

PRESSROOM TESTING INSTRUMENTS · PRODUCT DATASHEET

Liquid spectrophotometer TS4020

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CATEGORY	Pressroom Testing Instruments
SUB-CATEGORY	Others
AVAILABILITY	1 in stock
MANUFACTURED	Jul 24, 2025

Description

The TS4020 liquid spectrophotometer is a high-precision color analysis tool designed specifically for liquid chromaticity measurement using innovative core technology by 3nh. Adopting a D/0 optical structure, equipped with a full band LED light source and high-performance testing system, it provides a variety of chromaticity indicators, including transmittance, chromaticity, color difference, platinum cobalt index, Gardner, Saybolt index, petroleum color code, pharmacopoeia chromaticity, etc. It supports micro transmission measurement and has fast measurement speed. Widely used for chromaticity measurement needs in fields such as chemical industry, food and beverage, petrochemical industry, pharmaceutical industry, etc.

Technical specification

Illumination: Transmission: D/0 (diffuse illumination, 0° Viewing); Approximately CIE15 stipulates 0/0 (parallel light illumination/0 degree reception); Comply with standards: ASTM D1003/1044, CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ASTM E308, DIN5033 Teil7

Characteristic: The national standard pharmacopoeia color measurement, glass processing, plastic processing, film, display screen processing, packaging industry, liquid medicine analysis and other industries are widely used in color analysis and transmittance testing, supporting trace transmittance measurement.

Integrating sphere size: Φ 40 mm

Light source: Combined full spectrum LED light source

Spectral method : Plat grating spectrometer

Sensor : Silicon photodiode array (dual row 40 groups)

Wavelength range: 360 ~780 nm

Wavelength interval: 10nm

Transmittance range: 0~200%

Measuring aperture: Transmission: Φ 10 mm

Color Space : CIE LAB, XYZ, Yxy, LCh, CIE LUV, Musell, s-RGB, HunterLab, β xy, DIN Lab99 ,CMYK

Color difference formula: $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, DIN \Delta E99, \Delta E(Hunter), \Delta E^*CH$

Observer Angle: 2°/10°

Measuring time: Fast mode: about 0.8s

Operating temperature range: 0~40°C (32~104°F)

Displayed Data: Spectrum/values, sample chromaticity value, color difference value/graph, chromaticity diagram, color simulation, pass/fail results, color offset

Illuminant Life Span: More than 3 million measurements in 5 years

Dimensions : Length x width x height = 370 x 300 x 200 mm

Weight : About 9.6kg

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