

## PCE-LES 100

LED Strob. 60 ... 99990 Flashes/Min

- thanks to its LED technology it is not necessary to change the lamps / tripod connection
- 60 ... 99990 flashes/min
- can multiply and divide the pulses by two
- works for up to 11 hours with battery
- 2 LEDs, very bright (370 LUX at 50 cm)



**TOP  
seller**

### TECHNICAL SPECIFICATIONS

Meas. range	60 ... 99990 rpm 1 ... 1666 Hz
Accuracy	±1 LSD (at 60 ... 17300 rpm) ±0.009 % >17300 rpm
Illuminance	370 lux (distance 50 cm)
Phase shifting	up to 360°
Lamp	LED
Power supply	2 x 1.5 AA batteries (11 h)
Display	LED, 5 digits
Case	plastic
Operating conditions	-10 ... +50 °C
Dimensions / weight	124 x 71 x 33 mm / 173 g

### INCLUDES

Stroboscope, 2 batteries, transport bag, instruction manual

ITEM NO.	ITEM
K-PCE-LES 100	stroboscope LED

### OPTIONAL ACCESSORIES

K-CAL-LES 100	ISO calibration certificate
K-STAT	aluminium tripod
K-MINI-STAT	mini tripod

## PCE-LES 200

LED Strob. 30 ... 300000 Flashes/Min

- high flash frequency: 300000 flashes/min (FPM)
- very high lighting performance: 1500 lux at 6000 FPM / IP 65 (resistant to water jet and dust)
- phase shift adjustment in degrees between external trigger signal and flash
- time delay adjustment in milliseconds



**PCE**

### TECHNICAL SPECIFICATIONS

Meas. range	30 ... 300000 rpm 0.5 ... 5000 Hz
Resolution	0.1 (at 30 ... 999 rpm) 1 (at 1000 ... 300000 rpm)
Accuracy	±0.02 % (±1 digit)
Phase shifting	up to 360°
Illuminance	15000 lux (distance 20 cm)
Power supply	3 x AA b. or rechargeable AA b.
Display	LCD, several lines
Case	aluminium
Operating cond.	0 ... +45 °C
Dimensions / weight	191 x 82 x 60 mm / 400 g

### INCLUDES

Stroboscope, 3 batteries, cable for trigger connection, case, instruction manual

ITEM NO.	ITEM
K-PCE-LES 200	stroboscope LED

### OPTIONAL ACCESSORIES

K-CAL-LES 200	ISO calibration certificate
K-PCE-LES-MS	tripod assembly adaptor
K-STAT	aluminium tripod

## Beacon

Stroboscope with High Lighting Power

- ON / OFF switch, rough and fine adjustment, can multiply and divide by two
- xenon lamp 800 lux (for approx. 100 mn. flashes)
- FPS / Hz = flashes/second or Hz
- continuous operation possible, rechargeable battery lasts 30 minutes



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### TECHNICAL SPECIFICATIONS

Measurement range	30.0 ... 18000 rpm 0.5 ... 300 Hz
Resolution	±0.1 rpm (complete range)
Accuracy	±0.01 % of reading
Phase shifting	up to 360°
Distance	max. 5 m ( depending on lighting conditions)
Power supply	15 VDC (chargeable int. batt., charging time approx. 2 ... 3 h)
Case	ABS plastic
Dimensions / weight	168 x 161 x 342 mm / 2.3 kg

### INCLUDES

Stroboscope, charger with cable, 2 rechargeable batteries, instruction manual

ITEM NO.	ITEM
K-02-1016-220	hand-held stroboscope

### OPTIONAL ACCESSORIES

K-45-1047	replacement xenon lamp
K-77-1055	replacement rechargeable battery
K-99-1128	nylon bag
K-04-1453-15	pulse / contact cable 4.6 m

## PCE-S 41

### Electronic Stethoscope

- ideal for inspection and maintenance
- for localisation of faults in bearings, machines and equipment
- headphones to encounter background noise
- continuous (stepless) volume control
- two screw-in sensors (70 + 290 mm)



**TOP  
seller**

#### TECHNICAL SPECIFICATIONS

Meas. range	100 Hz ... 10 kHz
Volume	adjustable
Speaker	8 W
Sensor material	steel
Case	ABS plastic
Power supply	1 x 9 V battery (included) for approx. 30 h of use
Operating cond.	-10 ... +55 °C
Dimensions	device 206 x 50 x 32 mm sensor: 1 x 290 mm ; 1 x 70 mm (length)
Weight	240 g incl. battery

#### INCLUDES

Stethoscope, headphones, 1 m cable, sensors: 70 and 290 mm, battery, bag, instruction manual

ITEM NO.	ITEM
K-PCE-S 41	electronic stethoscope



## ADD350D

### Elec. Stethoscope with Crocodile Clip

- 2 channels
- for capturing machine noises
- long sensor (29 cm) and inductive crocodile clip with 65 cm cable
- magnetic sensors
- headphones with 1.5 m cable



#### TECHNICAL SPECIFICATIONS

Frequency range	30 Hz ... 15 kHz
Operating conditions	-10 ... +45 °C
Volume	adjustable on 80 levels
LED display	power on / volume / battery low
Power	max. 250 mV recorder
Headphones	48 ohm (with ear protection)
Power supply	2 x AAA / LR03
Battery life	10 h (continuous use)
Dimensions	125 x 81 x 30 mm
Long sensor	29 cm
Inductive sensors	65 cm
Magnetic sensors	65 cm

#### INCLUDES

Stethoscope, headphones, long sensor, clamp-on sensor, magnetic sensors, batteries, instruction manual

ITEM NO.	ITEM
K-ADD350D	electronic stethoscope



## PCE-VT 1000

### Vibration Meter (RMS=vVib)

- tool for on-site technicians
- measures vibration velocity
- battery level indication
- holds values after every measurement
- wide frequency range
- Automatic Power Off after 2 minutes



#### TECHNICAL SPECIFICATIONS

Measurement range	
- Velocity	0.1 ... 199.9 mm/s
Resolution	0.1 mm/s
Accuracy	±5 %
Frequency range	
- Velocity	10 Hz ... 1 kHz
Display	LCD 3.5 digits, last value displayed
Battery	2 x 1.5 V batteries with 5 h battery life if continuously used
Operating cond.	0 ... +40 °C, <85 % RH
Dimensions	150 x 22 x 15 mm
Weight	100 g

#### INCLUDES

Vibration meter, transport bag, batteries, instruction manual

ITEM NO.	ITEM
K-PCE-VT 1000	vibration meter

#### OPTIONAL ACCESSORIES

K-CAL-PCE-VT 1000 calibration certificate

# Force Gauge / Automotive Tester

## PCE-PTR 200

### Penetrometer for Fruit Ripeness

- combines 3 usual penetrometers in one single device / conversion table for kg/cm<sup>2</sup>
- HOLD function for max. value / zero button
- PEAK HOLD and indication of max. value
- Auto Power Off function / battery level indication
- RS-232 interface



#### TECHNICAL SPECIFICATIONS

Meas. range	0 ... 20 kg / 0 ... 196 N
Resolution	10 g / 0.05 N
Accuracy	±0.5 %, ±2 digits
Units	grammes / Newton
Max. overload	30 kg
Interface	RS-232
Software	optional
Functions	fruit firmness with PEAK HOLD
Display	5-digit; 10 mm LCD
Power supply	6 x batteries 1.5 V or mains adpt.
Case material	ABS plastic
Dimensions / weight	227 x 83 x 39 mm / 550 g

#### INCLUDES

Penetrometer, tips (Ø 6.8, 11 mm), 2 fixing rings, conversion table, bag, instruction manual

#### ITEM NO. ITEM

K-PCE-PTR 200 penetrometer

#### OPTIONAL ACCESSORIES

K-SOFT-LUT-USB	USB cable + software
K-CAL-FG	ISO calibration certificate
K-NET-LUT	mains adaptor

## SKM 1.0

### Closing Force M. for Doors / Windows

- measures the closing force of windows or doors
- LC display with backlight
- Automatic Power Off
- continuous use for 8 hours
- portable as powered by batteries



#### TECHNICAL SPECIFICATIONS

Nominal load	1000 N
Resolution	1 N
Accuracy	±3 N
Sampling rate	Adjustable: 10, 20, 100 Hz
Cable connection	via swan neck, L= 200 mm
Display	12 digits, 2 lines
Protection class	IP 40
Power supply	4 x batteries, type AA
Operating hours	8 h continuous
Operating conditions	0 ... +50 °C
Cell dimensions	78 x 145 x 44 mm
Weight	0.7 kg

#### INCLUDES

Closing force meter, factory calibration certificate with protocol, instruction manual

#### ITEM NO. ITEM

K-SKM 1.0 closing force meter

#### OPTIONAL ACCESSORIES

K-CAL-FG	ISO calibration certificate
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## SKM 2

### Closing Force Meter 2001/85/EG

- measures the closing force of service doors and closing mechanisms
- LC display with backlight / powered
- according to §29 StVZO (German road traffic licensing regulations) and 2001/85/EC
- measures effective force and peak force



#### TECHNICAL SPECIFICATIONS

Meas. range	0 ... 995 N
Accuracy / resolution	±10 N / 64 x 128 pixels
Functions	effective force, peak force
Power supply	internal: 6 V battery NiMH, 700 mA external: 230 V DC / 12 V AC
Operating conditions	+5 ... +40 °C
Dimensions	cell Ø 100 x 115 mm
Weight	3.5 kg

#### INCLUDES

Closing force meter, test hammer, charger, manual

#### ITEM NO. ITEM

K-SKM 2 closing force meter

#### OPTIONAL ACCESSORIES

K-SKM-KOF	case
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## PCE-CT 25

### Vehicle Paint Thickn. Gauge (Fe/nFe)

- measures on steel, iron and nFe metals
- integrated probe, easy to clean
- large LC display with backlight
- Automatic Power Off



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 1000 µm
Resolution	1 µm
Accuracy	±7 digits <200 µm ±3 % ±4 digits >200 µm
Materials	steel, iron, non-ferrous metals
Functions	Automatic Power Off
Display	3 1/2-digit LC display with backlight
Power supply	9 V block battery
Operating conditions	0 ... +50 °C
Dimensions	148 x 105 x 42 mm
Weight	157 g (incl. battery)

#### INCLUDES

Vehicle paint thickness gauge, calibration standard, battery, bag, instruction manual

#### ITEM NO. ITEM

K-PCE-CT 25 vehicle paint thickness gauge



## PCE-CT 26

### Coating Thickness Gauge (Fe metals)

- external probe, easy to clean (50 cm cable)
- digital LC display
- can be reset to zero on any paint-free metal anytime and easily
- Automatic Power Off
- zero reset with included standards



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 2.000 µm
Resolution	0.1 µm (at 0.0 ... 99.9 µm) 1 µm (at 100 ... 2000 µm)
Accuracy	±2 % or ±2.5 µm
Materials	steel and iron
Sensor cable	L = 50 cm
Zero reset	by means of included standards
Display	4-digit, large LCD
Power supply	4 x 1.5 V AAA battery (incl.)
Operating cond.	0 ... +50 °C
Dimensions	126 x 65 x 27 mm
Weight	130 g incl. battery

#### INCLUDES

Coating thickness gauge, calibration standards, bag, batteries, instruction manual

#### ITEM NO. ITEM

K-PCE-CT 26 coating thickness gauge

#### OPTIONAL ACCESSORIES

K-CAL-CT	ISO calibration certificate
K-MFS-SDM	measuring film
K-SE-CT 26	replacement sensor

## PCE-CT 60

### Paint Thickn. Gauge with Large LCD

- readings are saved in regular mode, 80 readings per group can be saved
- MIN, MAX, MEAN, ALARM functions
- USB port for data exchange
- zero point calibration and multi-point calibration (up to 4 points) for each group



#### TECHNICAL SPECIFICATIONS

Material	Steel / iron	nFe metals
Measur. range	0 ... 1300 µm	0 ... 1300 µm
Resolution	1 µm (at 0 ... 999 µm) 0.01 mm (at 1.000 µm ... 1.300 µm)	
Operating principle	magnet. induction	eddy current
Accuracy	±3 % ±2 µm	±3 % ±2 µm
Min. meas. spot	Ø 6 mm	Ø 6 mm
Subsurface thickn.	min. 0.5 mm	min. 0.3 mm
Min. radius	concave 25 mm / convex 1.5 mm	
Power supply	2 x 1.5 V AAA batteries	
Operating cond.	0 ... +40 °C / 20 ... 90 % RH	
Dimens. / weight	110 x 53 x 24 mm / approx. 100 g	

#### INCLUDES

Paint thickness gauge with integr. probe, software, USB cable, batteries, calibration standards, case, manual

#### ITEM NO. ITEM

K-PCE-CT 60 paint thickness gauge

#### OPTIONAL ACCESSORIES

K-CAL-CT	calibration certificate
K-MFS-SDM	measuring film

## PT-FN-3

### Meter for Electrically Insulating Coatings up to 1500 µm

- measures all non-magnetic coatings such as lacquer, paint, chrome, copper and zinc on steel, iron and non-ferrous metals / min. measuring surface: 5 x 5 mm
- measures all electrically insulating coatings such as lacquer, paint and anodised aluminium on Fe / nFe metals
- recognises the base material / selects measurement procedures
- memory capacity for 10000 values, statistical analysis



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 1500 µm
Resolution	1 µm (at 0 ... 50 µm) / 2 µm (at 51 ... 1500 µm)
Accuracy	±1 µm +1% (at 0 ... 50 µm) / ±2 µm (at 51 ... 1500 µm)
Min. radius of curvature	convex: 3 mm; concave: 50 mm
Min. thickness	F type: 0.5 mm / N type: 0.05 mm
Memory / interface	10000 values / RS-232
Statistics function	included
Display	graphical LC display with backlight
Norms	ISO 2178 / 2360 / 2808 EN ISO19840, ASTM D1186, D1400
Power supply	2 x 1.5 V AA battery
Operating conditions	0 ... +50 °C
Dimensions / weight	device: 147 x 61 x 25 mm / 170 g

#### INCLUDES

Coating thickness meter, calibration standard, NIST certificate, software, RS-232 cable, batteries, protective holster, instruction manual

ITEM NO.	ITEM
K-PT-FN-3	meter with internal probe, memory, software

#### OPTIONAL ACCESSORIES

K-RS232-USB	adaptor RS-232 to USB
K-CAL-CT	ISO calibration certificate

## PCE-CT 30

### Coating Thickness Gauge up to 3500 µm

- wide measurement range of 0 ... 3.5 mm / wear-resistant ruby measuring head
- practical V groove at the measuring heads makes measurement on round objects such as axles, bars, etc. easier
- optical alarm when you measure on wrong base
- includes: coating thickness gauge with battery, bag with shrink-wrapped zero plate and instruction manual



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 3500 µm or 0 ... 140 mils (selectable)
Resolution	0.1 µm (at 0.0 ... 99.9 µm) / 1 µm (at 100 ... 999 µm) / 0.01 mm (at 1.00 ... 3.50 mm)
Accuracy	±1µm +2% (at <1000 µm) / ±3.5 % (at 1.00 ... 3.50 mm)
Min. measuring surface	10 x 10 mm
Min. radius of curvature	convex: 5 mm / concave: 30 mm
Min. thickness of base material	Fe type: 0.2 mm nFe type: 0.05 mm
Display	4-digit LC display
Power supply	9 V block battery (incl.)
Operating conditions	0 ... +60 °C
Dimensions	118 x 58 x 38 mm
Weight	150 g incl. battery

#### INCLUDES

Coating thickness gauge with integrated probe, bag with shrink-wrapped zero standard, battery, instruction manual

ITEM NO.	ITEM
K-PCE-CT 30	coating thickness gauge

#### OPTIONAL ACCESSORIES

K-CAL-CT	ISO calibration certificate
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## PCE-AT 5

### Tachometer f. Two-/Four-Stroke Eng.

- measures the revolutions of all common combustion motors with electric ignition (1 cylinder two-stroke ... 8 cylinders four-stroke)
- 1.10 m test lead with inductive clip to place on ignition cable
- display with backlight
- with torch



#### TECHNICAL SPECIFICATIONS

Meas. range	100 ... 20,000 RPM (suitable for combustion engines 1 cylinder two-stroke ... 8 cylinders four-stroke)
Resolution	1 RPM
Accuracy	±10 RPM
Measuring adaptor	crocodile clip with 1.1 m cable
Sampling rate	0.5 s
Case	ABS plastic
Display	LCD, 6 digits, backlight
Functions	torch
Power supply	1 x 9 V block battery
Operating cond.	0 ... + 50 °C
Dimensions	160 x 58 x 39 mm
Weight	177 g

#### INCLUDES

Tachometer, test lead with inductive clip, battery, instruction manual

ITEM NO.	ITEM
K-PCE-AT 5	tachometer

## PCE-BTT 1

### Tooth Belt Tension Tester

- to test and adjust the tooth belts
- measures tension of nearly all types of vehicles, in line with manufacturer specifications
- sensor can be attached to the tooth belt with one hand
- Automatic Power Off after 5 min



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 750 N / 0 ... 120 lb / 0 ... 77 Kg / 0 ... 114 seem
Resolution	0.1 N
Accuracy	±5 %
Functions	Automatic Power Off
Display	Low, OK, Hi / digital
Max. belt width	36 mm
Overload alarm	750 N
Max. capacity	850 N
Cable length	1.4 m
Assembly	one-hand assembly of sensor
Power supply	4 x 1.5 V AAA
Operating conditions	0 ... +50 °C, <85 % RH
Dimensions	35 x 62 x 33 mm
Weight	335 g

#### INCLUDES

Belt tension tester, sensor with 1.4 m cable, 4 batteries, carrying case, instruction manual

ITEM NO.	ITEM
K-PCE-BTT 1	tooth belt meter

## PCE-BST 1

### Brake Service Tool for many Vehicles

- opens and closes the parking brake
- reads / deletes trouble codes for vehicles with electronic parking brake; suitable for EPB, SBC and PBM systems
- brake leak detection; indication of brake fluid change; adjustment of brake lining thickness
- emergency release test / engine control unit (ECU) and brake warning light can be reset



#### TECHNICAL SPECIFICATIONS

Types of vehicle	Mercedes Benz E211/E219 (until 06), R230, S221(until 07), VW Passat (from 05), Audi A5 (from 07), A6/A8 (from 04), Volvo XC70 (08-09), XC60 (09), V70 (08-09), S80 (07-09), Ford Focus C-MAX (02, 07), LS (03-06)
Parking brake Systems	opens / closes suitable for EPB, SBC and PBM
Emerg. rel. test	yes
Display	LC display, adjustable contrast
Interface	OBDII / USB
Power supply	8 ... 18 volts (via OBD interface)
Operating cond.	0 ... +60 °C
Dimensions	185 x 85 x 35 mm
Weight	750 g

#### INCLUDES

Elektronic brake service tool, bag, OBD2 connection cable, USB cable, instruction manual

ITEM NO.	ITEM
K-PCE-BST 1	brake service tool

## PCE-LES 100

### LED Stroboscope up to 99,990 RPM

- pulse doubling and separation possible
- tripod connection / light-weight, handy case
- one-hand operation via 6 keys
- 60 ... 99,990 flashed
- battery life 11 h



**TOP  
seller**

#### TECHNICAL SPECIFICATIONS

Measurement range	60 ... 99,990 rpm 1 ... 1,666 Hz
Display	5-digit LED display
Flash pulse	doubling and separation possible / fine adjustment
Phase shifting	yes, 0 ... 360°
Accuracy	60 ... 17,300: ±1 LSD 17,300 ... 99,990: ±0.009 %
Lamp	LED
Illuminance	370 lux at 50 cm
Power supply	2 x AA batteries
Operating conditions	-10 ... 50 °C
Dimensions / weight	124 x 71 x 33 mm / 173 g

#### INCLUDES

Vehicle stroboscope lamp, batteries, protective bag, instruction manual

ITEM NO.	ITEM
K-PCE-LES 100	stroboscope

#### OPTIONAL ACCESSORIES

K-STAT	tripod
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## MDB01M

### Ignition Light Gun

- to check petrol and diesel engines
- measures dwell angle and ignition control
- revolution / voltage measurement
- comes in carrying case
- measures start of fuel delivery and advance corrector
- powered by microprocessor



112729

#### TECHNICAL SPECIFICATIONS

Ignition control	0.1° ... 99.9°
Revolutions	300 ... 9,999 RPM
Dwell angle	0° ... 60°
Display	LED
Voltage	10 V ... 18 V
Weight	3.0 kg
Packaging	in protective case

#### INCLUDES

Automotive tester with petrol cable, diesel cable set with piezo clamp, carrying case, instruction manual

ITEM NO.	ITEM
K-MDB01M	ignition light gun



## MDG83M

### Ignition Timing Gun

- to test petrol engines
- measures ignition control, revolutions, voltage
- tests contact breaker and dwell angle
- powered by processor



112730

#### TECHNICAL SPECIFICATIONS

Ignition control	0.1° ... 99.9°
Revolutions	300 ... 9,999 RPM
Dwell angle	0° ... 99°
Voltage	10 V ... 18 V
Display	LC display
Weight	1.5 kg
Packaging	in protective case

#### INCLUDES

Ignition timing gun, adaptor cable with needle clamp, petrol cable set with inductive clamp, case, manual

ITEM NO.	ITEM
K-MDG83M	ignition timing gun



## PCE-SG

### Refractometer for Antifreeze Agent

- quickly and easily determines the proportion of antifreeze agent in solutions
- suitable for industrial and automotive purposes
- handy, gives accurate readings



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... -50 °C coolant / antifreeze agent, 0 ... -40 °C cleaning agent 1.15 ... 1.30 s. g. battery acid content
Resolution	5 °C antifreeze agent 5 °C cleaning agent 0.01 s. g. battery acid content
Accuracy	±5 °C antifreeze agent ±5 °C cleaning agent ±0.01 s. g. battery acid content
Temperature comp.	no
Dimensions	157 x Ø 29 mm
Weight	230 g

#### INCLUDES

Refractometer, pipette, screwdriver, carrying box, instruction manual

ITEM NO.	ITEM
K-PCE-SG	refractometer

#### OPTIONAL ACCESSORIES

K-R-COV	plastic folding lid
K-R-COV-R	plastic folding lid incl. ring

## PKH 2.0

### Pedal Force Meter for Brake Pedals

- range of 0 ... 1,500 N for compressive forces
- various readout possibilities
- for cars and trucks
- mechanical overload protection



#### TECHNICAL SPECIFICATIONS

Nominal load	0 ... 1,500 N
Accuracy	0.5 % f.s.
Protection class	IP 65
Display	12 digits, 2 lines, LC display
Case	ABS (IP 40 protection)
Functions	mechanical overload protection
Approval	APK approved (Netherlands)
Power supply	4 x AA batteries
Operating conditions	0 ... +50 °C
Dimensions	(pedal force meter) 50 mm (W) x 70 mm (L) x 27 mm (H) (hand-held terminal) 78 mm (W) x 145 mm (L) x 44 mm (H)

#### INCLUDES

Pedal force meter (0 ... 1,500 N) , hand-held terminal HT 6.0, instruction manual

ITEM NO.	ITEM
K-PKH 2.0	pedal force meter

#### OPTIONAL ACCESSORIES

K-CAL-FG	calibration certificate
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## PCE-CT 25

### Car Paint Thickness Gauge (Fe / nFe)

- measures on steel / ferrous and non-ferrous metals
- integrated probe, easy to clean
- easy to operate (even for unexperienced persons)
- Automatic Power Off



#### TECHNICAL SPECIFICATIONS

Measurement range	0 ... 1,000 µm
Resolution	1 µm
Accuracy	±7 digits at <200 µm ±3 % ±4 digits at >200 µm
Materials	steel, iron, non-ferrous metals
Display	3 1/2-digit LC display with backlight
Functions	Automatic Power Off, calibration function
Power supply	9 V block battery
Operating conditions	0 ... +50 °C
Dimensions	148 x 105 x 42 mm
Weight	157 g (incl. battery)

#### INCLUDES

Car paint thickness gauge, calibration standard, battery, bag, instruction manual

ITEM NO.	ITEM
K-PCE-CT 25	coating thickness meter

1 mil = 1 / 1000 inch = 0.0254 mm = 25.4 µm



# Endoscope / Automotive Tester

## Findoo MicroCam

### Endoscope with Removable Monitor

- Wireless image transfer to monitor (2.4 GHz)
- waterproof (IP &67) camera head with 4.5 mm diameter / 90 cm usable cable length
- recording and playback via micro SD card
- dimmable LEDs / SD card slot (max. 16 GB)
- PC connection possible via USB 2.0 for PC connection



#### TECHNICAL SPECIFICATIONS

Camera head	Ø 4.5 mm
Angle of aperture	63 ° (horizontal)
Monitor	removable, 89 mm, TFT, colour
Image resolution	640 x 480 px. / frame rate 30 fps
Image sensor	320 x 240 pixels
Power supply	r. Li-Ion b., mains adpt. (TFT mon.) 4 x AA batteries (camera)
Operating conditions	-10 ... +50 °C / 15 ... 85 % RH
Dimensions	10 x 7 x 3 cm (TFT colour monitor) 186 x 145 x 41 mm (camera)
Weight	297 g (camera incl. support) 140 g (TFT colour monitor)

#### INCLUDES

Endosc., 90 cm probe with 4.5 mm head, colour mon., mains adpt., batt., USB cable, carrying case, manual

ITEM NO.	ITEM
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K-Findoo MicroCam	radio endoscope
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## PCE-VE 360N

### Endoscope for Industry, Workshops and R&D; Ø 3.9 mm, L = 1,000 mm

- data stored on SD card / 2 GB SD card included in delivery
- cable diameter only 3.9 mm / 1 m cable length
- type of cable: semi-rigid (gooseneck)
- 4 LEDs
- image and video recording possible
- image data can be viewed in display



#### TECHNICAL SPECIFICATIONS

Flexible cable length	1,000 mm
Image sensor	CMOS
Resolution image sensor	320 x 240 / 640 x 480 pixels (dynamic / static)
Frame rate	30/s
Exposure	automatic
White balance	fixed
Field of view	67 °
Visible distance	1.5 ... 10 cm
Illumination	4 LEDs
Cable diameter	3.9 mm
Display	3.5" TFT display
Interface	mini USB 1.1 (AVout / AVin)
Image memory	2 GB (SD memory card)
Compression format	MPEG4
Image format	JPEG (640 x 480)
Video output format	NTSC & PAL
Video format	ASF (320 x 240)
Power supply	rechargeable 3.7 V Li-on battery
Operating conditions	-10 ... +50 °C
Weight	450 g (including bag)

#### INCLUDES

Video endoscope, 1m cable, 2 GB SD card, USB cable, carrying case, battery charger, instruction manual

ITEM NO.	ITEM
K-PCE-VE 360N	endoscope

#### OPTIONAL ACCESSORIES

K-SOFT-M-VE-N	software
K-PCE-VE-N-SC1	endoscope cable 1 m
K-PCE-VE-2in1-N	endoscope cable 2 in 1
K-PCE-VE-N-SC2	endoscope cable 2 m
K-PCE-VE-N-SC10	endoscope cable 10 m
K-PCE-VE-2W1-N	2-way endoscope cable
K-HT-55-PCE-VE	endoscope cable support



## VideoScope Micro

### Waterproof Endoscope (Ø 6 mm)

- IP68 waterproof camera head
- camera lens 5 cm / 2.7" LC display
- LED illumination with 3 brightness levels
- 2 x digital zoom in 10 % increments
- flexible 1.5 m cable
- Automatic Power Off after 5 minutes



#### TECHNICAL SPECIFICATIONS

Resolution display	320 x 240 pixels
Resolution camera	640 x 480 pixels
Display	2.7" LCD
Zoom	2 x digital zoom in 10 % increments
Illumination	LED illumination, 3 levels
Camera head	Ø 6 mm, waterproof
Camera focus	5 cm
Cable	1.5 m, waterproof
Power supply	4 x 1.5 V AA batteries
Dimensions	180 x 103 x 91 mm
Weight	0.51 kg (including batteries)

#### INCLUDES

VideoScope Micro, batteries, transport bag, instruction manual

#### ITEM NO. ITEM

K-Micro VideoScope VideoScope, diameter 6 mm



## VideoFlex G2

### Endoscope (Ø 9 mm), cable L = 10 m

- waterproof camera head & 10 m cable
- multilingual on-screen display
- camera unit can be changed according to needs
- webcam function / USB interface
- compatible with SD memory cards (up to 8 GB)
- function for formatting SD card



#### TECHNICAL SPECIFICATIONS

Resolution display	320 x 240 pixels
Resolution camera	1,280 x 960 pixels (images) 320 x 240 pixels (videos)
Display	LC display 3.0"
Zoom	4 x, digital, in increments of 10 %
Illumination	LED illumination, 3 levels
Camera head	Ø 9 mm, water-resistant
Camera focus	5 cm
Cable	10 m, water-resistant
Power supply	4 x 1.5 V AA batteries
Dimensions	180 x 135 x 103 mm
Weight	1.75 kg (including batteries, cable)

#### INCLUDES

Endoscope, Snake camera cable 10 m, TopGuide G2, batteries, carrying case, instruction manual

#### ITEM NO. ITEM

K-VideoFlex G2 VideoFlex G2 endoscope



## PCE-VE 3xxN Series

### Videoscope (Ø 5.5 mm / L up to 10 m)

- cables available in lengths 1 m, 2 m and 10 m
- images / photos (stored in device) and videos
- cable to access areas which are difficult to reach
- LED light enables user to view dark cavities
- video output NTSC & PAL



#### TECHNICAL SPECIFICATIONS

Model PCE-	VE 320	VE 330	VE 340
Cable length	1 m	2 m	10 m
Diameter	5.5 mm		
Bending radius	90 mm		
Resolution	320 x 240 / 640 x 480		
Frame r./angle of vis.	30 per second / 67 °		
Viewing distance	15 ... 100 mm		
Display	TFT 3.5" (8.89 cm)		
Interface / memory	USB / SD card 512 MB		
Operating conditions	-10 ... +50 °C		
Power supply	3.7 V Li-Ion battery		
Weight	450 g		

#### INCLUDES

Video endoscope (one of the models), SD card 512 MB, software, USB cable, aluminium carrying case, manual

#### ITEM NO. ITEM

K-PCE-VE 320N video endoscope 1 m  
K-PCE-VE 330N video endoscope, 2 m  
K-PCE-VE 340N video endoscope, 10 m

#### OPTIONAL ACCESSORIES

K-ES-45-VE 300 mirror attachment 45 °