	5.36
	255 0 255	0.55	7.51	3.79	4.67
	255 63 0	6.91	3.71	4.49	4.83
	255 63 63	9.55	1.20	4.40	4.76
	255 63 127	7.77	4.51	4.21	4.90
	255 63 191	4.68	6.74	3.84	4.86
	255 63 255	1.78	7.19	3.26	4.26
	255 127 0	5.41	5.34	3.44	4.16
	255 127 63	8.13	2.57	3.35	3.91
	255 127 127	7.91	0.83	3.19	3.78
	255 127 191	5.49	4.63	2.90	3.97
	255 127 255	2.31	5.92	2.44	3.62
	255 191 0	1.62	5.18	1.99	2.94
	255 191 63	3.59	4.51	1.95	2.92
	255 191 127	3.93	3.42	1.89	2.95
	255 191 191	4.50	0.47	1.74	2.56
	255 191 255	1.28	3.55	1.48	2.64
	255 255 0	0.48	1.16	0.39	0.60
	255 255 63	0.35	1.18	0.38	0.62
	255 255 127	0.31	0.90	0.34	0.57
	255 255 191	0.43	0.55	0.23	0.46
	255 255 255 (1)	-	-	-	-
	Average (2)	6.71	4.90	1.85	3.54
	Maximum (2)	25.43	21.09	5.14	7.16

(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
AdobeRGB	81%