



Non-contact spectrophotometer/on-line color sensor

CRX-60/62/66

45/0 structure (45° ring lighting /0° measurement)

Built-in calibration, no manual intervention, to ensure long-term stable operation

It can be used for wet film non-contact color detection and online color quality control



Repeatability: $dE^*_{ab} \leq 0.02$

Inter-instrument agreement: $dE^*_{ab} \leq 0.25$

Aperture size: 21mm

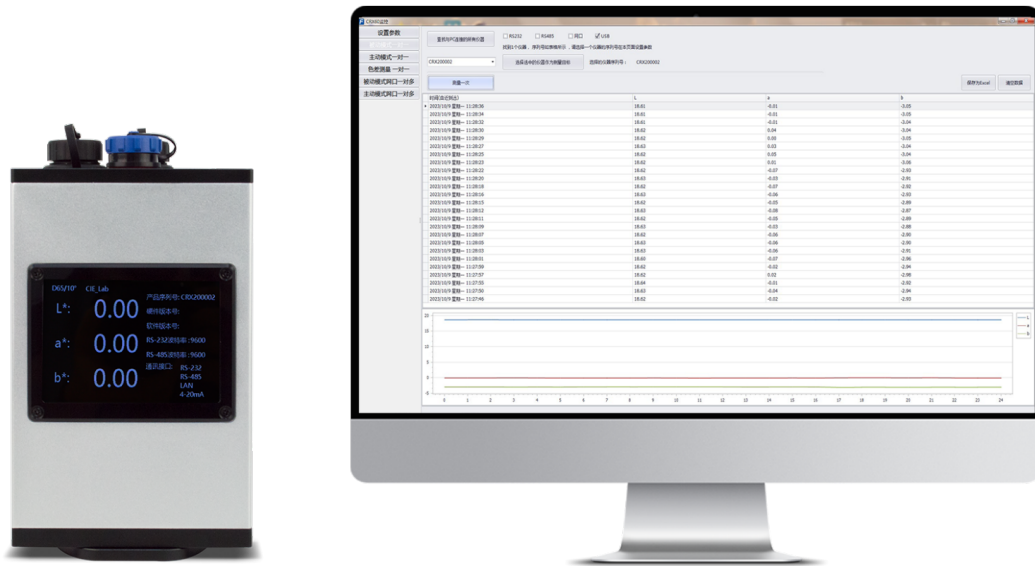
Non-contact distance: 5mm



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Product feature

- The method of color measurement with double light path spectroscopy has the advantages of high speed, high precision and good repeatability
- Can measure multiple indicators: color reflectance, CIE Lab, Lch, Luv, XYZ, Yxy, Hunter - Lab, etc., as shown in the parameter
- Waterproof and dust-proof, protection class IP66
- Support RS232, RS485, USB, network port, analog signal a variety of communication modes
- Use LED light source for longer service life
- Support internal calibration to ensure high instrument stability
- Comes standard with powerful PC data management software



- Model classification -

Model	CRX-60	CRX-62	CRX-66
appearance and colour	black	silver	silver
screen	No	Yes	Yes
repeatability	$dE^*ab \leq 0.1$	$dE^*ab \leq 0.05$	$dE^*ab \leq 0.02$
Inter instrument agreement	/	/	$dE^*ab \leq 0.25$
measurement index	2 types	27 types	27 types
Evaluation light source	3 types	37 types	37 types

Technical parameters

Model	CRX-60	CRX-62	CRX-66
Geometry*	45/0		
repeatability**	dE*ab≤0.1	dE*ab≤0.05	dE*ab≤0.02
Inter-instrument agreement***	/	/	dE*ab≤0.25
Display accuracy	0.01		
Measuring/lighting calibers	Φ8mm/Φ21mm		
Measurement index	CIE-Lab,XYZ	spectral reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE-Luv, XYZ , Yxy,RGB, chromatic aberration (ΔE*ab,ΔE*cmc,ΔE*94,ΔE*00), whiteness (ASTM E313-00,ASTM E313-73,CIE ISO2470/R457, AATCC,Hunter,Taube Berger Stensby),yellowness(ASTM D1925,ASTM E313-00,ASTM E313-73),blackening(My,dM), color fastness,color fastness,Tint(ASTM E313-00),color density CMYK(A,T,E,M)	
Light source condition	A,C,D65	A,B,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,C WF,U30,U35,DLF,NBF,TL83,TL84,ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4,LED-B5,LED-BH1,LED-RGB1,LED-V1, LED-V2	
Lighting source	Full band balanced LED light source		
Field angle	2°, 10°		
Meet a criterion	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7		
Spectroscopic method	Nanobeam splitting device		Raster
SenSor	Silicon optical array device		Dual-row high-precision CMOS array sensor
Wavelength interval	10nm		
Wavelength coverage	400-700nm		

Reflectance measurement range	0-200%	
Reflectance resolution	0.01%	
Measurement and observation mode	Visual	
Calibration	Intelligent automatic calibration	
Accuracy guarantee	Ensure the first level of measurement	
Measuring time	Single measurement 110ms	Single measurement 50ms
Measuring interval	1s	
Port	USB, 485, 232, External trigger, analog output, Ethernet	
Screen	No	Full color screen, 3.5 inches
Light source lifetime	1 million times in 10 years	
Language	/	Simplified Chinese, English
Non-contact distance	5mm	

*45° Angle ring lighting /0° Angle reception

**The whiteboard was calibrated to measure 30 standard deviations at 5-second intervals

***The average value of BCRA Series II 12 swatches was measured

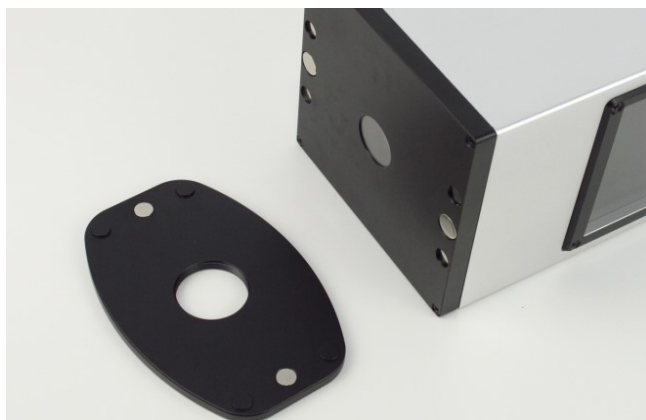
Product detail pictures



△ Display screen



△ Ports, power switches



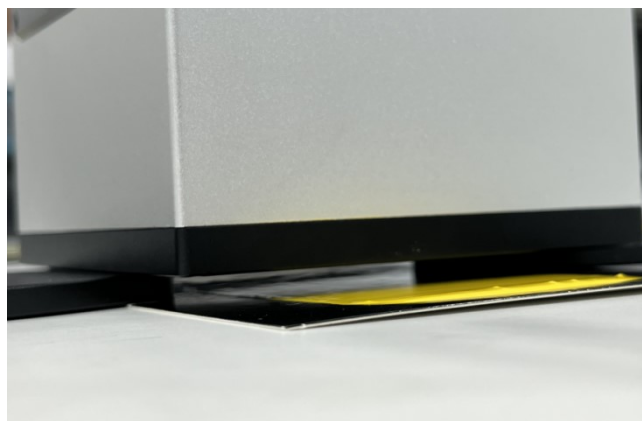
△ Install aperture plate/test port



△ Set screw joint



△ Online color quality control



△ non-contact measurement

Product photoes



Serial number	content	quantity	Serial number	content	quantity
1	Host	1	7	USB flash disk	1
2	Power adapter	1	8	Mounting plate	1
3	Power communication line	1	9	Black calibration box	1
4	USB communication line	1	10	Calibrated whiteboard	1
5	Network port communication line	1	11	Warranty card	1
6	One tow three communication lines	1	12	Suitcase	1

Application



▲ Anodizing Products



▲ Paint Coating



▲ Paper Production Line



▲ Automobile Spraying Line



▲ Textile Production Line



▲ Wood Production Line

Technical support

1. One year warranty
2. After sales support : winnie@colorspec.cn



Company Profile

CHNSpec Technology (Zhejiang) Co., Ltd



CHNSpec Technology (Zhejiang) Co., Ltd. is a leading chinese enterprise in the field of color and appearance measure device, mainly engaged in the research and development, production, and sales of color detection equipment. the products include colorimeter, spectrophotometer, transmittance haze meters, gloss meter , paint color matching software, hyperspectral cameras, and are widely used in industries such as plastic, coatings, printing, automotive parts, metals, home appliances, universities, and research institutions both domestically and internationally. CHNSpec Technology (Zhejiang) Co., Ltd is located in Xiasha Higher Education Park, Hangzhou City. The main responsible person of the company has a senior professional title and a doctoral degree or above. The company has introduced R&D teams from well-known universities such as Zhejiang University and

China Jiliang University. The development of color spectrum has attracted the attention of domestic experts and scholars, and has cooperative relationships with authoritative research institutions such as the Zhejiang Provincial Key Laboratory of Modern Metrology and Testing and Instruments, the National Engineering Center for Metrology and Testing Technology of the Ministry of Education, etc. With the care of various experts, the technical level and research and development capabilities of CHNSpec Technology (Zhejiang) Co., Ltd have achieved leapfrog development and achieved remarkable results. CHNSpec Technology (Zhejiang) Co., Ltd has a number of invention patents, including one American invention patent, a number of utility model patents, appearance patents, and software copyrights. In addition, multiple invention patents are still in the announcement stage. CHNSpec Technology (Zhejiang) Co., Ltd has published multiple papers in domestic first-class scientific research journals and has been included in SCI and EI.

Qualifications and Honors



Patent technology



Product certificate



CE Certificate



Full Test Report



RoHS Certificate



FCC Certificate



UKCA Certificate



Verification Certificate
of National Institute of Metrology

Participate in standard development



Specification for calibration of Pt-Co colorimeters

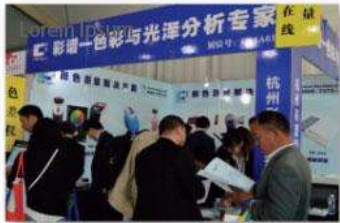
Leather color fastness test - Change in color under accelerated aging conditions (QB/T 5250-2018)

Leather Color Fastness Test - Color Migration onto PVC Film (QB/T 5252-2018)

Textiles - Quantitative analysis of polyester blended fabrics - Hyperspectral method

Color fastness test - Rating of staining on adjacent fabrics - Hyperspectral method

Industry conferences



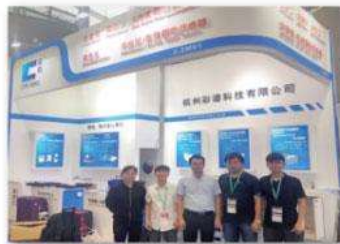
Chinaplas 2016



2016 CHNSpec Technology Seminar - Dongguan Station



2016 CHNSpec Technology Seminar - Guangzhou Station



Chinaplas 2019



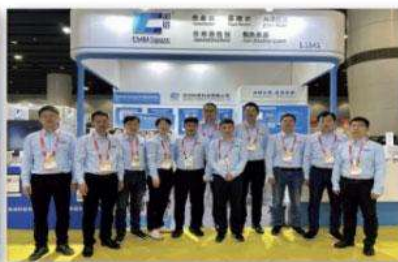
The CHINACOAT Series Of Exhibition 2020



United Coatings Conference 2022



2023 Chongqing Color Masterbatch Annual Conference



The CHINACOAT Series Of Exhibition 2023



2023 Shanghai Sewing Industry Annual Conference

Partners

Testing organization



河北省计量质量检测研究院



浙江省计量测试研究院



国家计量校准验证检验检测中心(浙江)



中国计量科学研究院公共服务业标准化学研究所



浙江省计量质量检测研究院



国际科技实验室认可委员会

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WOTE 沃特股份

Electronic appliances



OPPO



MI



HUAWEI



VIVO



Hisense



GREE 格力

Textile



COATS



adidas



CONVERSE



YISHION 以纯



苏州圣德科技股份有限公司



SHANGTEX 上海盛德

Food



康红



TSINGTAO 青岛啤酒



西天



金生



红星二锅头



XINSHENG

Home decoration



KUKA 库卡家居



YIJIA 宜家家居



LIPANG 立邦



TUBAO 兔宝宝



Bairun 百润



SIDA 中国·步阳

Paint



SHERWIN WILLIAMS



CAPAROL 卡邦漆



JAIHO 大宝漆



KEYTEC COLOURS



ZHANCHEN 展辰涂料



三棵树