BENCHTOP SPECTROPHOTOMETER YS6002-M

Support transmittance, haze, yellowness, whiteness, etc. measurement, new national standard pharmacopoeia color measurement

| 7in color touch screen | Concave grating | 360-780nm full spectrum | Camera positioning |

It is widely used in haze analysis and transmittance test in the national standard pharmacopoeia color measurement, glass processing, plastic processing, film, display screen processing, packaging industry, liquid chemical analysis and other industries, and supports trace transmission measurement.

CE SCM TÜV RoHS FC

1. Instrument display

▲ Front

▲ Back

▲ Left side

▲ Right side

2.Instrument introduction

YS6002-M Benchtop Spectrophotometer meets the transmission D/0 (diffuse illumination, 0° direction reception) geometric optical structure specified by CIE15 (can also achieve approximate transmission 0/0 (parallel light illumination/0° reception) geometrical optics). The illumination light source of the instrument is a 360-780nm composite full-spectrum LED light source (D65), and the spectrum acquisition at intervals of 10nm is achieved through a precision concave grating and a 256-pixel CMOS detector. Accurate testing of various optical indicators (haze, transmittance, chromaticity, chromatic aberration, yellowness, whiteness, cobalt platinum index, Gardner index, etc.)

3. Instrument Features

1. High hardware configuration

YS6002-M adopts 7in TFT pure color capacitive touch screen, easy to operate; large storage space, can store more than 20,000 pieces of data at most, and is equipped with concave grating for spectroscopic, more accurate measurement;
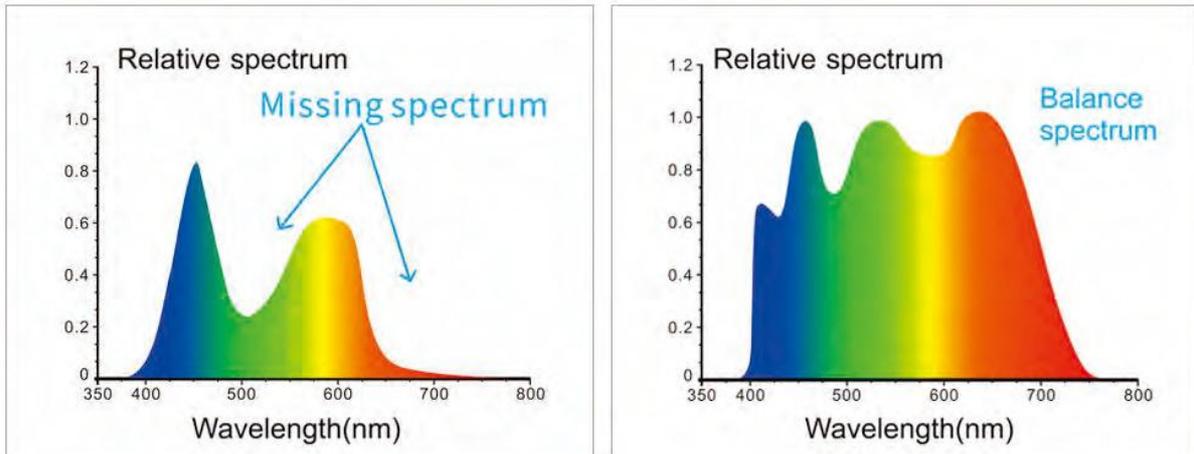
2. High optical configuration

154mm integrating sphere, concave grating, 256-pixel CMOS detector, dual optical paths with high optical resolution.
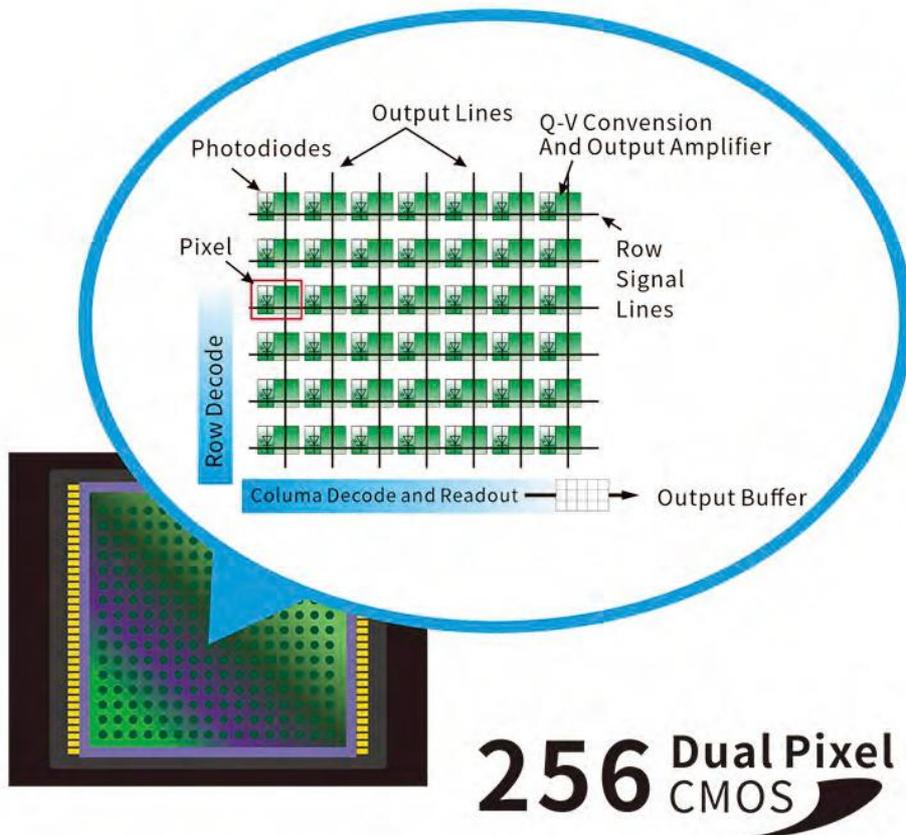
3. Using combined full-spectrum LED light source and UV light source

Adopt 360~780 full-spectrum combined LED light source with long life and low power consumption (close to D65 light source spectrum);
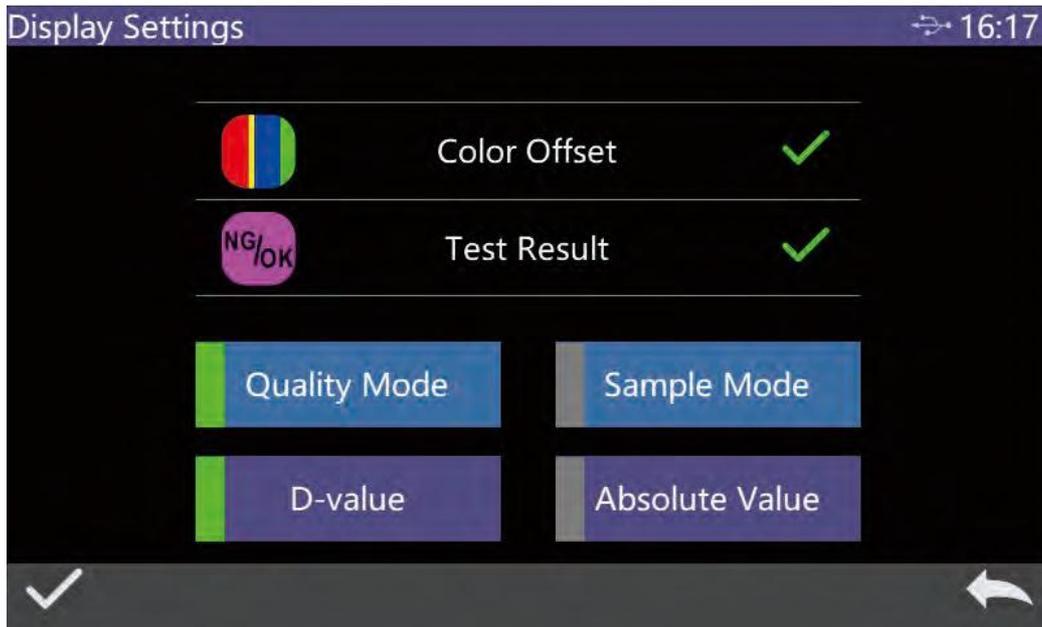

4.Various measurement indicators

Easily achieve accurate testing of C/A/D65 light source haze (ASTM D1003/1044), transmittance, cobalt platinum index, and Gardner index;
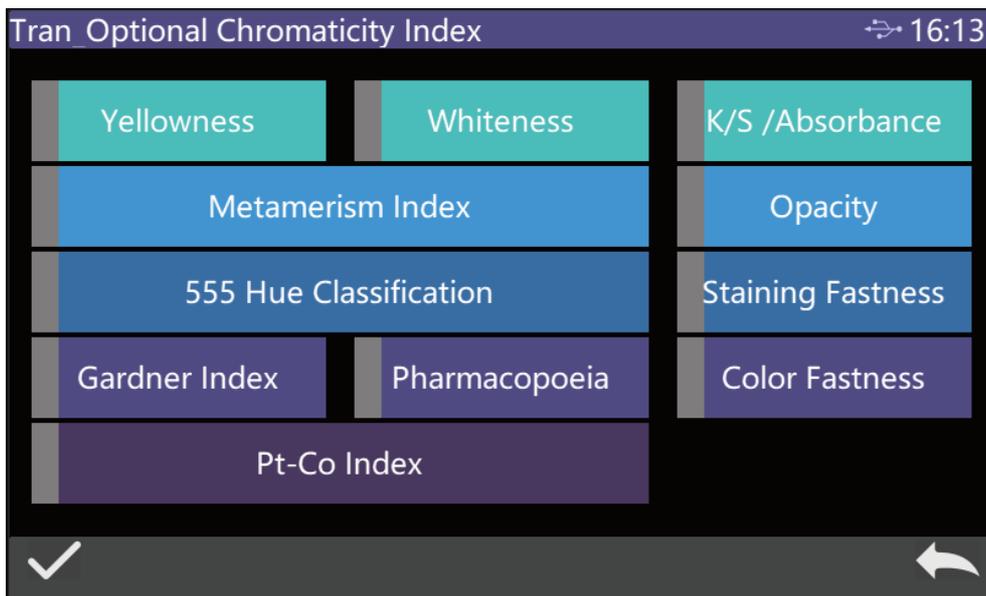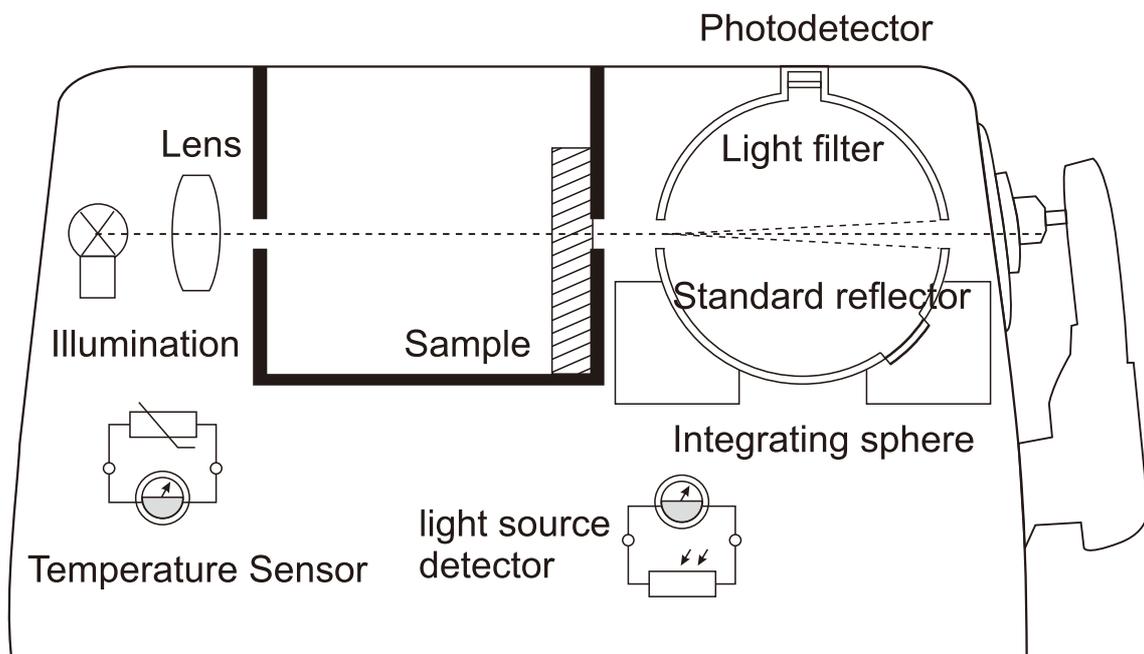
5. Multiple test modes

Support quality management mode and sample mode to meet the needs of more customers;


6. Measurement environment monitoring system

Independent light source detector and temperature sensor, constantly monitor light source and environmental changes to ensure reliable test data;
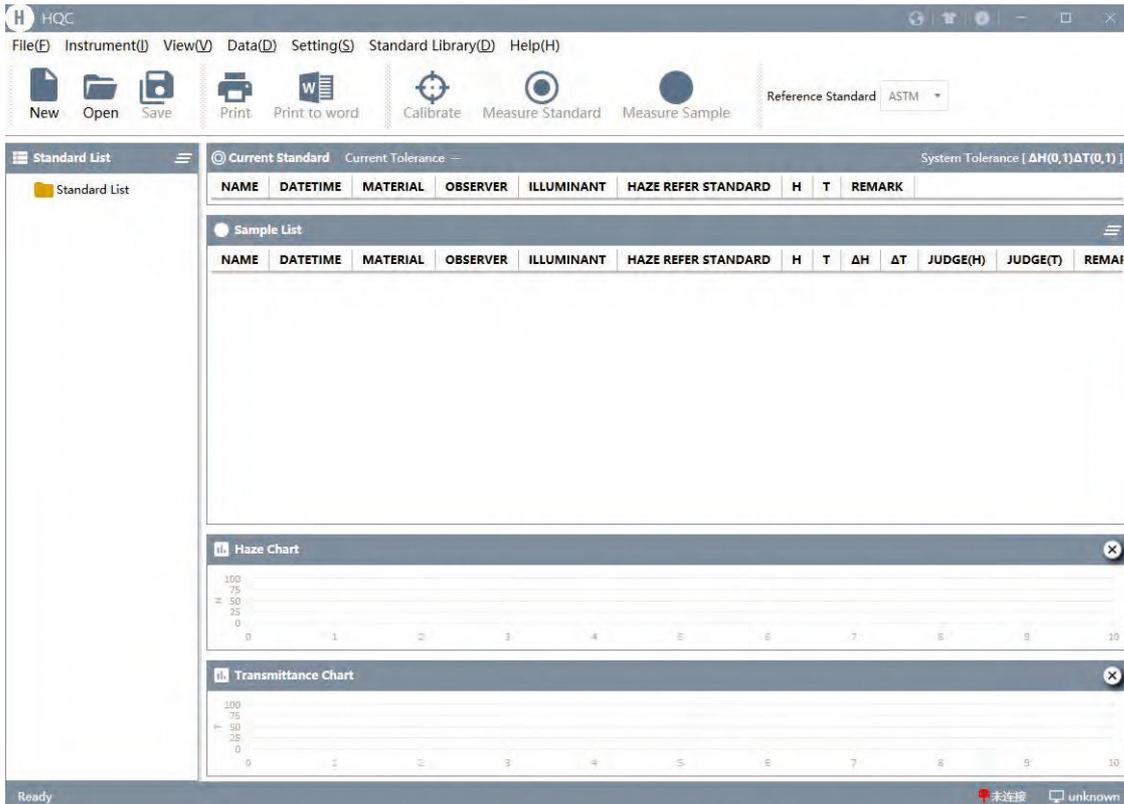
7.a variety of light sources and color space options

Two standard observer angles of 2°/10°, a variety of light source modes, a variety of color systems, and a variety of standard chromaticity indicators to meet the needs of various customers for chromaticity testing;
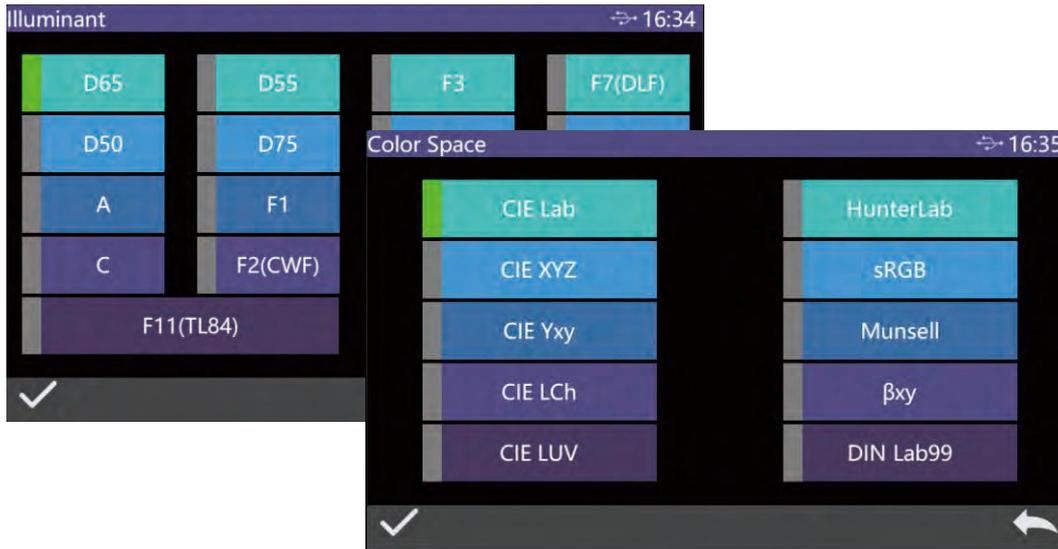

8. The PC-side software has powerful function expansion;

4. Application

It is widely used in haze analysis and transmittance test in the national standard pharmacopoeia color measurement, glass processing, plastic processing, film, display screen processing, packaging industry, liquid medicine analysis and other industries, and supports trace transmission measurement.

Drug Color Measurement

Plastic processing

Glass Processing

Film

Display industry

Experimental Liquid Analysis
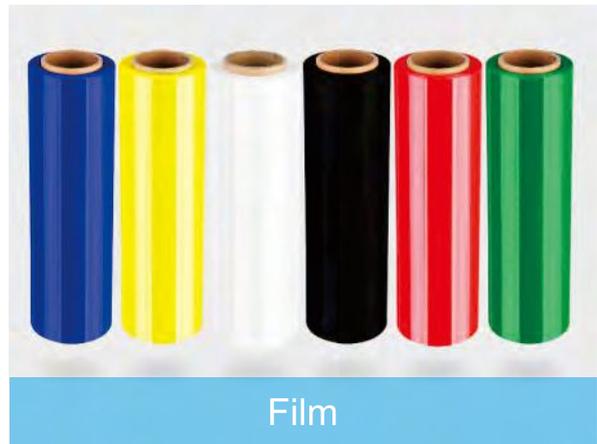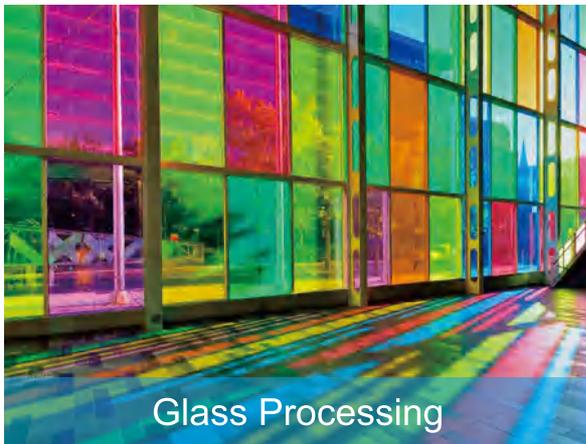
5. Packing list

【Standard accessories】

Benchtop Spectrophotometer
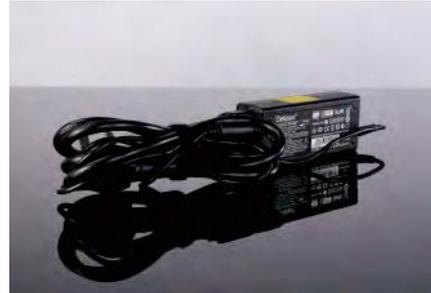

Measuring diameter Φ25.4mm

Power Adapter

USB cable

Manual

Certificate
Warranty Card

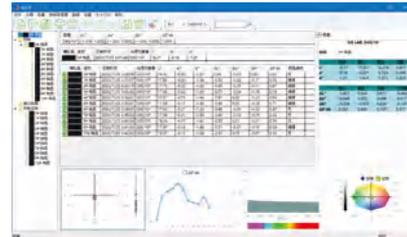

Calibrate the
whiteboard/black tube

Transmission black baffle

Sample holder

Transmission dish

Computer software
(download from official website)

【Optional accessories (sold separately)】

Micro printer

6. Product parameters

Model: YS6002-M

Illumination mode: transmission: D/0 (diffuse illumination, 0° direction reception);
approximately CIE15 stipulates 0/0 (parallel light illumination/0° reception);

Standard: ASTM D1003/1044, CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ASTME308, DIN5033 Teil7

Integrating Sphere Size: Φ154mm

Light Source: 360 nm to 780 nm, Combined LED Light

Spectrophotometric Mode: Concave Grating

Sensor: 256 Image Element Double Array CMOS Image Sensor

Wavelength Interval: 10nm

Semiband Width: 10nm

Measured Reflectance Range: 0-200%

Measuring Aperture: Transmissive: Φ25.4mm, Φ4mm

Color SpaceCIE: LAB,XYZ,Yxy,LCh,CIE LUV,Musell,s-RGB,HunterLab,βxy,DIN Lab99

Color Difference Formula: ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE(Hunter)

Other Colorimetric Index: D1925,ASTM E313),TI(ASTM E313,CIE/ISO),Metamerism Index Mt,Staining Fastness,Colorfastness to Crocking,Absorbance,APHA/Hazen/Pt-Co(Platinum-Cobalt Index),Gardner Index,Saybolt Index,ASTM D1500 Color Scale,Pharmacopoeia(Chinese,European,United States),EBC(European Brewery Convention)Color,ICUMSA Color(International Commission for Uniform Methods of Sugar Analysis Color).

Observer Angle: 2°/10°

Illuminant: D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30

Displayed Data: Spectrogram/values, Samples Chromaticity Values, Color Difference Values/graph,
Pass/fail Result, Color Offset

Measuring Time: About 1.5s

Repeatability: Spectral transmittance: within 0.05% of standard deviation of test transmission reference white
(400~700nm: within 0.04%);Chromaticity value: 25.4mm, within AE*ab 0.03 (after the instrument is warmed up
and calibrated, the average value of the transmission reference white is measured 30 times at an interval of 5s)

Inter-instrument Error: 25.4mm, within E*ab 0.2 (the average value of the original 5 standard transmission color plates)

Dimension: L*W*H=370x300x200mm

Weight: Approx. 9.6kg

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, Print serial port

Data Storage: Standard 5000 Pcs, Sample 20000 Pcs

Language: Simplified Chinese,Traditional Chinese,English,Russian,Italian

Standard accessories: power adapter, manual, quality management software (download from official website),
data cable, reflection whiteboard, reflection black tube, transmission blackboard, 25.4 aperture,
transmission test fixture assembly, micro-hole (4mm) transmission test fixture assembly

GUANGDONG THREENH TECHNOLOGY CO., LTD.

Spectrophotometers   Colorimeters   Haze Meters   Gloss Meters   Test Charts   Light Booths

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