



Product features:

The test probe and the tested sample are non-contact to realize non-contact precision color measurement of liquid, paste, powder, etc. It is mainly applied to accurate color measurement and quality control of automatic production lines; The measurement time can be adjusted from 0.2 to 1.5 seconds, and the software functions can be customized (additional customized functions need to be evaluated).

D/8

Non-contact spectrophotometer

YL4668

Product Introduction:

YL4668 spectrophotometer is a color measuring instrument using the D/8 (diffuse illumination, 8 ° direction reception, SCI including specular reflection) standard. The simple probe design allows this product to be placed anywhere on the automated production line for accurate color measurement and color quality control. It is widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronics, paint and ink, printing, ceramics and other industries, and can be used for fluorescence sample measurement. Its unique innovative design can not only provide non-contact measurement scheme directly from the production line, but also ensure stable and high-precision measurement results.

7in color touch screen

7in color large screen, clearer display, more convenient viewing results



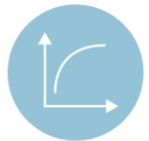
USB/Bluetooth

Supports USB wired and Bluetooth wireless connection, and can connect to computers or mobile phones



Measuring wavelength 400-700nm

Supports USB wired and Bluetooth wireless connection, and can connect to computers or mobile phones



Camera locating

Camera positioning can facilitate the viewing of measurement position and more accurate measurement



Non-contact desktop Spectrophotometer YL4668

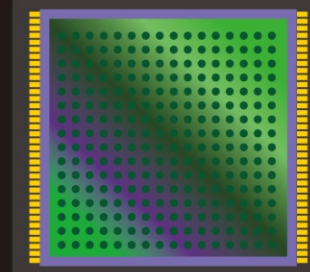
Product features



3nh Global

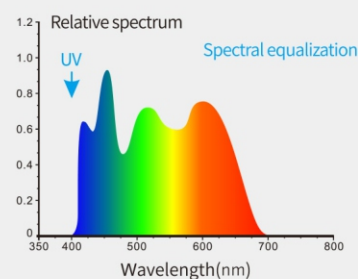
1. 256 pixel dual array CMOS image sensor

The higher optical resolution ensures the measuring speed, accuracy, stability and consistency of the instrument, master the core technology, and achieve good compatibility with the international standards on the same platform.



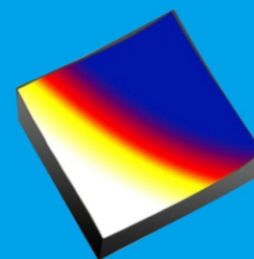
2. Use full-spectrum LED light source

The full-spectrum LED light source ensures sufficient spectral distribution in the visible light range, avoids the spectral loss of LED in a specific band, and ensures the accuracy of the instrument measurement results and low-cost maintenance.



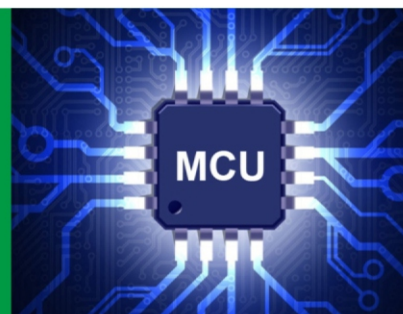
3. Concave grating spectroscopic technology

The concave grating splitting technology is adopted, which has higher resolution, Make color measurement more accurate.



4. Higher quality

MCU with industrial real-time processing, supporting Bluetooth transmission
More stable and reliable.



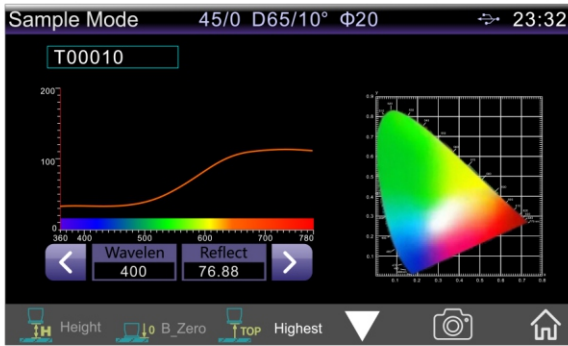
5. Multi-color measurement space and observation light source.

It provides more than ten color spaces and more than twenty observation light sources, which can meet the special measurement requirements under different measurement conditions.

6. Efficient

A complete measurement cycle only takes 200 milliseconds, and more than 400000 samples can be measured every day.

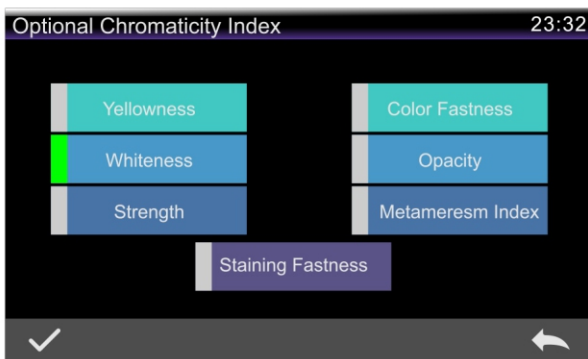
NON-CONTACT DESKTOP Spectrophotometer YL4668 Function description



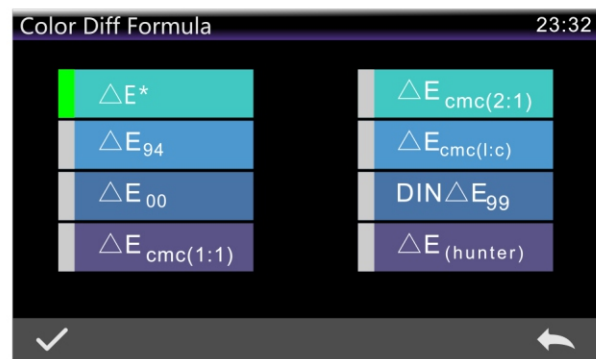
Sample measurement



View measurement records



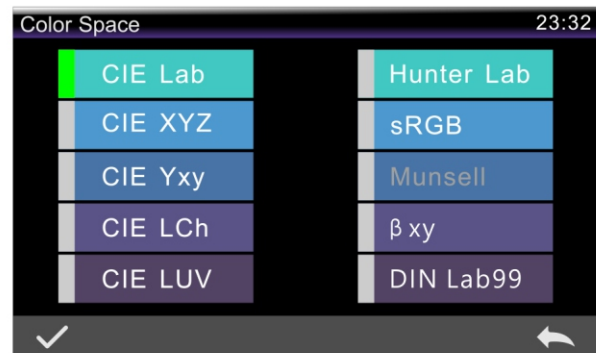
Measurement item selection



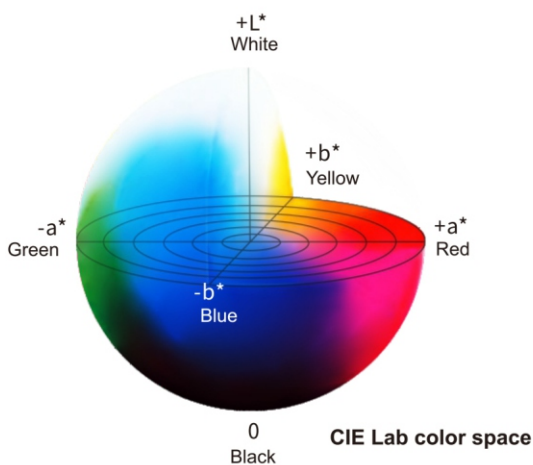
Color difference formula selection



Measurement item selection



Illuminant Selection Window



CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, Bxy, DIN Lab99 and other color spaces can, For example, the common CIE Lab color space: L * indicates black and white, and the greater the L * value, the higher the brightness; A * represents red and green, +a * represents red, and - a * represents green; B * represents yellow and blue, +b * represents yellow, and - b * represents blue.

Through color bias display, we can easily adjust the color.

NON-CONTACT DESKTOP Spectrophotometer YL4668

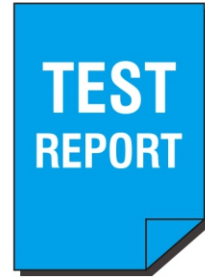


SQCX

Connect devices for powerful function expansion
Create instant reports using SQCX

Color quality management software

Output



Transmission



Print



USB cable connection

OR



Bluetooth connectivity

SQCX can connect the spectrophotometer control instrument through USB cable and Bluetooth (only for instruments that support Bluetooth) to measure, change the instrument configuration, and operate the instrument data. At the same time, it has also greatly expanded the functions of the instrument, supporting a variety of table color systems, light sources, more complex data management, color detection, report generation, etc., and is the right assistant for color quality management.

Whether you are on site or in the company, use SQCX quality management The software can realize:

1. Save the sample values measured on site directly to the storage device
2. View the color chart in real time during the test.
3. You can view historical data and personal saved data, and modify the name.
4. It can be transferred to the printer for printing output.
5. Detection data can be managed, transmitted and color matched through the network.

Product application

Colorimeter is widely used in plastic, electronics, paint and ink, textile and clothing printing and dyeing, printing paper, automobile, medical treatment, cosmetics, food and other industries. The instrument is equipped with high-end color management software, which can be used by connecting computers to achieve more function expansion.



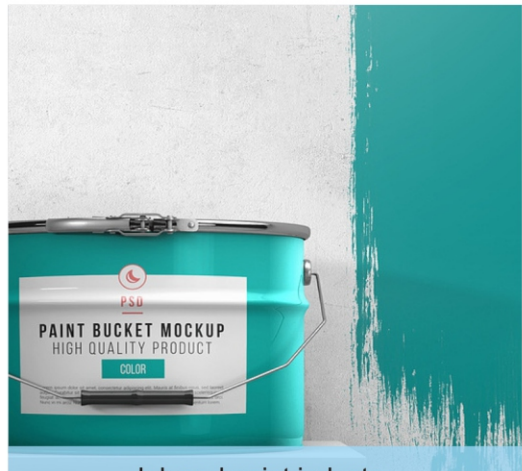
Printing and packaging industry



Textile dyeing industry



Leather industry



Ink and paint industry



Plastic industry



Automobile coating and accessories

APPLICATION



Plastic industry



Scientific research/experiment

Parameter

Model	YL4668
Optical Geometry	D/8(diffuse illumination,8°reception,SCI including specular reflection); Compliance with standards CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1, ASTM E1164,DIN5033 Teil7,GB 2893,GB/T 18833
Light Source	Full spectrum LED light source,UV light source
Spectroscopic method	Concave grating spectroscope
Sensor	256-pixel dual-array CMOS image sensor
Wavelength Range	400~700nm,10nm Output
Measured Reflectance Range	0~200%
Measuring Aperture	Φ20mm(Customizable Φ10mm)
Non-contact distance	3.0mm(±0.2mm)
Sample height	Thickness is unlimited, only test probe is used
Distance adjustment method	Fix the height according to the actual sample
Measurement mode	Software customization function(additional customization function needs to be evaluated)
Locating	Camera locating
Color space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,Musell,s-RGB,HunterLab,βxy,DIN Lab99
Color Difference Formula	$\Delta E^*ab, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \Delta E$ (Hunter) , $DIN\Delta E99$
Other Colorimetric Index	WI(ASTM E313, CIE/ISO,AATCC,Hunter), YI(ASTM D1925, ASTM 313),Metamerism index MI, Staining Fastness, Color Fastness, Strength, Opacity
Observer Angle	2°/10°
Illuminant	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF), F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30)
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, Color simulation, pass/fail result, display tolerance can be set
Measuring Time	Fastest 0.2S
Data Storage	Sample mode+quality control mode 18,000,Continuous statistical mode 30,000,totaling no more than 48,000
Repeatability	In the optimal test mode (when the single measurement time is 1.5 seconds): Spectral reflectance: standard deviation within 0.1%: Chromaticity value: ΔE^*ab within 0.03 (after preheating,measure the average value of whiteboard 30 times at an interval of 5s)
Inter-instrument Error	ΔE^*ab within 0.2(average value of 12 color plates of BCRA series II)
Measurement method	Single Measurement, Average Measurement(2-99times)
Dimension	200*200*160mm (Test probe)
Weight	About 3Kg (only test probe)
Power	DC 24V, 3A power adapter power supply
Illuminant Life Span	More than 3 million measurements in 5 years
Display	TFT true color 7inch,capacitive touch screen
Data Port	USB / Bluetooth
Language	Simplified Chinese, English, Traditional Chinese
Operating Environment	0~40°C, 0~85%RH (no condensing),Altitude < 2000m
Storage Environment	-20~50°C, 0~85%RH (no condensing)
Standard Accessory	Power adapter, manual, data cable, standard correction board, black correction box
Notes	This model is specially applicable to streamline production line,and deep function customization will incur additional customization costs

GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths

★ CONTACT US

web:www.3nh.com

Email:3nh@3nh.com

Tel:0086-020-82880288

Add: 6-8th floors, Building B33, Low Carbon Headquarters Park,
Xincheng Road No.400, Zengcheng District, Guangzhou,
Guangdong Province, China