

## AMT599 Colorimeter

### Features:

1. Dual optical path design improves repeatability accuracy  $\Delta E^*ab \leq 0.03$
2. Innovative 5 micron thick nano-integrated optics
3. Over 30 Measurement Indicators: RGB, Lab, Reflectance, LCh, Hunter Lab, CIE-Luv, XYZ, Yxy, Difference ( $\Delta E^*ab$ ,  $\Delta E^*cmc$ ,  $\Delta E^*94$ ,  $\Delta E^*00$ ), WI (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), YI (ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness (My, dM), Color Fastness, Tint (ASTM E313-00), Color Density CMYK (A, T, E, M), Milm, Munsell, Opacity, Color strength,
4. Evaluate whether the color is jumping light, and provide nearly 40 evaluation light sources
5. Contains SCI measurement mode
6. Contains UV for fluorescent color measurement
7. Calibration base and zirconium reference with a Mohs hardness of 9 to calibrate the instrument, ensuring long-term stability
8. Built-in HD camera for clear observation of the measured area
9. Support WeChat applet, Android, Apple, Hongmeng mobile APP
10. Use the powerful PC-based colour management system

### Specifications:

1. Measuring structure: D/8, SCI
2. Measurement repeatability:  $\Delta E^*ab \leq 0.03$
3. Display accuracy: 0.01
4. Measuring aperture: There are 4 stable and agile models in total:  $\Phi 11\text{mm}$ ,  $\Phi 6\text{mm}$ ,  $\nabla 11\text{mm}$ ,  $\nabla 6\text{mm}$
5. Color Spaces and Indices: Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB, Color difference ( $\Delta E^*ab$ ,  $\Delta E^*cmc$ ,  $\Delta E^*94$ ,  $\Delta E^*00$ ), WI (ASTM E313-00, ASTM E313-73, CIE, ISO2470/R457, AATCC, Hunter, Taube Berger Stensby), YI (ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness (My, dM), Color Fastness
6. Source condition: A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, TL83, TL84, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2
7. Light source: LED
8. Measurement observation method: Camera
9. Calibration: Auto calibration
10. Software support: Android, iOS, Windows, Wechat app
11. Guaranteed accuracy: Guaranteed first class measurement
12. Observer: 2°, 10°
13. Integrating sphere diameter: 40mm
14. Standards: CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724-1, ASTM E1164, DIN5033 Teil7
15. Ways of spectral: Nano-integrated spectral devices
16. Sensor: Silicon photodiode array Dual 16-group
17. Wavelength interval: 10nm

18. Wavelength range: 400~700nm
19. Reflectance determination range: 0~200%
20. Reflectance resolution: 0.01%
21. Measurement method: Single measurement, average measurement (2 to 99 measurements)
22. Measurement time: Approx. 1 second
23. Interface: USB, Bluetooth
24. Screen: Screen Full colour screen, 2.4
25. Battery capacity: 8000 continuous measurements on a single charge, 3.7V/3000mAh
26. Life of light: 10 years and 1 million cycles
27. Storage: Instrument :10,000 data; APP: mass storage

Optional parts:

1. Powder measuring cassette
2. Powder measuring cassette - clear glass slides
3. Ceramic panels
4. 800 quartz cylindrical cuvette (outer size  $\phi 32 \times 41$ mm, wall thickness 1.5mm)