



TORONTECH



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**PORTABLE
SPECTROPHOTOMETER
COLORIMETER - HIGH
PRECISION
TORONSPEC™
23/25/26D SERIES**

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ 23/25/26D Series for accurate color measurement. With an extended 360-780nm wavelength range, advanced calibration, and a built-in camera for precise positioning, it ensures reliable performance across various applications.

APPLICATIONS

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Industry-leading wavelength range: 360-780nm

The wavelength range of standard colorimeters is 400-700nm. This model extends the range to 360-780nm for enhanced accuracy and broader color measurement capabilities.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Outstanding stage-to-stage variation and repeatability

1. The inter-stage difference is 0.12, enhancing color consistency between manufacturers and suppliers.
2. Repeatability is improved by 50% over the previous generation, achieving 0.01.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Dual light source system provides longer service life than expected

Utilizes a xenon lamp and LED to deliver ample ultraviolet and visible light while ensuring a lifespan of tens of millions of measurements.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Provides 6 measuring apertures to easily measure samples of different shapes

Features six aperture options: 11mm, 10mm, 6mm, 5mm, 3mm, and 1×3mm, allowing precise measurement of small objects and curved surfaces.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

BCRA green plate wavelength calibration

Automatically calibrates wavelength accuracy using a reference-grade BCRA green plate, ensuring consistent and reliable performance.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Indication accuracy increased by 60%

Equipped with a next-generation array silicon light sensor, increasing light input by 65% and enhancing spectral resolution by 39%. Indication accuracy is improved by 60% over the previous model.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Intelligent automatic calibration

Eliminates the need for frequent manual calibration. Once initially calibrated, the instrument automatically adjusts based on its status and environmental factors, ensuring stable performance and continuous accuracy.

Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series

Built-in high-definition camera to clearly observe the measured area

ToronSpec-26D series spectrophotometer features a built-in camera that captures an image of the measured area, ensuring precise positioning and preventing errors from misalignment.

TECHNICAL SPECIFICATIONS

Brief Table of Model Differences

Feature	ToronSpec™ 23D	ToronSpec™ 25D	ToronSpec™ 26D
SCI	●	●	●
SCE	●	●	●
Measurement repeatability	dE*ab ≤ 0.02	dE*ab ≤ 0.01	
Inter-Instrument Agreement	dE*ab ≤ 0.25	dE*ab ≤ 0.2	dE*ab ≤ 0.12
Caliber	Φ11mm, Φ6mm	Φ11mm, Φ10mm, Φ6mm, Φ3mm	Φ11mm, Φ10mm, Φ6mm, Φ5mm, Φ3mm, 1mm×3mm

Feature	ToronSpec™ 23D	ToronSpec™ 25D	ToronSpec™ 26D
Wavelength range	360-740nm	360-780nm	
Light source life	6 million times	10 million times	
UV	●	●	●
Measurement observation method	Camera	Camera	Camera
BCRA Green Brick	●	●	●

Product Specifications

Product model	ToronSpec™ 23D	ToronSpec™ 25D	ToronSpec™ 26D
Measuring structure※	D/8,SCI+SCE		
Light source life	6 million times	10 million times	
Wavelength range	360-740nm	360-780nm	
SCI+SCE Measure simultaneously	Support		
Calibration method	BCRA certified black and white board energy calibration, green board wavelength accuracy calibration		
Measurement repeatability※※	dE*ab≤0.02	dE*ab≤0.01	
Inter-Instrument agreement※※※	dE*ab≤0.25	dE*ab≤0.2	dE*ab≤0.12
Display accuracy	0.01		

Product model	ToronSpec™ 23D	ToronSpec™ 25D	ToronSpec™ 26D
Lighting source	Full-band balanced LED light source + xenon lamp		
UV light source	Yes		
Caliber	Φ11mm,Φ6mm	Φ11mm,Φ10mm, Φ6mm,Φ3mm	Φ11mm,Φ10mm,Φ6mm,5mm,Φ3mm,1mm*3mm
Measurement standard	Spectral reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE-Luv, XYZ, Yxy, RGB color difference (ΔE^*ab , ΔE^*cmc , ΔE^*94 , ΔE^*00), whiteness (ASTM E313-00, ASTM E313-73, CIE, ISO2470/R457, AATCC, Hunter, Taube Berger Stensby), yellowness (ASTM D1925, ASTM E313-00, ASTM E313-73) blackness (My, dM), stain fastness, discoloration Fastness, Tint (ASTM E313-00) color density CMYK (A, T, E, M), metamerism index Milm, Munsell, hiding power, strength (dye strength, tinting strength)		
Light source conditions	A,B,C,D50,D55,D65,D75F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12CWF,U30,U35,DLF,NBF,TL83,TL84,ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4LED-B5,LED-BH1,LED-RGB1,LED-V1,LED-V2		
Observation method	Camera		
Calibration	Intelligent automatic calibration		
Software support	Android, iOS, Windows		
Accuracy guaranteed	Guarantee first-level measurement qualification		
Standard observer	2°, 10°		
Integrating sphere diameter	40mm		
Standards	ASTM E1164, ISO7724-1, DIN5033 Teil7, CIE No.15		
Spectral method	Grating		
Sensor	Dual column high-precision CMOS array sensor		
Wavelength interval	10nm		

Product model	ToronSpec™ 23D	ToronSpec™ 25D	ToronSpec™ 26D
Reflectivity measurement range	0-200%		
Reflectance resolution	0.01%		
Measuring time	About 1 second		
Interface	USB. Bluetooth		
Screen	Full color screen, 3.5 inches		
Battery capacity	Can continuously measure 8000 times on a single charge. 7.2V/3000mAh		
Language	English and others		
Storage	Instrument: 10.000 items: APP: Mass storage		
Size	233mm x 77mm x 93mm		
Weight	600g		

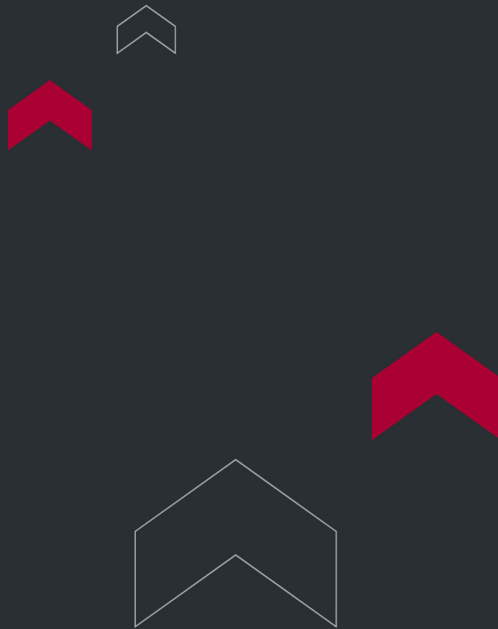
※ Diffuse lighting/8° direction reception, including specular reflected light/removing specular reflected light

※※ After the whiteboard is calibrated, measure the whiteboard 30 times at 5-second intervals. Standard deviation of the MAV caliber measurement results.

※※※ The average of the MAV caliber measurement values of 12 color plates in the BCRA series.

Optional Accessories

Material code	Name	Picture
1.51.01.0069-0	12 colored bricks	Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series
1.51.01.0068-0	24 colored bricks	Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series
1.51.01.0016-0	Ceramic test base plate	Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series
3.07.04.2003-0	800 quartz cylindrical cuvette (outer size ϕ 32*41mm, wall thickness 1.5mm)	Portable Spectrophotometer Colorimeter - High Precision ToronSpec™ -23/25/26D Series



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