

MULTI ANGLE SPECTROPHOTOMET ER SPE74-300



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Multi angle spectrophotometer is instrument with combine color imaging with multi-angle technology to deliver precise color measurements.

SPE74-300 MULTI ANGLE SPECTROPHOTOMETER

- Multi-angle measurement
- More intuitive display
- Effect measurement discrimination function
- 256 Image Element Double Array CMOS Image Sensor
- Adopt Full spectrum LED light source with blue enhancement
- Concave grating spectrophotometric technology
- Professional-grade white board
- Higher quality
- Ergonomics Novel and fashionable appearance design
- Color camera preview, can clearly observe the measured area
- Multiple color measurement space, multiple observation light sources
- Easily analyze data

SPECIFICATIONS

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|--------------------------|---|
| Model | SPE74-300 |
| Measurement Geometry | 3 measurement angles (3 illumination sources, 1 receivers) |
| Measure Angle | 45° Receiver:45as25°,45as45°,45as110° Standards:ASTM D 2244,E 308,E 1164,E 2194, E2539,DIN 5033,5036,6174,6175-1,6175-2;ISO 7724, 11664-4 SAE J 1545 |
| Light Source | Full spectrum LED light source with blue enhancement |
| Lamp Life | 5 years, 3 million times measurements |
| Spectroscopic Mode | Concave Grating |
| Sensor | 256 Image Element Double Array CMOS Image Sensor |
| Spectral Range | 400-700nm |
| Wavelength interval | 10 nm |
| Measurement Range | 0~600% |
| Semiband Width | 10 nm |
| Measuring Aperture | Φ12mm |
| color space | CIE LAB,XYZ,Yxy,LCh,βxy,DIN Lab99 |
| Color Difference Formula | ΔE*ab,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE DIN6175 |
| Other Colorimetric Index | Flop Index |
| 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) |
| Display | Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset |
| Measuring Time | Approx. 1 second for one angle Approx. 3 seconds for all angles |
| Repeatability | Spectral reflectance: Standard deviation within 0.08% Chromaticity value: ΔE*ab 0.04 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration) |
| Reproducibility | ΔE* < 0.10,avg on the gray tile of BCRA tile set ΔE* < 0.25,avg on the color BCRA tile set |
| Inter-instrument error | 0.2ΔE*00(avg on reference Series II BCRA tile set) |

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| Trigger mode | Pressure sensing trigger, button trigger, software trigger |
| Measuring Mode | Single measurement, average measurement (1-99), continuous measurement (1-99) |
| Locating Mode | Color camera preview |
| Operating Environment | 10°C to 50°C, humidity does not exceed 85%, no condensation |
| Storage Environment | -20°C to 50°C, humidity does not exceed 85%, no condensation |
| Calibration | Built-in white board parameters, external white board, black light trap, color board |
| Calibration Interval | 4 hours,8 hours,24 hours,Startup calibration |
| 3.5-inch TFT color LCD, Capacitive Touch Screen | Interface |
| USB | Data Storage |
| 1000 pcs Standards,4000 pcs Samples | Language |
| Simplified Chinese, Traditional Chinese, English | Standard Accessories |
| Power Adapter, USB Cable, User Guide,PC Software(download from the official website), Calibration Board, black light trap,Protective cap, wristband | Optional Accessory |
| Micro-printer | Dimension |
| 195X83X128mm | Power |
| Weight | About 1Kg |

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