



BenQ SW321C Online Factory Calibration Report



BenQ AQCOLOR Technology brings factory-calibrated colors to elevate your photo-editing flow. Enjoy the out-of-the-box color accuracy and bring your photographic works to life.

• Model Information

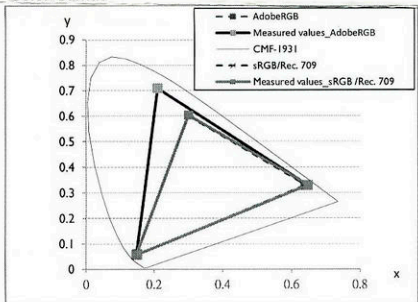
Model Name	SW321C	Serial Number	ETW5L02497SL0
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• Color Gamut & ΔE

ΔE Measurement Condition

Color Temperature:	6500K
Gamma Curve:	2.2
Color Gamut:	AdobeRGB
Input Signal:	Digital
Measurement Device:	Konica-Minolta CA310

Color Gamut



ΔE Measurement Result

Gamut Boundary Patch:

	R	G	B	W
x	0.6466	0.2103	0.1477	0.3126
y	0.3295	0.7094	0.0563	0.3292
u'	0.4570	0.0758	0.1747	0.1977
v'	0.5239	0.5756	0.1500	0.4684
	C	M	Y	
x	0.1738	0.3496	0.4125	
y	0.3299	0.1899	0.4923	
u'	0.1052	0.3053	0.2041	
v'	0.4491	0.3732	0.5482	

Standard Test Patch (ΔE₀₀):

Avg. ΔE:	0.32	Max. ΔE:	1.14
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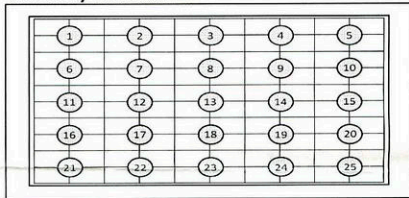
ΔE: ΔE is often used to evaluate the accuracy of color. ΔE < 1.00 means there is no perceivable difference for experts when comparing two colors side by side. ΔE < 3.00 means there is no significant difference an average person could perceive.

• Uniformity

Uniformity Measurement Condition

Color Temperature:	6500K
Gamma Curve:	2.2
Color Gamut:	AdobeRGB
Gray Level:	255
Measurement Device:	Konica-Minolta CA-2000

Uniformity Illustration



Uniformity Measurement Result in L*

1	2	3	4	5
100%	100%	100%	100%	100%
6	7	8	9	10
99%	99%	99%	100%	100%
11	12	13	14	15
100%	100%	100%	100%	99%
16	17	18	19	20
99%	100%	100%	100%	100%
21	22	23	24	25
100%	100%	100%	100%	100%

Uniformity in ΔE₀₀ (Digital Input = 255)

1	2	3	4	5
0.16	0.33	0.18	0.32	0.33
6	7	8	9	10
0.32	0.25	0.15	0.11	0.26
11	12	13	14	15
0.34	0.25	0.00	0.43	0.42
16	17	18	19	20
0.33	0.55	0.52	0.43	0.41
21	22	23	24	25
0.23	0.08	0.40	0.39	0.31

• Uniformity: BenQ uniformity technology is to meticulously fine-tune the color and brightness at hundreds of sub-regions across the entire screen for perfectly authentic and consistent viewing experiences.



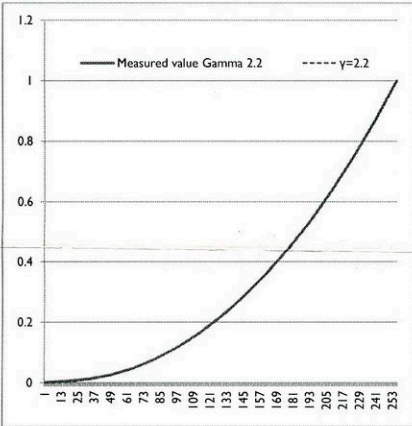
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• Gamma

Color Gamma



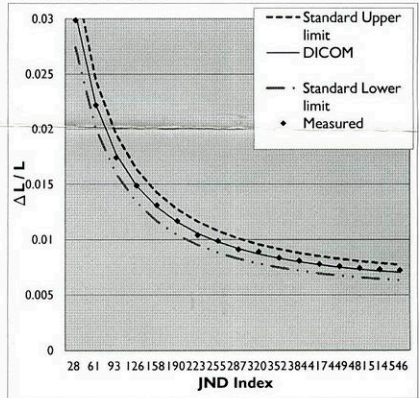
• **Gamma:** Gamma correction is to ensure that the gray scale of the monitor is well adjusted to reproduce smooth tonal gradations.

• DICOM

DICOM Result

Category	Specifications	Test Result
DICOM	AAPM-TG 18	PASS

DICOM Curve Result



• **Note:** AAPM On-Line Report No.03 "Assessment of Display Performance for Medical Imaging Systems" formulated by Task Group (TG) 18 of American Association of Physicists in Medicine.

This report shows the measurement result at the time of shipment. The result may vary depending on the measurement device and measurement condition. Note that the monitor characteristics may change with secular variation.



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