

mectron

→ MECTRON PIEZO SMART



# PIEZO SMART

small but great!

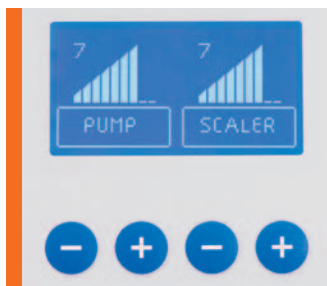
→ The piezo smart is convincing in both appearance and functions. Small dimensions combined with great ergonomics: you focus on nothing else but treatment. Whether you are dealing with supra-gingival scaling or subgingival concrement removal, with orthograde or retrograde endodontics, or even with restorative dentistry. We've made the piezo smart small to give you the maximum!



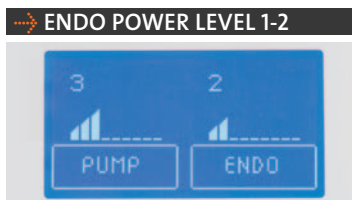


→ BOTTLE SYSTEM

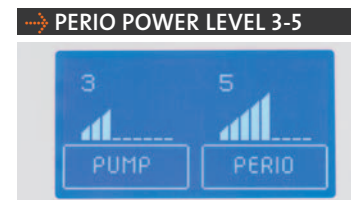
Simple, safe and reliable – that's the bottle system of the piezo smart. No dripping and no leaking. Just put the bottle in place and off you go.



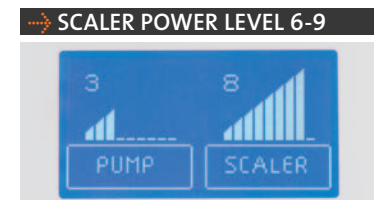
- CONTROLS
- foil-covered push-buttons
- activated by + and - buttons
- visible on the display



- increases the ultrasound power slowly
- prevents fracturing of the endo files



- medium ultrasound power for gentle removal of subgingival concretum and biofilm



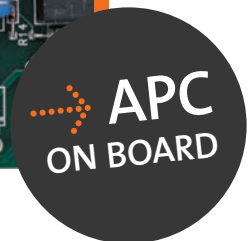
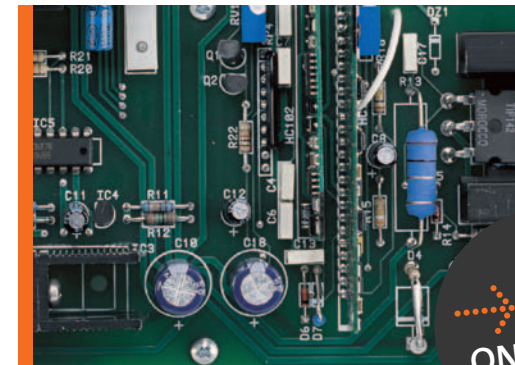
- maximum power for rapid and thorough tartar removal

# → ULTRASOUNDS

## digital control and powerful performance



→ The piezo ultrasound technology of the piezo smart makes it so simple to operate. The electronics are based on the latest digital chip technology, making the piezo smart a precision ultrasound device able to recognise external influences and offset them automatically. The settings are made with only four push-buttons. The titanium ultrasound handpiece – a mectron invention, by the way – guarantees absolute safety and fits comfortably in the hand.



### → PIEZO HANDPIECE

- made of titanium and Radel® (a high-tech plastic material)
- resistant to medicinal solutions
- sterilisable at 134°C
- universal, for use with all mectron ultrasound inserts



### → HANDPIECE COUPLING

- perfect fit
- top-quality plug-in contacts
- error-protection to prevent incorrect connection

### → AUTOMATIC PROTECTION CONTROL

The APC ensures maximum safety. It recognises deviations from the normal functioning of the piezo smart automatically and stops both the ultrasound and the flow of liquid within less than 0,1 seconds. The cause of the interruption – for example wear or improper fitting of an insert – will be shown on the display as an error code.

### → FEEDBACK-SYSTEM

The built-in Feedback-System monitors performance and adjusts it when needed within only a few hundredths of a second. This means that, whatever the field of use, you can always depend on constant optimum performance for the current indication. A definite advantage in terms of efficiency and comfort of treatment.



# THE LIQUID

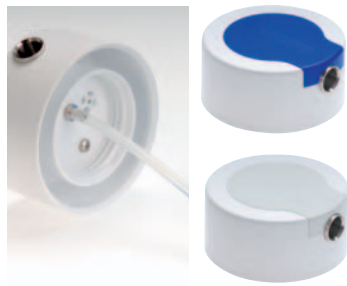
## flexible choice

→ Simple, safe and reliable – that's the bottle system of the piezo smart.  
And you have a full choice of the flushing liquid you want to use, from water to physiological saline solution right through to medicinal solutions.



### → BOTTLE

- 2 refillable, unbreakable bottles made of plastic material, complete with coloured screw-on lids (blue/grey)
- capacity of 300 ml
- scale
- resistant to medicinal solutions
- no dripping and no leaking
- 2 security screw-on lids of different colours for easy identification of the flushing liquid



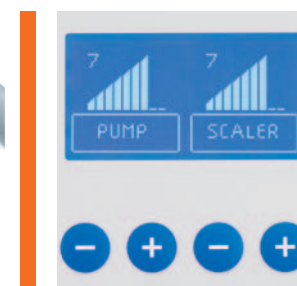
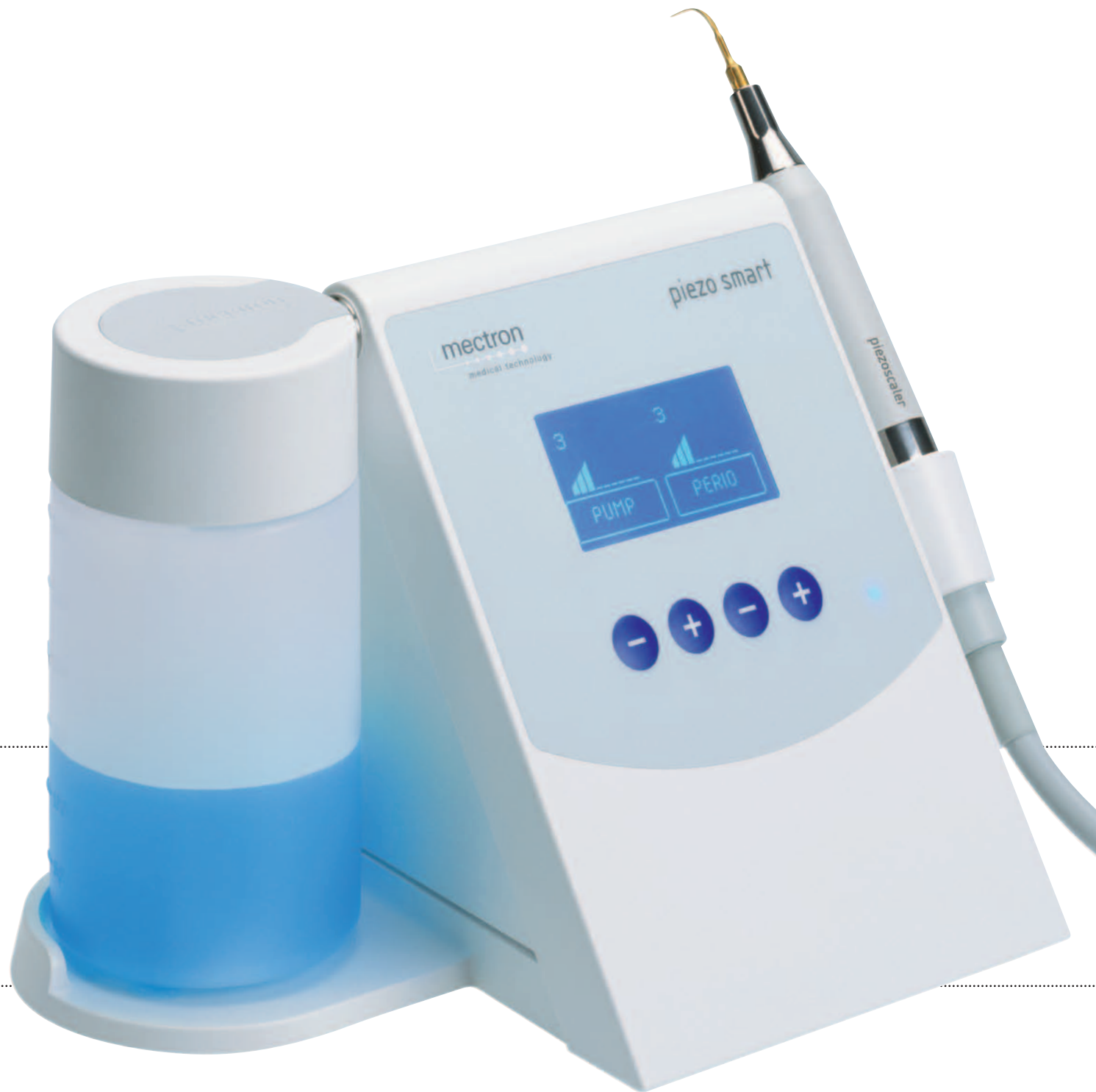
### → BOTTLE HOLDER

- simply put the bottle into place and twist it downwards
- the bottle remains in an upright position
- new non-drip connection



### → CLEAN FUNCTION

- fully automatic cleaning of the liquid circuit
- selection by pressing keys
- progress of the programme shown on the display



**LIQUID DELIVERY**

- in 9 steps adjustable by means of foil-covered + and - keys
- possible to switch it off
- the selected quantity is shown on the display

# THE INSERTS

a specific insert kit for each indication

→ Scaling, perio, endo, restorative dentistry – the piezo smart can be used for an extraordinary variety of applications. A total of 41 different inserts are available for the various different fields of use. The nitro-titanium surface finish of the inserts makes them tougher than the conventional ones.

The insert sets are supplied in separate steritrays in which they can be both stored and sterilised. The basic supply includes the S6, P10, P11 and P12, as well as the torque wrench for tightening the inserts to the handpiece with exactly the right force.

## → KIT SCALING

inserts for supragingival tartar removal



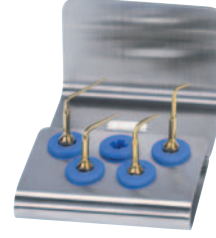
## → KIT SCALING HIGH EFFICIENCY

high-performance inserts for supragingival tartar removal



## → KIT PERIO UNIVERSAL

inserts for subgingival concretment removal



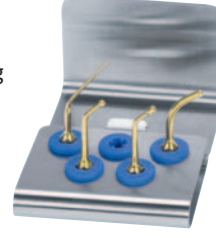
## → KIT PERIO ANATOMIC

anatomically shaped inserts for subgingival concretment removal



## → KIT RESTORATIVE

inserts for restorative dentistry and for filling root canals





→ TIPHOLDER DB1  
WITH CROWN PREP  
TIP TA14D60



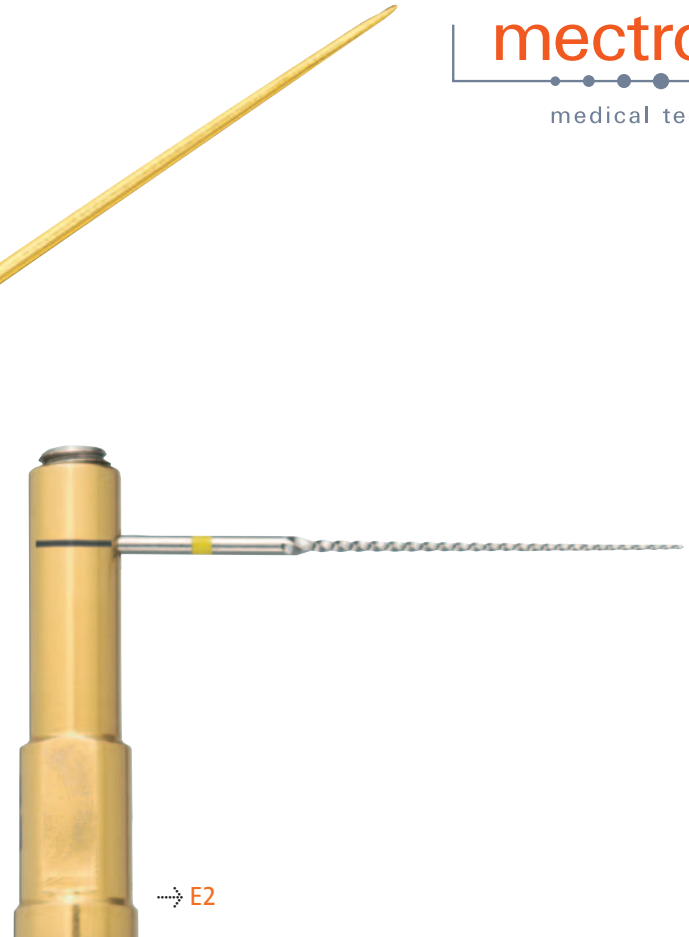
→ S6



→ P10



→ ER5



→ E2



→ KIT ENDO

extra-flexible  
nickel-titanium  
files for root-  
canal cleaning

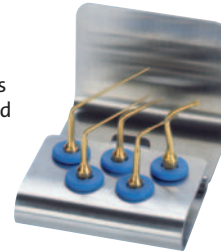
→ KIT ENDO RETRO

inserts for  
retrograde  
root-canal  
preparation



→ KIT ENDO REVISION

inserts for  
removing  
root posts,  
calcifications  
and fractured  
inserts



→ KIT CAVITY PREP\*

inserts for cavity  
preparation



\* available only in Europe



# THE TECHNOLOGY

modern and reliable

→ piezo smart – smart to handle and smart technology.  
Ergonomics is the piezo smart's trump card – it has everything you could demand of a modern treatment oriented ultrasound device yet remains extremely simple to use.

## → DISPLAY



- very easy to read
- facing the user
- keeps the user constantly informed of the current settings

## mectron piezo smart



## → FOIL-COVERED PUSH-BUTTONS

- simple to use at the press of a button
- hygienic
- easy to clean



## → LIQUID CIRCUIT

- completely separate from the electric components
- accessible from outside without opening the device

## → PERISTALTIC PUMP



- freely accessible
- easy to replace

## → CONNECTIONS



- under the housing
- protected against spray disinfectants

# → TECHNICAL SPECIFICATIONS



→ Size (LxWxH)	228x146x146 mm (without handpiece)
→ Weight	0.92 kg
→ Power consumption	40 W
→ Ultrasound frequency range	24.000–36.000 Hz
→ Ultrasound output	9 settings
→ Water supply	from bottle
→ Quantity of water flow rate per minute	scale of 10 settings da 17 a 65 ml
→ Connections	to power supply
→ Warranty	2 years, handpiece 1 year

# PIEZO SMART – THE ULTRASOUND DEVICE. SIMPLY INNOVATIVE, SIMPLY SAFE.

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medical technology

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