## Non-contact / Online Color Sensor



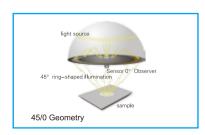
# CRX-50/51/52

## Instrument Advantages

- Built-in Calibration Tiles for Auto Calibration
- Full Wavelength Balanced LED Light Source with Long Lifetime

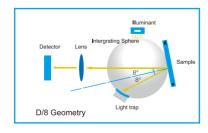
#### **CRX-50**

- 45/0 Geometry for Color Measurement
- Non-Contact and Instrument to Sample Distance 7.5mm
- Ultra Fast Measurement with Interval Only 20ms
- Measure with High Accuracy for Samples with Fluctuation ±3mm



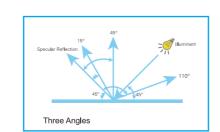
#### **CRX-51**

- D/8 Geometry for Color Measurement
- IP67 Protection Level, No Need Maintenance, Best Choice for Anodizing Products Color Test
- Non-Contact and Instrument to Sample Distance 0.5mm
- Good Consistency with Laboratory Test Result
- Ultra Fast Measurement with Interval Only 20ms



#### CRX-52

- Three Angles to Measure Color, Graininess and Grade Evaluation
- Measure Angles 15,45 and 115, Illuminate angle 45
- Good Consistency with Laboratory Test Result
- It is designed to measure car paint, effective paint, laser paper, mobile phone colorful shell, etc.



### **Application**





Automobile Spraying Line



Paint Coating



▲ Textile Production Line



A Paper Production Line



▲ Wood Production Line

#### **Technical Data**

Туре	CRX-50	CRX-51	CRX-52			
Illumination /	45/0,(illumination,	D/8(Diffused Illumi-	45° illumination, 15°,	Measurement Interval	2S	
Viewing System	0° Vièwing)	nation, 0° Viewing)- SCI (specular component included)	45°, 110° Viewing	Repeatability	Chromaticity Value: △E*ab standard deviation ≤0.03, Max. ≤0.05 (a white calibration tile is measured 30 times at 1 – second intervals	
Light Sources	CLEDs(Full Wavelength Balanced LED Light Source)				after white calibration)	
Sensor	Dual Light Path Sensor Array Silicon Photodiode				CIE-L*a*b,L*C*h,L*u*v,XYZ,  Yxy,Reflectance, WI(ASTM	
Measurement Distance	7.5±3mm(Repeatabilit in the case of Distance Fluctuations dE<0.1	y e 0.5mm )	Contact to Measure	Color Space and Other Indices	E313-00,ASTME313-73,CIE/	
Calibration Method	Build-in Calibration Tiles			Other Indices	D1925,ASTM E313–00,ASTM Grainines	Graininess
Protection Level	Without	IP67	Without		E313–73), Tint (ASTM E313, CIE, Ganz), Milm, Metamerism Index	
Wavelength Range	400-700nm				Milm, Staining Fastness, Color Fastness	
Wavelength Interval	10nm				$\Delta$ E*ab, $\Delta$ E*CH, $\Delta$ E*uv, $\Delta$ E*	
Half Band Width	5nm			Color Difference	cmc(2:1), $\triangle$ E*cmc(1:1), $\triangle$ E*94, $\begin{vmatrix} \triangle$ E*ab, $\triangle$ E*00	∆E*ab,∆Ec ∆Ep
Reflectance Range	0-200%			Light Source Lifetime	Whole Life Time Warranty	
Measurement Aperture	φ7mm	φ10mm(φ4mm optional)	φ7mm	Working Temperature	0–45°C, relative humidity 80% or below (at 35°C), no condensation	
Measurement Distance	7.5mm			Storage Environment	-25-55°C, relative humidity 80% or below	
Illuminants	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11, <u>F12,CWF,U30.DLF,NBF,TL83,TL84.U35</u>			Power Adaptor	(at 35 °C), no condensation	
Measurement Time	Min.20ms	Min.20ms	6s	Interface	USB or custom made	
Inter Instrument Agreement	ΔE*ab within 0.2 (BCRA Series II, average measurement of 12 tiles)  ΔE*ab within 0.5 (BCRA Series II, average measurement of 12 tiles)			Power		
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