

Colorimetric Report

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Date	Friday, November 25, 2022
Tester	Denis Freund
Display	BenQ PD3420Q
Sensor	X-Rite i1 Pro
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)	6720 Kelvin
White Point XYZ (normalized)	96.25 100.00 114.28
DeltaE to D50/ D65	22.93/ 3.87
Assumed Target Whitepoint (2)	6700 Kelvin
DeltaE to Assumed Target Whitepoint	2.70
Brightness (3)	341.30 cd/m ²
Black Point (3)	0.36 cd/m ²
Contrast (x:1)	948:1
Gradation (Average)	2.22

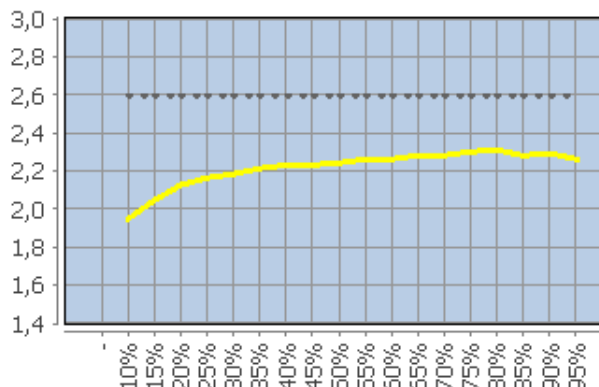
(2) Daylight (3) Measured separately

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	7171	1.29	8.12	1.95
	15	6969	0.52	9.17	2.05
	20	6918	0.61	8.41	2.12
	25	6852	0.55	7.93	2.16
	30	6823	0.41	7.44	2.18
	35	6813	0.33	6.94	2.21
	40	6813	0.49	6.39	2.23
	45	6795	0.47	5.99	2.23
	50	6778	0.29	5.49	2.24
	55	6786	0.45	4.88	2.26
	60	6784	0.34	4.42	2.26
	65	6778	0.36	3.83	2.28
	70	6765	0.26	3.29	2.28
	75	6822	0.60	2.74	2.30
	80	6786	0.88	2.24	2.31
	85	6786	0.44	1.83	2.28
	90	6766	0.31	1.18	2.29
	95	6759	0.36	0.76	2.26
	100 (4)	6720	-	-	-
	Average (5)	-	0.5	5.06	2.22
	Maximum (5)	-	1.29	9.17	-
	Range (5)	-	1.39	-	-

(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	0.96	0.00	0.96	1.36
	0 0 63	12.53	4.34	2.54	6.55
	0 0 127	2.89	0.67	3.27	3.35
	0 0 191	0.13	0.53	2.21	2.22
	0 0 255	2.76	0.11	1.01	1.08
	0 63 0	8.81	3.26	6.76	7.70
	0 63 63	3.11	0.24	7.48	7.66
	0 63 127	5.07	6.82	6.78	8.03
	0 63 191	9.09	6.09	5.35	6.22
	0 63 255	10.76	4.53	3.57	4.22
	0 127 0	3.70	0.54	4.51	4.58
	0 127 63	1.31	3.36	5.19	5.46
	0 127 127	1.86	1.24	5.40	5.51
	0 127 191	3.66	7.00	5.16	6.67
	0 127 255	10.58	7.43	4.44	5.90
	0 191 0	0.55	1.56	2.17	2.24
	0 191 63	5.07	3.40	2.64	3.06
	0 191 127	3.30	2.17	2.87	3.12
	0 191 191	0.40	0.91	2.94	2.99
	0 191 255	3.15	5.56	2.78	4.23
	0 255 0	2.34	2.29	0.16	0.76
	0 255 63	7.81	2.44	0.37	1.32
	0 255 127	7.72	2.84	0.51	1.64
	0 255 191	5.11	1.54	0.63	1.35
	0 255 255	2.61	0.88	0.52	0.94
	63 0 0	7.32	2.18	4.50	5.75
	63 0 63	7.60	1.03	5.50	6.22
	63 0 127	3.63	2.06	4.68	4.85
	63 0 191	0.02	1.72	3.33	3.40
	63 0 255	3.05	1.75	1.81	1.95
	63 63 0	8.24	1.32	7.30	8.17
	63 63 63	0.65	0.14	7.92	7.94
	63 63 127	4.43	1.36	7.42	7.59
	63 63 191	8.22	2.49	6.03	6.34
	63 63 255	10.49	2.23	4.14	4.50
	63 127 0	0.98	4.26	5.01	5.38
	63 127 63	5.21	0.56	5.67	5.86
	63 127 127	1.86	0.18	5.89	5.95
	63 127 191	4.79	3.31	5.63	6.15
	63 127 255	10.70	4.68	4.84	5.69
	63 191 0	1.81	4.62	2.51	3.02
	63 191 63	8.17	0.84	2.99	3.32
	63 191 127	6.66	1.04	3.22	3.60
	63 191 191	3.17	0.18	3.30	3.45
	63 191 255	4.60	3.54	3.09	3.91
	63 255 0	4.32	4.65	0.39	1.55
	63 255 63	10.31	0.43	0.61	1.50

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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	10.47	1.53	0.75	1.89
	63 255 191	7.64	1.01	0.86	1.81
	63 255 255	4.58	0.57	0.73	1.41
	127 0 0	2.71	2.26	2.50	2.84
	127 0 63	3.75	10.03	3.06	6.43
	127 0 127	5.82	1.36	3.36	3.70
	127 0 191	1.72	1.86	3.01	3.11
	127 0 255	2.25	2.88	1.96	2.21
	127 63 0	0.85	4.95	5.34	5.96
	127 63 63	4.70	3.36	5.89	6.47
	127 63 127	2.48	1.28	5.90	5.99
	127 63 191	5.76	0.25	5.27	5.40
	127 63 255	8.92	0.16	3.95	4.18
	127 127 0	1.74	0.07	4.76	4.78
	127 127 63	4.76	1.03	5.36	5.62
	127 127 127	0.41	0.14	5.57	5.58
	127 127 191	4.96	0.85	5.40	5.67
	127 127 255	10.36	1.73	4.74	5.25
	127 191 0	1.32	4.58	2.65	3.19
	127 191 63	8.20	0.30	3.08	3.48
	127 191 127	6.58	0.01	3.30	3.79
	127 191 191	3.39	0.17	3.37	3.67
	127 191 255	5.46	1.38	3.18	3.73
	127 255 0	4.85	5.96	0.57	2.07
	127 255 63	11.19	1.32	0.76	1.81
	127 255 127	11.46	0.04	0.91	2.17
	127 255 191	8.62	0.08	1.01	2.20
	127 255 255	5.68	0.36	0.87	1.91
	191 0 0	3.16	6.00	0.39	2.50
	191 0 63	3.38	14.62	0.76	6.60
	191 0 127	3.96	8.06	1.16	3.97
	191 0 191	3.21	1.90	1.28	1.60
	191 0 255	0.42	1.47	0.79	0.94
	191 63 0	6.19	0.44	2.55	2.81
	191 63 63	9.07	7.64	2.94	5.04
	191 63 127	2.97	5.50	3.22	4.27
	191 63 191	3.29	2.03	3.16	3.34
	191 63 255	6.32	0.15	2.50	2.69
	191 127 0	4.59	3.97	3.25	3.79
	191 127 63	10.01	0.75	3.76	4.56
	191 127 127	5.64	1.88	4.02	4.70
	191 127 191	5.22	1.66	4.01	4.40
	191 127 255	9.29	0.94	3.60	4.08
	191 191 0	1.14	0.59	2.02	2.04
	191 191 63	8.18	1.92	2.42	3.10
	191 191 127	5.47	1.18	2.65	3.33
	191 191 191	0.81	0.24	2.73	2.86

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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	5.13	0.74	2.59	3.18
	191 255 0	3.27	3.21	0.29	1.21
	191 255 63	9.98	0.01	0.48	1.62
	191 255 127	9.79	0.58	0.63	2.06
	191 255 191	6.44	0.29	0.72	2.01
	191 255 255	3.51	0.20	0.61	1.61
	255 0 0	9.79	10.72	1.14	4.00
	255 0 63	9.42	17.80	0.90	6.80
	255 0 127	0.43	13.19	0.56	5.35
	255 0 191	2.51	6.58	0.37	2.61
	255 0 255	0.64	1.23	0.61	0.75
	255 63 0	12.62	5.86	0.32	2.72
	255 63 63	13.25	12.21	0.63	5.13
	255 63 127	5.47	9.94	0.96	4.38
	255 63 191	2.61	5.46	1.06	2.48
	255 63 255	4.29	1.40	0.75	1.12
	255 127 0	12.37	0.89	1.39	2.41
	255 127 63	15.53	3.66	1.80	3.68
	255 127 127	9.67	5.08	2.08	3.90
	255 127 191	6.34	3.76	2.19	3.19
	255 127 255	8.18	1.38	1.98	2.57
	255 191 0	6.33	3.49	0.91	1.90
	255 191 63	13.00	1.72	1.27	2.84
	255 191 127	9.83	0.38	1.50	3.08
	255 191 191	4.99	2.06	1.62	2.86
	255 191 255	5.68	0.90	1.52	2.34
	255 255 0	4.18	0.90	0.38	0.79
	255 255 63	11.27	2.00	0.20	1.96
	255 255 127	10.49	1.60	0.04	2.36
	255 255 191	5.90	0.80	0.06	2.13
	255 255 255 (1)	-	-	-	-
	Average (2)	5.62	2.76	2.75	3.73
	Maximum (2)	15.53	17.80	7.92	8.17

(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	93%