



YL4568 non-contact online color meter

YL4568 spectrophotometer is a 45/0. (45 ° circular uniform illumination 0 ° reception) standard color measurement Measuring instrument, test probe and tested sample non-contact test to realize non-contact test of liquid, paste, powder, etc Precise color measurement. The simple probe design allows this product to be placed anywhere on the automatic production line For accurate color measurement, color quality control, in cosmetics, fruits and vegetables, food hygiene, plastic electronics, oil, Paint, ink, printing, ceramics and other industries are widely used for fluorescence sample measurement. Its unique creation The new design can not only provide non-contact measurement scheme directly from the production line, but also ensure stability and High precision measurement results.



7in color touch screen



USB,Bluetooth®



Wavelength400~700nm



Camera locating

PRODUCT FEATURES

1. 256-pixel dual-array CMOS image sensor, with the same platform as the international standard, is practical It is now fully compatible.
2. Full spectrum LED light source ensures sufficient spectral distribution in the visible light range.
3. Adopt concave grating light splitting technology, with higher resolution, which makes color measurement more Accurate.
4. MCU with industrial-grade real-time processing is adopted to support Bluetooth transmission more stable and reliable.
5. Support more than 10 color spaces and more than 20 observation light sources.
6. The measurement speed is fast, a complete measurement cycle only takes 200 milliseconds, and can be measured every day More than 400000 samples.



PRODUCT DETAILS



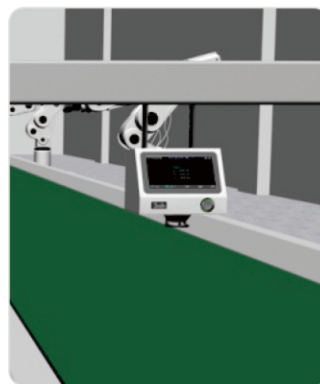
DISPLAY

TFT true color 7inch capacitive touch screen Clear display and convenient operation.



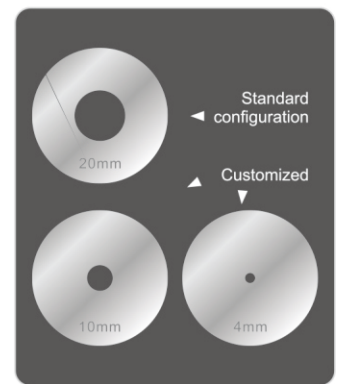
NON-CONTACT MEASUREMENT

The measuring height can be adjusted at will without direct contact between the measuring head and the sample Measure the reflectance and chromaticity of the sample.



EASY INSTALLATION

Easy installation, suitable for various measuring environments, Fixed installation and mobile measurement.



MEASURING APERTURE

Diameter: 20mm
Less than 20mm, various calibers can be customized. Customers can customize according to their own needs.

APPLICATION INDUSTRY

YL4568 non-contact online colorimeter, the test probe and the tested sample non-contact test, can achieve non-contact precision color measurement of liquid, paste, powder, etc., to prevent cross contamination of samples. It can be used for color analysis and transmission in laboratory and R&D industry; It can also be used for accurate color measurement and quality control of automatic production lines; It is widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronic paint ink, printing, ceramics and other industries.



Cosmetics



Food



Sauce



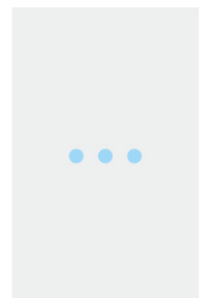
Powder



Liquid



Laboratory



Other

TECHNICAL SPECIFICATIONS

Model: YL4568

Optical Geometry: 45/0(45°circular uniform illumination 0°reception)

Comply with standard: CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724-1, ASTM E1164, DIN5033 Teil7, GB 2893, GB/T 18833

Features: Non-contact test between test probe and tested sample, to achieve the non-contact precise color measurement of liquid, sauce, powder, etc.
It is mainly used for accurate color measurement and quality control of automated production lines; the measurement time can be adjusted from 0.1 to 1.5 seconds, and the software functions can be customized (additional customization function needs to be evaluated).

Light Source: Full spectrum LED light source, UV light source

Spectrophotometric Mode: Concave Grating

Sensor: 256-pixel dual-array CMOS image sensor

Wavelength Range: 400~700nm, 10nm output

Measured Reflectance Range: 0-200%

Measuring Aperture: Φ20mm (Φ10mm, Φ4mm can be customized)

Non-contact distance: 7.5mm (±0.2mm)

Sample height: Unlimited thickness, only test probes are used

Distance adjustment method: Fixed height according to 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: As fast as 0.2 seconds

Data Storage: Sample mode + quality control mode 18,000 ,Continuous statistical mode 30,000, totaling no more than 48,000

Repeatability: In the optimal measurement mode (when a single measurement time is 1.5 seconds):
Spectral reflectance: within 0.1% of standard deviation:
Chromaticity value: ΔE^*ab within 0.03 (After the instrument is warmed up and calibrated, measure the average value of the whiteboard 30 times at an interval of 5s)

Inter-instrument Error: Within ΔE^*ab 0.2(Measured average value of 12 tiles of BCRA series II)

Measurement method: Single measurement, average measurement (2~99 times)

Dimension: 200*200*160mm (test probe)

Weight: About 3Kg (only test probe)

Power: AC 24V, 3A Power adapter power supply

Illuminant Life Span: 5 years, more than 3 million times measurements

Display: 7-inch TFT color LCD, Capacitive Touch Screen

Data Port: USB, Bluetooth®

Language: Simplified Chinese, Traditional Chinese, English

Operating Environment: 0~40°C, 0~85%RH (no condensation), altitude: less than 2000m

Storage Environment: -20~50°C, 0~85%RH (no condensation)

Standard Accessory: Power adapter, manual, data cable, standard calibration board, black calibration box

Notes: This model is specially suitable for streamlined production lines, in-depth function customization will incur additional customization costs

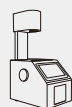
GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths

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