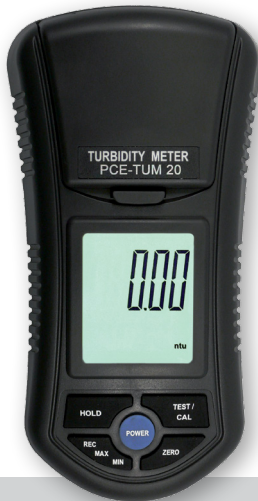


## PCE-TUM 20

### Turbidity Meter According to ISO 7027

- infrared turbidity measurement method
- stray light and transmitted light measurements
- Data Hold, Max and MIN memory
- 0 NTU and 100 NTU calibration
- Automatic Power Off (after 5 min)



#### TECHNICAL SPECIFICATIONS

Meas. range	0.00 ... 50.00 NTU / 50 ... 1,000 NTU
Resolution	0.01 NTU / 1 NTU
Accuracy	±0.5 NTU or ±5 % of the display (depending of which is greater)
Calibration	2 points (0 and 100 NTU)
Light source	infrared LED, 850 nm
Service life	almost unlimited
Measuring time	<10 s
Light detector	photodiode
Power supply	6 x 1.5 V AAA batteries (included)
Oper. conditions	0 ... +50 °C / <85 % RH
Dimens. / weight	155 x 76 x 62 mm (HxWxD) / 320 g

#### INCLUDES

Turbidity meter, 0 NTU / 100 NTU standards, 2 x cuvettes, batteries, carrying case, instruction manual

#### ITEM NO. ITEM

K-PCE-TUM 20 turbidity meter

#### OPTIONAL ACCESSORIES

K-TU-0NTU spare calibration solution 0 NTU  
K-TU-100NTU spare calibration solution 100 NTU

## PCE-RGB2

### Colour Spectrometer with External Display / PC Interface

- complies with DIN 5033 norm
- measures on non-luminous surfaces such as paper, leather, textiles, paint, ...
- self-illuminating surfaces such as LC displays can be measured relative to each other
- calibration function, white standard included
- relative function allows comparison of different materials



#### TECHNICAL SPECIFICATIONS

Measurement range	RGB:0...1023 each for R, G, B; 7 HSL: 0...1000 each for H, S, L
Resolution	1 (RGB measurement); 0.001 (HSL measurement)
Meas. geometry	45° / 0°
Spectral range	400 ... 700 nm
Range of application	1. non-luminous surfaces; 2. self-illuminating surfaces (rel.); <b>Note: only suitable for non-fluorescent samples</b>
Display	relative and absolute values
Interface	RS-232
Software	optional
Power supply	9 V block battery
Dimensions	sensor: 45 x 92 x 160 mm device: 205 x 76 x 37 mm
Weight	approx. 600 g

#### INCLUDES

Colour spectrometer with sensor on 1 m cable, white standard, carrying case, instruction manual

#### ITEM NO. ITEM

K-PCE-RGB2 colour spectrometer with external display

#### OPTIONAL ACCESSORIES

K-SOFT-LUT-B02 RS-232 data cable + software  
K-SOFT-LUT-USB USB data cable + software

## PCE-TCD 100

Colour Difference Meter According to CIELab

- CIELab colour measurements
- conversion into LCH
- determines the colour difference value  $\Delta E$
- high-contrast display
- measures the colours of all surfaces



PCE

### TECHNICAL SPECIFICATIONS

Measurement range	L: 0 ... 100 a: -128 ... 127 b: -128 ... 127
Response time	approx. 3 s
Sampling rate	approx. 2 s
Measurement angle	10° according to CIE standart
Sensor	silicon photodiode
Display	LC display, 6 mm digits, backlight
Power supply	2 AA 1.5 V batt./ext. mains adaptor
Operating conditions	0 ... +40 °C / <85 % RH
Dimensions	171 x 50 x 48.8 mm
Weight	203.6 g

### INCLUDES

CIELab colorimeter, mains adaptor, batteries, USB data cable, software, instruction manual

ITEM NO.	ITEM
K-PCE-TCD 100	colorimeter



## colorStriker

Colorimeter According to Lab Norm

- colourfast indication on screen
- QM capable software
- readings can be transferred per Bluetooth
- non-contacting colour measurement
- for a wide range of materials (even skin tones)



It's Mathal

TOP  
seller

### TECHNICAL SPECIFICATIONS

Type of device	Truecolorimeter
Measurement range	400 ... 700 nm
Measur. geometry	45° / 1° or 1° / 45°
Norms	ISO 13655, DIN 5033
Resolution	12 bits per colour channel
Measuring field	15 mm
Accuracy	<0.6 $\Delta E$
Repeatability	<0.2 $\Delta E$
Illumination	white light LEDs
Sensors	2 MCTS True Color sensors
Operating system	Windows XP, Vista, Windows 7
Dimensions	60 x 110 x 40 mm
Weight	120 g

### INCLUDES

Colorimeter colorStriker, mains adaptor, USB Bluetooth dongle, software, instruction manual

ITEM NO.	ITEM
K-colorStriker	colorimeter



## PCE-TCR 200

Surface Colorimeter, Lab Norm

- measurement of Lab colour values
- conversion into LCH, RGB ...
- measurement of colour differences ( $\Delta E_{ab}$ ,  $\Delta E_{ch}$ )
- measurement port with  $\varnothing$  of 8 mm / three selectable light sources
- black and white balance
- USB interface / software for analysis



PCE

### TECHNICAL SPECIFICATIONS

Accuracy	$\pm 0.08$
SCI	SCE
Measur. geometry	8/d
Light source	standard white light
Standard illuminants	D65, D50, F11
Measurement angle	10° according to CIE standard
Balancing	standard white / black acc. to CIE
Memory	12 groups with 30 sets of d. each
Display	L*a*b*, L*c*h*, E*ab, RGB deviations from L*a*b* u. L*c*h*
Power supply	4x AA 1.5V, external 5V m. adaptor
Dimensions	77 x 86 x 210 mm
Weight	550 g

### INCLUDES

Colorimeter, white and black body, batteries, mains adaptor, USB cable, software, instruction manual

ITEM NO.	ITEM
K-PCE-TCR 200	colorimeter



## X-Rite CAPSURE

### Precision Colorimeter with Integrated Colour Fans

- 100 saved colours with 30-second language codes each
- colour measurement of various materials and surfaces, plain or multicoloured
- saved colours can be used for own palettes and in design applications
- target colours can be formulated in colour mixing systems

#### Colour data saved on the device:

- PANTONE FASHION + HOME Color System library (paper and wool) for fashion and home use
- PANTONE PAINT + INTERIORS library (paper and wool) for architects and decorators (1925 standard colours)
- PANTONE PLUS SERIES Formula Guide (coated and uncoated)
- PANTONE PLUS SERIES CMYK (coated and uncoated)
- PANTONE Goe System (coated and uncoated) for graphic designers and printers
- the saved L\*a\*b\*, XYZ-, RGB- and CMYK data can be retrieved in connection with each colour shade



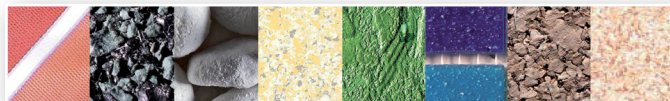
#### TECHNICAL SPECIFICATIONS

Measurement range	2.4 and 8 mm
Meas. geometry	45° / 0°
Measurement time	1.8 seconds
Reproducibility	on average 0.2 DE94 on white (short time)
Light source	25 tridirectional LEDs (8 x visible wave lengths, 1 x UV)
Functions	ColorPicker-simultaneous recognition of 4 dominant colours
Standard illuminants	10°: D65, A, 2°: D50, D65, A, F2, F11 (adjustable)
Interface / software	USB / compatible with Windows XP and higher
Memory	256 MB > 45.000 reference colours
Display	4.5 cm TFT colour display
Power supply	3.7 V / 1.200 mAh Li-Ion rechargeable battery; life: 5 h, standby operation: 100 h; charging via USB; ch. time: 4 ... 6 h
Operating conditions	0 ... +40 °C
Dimensions / weight	144 x 52 x 40 mm / 165 g (incl. battery)

#### INCLUDES

Colorimeter, protective bag, carrying strap, USB cable 1.5 m, software, manual

ITEM NO.	ITEM
K-CAPSURE	colorimeter



## PCE-CSM 7

### Professional Norm Colorimeter (+Degree of Whiteness and Yellowing)

- portable colorimeter for quality control
- automatic white / black calibration
- five colour spaces and three light sources



plate with cuvette for analysis of liquids and powders



powder calibration box



#### TECHNICAL SPECIFICATIONS

Measurement port	Ø 8 mm / Ø 4 mm
Measurement geometry	8/d
Accuracy	±0.40 ΔE*ab (between every device)
Sensor	silicon photodiode
Colour spaces	CIEL*a*b*C*h*; CIEL*a*b*; CIEXYZ; CIERGB; CIEL*u*v*; CIEL*C*h*; yellowing and white colour fastness
Colour difference	ΔE*ab; ΔL*ab; ΔE*C*H*; ΔECIE94; ΔEHunter
Reproducibility	standard deviation up to ΔE*ab 0.06 / on average 30 measurements from white standard
Stand. illum. / l. source	D65 D50 A / LED
Interface / memory	USB / 100 standard values, 20000 samples
Power supply	Lithium-Ion battery, 3.7 V at 3200 mAh
Operating conditions	-10 ... +40 °C / 0 ... 85 % RH
Dimensions / weight	205 × 70 × 100 mm / 500 g

#### INCLUDES

Colorimeter, blinds (Ø 4 & 8 mm), rechargeable battery, white standard, software, case, manual

ITEM NO.	ITEM
K-PCE-CSM 7	colorimeter

#### OPTIONAL ACCESSORIES

K-PCE-CSM-UTC	analysis plate with cuvette
K-PCE-CSM-PTB	powder box for B/W calibration of powders
K-PCE-CSM-PTB WCP	spare white calibration standard

## PCE-CSM 2

### Precision Colorimeter

- integrated white standard (autom. recalibration)
- large / resilient, small concave and convex measuring head
- colour spaces CIEL\*a\*b\*C\*h\*; CIEL\*a\*b\*; CIEXYZ
- 8 mm measuring port
- equipped with rechargeable Li-Ion battery



#### TECHNICAL SPECIFICATIONS

Measur. range	0 ... 100
Meas. geometry	45° / 0°
Reproducibility	0.08 (at $\Delta E^*ab$ )
Measuring port	Ø 8 mm
Sensor	photoelectric silicon diode
Colour space	CIEL*a*b*C*h*; CIEL*a*b*; CIEXYZ
Colour difference	$\Delta E^*ab$ ; $\Delta L^*ab$ ; $\Delta E^*C^*H^*$
Standard illumin.	D65
Light source	LED
Display	LC display
Memory	100 stand. values, 20000 samples
Power supply	Li-Ion rech. batt., 3.7V at 3200 mAh
Dimensions	205 x 67 x 80 mm
Weight	approx. 500 g

#### INCLUDES

Colorimeter, software, data cable, instruction manual

ITEM NO.	ITEM
K-PCE-CSM 2	colorimeter

#### OPTIONAL ACCESSORIES

K-PCE-CSM-MP	miniature colour printer
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## PCE-CSM 4

### Colorimeter for Curved Surfaces

- surfaces with stripes can be measured accurately by means of the 20 mm measurement port
- new optical path and dynamic integration time enable more stable and more precise measurements
- equipped with rechargeable Li-Ion battery



#### TECHNICAL SPECIFICATIONS

Meas. geometry	45° / 0°
Measuring port	Ø 20 mm
Reproducibility	0.08 (at $\Delta E^*ab$ )
Standard illuminant	D65
Sensor	photoelectric silicon diode
Colour space	CIEL*a*b*C*h*; CIEL*a*b*; CIEXYZ
Colour difference	$\Delta E^*ab$ ; $\Delta L^*a^*b^*$ ; $\Delta E^*C^*h^*$ (formula)
Software	CQCS3 software
Memory	100 standard values, 20000 samples
Power supply	rechargeable 3.5 V Li-Ion battery
Dimensions	205 x 67 x 80 mm
Weight	500 g

#### INCLUDES

Colorimeter, software, data cable, instruction manual

ITEM NO.	ITEM
K-PCE-CSM 4	colorimeter

#### OPTIONAL ACCESSORIES

K-PCE-CSM-MP	miniature colour printer
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## PCE-WSB 1

### Whiteness Meter

- ISO 2470 and ISO 3688 approved
- suitable for all plane products such as paper, plastics and textiles
- for whiteness measurements
- compact and ergonomic design
- with calibration standards (black and white)



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 100
Resolution	0.1
Accuracy	<±0.1
International norm	ISO 2470; ISO 3688
Range of application	production laboratories, incoming goods control, final control
Correction factor	adjustable
Display	LC display
Measuring diameter	Ø 15 mm
Lowest possible value	0.1
Power supply	5 type AA batteries
Dimensions	approx. 235 x 75 x 65 mm
Weight	approx. 500 g

#### INCLUDES

Whiteness meter, gloss standard, case, calibration standards black and white, user manual

ITEM NO.	ITEM
K-PCE-WSB 1	whiteness meter