The current trend in surgical endodontics is using a minimally and non-invasive protocol to treat the entire root canal, using an operating microscope and high-tech micro-instruments.

Satelec presents the Endo Success Apical Surgery kit of five ultrasonic instruments, developed to perform the exclusive 3-6-9 protocol for micro-apical surgery.

The active part of the instruments has a new diamond coating that enhances their efficacy, allowing for more precise and controlled retro-endodontic treatment and conserving more bone and dental tissues. The root canal is preserved and the infection eradicated at its origin.

The first instrument to be used in following the protocol is the AS 3D universal tip with a 3 mm working length. Next is the AS 6D, which reaches 6 mm. The AS 9D is then used up to the coronal third (9 mm) in certain cases. Finally, the AS LD (left oriented) and AS RD (right oriented) tips are used to treat premolars to a working length of 3 mm.

For the precise location of the apical constriction, electronic means have been proven to be superior to using radiographs. RAYPEX devices ensure precise measurement and feature a unique zoom-in function, which significantly aids endodontic treatment. The latest model, RAYPEX 6, redefines user-friendliness and design standards.

Its design, operation and user-friendliness were developed to a high standard, resulting in a stylish and handy casing, which can be folded flat when not in use. The high-resolution touch-screen with a self-explanatory user-interface is comparable with a smartphone, and the menu guidance was designed to ensure precise and fast navigation through the functions.

For precise length determination, RAYPEX 6 uses the latest multi-frequency technology. The 3-D graphic display constantly indicates the position of the tip of the file, while the automatic zoom-in function in the region of the apical constriction enhances safety in the critical section just before reaching the working length. Acoustic signals allow for a "blind" localisation of the apex.

RAYPEX 6 is ready for use—simply plug-in and start. Any personalisation of display colour and tones, for instance, can be done quickly.

RAYPEX 6 means precise length determination and touch-screen convenience.