

Colorimetric Report

Page (1/5)



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Date	Saturday, December 11, 2021
Tester	
Display	BenQ_EX3210R
Sensor	X-Rite i1 Pro
Testchart	In accordance with ISO 12646:2007 (1)
Target	sRGB
Display Profile	Considered
Rendering Intent	Relative colorimetric

(1) Five equally spaced code values for each channel

White Point (CCT)	6456 Kelvin
White Point XYZ (normalized)	95.17 100.00 108.38
DeltaE to D50/ D65	19.15/ 0.38
Assumed Target Whitepoint (2)	6500 Kelvin
DeltaE to Assumed Target Whitepoint	0.36
Brightness (3)	140.20 cd/m ²
Black Point (3)	0.07 cd/m ²
Contrast (x:1)	2003:1
Gradation (Average)	2.18

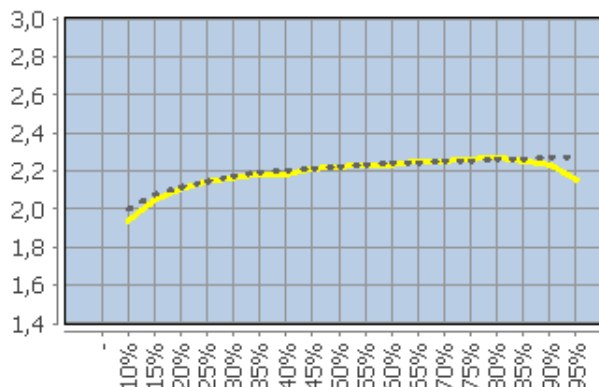
(2) Daylight (3) Measured separately

	Percent	Kelvin	Delta C	Delta E	Gamma
	5	-	-	-	-
	10	6387	0.80	1.41	1.94
	15	6590	0.39	0.58	2.05
	20	6517	0.81	0.92	2.10
	25	6516	0.18	0.20	2.14
	30	6558	0.70	0.72	2.16
	35	6555	0.70	0.70	2.18
	40	6429	0.11	0.36	2.18
	45	6503	0.22	0.23	2.21
	50	6544	0.47	0.48	2.22
	55	6526	0.39	0.39	2.23
	60	6498	0.29	0.30	2.23
	65	6496	0.36	0.36	2.25
	70	6501	0.36	0.36	2.25
	75	6500	0.31	0.31	2.26
	80	6502	0.53	0.54	2.27
	85	6460	0.19	0.21	2.25
	90	6481	0.25	0.29	2.23
	95	6455	0.01	0.23	2.15
	100 (4)	6455	-	-	-
	Average (5)	-	0.39	0.48	2.18
	Maximum (5)	-	0.81	1.41	-
	Range (5)	-	1.48	-	-

(4) Visual adaptation to display whitepoint is assumed

(5) Only luminance > 1% considered

Corresponding Gamma



Colorimetric Report

Page (2/5)



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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	1.21	0.00	0.69	1.40
	0 0 63	22.32	6.27	3.86	9.28
	0 0 127	23.86	2.80	6.89	8.72
	0 0 191	15.60	3.02	4.02	4.96
	0 0 255	6.08	2.97	0.99	1.64
	0 63 0	6.23	1.35	3.21	3.93
	0 63 63	2.29	0.50	1.82	2.24
	0 63 127	10.29	5.97	0.53	5.13
	0 63 191	14.48	5.84	0.60	4.19
	0 63 255	11.56	5.85	1.16	3.11
	0 127 0	5.46	0.55	1.71	2.16
	0 127 63	4.71	0.61	1.41	2.02
	0 127 127	1.13	0.06	0.76	0.90
	0 127 191	1.72	1.67	0.23	1.21
	0 127 255	0.40	0.93	0.66	0.80
	0 191 0	2.22	1.14	0.59	0.86
	0 191 63	1.31	0.96	0.50	0.71
	0 191 127	0.37	0.42	0.06	0.25
	0 191 191	0.91	0.19	0.08	0.35
	0 191 255	3.08	2.57	0.81	2.00
	0 255 0	4.16	2.28	1.91	2.18
	0 255 63	4.47	1.81	1.95	2.19
	0 255 127	5.65	0.50	1.91	2.23
	0 255 191	6.31	1.55	2.03	2.68
	0 255 255	3.65	0.98	2.47	2.77
	63 0 0	13.04	1.57	6.24	8.22
	63 0 63	13.94	0.32	4.57	6.62
	63 0 127	24.72	0.15	5.63	8.01
	63 0 191	17.85	0.70	2.52	4.04
	63 0 255	8.18	0.90	0.65	1.38
	63 63 0	0.91	0.57	1.22	1.32
	63 63 63	0.29	0.08	0.15	0.34
	63 63 127	8.12	1.41	0.43	3.02
	63 63 191	12.85	2.81	0.83	3.23
	63 63 255	11.14	2.85	1.78	2.78
	63 127 0	4.60	1.50	1.36	1.95
	63 127 63	4.52	0.73	0.92	1.81
	63 127 127	1.95	0.12	0.12	1.01
	63 127 191	2.35	0.00	0.42	0.95
	63 127 255	0.12	1.10	1.37	1.47
	63 191 0	3.25	0.70	0.24	0.73
	63 191 63	2.61	0.95	0.08	0.72
	63 191 127	1.77	0.77	0.05	0.67
	63 191 191	1.53	0.20	0.45	0.75
	63 191 255	1.46	4.38	1.37	3.02
	63 255 0	2.48	0.15	2.26	2.30
	63 255 63	2.82	0.42	2.23	2.28

Colorimetric Report

Page (3/5)



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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	3.52	1.39	2.32	2.50
	63 255 191	3.73	2.95	2.44	3.02
	63 255 255	0.42	1.10	2.95	3.02
	127 0 0	9.50	2.11	4.55	5.32
	127 0 63	7.50	2.28	2.91	3.92
	127 0 127	10.05	0.45	1.77	3.03
	127 0 191	12.84	0.99	1.31	2.76
	127 0 255	9.23	2.05	0.39	1.61
	127 63 0	2.17	3.16	1.35	2.35
	127 63 63	3.68	0.08	0.60	1.67
	127 63 127	6.07	0.08	0.03	2.02
	127 63 191	9.14	1.55	0.47	2.23
	127 63 255	7.34	2.60	1.41	2.12
	127 127 0	2.50	1.20	0.88	1.29
	127 127 63	2.65	0.61	0.65	1.27
	127 127 127	0.28	0.11	0.10	0.31
	127 127 191	1.54	0.16	0.31	0.67
	127 127 255	0.64	0.21	1.54	1.55
	127 191 0	2.27	0.92	0.21	0.66
	127 191 63	1.75	0.77	0.08	0.57
	127 191 127	1.13	0.51	0.26	0.57
	127 191 191	0.84	0.14	0.58	0.73
	127 191 255	3.06	3.73	0.93	2.79
	127 255 0	3.77	1.46	2.28	2.43
	127 255 63	4.46	1.06	2.31	2.49
	127 255 127	5.00	0.09	2.41	2.65
	127 255 191	5.24	2.32	2.43	3.15
	127 255 255	1.51	0.92	2.80	2.92
	191 0 0	4.76	3.05	2.70	3.18
	191 0 63	6.20	1.53	1.91	2.54
	191 0 127	6.59	0.07	1.36	2.06
	191 0 191	8.30	0.55	0.81	1.81
	191 0 255	6.64	2.80	0.17	1.46
	191 63 0	2.35	2.24	1.61	2.00
	191 63 63	4.22	1.06	1.25	1.79
	191 63 127	3.94	0.12	0.63	1.27
	191 63 191	5.38	0.53	0.02	1.22
	191 63 255	3.30	2.62	1.09	1.59
	191 127 0	1.08	0.84	0.76	0.91
	191 127 63	1.61	1.07	0.62	1.02
	191 127 127	0.62	0.02	0.19	0.34
	191 127 191	1.19	0.04	0.17	0.44
	191 127 255	2.00	1.43	1.11	1.38
	191 191 0	0.77	0.55	0.08	0.32
	191 191 63	0.50	0.24	0.07	0.19
	191 191 127	0.60	0.54	0.23	0.49
	191 191 191	0.31	0.13	0.02	0.33

Colorimetric Report

Page (4/5)



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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	4.43	0.70	0.51	1.87
	191 255 0	4.57	3.04	2.43	2.84
	191 255 63	4.97	2.64	2.29	2.73
	191 255 127	6.17	2.16	2.35	3.00
	191 255 191	6.27	0.02	2.33	3.23
	191 255 255	3.11	0.03	2.28	2.79
	255 0 0	0.35	0.83	0.45	0.56
	255 0 63	0.40	0.59	0.10	0.28
	255 0 127	0.73	1.91	0.51	1.00
	255 0 191	2.81	2.37	0.79	1.36
	255 0 255	2.18	0.78	1.49	1.56
	255 63 0	2.08	0.01	0.27	0.47
	255 63 63	1.13	0.75	0.37	0.55
	255 63 127	0.79	1.44	0.78	1.05
	255 63 191	1.14	2.20	1.05	1.45
	255 63 255	0.55	0.74	1.77	1.80
	255 127 0	2.67	4.14	0.42	1.94
	255 127 63	2.85	3.75	0.64	2.04
	255 127 127	3.78	0.26	0.88	1.42
	255 127 191	2.24	2.27	0.99	1.70
	255 127 255	2.93	0.23	1.69	1.82
	255 191 0	1.09	6.06	0.31	2.71
	255 191 63	1.33	5.88	0.34	2.90
	255 191 127	2.60	4.59	0.49	2.94
	255 191 191	4.13	0.08	0.69	2.07
	255 191 255	5.67	0.18	0.97	2.24
	255 255 0	4.10	1.30	3.47	3.60
	255 255 63	4.51	1.25	3.41	3.58
	255 255 127	5.18	1.16	3.02	3.36
	255 255 191	5.36	0.54	2.34	3.22
	255 255 255 (1)	-	-	-	-
	Average (2)	4.61	0.00	1.37	2.19
	Maximum (2)	24.72	6.27	6.89	9.28

(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
sRGB	95%

Colorimetric Report

Page (5/5)



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(1) Five equally spaced code values for each channel

Property	Device adjustments
Backlight brightness	
Brightness	40
Contrast	
RGB Gain	100 100 90
Gradation	2
Other	