# Color Density Meter mini CWD CMYK



**URAI®**

# Color Density Meter mini CWD CMYK

The Color Density Meter mini CWD CMYK is suitable for measuring CMYK color density (A, T, E, M), dot gain/area, overprint speed, print contrast, gray level, hue error. Instrument with 45°/0° geometry for reflectance measurements, small size, easy to carry, with color search via smartphone APP via Bluetooth.

The instrument is equipped with a 1.14-inch color IPS screen, and USB interface for communication with PC.

The special multifunctional "smart button" and an automatic white calibration directly in the cap without contact.

## MAIN FEATURES

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|---|---|---|
| Small size instrument, easy to carry even in your pocket or hanging on the strap | The instrument is equipped with a 1.14 inch IPS color display with "Smart Key" | Integrated quality control with PASS/FAIL display. Automatic non-contact calibration with white tile directly in the cap |
| Data communication with the PC takes place via the USB port | USB Type-C rechargeable lithium battery, can continuously test for 12,000 times with a single full charge | Supports 20 kinds of color indexes and 26 kinds of illuminants |

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## TECHNICAL CHARACTERISTICS OF THE INSTRUMENT

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| Optical Geometry | 45°/0° |
| Light Source | Full spectrum LED light source |
| Color space | CIE Lab, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, βxy, DIN Lab99 |
| Color Difference Formula | ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE(Hunter) |
| 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),CWF,U30,U35,DLF,NBF,TL83,TL84,M0,M1,M2 |
| Displayed Data | Sample chromaticity value, color difference value, pass/fail result. Density value, density difference, dot area, dot enlargement, overprint, printing characteristics, printing contrast, tone error and gray scale, density scanning |
| Wavelength Range | 400~700nm |
| Inter-instrument Agreement | ΔE*00 < 0.4 (BCRA Series II, average measurement of 12 tiles) |
| Sensor | CMOS Dual light path sensor |
| Measuring Time | About 1.5s |
| Measuring Aperture | 4mm |
| Repeatability | Color：ΔE*ab within 0.1 (After warm-up calibration, the average value of measuring the whiteboard 30 times at an interval of 5s） |
| Data Port | USB, Bluetooth |
| Language | Chinese, English |
| Power | Lithium battery, can do tests continuously for 10.000 times in a single full charge |
| Illuminant Life Span | 5 years, more than 3 million times measurements |
| Display | IPS full color screen, 1.14 inch |
| Operating Environment | 0~40℃, 0~85%RH (no condensing) |
| Storage Environment | -20~50℃, 0~85%RH (no condensing) |
| Dimension | Ø 31mm × 102 mm |
| Weight | 90 gr. |
| Standard Accessory | Data cable, manual, calibration box |
| Optional Accessory | Micro Printer, Powder Test Box |

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