## Colour Measurement

## ColorTest



- portable colorimeter with external probe

- 45°/0° measuring geometry according to DIN 5033, optional d/8°

- small probe head, spring-loaded

- automatic/manual start trigger

- high resolution O-LED colour display

- real grating spectrometer with a sampling distance of 3.5 nm

- non-volatile memory elements with the capacity of saving up to 1,000 colour values or 300 colours with remission spectrum and 1,000 colour standards

## ColorTest – Colour Measurement

### Applications

The perfect solution for colour measurement of plastics, textiles, leather, powders, liquids, granulates, creams, foods, cable …

### Features

- Flexible external probe head and a small spot size (3.5 mm Ø) for the reliable scans on curved surfaces and small samples.
- A comprehensive range of accessories and probe head adapter enables the use for a wide range of applications.
- Two main geometries (45°/0° and d/8°) available in one device, by using the optional accessory MA35-UK.
- The automatic accessory detection changes internal settings depending on what accessory is attached – automatically.
- Quality „Made in Germany"

### Accessories

A comprehensive range of accessories and probe head adapter available.

- Probe Head Adapter with d/8° geometry
- Set for measuring powders
- Set for measuring liquids
- Probe head with V-Block for positioning on cylindrical samples such as cables
- Probe head with small apperture for measuring small samples like tablets

| Technical Data | |
|---|---|
| Measuring geometry | 45°/0° according to DIN 5033, optional d/8° with MA 35-UK adapter |
| Illuminants | D65, D55, D50, A, C, F11 |
| Standard Observer | 2° and 10° |
| Colour Scales | XYZ, Yxy, ΔE CIE L*a*b*, L* u* v*, L*C*h, Hunter Lab, pass/fail |
| Spectral Range | 400 nm to 700 nm, scanning in 3.5 nm steps |
| Display | high resolution O-LED colour display, high contrast and low-power |
| Repeatability | < 0.05 ΔE CIELab |
| Light Source | white and blue LED's, extremely long life span |
| Scanning Time | complete measurement cycle 0.5 sec |
| Power Supply | rechargable battery NiMH 6-Volt/1,100 mAh – 15 hours use |
| Automatic Accessory Recognition | an accessory is detected and device settings automatically modfied accordingly |
| Calibration | with white standard certified by the Federal Institute for Materials Research (Bundesanstalt für Materialforschung – BAM) optional 2-stage calibration with working standard |
| User-Mode | limited user rights – password protected |
| Memory | up to 1,000 standard colours, up to 1,000 colour values or up to 300 colour values with spectra (400-700 nm/3.5 nm steps) |
| PC-Interface | USB 2.0, Bluetooth© (optional), RS232 (optional) |
| Norms and standards | ASTM D 2244 |
| Accessories | for the measurement of inhomogeneous samples, transparent, translucent and opaque liquids, powders in cuvettes or tablet form and more |
| Climatic Conditions | ambient temperature: 15 °C to 45 °C, relative humidity: max. 85 % non-condensing |

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