



# BRIGHTNESS & COLOUR METER TS

For:



✓ PAPER



✓ BOARD



✓ TISSUE

For determination of ISO brightness, color, color differences, fluorescence and opacity of paper.



Damped sample support



✓ ProbeNet-capable

## MOST IMPORTANT BENEFITS

- ✓ Compact device with inbuild touch screen
- ✓ Double-beam-spectrophotometer with  $d/0^\circ$  geometry
- ✓ Measuring with different light sources without recalibration
- ✓ Automatic calculation of the standard deviation after several test sequences

## PRODUCT DESCRIPTION

The brightness colour meter consists of a spectrophotometer and a touch screen, supported within a robust case. The double beam spectrophotometer allows quick measurement procedures at the same time as providing high resolution. The device is operated via a touch screen, which displays both the results and relevant graphics after the test. The damped sample support is beneath the spectrophotometer. The sample is clamped with help of the damped sample support, so that no light from outside comes into the sphere and the measurement is carried out correctly. There are two USB ports on the reverse of the unit to enable printers to be connected, measurement data to be stored, and for simplifying software updates.

## TEST DESCRIPTION

The desired measurement method is selected from pre-set standard test types or a predefined test program created by the operator. The identification number of the sample (tambour number, etc.) is entered to identify the sample. Then the sample is placed on the sample support, and this is released to initiate automatic closing. Pushing the start button begins the measurement. The results are displayed on the touch screen, both numerically and graphically. If more than one test is carried out, these can be compared as statistics as well as displayed as standard deviations. The data can be easily printed via the unit's USB port, or stored using a USB compatible storage device.



Black trap, brightness and UV calibration standards

## TECHNICAL DATA

### DEVICE/INSTRUMENT

- Easy operation via the integrated touch screen
- Double-beam spectrophotometer with  $d/0^\circ$ -geometry
- Wavelength range: 360 – 740 nm
- Wavelength pitch: 10 nm
- Reflectance range: 0 – 200 %, resolution: 0.01 %
- Light source: pulsed xenon lamps
- Measurement area:  $\varnothing$  30 mm
- Sphere diameter: 152 mm
- Measuring with different light sources without recalibration
- Measurement methods:
  - ISO brightness (R457)
    - Color: XYZ /Rx, Ry, Rz / L, a, b / L\*, a\*, b\* / L\*, C\*, h\* / x, y, Y
    - Color difference between two samples resp. standard and sample
    - Fluorescence
    - Opacity
- Two USB ports
- Compatible with ProbeNet (see pages 84 – 87)
- Optional available:
  - Ethernet port for data transfer
  - Brightness and UV calibration standards

### INSTALLATION REQUIREMENTS

Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	No

### APPLICABLE STANDARDS

- DIN 53145 bis 53147, 54500
- ISO 2469, 2470, 2471, 3688, 11475, 11476
- TAPPI T519, T525, T527



USB ports on the back side of the device