

# Time TCS100 ColourMeter Pro



The Time TCS-100 ColourMeter Pro is an innovative colour measuring tool with powerful configuration to make colour measurement easier and more professional; It support Bluetooth to connect with Android and iOS devices, ColourMeter Pro will take you into a new world of Colour management; It can be widely used to measure colour value, colour difference value and find similar colour from colour cards for printing industry, paint industry, textile industry, etc.

## Features

### Measure Colour Value

- Adopt international used D/8 (Diffused Illumination, 8 degree viewing) geometry and SCI mode to make measurement more accurate.
- Adopt spectral sensor to provide reflectance data which make its performance much better than Colourimeter.
- To get correct L\*a\*b, L\*Ch, RGB, Hex and other Colour value under light source D65 or D50.
- It can measure whiteness index, yellowness index, Colour strength, Colour fastness, opacity and other 20 kinds of parameters with 26 kinds of illuminants.

### Measure Colour Difference Value

- "Pass" or "Fail" judgment can be seen from both instrument and APP.
- $\Delta E^*_{ab}$ ,  $\Delta E^*_{CH}$  and other Colour difference formulas, display Colour difference value, Colour difference evaluation results.
- Connect to App for Colour difference evaluation, Colour difference tolerance and parameters can be set in APP.

### Portable and Massive Colour Card Database

- Bluetooth to connect with mobile phone APP to create database to upload the Colour shades from printing, paint, textile Colour cards.
- No need to carry big and heavy Colour card, we can find Colour card database from Colourmeter Pro APP and find the closed/similar Colour easier and faster.

### Artificial Intelligence for Accurately Measure Colour

- AI-based Colour search engine for accurately measure Colour;
- Colour can be collected anywhere and anytime.

### Innovation Design for Auto Black and White Calibration

- Auto instrument black and white calibration for easier and correct Colour test
- APP will remind for calibration if instrument works for long time
- From APP we can do manual calibration and set calibration interval.

### Single Instrument for Test and Save Test Value

- 1.14 inches IPS display screen to show Colour information.
- Data can be saved on instrument and instrument data can be synced into APP.

### Cloud database, more convenient to view and upload

- Official Colour card databases are available.
- Personal users can update Colour information to cloud and share between different instruments which make Colour management much easier.
- Enterprise users can create and manage their own Colour card library and formula information in the cloud and share the information to their customers and suppliers through the unique invitation code.

## Technical Specification

Product Features	Description
Model	TCS-100
Illumination and Viewing System	D/8, SCI (specular component included)
Colour Spaces and Indices	Reflectance, CIE-Lab, CIE-LCh, Hunter Lab, CIE-Luv, XYZ, Yxy, RGB, Colour Difference ( $\Delta E^*ab, \Delta E^*cmc, \Delta E^*94, \Delta E^*00$ ), Whiteness Index (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), Yellowness Index (ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness Index (My, dM), Staining Fastness, Colour Fastness, Tint (ASTM E313-00), Colour Density CMYK (A, T, E, M), Metamerism Index Milm, Munsell, Opacity, Colour Strength
Light Source	LED (Full Wavelength Balanced LED Light Source)
Measure Aperture	8mm
Wavelength Interval	10nm
Wavelength Range	400-700nm
Repeatability	$\Delta E \leq 0.1$ (when a white tile is measured 30 times at 5-second intervals after calibration)
Measurement Time	1s
Interface	USB, Bluetooth
Illuminants	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
Observer	2° and 10°
Display Screen	IPS Full Colour Screen
Battery	4.2V / 760mAh, Rechargeable, 10,000 continuous tests
Language	English and Chinese
Calibration	Auto
Software Support	Android, IOS, Windows
Weight	About 90g
Instrument Size	Diameter 31mm, Height 102mm

## Packing List

Main Unit TCS-100  
 Type C Cable  
 TIME Certificate  
 Warranty Card  
 Instrument Manual

