## intex system

## IS-2460 Benchtop Spectrophotometer

IS-2460 is a benchtop sphere spectrophotometer developed and distributed by Intex System.

IS-2460 boasts many features, including a 7-inch capacitive TFT touch screen display, comprehensive illuminants, reflective d/8 geometry, and transmissive d/0 geometry (with or without UV).

With highly stable and precise color measurements, ample storage capacity, and powerful PC software, IS-2460 is ideal for color analysis in Research & Development environments and laboratories.

- High end hardware configuration: 7-inch capacitive color TFT touch screen display; concave grating.
- Dual matrix CMOS sensor with 256 image elements: UV, long-lasting, high stability LED.
- Accurate Lab value, ideal for calculating color formulas and ensuring cutting edge color transmission.
- Automatic measurement aperture identification: free switching between 4 measurement apertures: φ25.4mm/8mm/4mm. users can also customize the apertures.
- Integrated temperature sensor: monitors and compensates for measurement temperature to ensure greater accuracy.
- 360nm 780nm wavelenght range: integrated cut-off at 400nm or 460nm. Professional in UV measurement.
- Independent light source detector: light source conditions and reliability continuous monitoring.
- Multiple measurement modes: meets the requirements of most users.
- Multiple accessories: sample holders, clamping fixtures, suitable for various working conditions.
- Large data storage capacity: over 20,000 test results.
- Integrated camera positioning.
- Extended functionality in combination with PC software.





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## **IS-2460 BENCHTOP SPECTROPHOTOMETER**

Optical Geometry	Reflectance: d/8° (SCI & SCE; UV Incl./Excl.) - Transmittance: d/0° (SCI & SCE; UV Incl./Excl.)
Standards Compilance	CIE No. 15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7
Integration Sphere	Sphere diameter: Φ154 mm
Light Source	Wavelength range: 360 nm-780 nm, combined LED lamp, UV lamp, Cut-off at 400 nm, Cut-off at 420 nm
Sensor	Dual-array CMOS sensor with 256 image elements
Light Source Detection Device	Wavelength range: 360 nm-780 nm Combined LED lamp, UV lamp, Cut-off at 400 nm, Cut-off at 420 nm
Repeatability	Reflectance Spectral: $\Phi$ 25.4 mm/SCI - Standard deviation within 0.04% (400 nm to 700 nm: within 0.04%) Chromatic Value: $\Phi$ 25.4 mm/SCI - Standard deviation within $\Delta$ Eab 0.01 (when a white calibration plate is measured 30 times at 5-second intervals after calibration) Transmission Spectral: $\Phi$ 25.4 mm/SCI - Standard deviation within 0.05% (400 nm to 700 nm: within 0.05%) Chromatic Value: $\Phi$ 25.4 mm/SCI - Standard deviation within $\Delta$ Eab 0.02 (when a white calibration plate is measured 30 times at 5-second intervals after calibration)
Wavelenght Interval	10 nm
Half-Bandwidth	5 nm
Reflectance Range	0–200%
Measurement Apertures	Φ30 mm/Φ25.4, Φ18/Φ15, Φ10/Φ8, Φ6/Φ4 mm - Transmission apertures (TR): Φ30/Φ25.4 mm
Specular Component	SCI & SCE - Transmission: SCI & SCE
Color Space	CIE LAB, XYZ, Yxy, LCh; CIE LUV, Munsell, CIE Lab, HunterLab, Bayx, DIN
Color Difference Formula	ΔEab, ΔEuv, ΔE94, ΔE cmc(2:1), ΔE cmc(1:1), ΔE00, DIN99, ΔE (Hunter)
Color Indexes	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), MI (Metamerism Index), Color strength, Color fastness, Stain solidity, Opacity, Gardner Index, APHA/Hazen/Pt-Co, Index 555, Saybolt
Observe Angle	2°, 10°
Illuminants	D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, DLF, TL83, TL84, TL85, U30
Data Visualization	Spectrogram/Tristimulus, Chromaticity and Color difference values. Graph, Pass/Fail, Color deviation
Measurement Time	Approximately 2.4 s (simultaneous SCI/SCE measurement approximately 5 s)
Inter-Instrument Error	$\Phi 25.4 \text{ mm/SCI}$ - Within $\Delta E^*ab$ 0.12 (measured using 12 BCRA II series tiles)
Dimension	370×300×200 mm
Weight	9.6 kg
Languages	English, Italian, and Chinese
Power Supply	DC 24V adapter with 3A
Lamp Lifetime	5 years, more than 3 million measurements
Display	Capacitive touch screen TFT 7-inch display
Ports	USB and Bluetooth
Standard Measurement Capacity	Standard: 5,000 test results; Samples: 40,000 test results (One measurement can include both SCI/SCE)
Standard Accessories	White calibration plate, transmission calibration accessories, apertures of 30, 25.4, 15, 8 mm
Optional Accessories	Microspectrophotometer, powder sample box, transmission/reflection holder, sample clamp holder

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