YS30 series Spectrophotometer

- Concave-Grating Spectral
- USB/Bluetooth dual modes
- Switchable Φ 8/4mm Aperture

Perfect partner for color measurement

YS3010、YS3020、YS3060 Grating spectrophotometer are developed by 3nh independently, features with stable performance, precise measurement and powerful functions in leading position of same industry.

YS3060 UV Grating Spectrophotometer

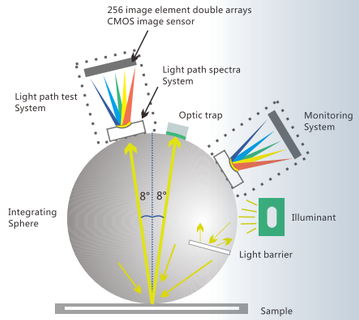
Full Illuminants + UV, 8mm&4mm Apertures, SCI&SCE,Bluetooth Comm, High Precision.

YS3020 Grating Spectrophotometer

Multi-illuminants, Customizable Aperture, SCI&SCE, Bluetooth Comm, High Precision.

YS3010 Grating Spectrophotometer

4 Illuminants, 8mm Aperture, SCI&SCE, Good Precision.



Grating spectrophotometer light path system

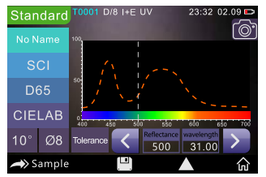
PRODUCT CHARACTERISTICS

1.D/8 geometrical optics, conforms with CIE No.15,GB/T 3978,GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil;
2.Combined long life LED light source, including/excluding UV;
3.Switchable Φ8/4mm aperture, adapt to more samples;
4.USB/Bluetooth 2.1, dual modes, widely useful;
5.Support both SCI and SCE modes measurement;
6.Camera Locating Function, better position;
7.Super stain-resistant and stable white calibration plate;
8.Large capacity storage space, over 20,000 measurement data;
9.With full illuminants and many color indexes for color measurement;
I0.PC software has a powerful function extension.

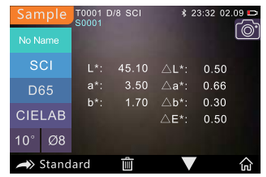
PRODUCT HIGHLIGHTS

YS30 Series grating spectrophotometer adopts bluetooth and USB dual modes for wider use, and with SCI & SCE measurement data, it is compatible with many famous brands. 8mm, 4mm or customized aperture is optional. Speical UV light makes YS3060 easy to measure sample with UV more accurate. And extended PC software let it be good partner for colorist and color quality contral management.

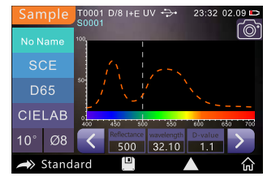
Standard Measurement



Standard Reflectance



Sample Measurement



Sample Reflectance

APPLICATION INDUSTRY

Grating spectrophotometer can easily implement accurate color transmission, also can be used as a precision color testing Equipment. It's widely used in plastics, electronics, painting, ink, textile and garment, printing and dyeing, printing paper, Automotive, medical, cosmetics and food industries, scientific research institutes, schools and laboratories.

Automobibe

Leather

Plastics

Paint

Foodstuff

Laboratory

Others

SPECIFICATION PARAMETER

Specification			
Model	YS3060	YS3020	YS3010
Illumination/ observation system	reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle) ; UV Included/UV Excluded	reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)	
Integrating Sphere Size	Φ48mm		
Light Source	Combined LED sources,UV sources	Combined LED sources	
Spectral Mode	Concave-Grating		
Sensor	256 Iimage Element Double Arrays CMOS Image Sensor		
Wavelength range	400~700nm		
Wavelength pitch	10nm		
Half bandwidth	10nm		
Reflectance range	0~200%		
Measurement Aperture	MAV: Φ8mm/Φ10mm;SAV:Φ4mm/Φ5mm	Customizable: Φ4mm/Φ8mm/1*3mm	MAV: Φ8mm/Φ10mm
Light-included Mode	both SCI&SCE modes		
Color Spaces	CIE LAB,XYZ,Yxy,LCh,CIE LUV,HunterLAB		
Color Difference Formulas	ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00v,ΔE(Hunter)		
Other Colorimetric Data	WI(ASTM E313, CIE/ISO,AATCC,Hunter)		
	YI(ASTM D1925,ASTM 313)		
	TI(ASTM E313,CIE/ISO)		
	MI,Strength,Staining fastnes,Cover Ratio, 8°gloss value		
Observer	2°/10°		
Illuminant	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30,TL83,TL84,U35		
Display Data	Spectrogram/Values,Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Assessment		
Measurement Time	Approx. 1 second(Approx. 2.6 second in SCI&SCE)		
Repeatability	Spectral reflectance: MAV/SCI, Standard deviation within 0.08%(400~700nm::within0.18%)	Spectral reflectance: MAV/SCI, Standard deviation within 0.1%(400~700nm::within0.2%)	
	Chromaticity value: Standard deviation withinΔE*ab 0.03	Chromaticity value: Standard deviation withinΔE*ab 0.04	Chromaticity value: Standard deviation withinΔE*ab 0.05
Inter-instrument agreement	WithinΔE*ab 0.15 (MAV/SCI)(Average for 12 BCRA Series II color tiles)	WithinΔE*ab 0.2	
Measurement Mode	Single Measurement,Average Measurement(2~99times)		
Locate Mode	Camera Locating		
Size	(L*W*H)184*77*105mm		
Weight	Approx. 600 g		
Battery Performance	Li-ion battery. 5000 measurements within 8 hours		
Lamp Life	5 years, more than 1.6 million measurements		
Screen	3.5-inch TFT color LCD,Capacitive Touch Screen		
Interface	USB/RS-232,Bluetooth 4.0 dual mode		
Storage	Standard\1000, Sample\28000 (SCI&SCE can be included in one data)	Standard\1000, Sample \20000 (SCI&SCE can be included in one data)	
Languages	Chinese, English		
Standard Accessories	Power Adaptor,Built-In Li-ion Battery,User manual,CD-ROM (containing management software), White and Black Calibration Cavity,Dust Cover		
Optional Accessories	Micro Printer, Powder Test Box		

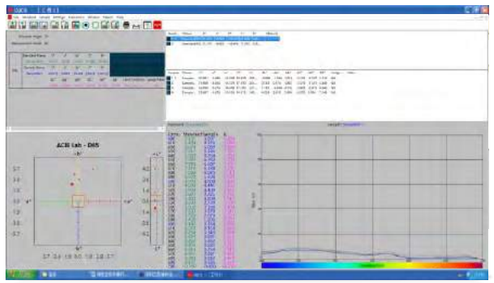
We are the leader in color measurement instruments and color matching technology industry.

PEI color

PRODUCT INTRODUCTION

PEI Color is a PC simulation color matching software, including customer color database and self-develop color calculation model. Colorist imput the added colors into the software, which can calculate relevant value of Lab.Then colokist adjust the dosage of pigment in the soflware.Till the value approach the standard lab. After that you will see the formula in the software. Software can also automatically record every step of color matching as a new formula. After a period of accumulation, you can find the similar color formula and can easily correct the color . Our software is of simple operation and utility function, which is not only a good tool for colorists,but also a simulator for newbies to learn color matching.

PEI COLOR MAIN INTERFACE



COLOR QUALITY MANAGEMENT INTERFACE

PRODUCT FEATURES

PEI color helps to shorten delivery time,accelerate production process, reduce production cost, and enhance competitiveness. With built-in special calculation module,it is convenient to caculate and adjust dry weight and material weight in the production.

1. Color correction: correct the color difference in production.
2. Formula record and search: record every formula automatically in color matching process, search by various of items.
3. Lefover pigment calculation: once color matching finished,it will calculate the leftover pigment to of each color. This makes the next color matching more convenient.
4. Weight ratio display: weight and ratio display modes, free choice according to your operation habits .
5. Color quality control: display chromatogram, metamerism, and have function of color difference quality control

APPLICATION INDUSTRY

Widely used in paints, coating, textile, plastics, ink, rubber, printing, paper, glass, cosmetics, dental care etc.

Paint Pigment Textile Plastic Rubber Cosmetic Others