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# WOODPECKER

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**CATALOGUE**

**GUILIN WOODPECKER MEDICAL INSTRUMENT CO., LTD.**



National High-tech Enterprise  
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# 812 MT Worldwide Unique Endo Motor and Apex Locator with Sonic Vibration

## UPGRADED T-MODE PLUS = ROTATION + VIBRATION

### IDEAL FILLING OF SMALL ANATOMICAL SPACES

- Two-pronged approach to assist MTA compaction
- Biofilm disruption by sonic instrumentation
- Three vibration powers optional
- T-mode for safer ledge bypassing
- Can be connected to Ai-Pex, large screen for clearer and more intuitive display
- Two in one built-in apex locator
- Customizable reciprocating angle
- High performance brushless motor

### PERFECT PARTNER

- 360° rotatable  
Super mini contra-angle x2
- Larger operating field of view,  
No dead angle in the treatment process



Speed: 50-2500 r/min  
Torque: 0.4-5.0 N·cm  
Ratio of contra-angle: 6:1  
Weight with CA: 163g  
Built in apex locator: Yes  
Working mode: EAL, CW, CCW, REC, ATR, T-Mode, T-Mode+  
Battery: 2000 mAh

Vertical charging base x1  
Horizontal charging base x1  
Motor handpiece x1  
Contra-angle x2  
Wireless pedal x1  
Spray nozzle x2  
Measuring wire x1  
File clip x4  
Lip hook x2

*Yoshi Terauchi*

Prof. Dr. Yoshi Terauchi



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## IDEAL FILLING OF SMALL ANATOMICAL SPACES

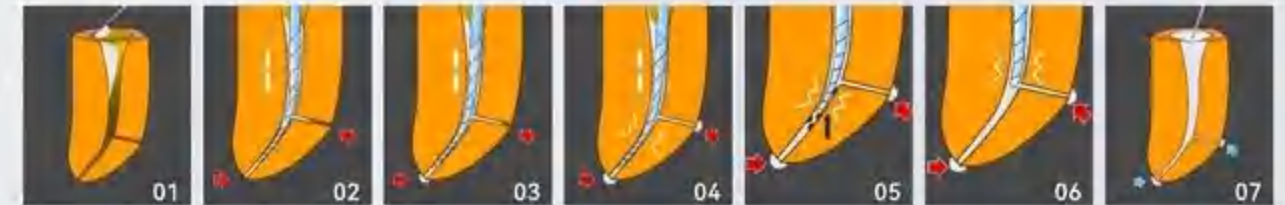
Comparison results: condensing MTA with T-Mode+ can achieve consistent filling of small anatomical spaces, no voids. Select a rotary file smaller than the apical preparation size as a condenser.

### Curvature < 30°:



01. Pre-op(Carry MTA into the canal with the MTA carrier).
02. Use 90° SGP at 100 - 150 r/min to carry MTA to the apical foramen until EAL shows "APEX".
03. Use CCW at 50-100 r/min with an up/down motion to condense MTA in the apical third upon reaching "APEX".
04. Activate sonics while using CCW with an up/down motion to both further condense MTA into lateral canals or small anatomical spaces and remove voids when EAL shows "0.5".
05. Use CW at 50-100 r/min to remove voids trapped in the apical third with sonics.
06. Keep using CCW at 50-100 r/min with sonics until EAL hits "0.5" again from "APEX" to complete MTA obturation in the apical third.
07. Complete MTA obturation with a plugger in the middle third or in the coronal third.

### Curvature ≥ 30°:



01. Pre-op(Carry MTA into the canal with the MTA carrier).
02. Use 90° SGP at 100 - 150 r/min to carry MTA to the apical foramen until EAL shows "APEX".
03. Use 50° CW / 380° CCW REC at 50-100 r/min with an up/down motion to condense MTA in the apical third upon reaching "APEX".(SGP for USA,Japan and some EU countries, the angle set based on curvature.)
04. Activate sonics while using the same REC (SGP) mode with an up/down motion to both further condense MTA into lateral canals or small anatomical spaces and remove voids when EAL shows "0.5".
05. Use CW 380° / CCW 50° REC at 50-150 r/min with sonics to remove voids trapped in the apical third.(SGP for USA,Japan and some EU countries, the angle set based on curvature.)
06. Keep using the same REC (SGP) mode at 50-100 r/min with sonics until EAL hits "0.5" again from "APEX" to complete MTA obturation in the apical third.
07. Complete MTA obturation with a plugger in the middle third or in the coronal third.

# Smart A

Equipped with Insulated  
Contra-angle  
Brushless Endo Motor



SCAN THE QR CODE TO  
DOWNLOAD WENDO

For Apple devices



Use your phone's camera  
to scan the QR code,  
and it will take you to the  
Apple Store for download

For Android devices



Use the built-in "Scan" function or  
your browser's "Scan" function to  
recognize the QR code.  
This will direct you to a webpage for  
downloading and installing the app



Smart APP control and voice control by vivi:  
Multiple devices supported like iPad,  
iPhone and Android phones

Customizable treatment plan: Files from different brands can be selected  
Could storage of treatment report delivers personal customization  
BB MODE & LB MODE

## BB MODE:

BB is the abbreviation of "block bypass".  
The file moves continuously at an angle of 90°,  
with 1s interval between each movement.

## LB MODE:

LB is the abbreviation of "ledge bypass".  
The file reciprocates with a difference of 5° between the forward angle and the reverse angle,  
such as 10°/5°, 15°/10°, 20°/15°...

Speed: 50-2500 rpm  
Torque: 0.4-5.0 N·cm  
Ratio of contra-angle: 6:1  
Weight with CA: 110.8g  
Built in apex locator: Yes  
Working mode: EAL, CW, CCW, REC(SGP), ATR, LB, BB  
Battery: 700 mAh on handpiece, 4000 mAh on base

Charging base ×1  
Handpiece ×1  
Contra-angle ×1  
Wireless foot pedal ×1  
Spray nozzle ×1  
Measuring wire ×1  
File clip ×4  
Lip hook ×2



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# Ai-Motor

Woodpecker Brushless Endo Motor

REDESIGNED FOR EXPERTS

Safe ledge bypassing T-Mode:

Perform "watch-winding" motion at a fixed 90° before the ledge is bypassed,  
and reciprocate at a fixed forward 180°  
and reverse 90° after the ledge is bypassed.

Speed: 50-2500 rpm  
Torque: 0.4-5.0 N·cm  
Ratio of contra-angle: 6:1  
Weight with CA: 157 g  
Built in apex locator: Yes  
Working mode: EAL, CW, CCW, REC(SGP), ATR, T-mode.  
Battery: 2000 mAh

Charging base ×1  
Handpiece ×1  
Contra-angle ×1  
Spray nozzle ×2  
Measuring wire ×1  
File clip ×4  
Lip hook ×2

Customizable reciprocating angle

Adjustable rotation angle in reciprocating mode

20°- 400°  
Adjustment range

10°  
Adjustment interval

360°  
Rotatable

8.0mm(Diameter)\*9.7mm(Height)  
Mini contra-angle



*Yoshi Terashi*



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# Broken File Removal Tips × Dr. Yoshi Terauchi

## Retrieval with Ease



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*Yoshi Terauchi*

Please use the minimum power level in the Endo Mode of the ultrasonic scaler



### ED87 TFRK-S

The tip is characterized by an extremely sharp cone-shaped head: 0.1 mm diameter and 0.01 taper. (can be pre-curved according to the degrees of the root canal curvature)

- Feature 1: Extend the grooved space until the broken file is seen dancing after the creation of the 90-degree semicircular space on the inner wall with either Katana-V or Katana-H
- Feature 2: Remove the broken file
- Feature 3: Create a thin space for the introduction of the hand gutta-percha removal instrument and remove gutta-percha root filling

### ED88 Katana-V ED89 Katana-H

The ultrasonic tips are designed with an extremely thin sword-shaped head. Activate ultrasonics with the flat surface directed to the broken file from the inner wall of the canal (can be pre-curved according to the degrees of the root canal curvature)



- Feature: Create a 90-degree semicircular grooved space

# Dr. Talal's Endo Kit

## Endodontic Ultrasonic Tips By Dr. Talal Al-Nahlawi

- Tip × 6
- Tip holder × 1
- Wrench × 1
- U file × 6



*Talal*



Dr. Talal's Endo Kits Demo Videos

# Ai-Motor Brushless Endo Motor

Super mini head & slim neck  
Stronger power  
Precise rotation  
Lower noise  
Balanced weight

Speed: 100-1800 rpm  
Torque: 0.4-5.0 N·cm  
Ratio of contra-angle: 6:1  
Weight with CA: 157g  
Built in apex locator: Yes  
Working mode: EAL, CW, CCW, REC(SGP), ATR  
Battery: 2000 mAh

Charging base ×1  
Handpiece ×1  
Contra-angle ×1  
Spray nozzle ×1  
Measuring wire ×1  
File clip ×4  
Lip hook ×2



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# Endo Radar Pro Brushless Endo Motor

## Two-in-one function

- 1.Auto start and stop
- 2.Auto apical reverse and auto apical stop
- 3.Auto apical slowdown

## Super-mini contra-angle:

The contra-angle is only 8mm in diameter and 9.7mm in height with 6mm in neck diameter



Head and neck of ordinary contra-angle



Head and neck of Woodpecker super-mini contra-angle

## High performance brushless motor

Adjustment range of forward and reverse reciprocating angle: 20°-400°

Adjustable reciprocating angle with 10° interval



Speed: 100-1800 rpm

Torque: 0.4-5.0 N·cm

Ratio of contra-angle: 6:1

Weight with CA: 138.2g

Built in apex locator: Yes

Working mode: EAL, CW, CCW, REC(SGP), ATR

Battery: 1200 mAh

Charging base ×1

Handpiece ×1

Contra-angle ×1

Spray nozzle ×1

Measuring wire ×1

File clip ×4

Lip hook ×2

USB wire ×1



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# Endo Smart Pro Brushless Endo Motor

Super mini head & slim neck  
Stronger power  
Precise rotation  
Lower noise  
Balanced weight

Speed: 50-1800rpm  
Torque: 0.4-5 N·cm  
Ratio of contra-angle: 6:1  
Weight with cA: 159.1g  
Built in apex locator: Yes  
Working mode: EAL, CW, CCW, REC(SGP), ATR  
Battery: 2000 mAh

Charging base ×1  
Handpiece ×1  
Contra-angle ×1  
Spray nozzle ×1  
Measuring wire ×1  
File clip ×4  
Lip hook ×2



# MotoPex Brushless Endo Motor

Super mini head & slim neck  
Stronger power  
Precise rotation  
Lower noise  
Balanced weight



Speed: 100-1800 rpm  
Torque: 0.4-5.0 N·cm  
Ratio of contra-angle: 6:1  
Weight with CA: 153.5g  
Built in apex locator: Yes  
Working mode: EAL, CW, CCW, REC(SGP), ATR  
Battery: 2000 mAh

Charging base ×1  
Handpiece ×1  
Contra-angle ×1  
Spray nozzle ×1  
Measuring wire ×1  
File clip ×4  
Lip hook ×2



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# Endo Smart+ Brushless Endo Motor

Automatic torque calibration

## Wireless charging

Customization:  
Storage of 9 user-defined modes  
allows invocation at any time.

Maximum compatibility:  
Wide torque and speed range make  
it adapt to various file systems.

Speed: 100-1800 rpm  
Torque: 0.4-5.0 N·cm  
Ratio of contra-angle: 6:1  
Weight with CA: 159.1g  
Built in apex locator: No  
Working mode: CW, CCW, REC(GP), ATR  
Battery: 2000 mAh

Charging base ×1  
Handpiece ×1  
Contra-angle ×1  
Spray nozzle ×1  
Connection cable ×1



**6:1**  
Super mini contra-angle  
Combined length determination mode



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Feather Light Only 106.8g

## Endo Pace & Endo Free Brushless Endo Motor

High performance brushless motor

6:1 mini contra-angle

Head height: 9.7mm

Head diameter: 8mm

Neck diameter: 6mm

Can be connected to Apex Locator

Speed: 100-1500 rpm

Torque: 0.4-4.2 N·cm

Ratio of contra-angle: 6:1

Weight with CA: 106.8g

Built in apex locator: No

Working mode: CW, CCW, REC(SGP), ATR

Battery: 850 mAh

Charging base ×1

Handpiece ×1

Contra-angle ×1

Spray nozzle ×1

Connection cable ×1



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# ENDOMATIC

Cordless Endo Motor combined  
with length determination

All-angle OLED screen

300° adjustable contra-angle

Speed: 100-1000 rpm

Torque: 0.4-5.0 N·cm

Ratio of contra-angle: 6:1

Weight with CA: 155g

Built in apex locator: Yes

Working mode: FWD, REV, REC(SGP)

Battery: 2000 mAh

Charging base ×1

Handpiece ×1

Contra-angle ×1

Spray nozzle ×1

Measuring wire ×1

File clip ×4

Lip hook ×2



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# TFRK

## Terauchi File Removal Kit

- Loop Device: TFRK-L x1



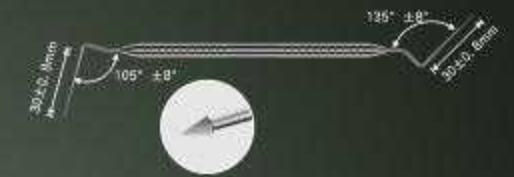
- Polishing Point x1



- Explorer x2



TFRK-ME



TFRK-GPR

- Rotary File × 1



K-ENDO (K6 N60 2%L25)

- Modified Gates Glidden Drill #3 x1



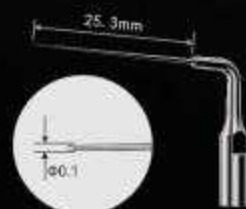
GATE DRILL #3

- Fresa Micro-Trephine × 1



TFRK-MT

- Bendable Ultrasonic Tips x3



TFRK-S (E87)



TFRK-Katana V (E88)



TFRK-Katana H (E89)



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# Woodpex X<sup>MHN</sup>

Precision Beyond Measure

## New Circuit Design, Minimized Interference

- Auto calibration after startup
- Cutting-edge digital circuit
- U.S. central processing chip with a DSP processing module
- 0.1% high-precision components
- Information processing speed increased by 2.125 times



## Sound Recognition, Capable Aid in Operation

- 2 sound levels can be adjusted as you wish.

## Support Apical Stop Reset

## 3.8-inch large LCD screen

- Clearer and visual display

Working Time: 7h  
Charging Time: 3h  
Battery: 3.7V/2000mAh

Not autoclavable:  
Measuring wire ×1

Autoclavable:  
File clip ×4  
Apex locator probe ×2  
Lip hook ×5



## Woodpex X

It shares all the features with Dpex X MHN except for its lack of Orifice Finder Mode.



# Ai - Pex

Constant current source:  
Electric pulp testing

Magnetic adsorption base:  
360° rotatable, the viewing angle of the screen can be adjusted.

Sound recognition:  
When the length indicator bar reaches a digital number below 1.5, the machine intermittently emits low-frequency beeps.

Working time: 5h20min  
Charging time: 3h  
Size: 101mm×101mm×175.5mm  
Weight: 685 g  
Battery: 3.7 V / 2000 mAh (model: 18500)  
Screen: 3.8-inch LCD

File clip ×4  
Lip hook ×5  
Apex locator probe ×2  
Pulp tester probe ×2



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## 98 APEX LOCATOR WOODPEX V

**Accurate:** Combined with clinical big data fitting, it can ensure accurate measuring even there are residual pulp and blood in the root canal.

**New digital circuit:** Information processing speed increased by 17%

**Simple:** Zoom in on the apical 1/3 narrow part and subdivision from 11-19

**Buzzer alert:** The buzzer will alert when the endo file is close to the apex

Size: 84mm×88mm×112mm

Weight: 336g

Battery: 3.6V / 750 mAh (Model: 14500)

Screen: 4.5" LCD

File clip ×4

Lip hook ×5

Probe ×2



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## Minipex

**Voice prompt:**

Alarm rings when the distance between root canal file and root canal is less than 2mm

Auto calibration after startup

Equipped with clear screen LCD

Size: 70mm×62mm×20mm

Weight: 52.1g

Screen: 2.4-inch LED

Battery: 3.7V/320mAh

File clip ×2

Lip hook ×2

Probe ×1



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## Fi-E Gutta Percha Obturation Device

**Electric:** Easier than traditional manual gutta-percha injection to relieve hand fatigue for the operator

360° rotatable reusable injection needle

Symmetrically-designed dual injection buttons

The gutta-percha bar can be replaced at any time without waiting for the internal cooling of machine

Size: 200mm×26mm×26mm

Available temperatures: 100°C, 120°C, 150°C, 180°C, 200°C

Time consumption for charging: About 2.5h (First charging needs 3h)

Battery capacity: 2000mAh

Weight: 148g (Fi-E)

179g (Charging base)

167g (Power adapter)

Main unit ×1

Charging base ×1

Power adapter ×1

Battery ×2

Injection needle ×4



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# Fi-P

Time consumption for charging: About 2.5h

Duration after full charging: If each operation lasts for 5s,  
it can work for 1500 times

Battery capacity: 2000mAh

Size: 158.3mm\*23.8mm\*23.8mm (Fi-P)

75.5mm\*149.7mm\*62.6mm (Charging base)

Weight: 80g (Fi-P)

195g (Charging base)

167g (Power adapter)

0.2 second heating time

0.35mm bendable tip

4 working temperatures: 150°C, 180°C, 200°C, 230°C

4 hours of endurance

Main unit ×1	Wp4504 tip ×1
Charging base ×1	WP5506 tip ×1
Power adapter ×1	WP5508 tip ×1
WP4004 tip ×1	

Type	Diameter	Taper
WP3504	0.35mm	0.04
WP4004	0.40mm	0.04
WP4504	0.45mm	0.04
WP5004	0.50mm	0.04
WR5506	0.55mm	0.06
WP5508	0.55mm	0.08
WP5510	0.55mm	0.10
WP6012	0.60mm	0.12
WP5508L	0.55mm	0.08



# Fi-G

Available temperatures: 150°C, 180°C, 200°C, 230°C

Time consumption for charging: About 2.5h

Power supply:

Input: AC100V-240V 50/60Hz 800mA

Output: DC15V/1.6A

Battery capacity: 2000mAh

Size: 31.9mm\*152.5mm\*114.9mm(Fi-G)

75.5mm\*149.7mm\*62.6mm (Charging base)

Weight: 170g (Fi-G)

207g (Charging base)

167g (Power adapter)

Main unit ×1	23G 24mm needle ×1
Charging base ×1	23G 28mm needle ×1
Power adapter ×1	25G 24mm needle ×2

Type	Size	Length
20G 22mm	20G	22mm
20G 24mm	20G	24mm
20G 28mm	20G	28mm
23G 24mm	23G	24mm
23G 28mm	23G	28mm
25G 24mm	25G	24mm



Scan for more details on website.

# R1 Plus

Gutta-percha point trimming, smooth and glabrous cut surface  
18 trimming and diameter measuring holes with an accuracy of 0.01mm,  
suitable for all gutta-percha points on the market  
30mm length measuring ruler  
Anti-rust and double-sided cutting blade,  
smooth cutting can be done by sliding forward or backward.



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Ultrasonic Endo Activate Device

# Endo 3

• Versatile • Smart • User-friendly

Three power levels: E1, E2, E3

Four time modes: 10(10s), 15(15s), 20(20s), --(10min)

User-friendly ring switch button

Clear LCD screen

Wireless control: magnetic suction contact charging

Smart microcomputer control: the high-frequency oscillation circuit and acts on the handpiece head, making the tip resonate by the ultrasonic vibration stimulation.

Size: 173.8mm×25.8mm×35.8mm

Weight: 78g

Battery: 3.6V / 750mAh (model:14500)

Output tip vibration frequency: 40kHz±10kHz

Main unit ×1

Power adapter ×1

Pedestal charger ×1

Tip E70 ×1

Tip E71 ×10

Tip E96 ×2

Tip E99 ×2



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# PT-B™ Five - in - One

Comfort Reigns Convenience Rules

## State-of-the-Art Perio Treatment Protocol

### Air polishing

- Realize both supra- and subgingival scaling
- 12 levels of water volume and power adjustment for precise treatment
- 4 temperature settings for added comfort

### System setting

- Central processing interface
- Multiple mode selection
- One-button switch

### Ultrasonic scaling

- Three modules: G P E
- Four functions:
  - Periodontal treatment
  - Endodontic treatment
  - Cavity preparation
  - Implant maintenance
- To offer a one-stop ultrasonic solution



- Air polishing
- Restoration preparation
- Periodontal treatment
- Endodontic treatment
- Implant maintenance



Efficient temperature control for maximum comfort



Wireless foot pedal for easy control



Ultra HD screen for clear display



Automatic identification of scaling mode

## Advanced Handpiece Design

All-metal and light handpiece  
Added durability and comfort



### Three-section detachable handpiece, easy for unclogging and cleaning



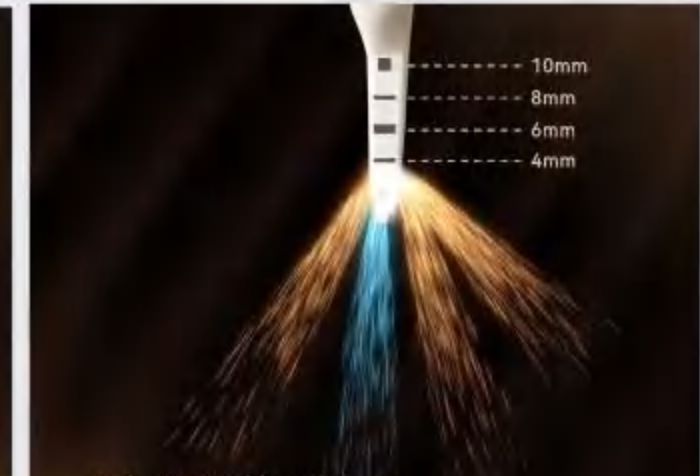
### Supragingival handpiece

0.7mm small calibre nozzle, more concentrated air polishing, more efficient scaling

High concentricity of air-water path wraps powder with water, minimizing powder scattering

Fluid dynamics simulation design enables soft energy release

No damage to soft tissue, nor scratch to the tooth surface



### Subgingival handpiece

Exclusive nozzle allows three-hole powder output and one-hole water output

Ensure the proper mixing ratio of water, air and powder, achieving thorough biofilm removal

Made of polymer material, 360° rotatable and bendable, flexible to operate

Realize all-round cleaning of periodontal pockets

# PT-A™

## Dental Scaler and Air Polisher

**35 National Patents 5 Invention Patents**  
 Air polishing+ Ultrasonic periodontal treatment +  
 Endodontic treatment + Implant maintenance  
 Efficient and comfortable plaque removal

- Main unit input: 25V~ 50Hz/60Hz 2.8A
- Output tip vibration frequency: 30±5kHz
- Output tip power: 3W~20W
- Main unit weight: 2.75kg
- Main unit dimensions L×W×H:  
330mm × 280mm × 120mm

- Main unit ×1
- Ultrasonic handpiece ×2
- Tips: P33x2, P50Lx2, P50Rx2, P56x2,  
P59x2, P94x1, P95x1, E60x2
- Air polishing handpiece (AP-1/AP-2)×2
- Powder tank ×2
- Prophylaxis powder ×2
- Water bottle ×2

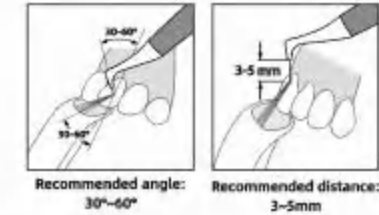


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### Plaque Control

Small-caliber nozzle, more concentrated air polishing, and more efficient plaque removal.

High concentricity of water and air path achieves a good coating of powder by water and reduces the flying of powder.



### Three-section air polishing handpiece, easier for cleaning

Lightweight handpiece  
 Longer service life



#### SUPER PRO 65µm erythritol supragingival powder

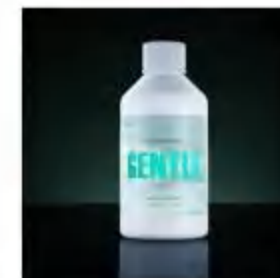
Used for the removal of supragingival biofilm, pigments and soft deposits in adults. It provides more comfortable treatment coupled with efficient scaling.

The promotion and sale of SUPER and SUPER PRO are not aimed at the following countries: France, Spain, Germany, Switzerland, Norway, Czech Republic, United Kingdom, Italy, Netherlands, Austria, Belgium, Denmark, Turkey, Sweden, Liechtenstein, Japan, and the United States.



#### FAST 65µm sodium bicarbonate supragingival powder

Used for rapid removal of supragingival stubborn pigments, soft deposits and biofilm in adults.



#### GENTLE MINI 25µm glycine subgingival powder

This product, with 25µm glycine particles, is gentle on soft tissues within periodontal pockets, gums, upper jaw, and tooth surfaces. It can be used for pediatric dental care, orthodontics, restoration maintenance, periodontal care, and implant maintenance.

## AP-B

### Dental Scaler and Air Polisher

Two-in-one: Ultrasonic scaling + Air polishing  
Supragingival & subgingival mode  
Funnel-shaped powder tank, more stable powder flow  
Auto identification of scaling mode  
Three-section air polishing handpiece  
Small caliber nozzle  
Faster and more convenient scaling due to optimized piping system and new aerodynamic design

- Main unit input: 30V 1.3A
- Output tip vibration frequency: 30±5kHz
- Output tip power: 3W ~ 20W
- Air inlet pressure: 5.5bar ~ 7.5bar (0.55MPa ~ 0.75MPa)
- Main unit weight: 2.0kg
- Main unit dimensions L×W×H: 270mm×170mm×90mm

- Main unit × 1
- Ultrasonic handpiece (HW-5L) × 1
- Tips P1×2 P3×1 P8×1 G1×1 G4×1
- Air polishing handpiece (AP-1/AP-2) × 2
- Powder tank × 2
- Prophylaxis powder × 2
- Water bottle (700ml/1500mL) × 2
- Needle × 2



Scan for more details on website



## AP-A

### Dental Air Polisher

Two in one: Supragingival & subgingival mode  
Funnel-shaped powder tank, more stable powder flow  
Three-section air polishing handpiece  
Small caliber nozzle  
Faster and more convenient scaling due to optimized piping system and new aerodynamic design

- Main unit input: 30V 1.3A
- Air inlet pressure: 5.5bar ~ 7.5bar (0.55MPa ~ 0.75MPa)
- Main unit weight: 2.0kg
- Main unit dimensions L×W×H: 270mm×170mm×90mm

- Main unit × 1
- Air polishing handpiece (AP-1/AP-2) × 2
- Powder tank × 2
- Prophylaxis powder × 2
- Water bottle (700mL/1500mL) × 2
- Needle × 2



Scan for more details on website



## AP-H (Plus)

### Dental Air Polishing Handpiece

Two-in-one: Supragingival & subgingival mode  
0.7mm small caliber nozzle  
Three-section air-polishing handpiece  
360° rotatable and bendable subgingival nozzle  
Transparent powder chamber enables easier observation of remaining powder

- Input water pressure: 0.7bar to 2.2bar (70-220kPa)
- Input air pressure: 3.5bar to 4.5bar (350-450kPa)
- Working mode: continuous operation, intermittent operation
- Weight: About 0.150kg
- Coupling: As per YY/T 0514

- Powder chamber (main unit) × 1
- Handpiece (AP-1 Plus) × 1
- Needle (long/short) × 2



Scan for more details on website

## PT5

### Piezoelectric Ceramics Painless Periodontal Treatment Device

- Smart ultrasensitive touching system with waterproof design
- Detachable LED handpiece with unique sealing technique delivers better visibility, surprising efficiency and longer durability
- Easy to change water

- Frequency: 28kHz~42kHz
- Vibration amplitude: 20~60um
- Tip hardness: 30HRC
- Treatment depth: 14mm

- High configuration: P50L × 2; P50R × 2; P54R × 2; P54L × 2; G4 × 2; P3 × 2; P95 × 2; E62 × 2; E60 × 2
- Standard configuration: P50L × 1; P50R × 1; P54R × 1; P54L × 1; G4 × 1; P3 × 1; P95 × 1; E62 × 1; E60 × 1



Scan for more details on website

## K-Po

### Cordless Prophy System

- Slim cordless handpiece: 18mm diameter of grip part, anti-slip design
- Dual control systems:
  - 1) Handpiece: Button control, 6 gears optional;
  - 2) Foot pedal: Gearless speed regulation

- High configuration:
  - Charging station × 1
  - Motor handpiece × 1
  - Outer sheath × 3
  - Disposable prophy angle × 7
  - Power adapter × 1
  - Disposable sleeve × 100



Scan for more details on website





# UDS-T LED Ultrasonic Scaler

## DESIGNED FOR DENTAL CARE

### Ultrasonic Scaling

- Three modules: G P E
- Five functions: supragingival scaling, periodontal treatment, endodontic treatment, restoration preparation, and implant maintenance
- Offer a one-stop ultrasonic solution fitting to various clinical needs

### Automatic Water Supply System

- 600mL water reservoir, plug and play
- Knob adjustment can accurately control water flow
- Clear scales for easy monitoring of water usage  
(Note: Can hold distilled water and 5% sodium hypochlorite solution; rinse the tubing after using medical solution.)

### Intelligent Degenerative Feedback

- Automatically adjusts the power output based on the hardness of dental calculus
- Achieve a consistently stable scaling

### Wide-Frequency Control Technology

- Compatible with both titanium and stainless steel tips 1-200um vibration amplitude Scientifically designed for comfort and efficiency

### Ultrasonic Scaling

- Handpiece with LED for better visibility
- No need for frequent adjustments to the dental chair light, delivering more convenient operation
- Can be autoclaved thanks to the unique sealing technique, preventing cross-infection

### Advanced US chip

- High-quality chip guarantees smooth program running
- Enable quick response and stable output
- Bring an enhanced clinical treatment experience

### Intelligent Touching System

- 12-level power adjustment for precise control
- Ultra-sensitive touch panel with waterproof design
- Seamless operation regardless of film, gloved hands, or water presence



# U600 LED Ultrasonic Scaler

Supragingival & subgingival scaling+ endodontic treatment+ implant maintenance+ cavity preparation+ endodontic irrigation.  
Sine-wave power output guarantees comfortable treatment.  
High-quality handpiece: Autoclavable aluminum shell, less prone to cracking or deformation.  
Latest sealing technique enables long durability.  
User-friendly design brings better hand feeling.  
Automatic water supply system, easy to change water.

Main unit input: 220-240V~ 50Hz/60Hz 150mA  
Water pressure: 0.01MPa - 0.5MPa  
Frequency: 28kHz±3kHz  
Output power: 3W to 20W  
Water pressure: 0.01MPa to 0.5MPa  
Main unit weight: 1.8kg

### High configuration

G4 x2 G12 x2 P1 x2 P3 x2 P8 x2 E60 x2 E62 x2

### Standard configuration

G4 x1 G12 x1 P1 x1 P3 x1 P8 x1 E60 x1 E62 x1



Scan for more details on website



# U6 LED Ultrasonic Scaler

Expert in comfortable scaling  
Integrate supragingival scaling, subgingival scaling and endodontic treatment into a whole  
Microcomputer control and automatic frequency tracking enable more stable performance  
Intelligent degenerative system enhances professional operation  
Smart touching system makes it easier to operate

Main unit input: 24V ~ 50Hz/60Hz 1.3A  
Water pressure: 0.01MPa-0.5MPa  
Frequency: 28kHz ± 3kHz  
Main unit weight: 0.628kg  
Dimensions: 175mmx144mmx 77mm

G4 x2 P1 x1 P3 x1 P8 x1 E62 x2



Scan for more details on website

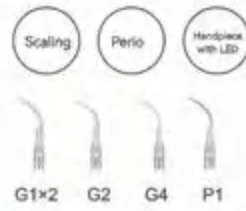




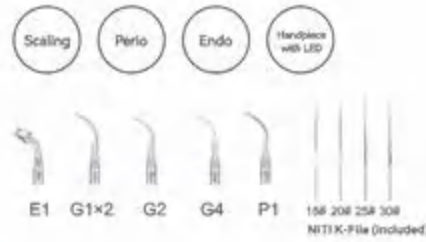
UDS-E LED



UDS-K LED



UDS-P LED



UDS-J (NO CE)



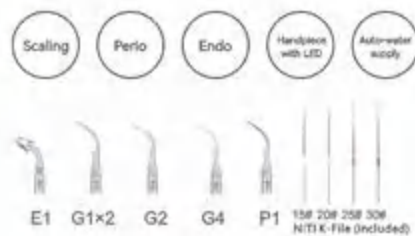
UDS-A LED



UDS-B



UDS-L LED



UDS-J2 LED



Scan for more details on website

# Ai Ray

## Dental X-Ray Device

Types of radiation: X-ray  
 Tube voltage: 70kV  
 Tube current: 3mA  
 Exposure time range: 0.02s ~2s  
 Focal spot: 0.4mm  
 Target angle: 12.5°  
 Battery capacity: 15000mAh  
 Dimension: 114mm×363.8mm×245.6mm  
 Weight: 2.4KG

Connection cable of exposure handbrake\*1  
 Exposure handbrake\*1  
 Lanyard\*1

Faster More stable Clearer

### High-frequency DC High Voltage Generator

Tube voltage	Tube current	Emission power up to
70kV	3mA	210W



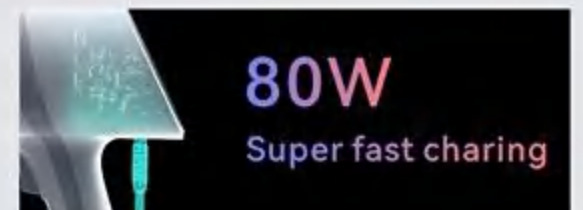
### High-capacity battery Longer endurance

More than  
**1500**  
 dental films can be taken under a full charge



### 80W Super fast charging

Over 110 dental films can be taken after 5mins of charging



# Master Ray

Compact Lightweight Powerful

## Japan Canon High-Frequency X-Ray Tube

Innovative technology safeguards x-ray output

## Maximum Performance, Effortless Shooting

140W (70kV 2mA) ultra-high emission power

Efficient shooting, less exposure time, avoiding multi-images caused by unsteady shooting

## Advanced USA chips

Advanced USA chip enables high-frequency closed-loop control for stable output

## 2500mAh×3s high-capacity lithium battery for longer endurance

500+ shots on a full charge

48W fast charging; 1h fast full charge

## Comprehensive Protection, Maximum Safety

Oil tank and beam limiter use 99.9% pure lead shielding to maximize the protection against radiation leakage

The distance from the focus to the end face of beam limiter is 20cm

The radiation leakage from the body surface is  $\leq 0.05\text{mGy/h}$

## Equipped with a 3.5-inch IPS capacitive touch screen

Types of radiation: X-ray

Tube voltage: 70kV

Tube current: 2mA

Exposure time range: 0.02-2s

Focal spot: 0.4mm

Target angle: 12.5°

Battery capacity: 2500mAh

Dimension: 240mmx 161mmx 143mm

Weight: 2.1KG



# Mini Ray

Power Meets Clarity



## Parameters:

Tube voltage: 70kV

Tube current: 2mA

DC high frequency

Battery capacity: 2500mAh\*3S

Size/length, width and height mm: 338\*112\*247

Weight: 2.2Kg

## 5+3+2, Fitting to Diverse Shooting Needs with Ease



## Upgraded Protection for Safer Use

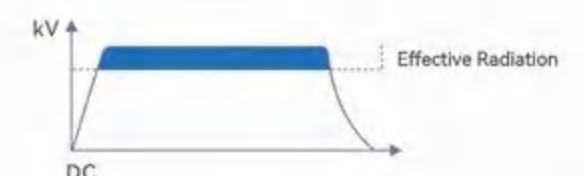
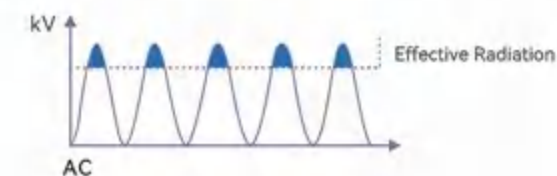
Fast screen lock to prevent false touch, effectively preventing accidental radiation exposure

High-pressure and high-temperature protection mechanisms with automatic cancellation of exposure commands when risks are detected

## Embracing a new, high-energy era

In comparison to traditional Power Frequency AC machine

the Mini Ray is a High Frequency DC machine with superior performance and produces more stable X-rays.





## i-Sensor

Clearer & More durable

Type	i-Sensor H1	i-Sensor H1.5	i-Sensor H2
<b>Mechanical Size</b>	25.03*38.53*4.5	29.2 * 43.5* 4.5	31.62*45.0*4.5
<b>Detector Technology</b>	APS CMOS	APS CMOS	APS CMOS
<b>Scintillator</b>	Csl	Csl	Csl
<b>Pixel Matrix</b>	1000*1 500	1200*1650	1300*1800
<b>Theoretical Resolution</b>	25lp/mm	25lp/mm	25lp/ mm
<b>Active Area</b>	20*30	24*33	26*36
<b>AD Conversion(bit)</b>	16	16	16
<b>Data Interface</b>	USB 2.0	USB2.0	USB 2.0
<b>Protection</b>	IP68	IP68	IP68



Scan for more details on website

## High resolution imaging

### 25 lp/mm theoretical resolution

With the leading 16-bit ADC chip, bringing you up to 60000+ gray scale.

High-definition sensor up to 2.2 million pixels, more details, better picture quality with a theoretical resolution of 25 lp/mm, bringing a high level of clarity and detail to your digital radiography.

Clearer image effect, so that subtle root apex bifurcation can be easily found.



## Durable and Reliable

### 80000+ bending test

i-Sensor is designed to prevent any kind of damages in its everyday use.

Based on actual usage and tens of thousands of bending experiments, the product is durable.



Robust CNC shell fusion ultrasonic welding technology brings ultra-light weight experience and IP68 protection. The sensor can be immersed in disinfectant liquid to avoid cross infection.



## 4.5mm thinnest sensor

With ergonomically optimized Cut-Corners and 4.5mm thickness, the i-Sensor makes sensor placement easier than ever (plus, the thinner sensor specifically allows for better bitewing radiographs and simplified vertical bitewing acquisition.)



# i-Scan

Wireless Imaging Plate Scanner

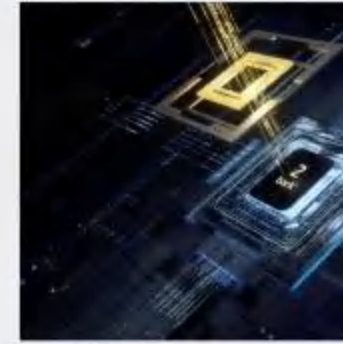


## Powerful processing capability

8-core CPU (containing 4 Arm Cortex-A53s, 1 Arm Cortex-M4F, 1 GPU, 1 VPU, and 1 FPU) developed with 14nm LPC FinFET advanced process technology, and FPGA used as a coprocessor, bring a smoother image processing experience thanks to more powerful processing capability.

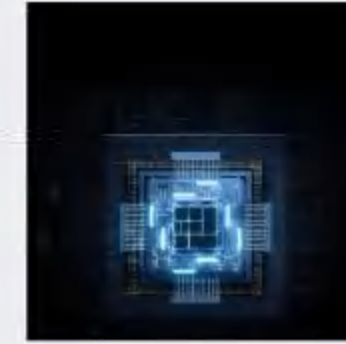
- Power adapter output: DC 30V 3A
- Threshold contrast: 4 holes of 1.0 mm, 1.5 mm, 2.0 mm and 2.5 mm can all be distinguished.
- Image uniformity: <2%
- Specifications and dimensions: 138\*245.5\*290.2mm
- Weight: 4.5KG

- Main unit\*1
- Power adapter\*1
- Storage box of IP imaging plate\*1
- U disk\*1



## Powerful algorithm

- One-click ultra-clear algorithm
- Multi-level structure image algorithm framework enhances the details of super-resolution images.



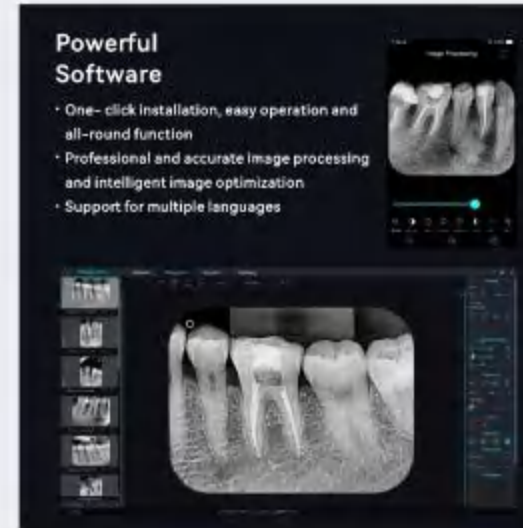
## Ultra-high performance

- 8-core CPU developed with 14nm advanced LPC FinFET process technology
- FPGA used as a coprocessor
- Over 100 million data acquired per dental film
- Bring a smoother image processing experience



## Scan and see

- 7-inch 800\*1280 ultra-high resolution capacitive touch screen
- Realize the analysis of images with clear details on the i-Scan and computer, ensuring the reliable diagnosis basis for dentists.



## Powerful Software

- One-click installation, easy operation and all-round function
- Professional and accurate image processing and intelligent image optimization
- Support for multiple languages



## Flexible and compact

Covering only 0.13 m<sup>2</sup>, the powerful, full-featured and compactly-designed i-Scan can be set up in dental clinics efficiently, easy for direct use beside the chair.



## Scan and see

- One-click starting, scanning and imaging viewing
- Chairside mode eliminates the restraint of computer or Internet
- Capacitive touch screen enables accurate and sensitive image processing and data management.



Scan for more details on website

# Free Scan Imaging Plate Scanner

Bringing you a fully-controlled and intelligent image viewing experience

## Specifications

Imaging plate sizes: 0;1;2;3	Theoretical resolution: 17lp/mm
Grayscale: 65536 levels (16Bit)	Connection mode: USB
	Working mode: Online mode

## Remarkable imaging sharpens each detail

25um scanning accuracy  
17LP/mm+ 65535 grayscale detail recognition ability  
Clear details and image processing make diagnosis and treatment more effective

## Easy to operate

One-button start for scanning  
120-second autolock to keep data safe

## Advanced algorithm leads to intelligence

Multi-layered structural image algorithm framework enhances the details of super-resolution images  
Multi-mode processing algorithm to meet the image viewing habits of different doctors

## Powerful chip intelligent scanning

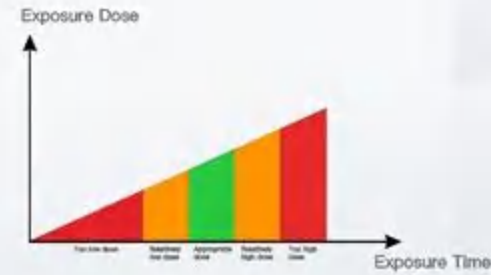
FPGA chip accelerates data acquisition  
Support image viewing on mobile phones, tablets, and computers  
Exclusive image viewing software  
Greatly facilitate image viewing and processing

## Good-looking and handy Compacted size of 0.046m<sup>2</sup> and space-saving position

The silver-black scheme is suitable for upscale and official occasions.  
The compacted size of 0.046 m<sup>2</sup> remains full-fledged  
Standing nearby armchair to safeguard your teeth

## Real-time intelligent dose analysis Safe dental film photographing

- Appropriate dose
- Accurately record the dose value for each photographing
- Timely reminder of exposure dose for clear images
- Ensure secure photographing



- Main unit power input: DC 15V 3.2A
- Threshold contrast: It can distinguish all four holes of 1.0mm, 1.5mm, 2.0mm and 2.5mm
- Image uniformity < 2%
- Specification: 280\*165\*210mm
- Weight : 5.2KG

- Main unit × 1
- Power adapter × 1
- Storage box of IP Imaging plate × 1
- U disk × 1



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# LX16 Plus

## Innovative Three Wavelengths Blue Semiconductor Laser Therapy Device

- Wavelengths & optical power:
  - 450±20 nm : Pmax=4W
  - 650±20 nm: Pmax=200mW
  - 976±20 nm: Pmax=7W
- Laser system:
  - 450 nm: Class IV;
  - 976 nm: Class IV;
  - 650 nm:Class II
  - (according to IEC 60825-1)
- Emission modes:
  - CW (continuous wave), chopped 1 Hz to 20 kHz
- Aiming beam:
  - 650±20 nm/ Pmax<5mW
- Battery:
  - 11.1V 2600mAhx2 (57.7Wh)

## Wide scope of application

Can be used for the fields of dental soft tissue surgery, endodontic sterilization, periodontal sterilization, peri- implantitis, low intensity laser therapy, oral ulcer, and teeth whitening.

Remarkable treatment effect: There is basically no bleeding during operation, minimizing the postoperative swelling, reducing pain of patients, and accelerating the recovery.

## All accessories available



# LX16

## A New Generation of High Power Dental Diode Laser

- Wavelengths & optical power:
  - 976±20 nm: Pmax=16W
  - 650±20 nm : Pmax=200mW
- Laser system:
  - 976 nm: Class IV;
  - 650 nm:Class II
  - ( according to IEC 60825-1)
- Emission modes:
  - CW (continuous wave), chopped1 Hz to 20 kHz
- Aiming beam:650±20 nm/ Pmax<5mW
- Battery:
  - 11.1V 2600mAhx2 (57.7Wh)



LX16 Plus LX16  
Scan for more details on website

# Dental Surgical Motor

## ES5

Sterile Efficient Convenient



### Configuration

Motor with LED × 1  
1:3, 1:5 contra-angle with LED × 1 (Optional)

### Specifications

Main Unit Dim. L x W x H (Excluding water tank)	155mm x 167mm x 227mm	
Max. Torque	3.5N·cm	
Motor No-Load Speed Range	1000-41000r/min	
Motor Weight	68g	
Motor Dim. ø x L	22mm * 76.7mm	
Motor Luminous Intensity	>40000lx	
Contra-angle model	WJ-45TL	WJ-SG45CL
Speed Ratio	1:5	1:3
Weight	71.3g	77.2g
Head Dim. H x ø	13.7mm x 8.7mm	
Noise	< 65dB	≤ 60dB

## STERILE

External single-use irrigation line enables the access to sterile cooling saline, bringing less postoperative pain and wound infection

## EFFICIENT

Constant speed, allowing consistent and reliable cutting experience  
Simpler and more efficient operation

# 97.4%

Higher cutting efficiency than the turbine on the same bovine tooth

ES5



Air turbine

18.52s

## MORE POWERFUL

3.5N·cm brushless motor, less vibration with significantly reduced noise benefiting from constant high torque output, accurate transmission of tactile feedback, more powerful cutting

## GERMAN BEARING

Longer service life, lower vibration  
Stable cutting, precise preparation  
Guarantee stable speed and torque output



## VERSATILE SURGICAL MOTOR ALL TURBINE FUNCTIONS COVERED

Electrically-driven, portable, plug-and-play  
Adapted to multiple electric contra-angles (e.g. 16:1, 1:1, 1:3, 1:4:2, 1:5), delivering outstanding performance results in both high- and low-speed procedures  
Can be used for Crown, Separation, Surgery, Rinse, etc., in oral surgery



Scan for more details on website



# MT2

Woodpecker  
Dental Electric Motor

Brushless Dental Electric Motor  
Powerful Versatile Small  
An affordable and smart way to switch from turbine to an electric handpiece



### Configuration

Motor with LED × 1  
1:5 contra-angle with LED × 1

### Specifications

Motor speed range 2000~40000 rpm  
(With 1:5 speed-increasing contra-angle,  
the maximum speed can reach 200000 RPM.)  
Max torque 5N·cm  
Bur offset < 1.3μm  
Compatible contra-angle 16:1; 1:1; 1:5 (standard)  
Motor size Φ22×76.7mm  
Motor weight 68g

Constant speed & torque with low vibration  
Long service life and quiet operation  
16:1, 1:1, and 1:5 speed ratios are available

Four-hole water spray  
Improved trimming and preparation  
Easy to understand LCD screen  
Flexible installation and customized positioning



Preparation with turbine handpiece

Preparation with electric handpiece



Scan for more details on website

# M2 Pro

Brushless Dental Electric Motor (Built-in)

### Specifications

Motor speed range 2000~40000 rpm  
(With 1:5 speed-increasing contra-angle,  
the maximum speed can reach 200000 RPM.)  
Max torque 5N·cm  
Compatible contra-angle 16:1; 1:1; 1:5 (standard)  
Motor size Φ22×76.7mm  
Motor weight 68g

### Configuration

Motor with LED × 1  
1:5 contra-angle with LED × 1



Scan for more details on website

# Surgic Smart

4th Piezo Bone Surgery  
Efficient User-friendly Intelligent

Improved cutting efficiency than the 3rd generation  
Automatic identification of bone quality  
Power varies as per different bone quality  
Can rinse pipeline through foot pedal after each use  
More convenient new user interface  
New enhanced handpiece  
Sterilizable water pipe  
Multifunction foot pedal  
Tips series for wide range of applications

### Specifications

Device for intermittent operation: 60s ON, 10s OFF  
Power-supply voltage: ~100V-240V 50Hz/60Hz 170A  
Working frequency: 24kHz~36kHz  
Flow: 25~110ml/m

### Configuration

HANDPIECE × 2  
TIPS  
SS1 × 1 SS2 × 1 SS3 × 1 SS4 × 1 SS5 × 1 SS1L × 1 SS1R × 1  
SL1 × 1 SL2 × 1 SL3 × 1 SL4 × 1 SL15 × 1 SI1 × 1 SC1 × 1



# SURGIC TOUCH

## 3rd Generation of Ultrasurgery

Micron cutting, selective cutting, cold cutting mode  
Autoclavable handpiece cord and pump tube to avoid cross infection  
High power LED driving technology brings clear operation vision

Multifunctional foot pedal enables easy function control  
7-inch touching screen presents clear information

Device for intermittent operation: 60s ON, 10s OFF  
Power-supply voltage: ~100V-240V 50Hz/60Hz 150A  
Main unit size: 276 mmx267 mmx110mm  
Main unit weight: 2.8kg

Handpiece x2

US1 x 1, US2 x 1, US3 x 1, US4 x 1, US5 x 1, US1L x 1, US1R x 1,  
UL1 x 1, UL2 x 1, UL3 x 1, UL4 x 1, UL5 x 1, U11 x 1, UC1 x 1



# US-II LED

Woodpecker core technology, reliable cutting efficiency

## NEWLY DEVELOPED HANDPIECE

Developed internal structure: handpiece and tip are more compatible, with steady output

Developed packaging technology: more stable after UHT sterilization, with constant quality

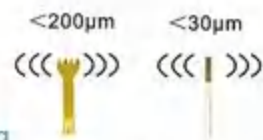


### Technical parameters

Power input	100 - 240V~ 50Hz/60Hz 600mA (max)
Frequency	24kHz~ 36kHz
Power output	5W - 35W
Main unit weight	3.1kg
Dimensions	330mmx 254mmx 167mm
Handpiece x1	
US1 x1, US2 x1, US4 x1, US5 x1, UL3 x1, UC1 x1	

# UltraSurgery

Excellent Performance



### Minimally invasive cutting

Ultrasurgery tip vibration accuracy is of micrometer level. During operation, gripping requires only a small force, and there is no cutting trajectory limit.

Radial amplitude : 20-200µm Transverse amplitude : < 30µm

Handpiece x1

US1 x1, US2 x1, US4 x1, UC1 x1, UL1 x1, UL4 x1



# Implanter LED Plus

- 8 customizable programs: speed, torque, coolant flow and direction of rotation
- Large, easy-to-read LCD display
- High-performance and durable motor
- Peristaltic pump integrated
- Multifunction foot pedal
- Coolant flow adjustment
- Program change
- Rotation direction
- Speed control

### Specifications

Rotation Speed Range: 300-40,000rpm  
Torque Range: 5N·cm - 80N·cm  
Gear Ratio: 20:1  
Max Pump Output: 135ml/min  
Main Unit Dimensions: 276mm\*267mm\*110mm  
Motor Dimensions: Φ23.4mm\*L91mm  
Motor Weight: 140g

### Configuration

20:1 Contra-angle handpiece x 1



Scan for more details on website

# Dental Implant Unit

# Implant Air

Precise Reliable Simple



### Specifications

Dimensions: 155mm×167mm×227mm  
 Speed range: 300–42000rpm  
 Motor size: Φ23.4mm×L91mm  
 Torque range: (20:1) 5N·cm–80N·cm  
 Max water volume: 135mL/min  
 Motor weight: 140g

### Configuration

20:1 Contra-angle handpiece×1

### AUTOMATIC CALIBRATION

Torque startup automatic calibration (TSAC), which ensures that the device calibrates itself for accuracy every time it is turned on.



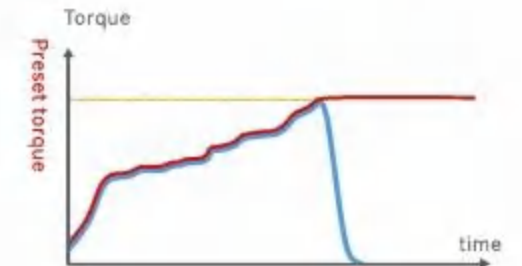
### CONTINUOUS TORQUE OUTPUT

The torque output will continue with a preset value, ensuring that the implant placement torque reaches the preset target with higher accuracy.

When the torque reaches the preset value, it will continue to output without automatic stop, avoiding insufficient torque output.

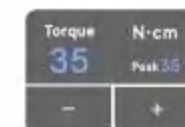
**Torque output maintained**

Torque output unmaintained



### PEAK VALUE DISPLAY

In the implantation procedure, the user interface enables real-time display of peak output torque of each operation, which is convenient for doctors to judge the highest torque of the current operation, confirm the implant initial stability.



Compatible with all E-type interface handpieces and multiple speed ratios

16:1 20:1 27:1 1:1 1:2 1:2.7 1:3 1:4.2 1:5

Vertical body, more space-saving

5-inch LCD color touch screen

5 preset programs

Automatic saving of parameters after each operation

ULTRA-QUIET PERISTALTIC PUMP

MULTI-FUNCTION FOOT PEDAL



# Super Pen

## Dental Anesthesia Device

**Brushless motor – Longer life**  
**Periodontal ligament injection mode (PDL)**  
**- More intelligent**

Dual-pressure detection technology + AI algorithm  
 Auto switch to PDL mode when encountering periodontal ligament  
 Dynamic display of pressure and the percentage of anesthetic injected

**Three adjustable injection speeds**  
**- PDL/Low/High – More efficient**

**Intelligent prompts - Soothing music - More humane**

**Wireless charging, long battery life – More convenient**  
 Built-in 2000mAh battery in the base

Injection speed: H(35~110s), L(120~170s), PDL(180~320s)  
 Lithium battery in charging base: 2000mAh  
 Lithium battery in handpiece: 200mAh  
 Handpiece weight: 86g  
 Size: 22mm×22mm×146mm  
 Cartridge holder\*8



Last Longer

# HP33

## Dental Turbine Handpiece

### Service Life

**142.8%↑**



### Clean Head System

Prevent blood and foreign matter from entering the head, enabling 100% zero suck-back  
 Avoid cross infection, extend service life



### Specifications

Model	HP33
Chuck	Push-button
Power	20W
Air pressure	2.5-2.7kgf/cm <sup>2</sup>
Water pressure	0.5-2.0kgf/cm <sup>2</sup>
Speed	≥280000r/min
Head size	∅ 12mm x H 13.1 mm

### Triple spray

Water-air separation  
 Effective cooling, reduced risk of burning tissues



### German bearing

more stable



### Titanium coating

less wear



Scan for more details on website



Scan for more details on website

# O-Star Pro

## Master of Uniform Cure

### UNIFORM BEAM BRINGS BETTER CURING EFFECT

- O-Star Pro employs 29 blue and purple LED chips arranged in a mixed and interleaved pattern.
- Uniform beam promotes complete photoinitiator reaction within the resin, enhancing resin curing effectiveness and preventing uneven spots and dark areas.

### EXCEPTIONALLY FOCUSED LIGHT OUTPUT

- Light angle of only 15.8° delivers improved penetration.
- Perfect for indirect restorations, such as orthodontic brackets and bonding.

### 7 WORKING MODES FOR CLINICAL VERSATILITY

- Like an all star, O-Star Pro offers robust performance, which is well-controlled and can fully meet various clinical needs.

### Normal High Turbo Ortho Soft Pulse Check

### Wireless Charging Base With Built-in Light Meter Dual Buttons OLED Screen

#### SPECIFICATIONS

Wavelength	385nm-515nm
Maximum Light Intensity	3000mW/cm <sup>2</sup>
Light Head	360° rotatable metal light head
Power	10W
Chip	24 blue and 5 purple LED chips
Lens Diameter	10mm
Irradiation Area	78mm <sup>2</sup>
Handpiece Weight	108g
Handpiece Material	Aluminum Alloy (all-metal body)
Battery Capacity	2000mAh
Charging Base	Wireless charging base with built-in light meter, LCD screen displays light intensity value
Battery Life	10 seconds/cure, can be used 1000 times



# O-Star

## Satisfy your multiple needs

### 1 sec for curing

Ultrahigh light intensity, in maximum 3000mW/cm<sup>2</sup>

Applicable for all polymerizing resins

Integrated light meter, easy to monitor

### Multiple 7 work modes:

**Turbo:** 1 or 3 sec. (2,700-3,000 mW/cm<sup>2</sup>)

**High:** 3 or 5 sec. (1,800-2,000 mW/cm<sup>2</sup>)

**Ortho:** 3 sec. (2,700-3,000 mW/cm<sup>2</sup>) x 5 or 10 one-touch cycles

**Normal:** 5, 10, 15 or 20 sec. (1,000-1,200 mW/cm<sup>2</sup>)

**Soft:** 5, 10, 15 or 20 sec. (1,000-1,200 mW/cm<sup>2</sup>)

**Pulse:** 5, 10, 15 or 20 sec. (1,000-1,200 mW/cm<sup>2</sup>)

**Check:** 30 or 60 sec. (300 - 500 mW/cm<sup>2</sup>)

Maximum light intensity: 3000mW/cm<sup>2</sup>

Wavelength range: 385 - 515 nm

OLED Display

Weight: 108g

High-capacity battery: 2,000 mAh

Dimensions: 23x23x204mm



Scan for more details on website



## i Led II

- More-focused light output
- 1 sec for curing
- Wide spectrum
- High light intensity

Light intensity: 1000mW/cm<sup>2</sup>~ 3000mW/cm<sup>2</sup>  
 Wavelength range: 385nm-515nm  
 Weight: 278g  
 High-capacity battery: 2000mAh  
 Dimensions: 25×25×240mm  
 10mm-diameter lens

### 3 Modes:

- Turbo: P0, 1/3s, 2700-3000 mW/cm<sup>2</sup>.
- High: P1, 3/5s, 1800-2000 mW/cm<sup>2</sup>.
- Standard: P2, 5/10/15/20s, 1000-1200 mW/cm<sup>2</sup>.



## i Led Max

- More-focused light output
- 1 sec for curing
- Wide spectrum
- High light intensity

Light intensity: 1000mW/cm<sup>2</sup>~ 2500mW/cm<sup>2</sup>  
 Wavelength range: 385nm-515nm  
 Weight: 278g  
 High-capacity battery: 1400mAh  
 Dimensions: 25×25×240mm  
 10mm-diameter lens

### 2 Modes:

- Turbo: P1, 1/3s, 2300-2500 mW/cm<sup>2</sup>
- Normal: P2, 5/10/15/20s, 1000-1200 mW/cm<sup>2</sup>



## X-Cure

- Curing Expert
- High light intensity
- Premium design

Light intensity: 300mW/cm<sup>2</sup>~ 3000mW/cm<sup>2</sup>  
 Wavelength range: 385nm-515nm  
 Weight: 750g  
 High-capacity battery: 1400mAh  
 Dimensions: 276mm x 28mm x 30mm

### 3 Modes:

- High: 1/2/3s, 2700 - 3000mW/cm<sup>2</sup>
- Soft: 5/10/15/20s, 1000-1200mW/cm<sup>2</sup>
- Check: 30s, 60s, 300-500 mW/cm<sup>2</sup>



## B-Cure Plus

- Best assistant for orthodontics
- Two-battery design for longer durability
- 1 sec for curing

Maximum light intensity: 3000 mW/cm<sup>2</sup>  
 Wavelength range: 385nm-515nm  
 Weight: 128g  
 High-capacity battery: 750mAh (2 batteries)  
 Dimensions: 262.5mm×45mm×28.5mm

### 5 Modes:

- Turbo: 1/3s, 2800-3000 mW/cm<sup>2</sup>
- Ortho: 3s x10, 5s x10, 1800-2000 mW/cm<sup>2</sup>
- Normal, Soft, Pulse: 5/10/15/20s, 1000-1200 mW/cm<sup>2</sup>



## i Led Plus

- Wide spectrum
- 1 sec for curing
- Constant power output
- 360° curing
- High light intensity

Light intensity: 1000mW/cm<sup>2</sup>~ 2500mW/cm<sup>2</sup>  
 Wavelength range: 385nm-515nm  
 Weight: 278g  
 High-capacity battery: 1400mAh  
 Dimensions: 25×25×240mm  
 8mm-diameter lens

### 2 Modes:

- Turbo: P1, 1/3s, 2300-2500 mW/cm<sup>2</sup>
- Normal: P2, 5/10/15/20s, 1000-1200 mW/cm<sup>2</sup>



## i Led plastic head

- 1 sec for curing
- Constant power output
- 360° curing
- High light intensity

Light intensity: 1000mW/cm<sup>2</sup>~ 2500mW/cm<sup>2</sup>  
 Wavelength range: 420nm-480nm  
 Weight: 278g  
 High-capacity battery: 1400mAh  
 Dimensions: 25×25×240mm  
 8mm-diameter lens

### 2 Modes:

- Turbo: P1, 1/3s, 2300-2500 mW/cm<sup>2</sup>
- Normal: P2, 5/10/15/20s, 1000-1200 mW/cm<sup>2</sup>



## V V Light

- 1 Sec Curing
- Light intensity up to 2500mW/cm<sup>2</sup>
- 360° rotatable metal head
- Focused light outout
- Lightweight and easy holding



### FOCUSED LIGHT SOURCE FOR DEEP CURING

15.8° beam angle for more-focused light output and stronger penetrability, delivering high efficiency curing

### INTELLIGENT CONTROL OF 4 WORKING MODES

- Normal Mode: 1000-1200mW/cm<sup>2</sup>
- High Mode: 2300-2500mW/cm<sup>2</sup>
- Soft Mode: 1000-1200mW/cm<sup>2</sup>
- Pulse Mode: 1000-1200mW/cm<sup>2</sup>

### SPECIFICATIONS

Wavelength	385nm-515nm
Light Head	360° rotatable metal light head
Power	10W
Power Supply	24V-50Hz/60Hz
Handpiece Weight	61g
Dimensions(LxWxH)	22mmx22.8mm×244mm
Warranty	2 years

## LED. F Plus

Constant light intensity  
3 sec for curing  
Ergonomic design

**3 Modes:**  
Turbo: 3/5/10s, 1600~1800 mW/cm<sup>2</sup>  
Normal: 5/10/20s, 1000~1200 mW/cm<sup>2</sup>  
Low: 10s/20s/1min/3min/5min, 400~500 mW/cm<sup>2</sup>

Light intensity: 400mW/cm<sup>2</sup> ~1800mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 210g  
High-capacity battery: 2000mAh  
Dimensions: 195mm×40mm×150mm



## LED.D

**3 Modes:**  
Full, Ramping, Pulse  
Time setting:  
5s: 1500 mW/cm<sup>2</sup>~1700mW/cm<sup>2</sup>  
10/15/20/25/30/35/40s: 1000mW/cm<sup>2</sup>~1200mW/cm<sup>2</sup>

Light intensity: 1000mW/cm<sup>2</sup> ~1700mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 143g  
High-capacity battery: 1400mAh  
Dimensions: 202mm×32mm×38mm



## LED.C

**3 Modes:**  
Full, Ramping, Pulse  
Time setting:  
5/10/15/20s

Light intensity: 1000mW/cm<sup>2</sup> ~1200mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 124g  
High-capacity battery: 1400mAh  
Dimensions: Φ23mm×263mm



## LED.H ORTHO

Rapid orthodontics  
Beveled light guide  
Continuous work time

**2 Modes:**  
Standard: 5/10/15/20s, 1000-1200mW/cm<sup>2</sup>  
Ortho: 3/5/10s, 1600-1800mW/cm<sup>2</sup>

Light intensity: 1000mW/cm<sup>2</sup> ~1800mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 178g  
High-capacity battery: 2200mAh  
Dimensions: Φ25mm×252mm



## LED.H

**3 Modes:**  
Full, Ramping, Pulse  
Time setting: 3/5/10/15/20/25/30/35/40s

Light intensity: 1000mW/cm<sup>2</sup> ~1200mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 178g  
High-capacity battery: 2200mAh  
Dimensions: Φ25mm×252mm



## LED. G (Built -in sealed)

**3 Modes:**  
Normal: 10s, 1000-1200mW/cm<sup>2</sup>  
Ramping: 10s, 1000-1200mW/cm<sup>2</sup>  
High: 3s, 2300-2500mW/cm<sup>2</sup>

Light intensity: 1000mW/cm<sup>2</sup> ~2500mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 135g  
Dimensions: 26mm×25mm×260mm



## LED.B

Time setting:  
5s: 1500 mW/cm<sup>2</sup>~1700mW/cm<sup>2</sup>  
10/15/20s: 1000mW/cm<sup>2</sup>~1200mW/cm<sup>2</sup>

Light intensity: 1000mW/cm<sup>2</sup> ~1700mW/cm<sup>2</sup>  
Wavelength range: 385nm-515nm  
Weight: 145g  
High-capacity battery: 2000mAh  
Dimensions: 31mm×34mm×260mm



## LED.Q (Built-in sealed)

Mode: Full  
Time setting: 10/20/30s: 1000-1200mW/cm<sup>2</sup>  
Light intensity: 1000mW/cm<sup>2</sup> ~1200mW/cm<sup>2</sup>  
Wavelength range: 420nm-480nm  
Weight: 127g  
Dimensions: 248mm×26mm×26.5mm



## MiniS

Time setting: 5/10/20s: 1000-1200mW/cm<sup>2</sup>  
Light intensity: 1000mW/cm<sup>2</sup> ~2000mW/cm<sup>2</sup>  
Wavelength range: 420nm-480nm  
Weight: 105g  
High-capacity battery: 1400mAh  
Dimensions: 230mm×26mm×30mm



## Contra-angles for Implant Motors & Electric Motors



**WP-1**

- Speed ratio 20:1
- Max Speed 2000r/min
- German bearing
- 1 year warranty



**WP-1L**

- Speed ratio 20:1
- Max Speed 2000r/min
- German bearing + LED Light
- 1 year warranty



**WJ-11L**

- 1:1 direct drive
- Max Speed 41000r/min
- German bearing
- Mini head (13.6x8.2)
- Two-hole water spray cooling
- 1 year warranty



**WJ-45L**

- 1:4.2 increasing
- Max Speed 178500r/min
- German ceramic bearing
- Mini head (14.2x8.7mm)
- Three-hole spray, subsection cooling of bur
- 1 year warranty



**WJ-45TL**

- 1:5 increasing
- Max Speed 212500r/min
- German ceramic bearing
- Mini head (13.7x8.7mm)
- Four-hole water spray cooling
- 1 year warranty



**WJ-SG45CL**

- 1:3 increasing
- Max Speed 127500r/min
- German ceramic bearing
- Mini head (14.1x8.7mm)
- Three-hole spray, subsection cooling of bur
- 1 year warranty

## Handpiece for Ultrasonic scaler

### HW-6L

• USED FOR: WOODPECKER scalers with detachable handpiece, with light.



Weight	44g
Dimensions	101mm×Φ18mm

### HW-6

• USED FOR: WOODPECKER scalers with detachable handpiece, without light.



Weight	52g
Dimensions	111mm×Φ17.5mm

### HW-5L

• USED FOR: WOODPECKER scalers with detachable handpiece, with light, broader view, autoclavable.  
Plastic head and metal head are optional.



Weight	51.5g
Dimensions	105mm×Φ18.9mm



Weight	45g
Dimensions	105mm×Φ18.9mm

### HW-3H

• USED FOR: WOODPECKER scalers with detachable handpiece, without light, autoclavable.  
• Two colours optional (white/ blue).



Weight	47g
Dimensions	117mm×Φ18mm



Weight	47g
Dimensions	117mm×Φ18mm

### HW-1C

• USED FOR: UDS-J2/UDS-N4, handpiece sleeve is autoclavable.  
• Three colours optional to the handpiece sleeve (green / yellow / amethyst).



• Three colors for option



Weight	135g (+cable)
Dimensions	137mm×Φ20.4mm

### HW-1L

• USED FOR: USD-J2 LED, handpiece sleeve is autoclavable.  
• Three colours optional to the handpiece sleeve (green/ blue/ amethyst).



• Three colors for option



Weight	156g (+cable)
Dimensions	140mm×Φ20mm

### HW-1

USED FOR: UDS-J/UDS-B/UDS-N1.

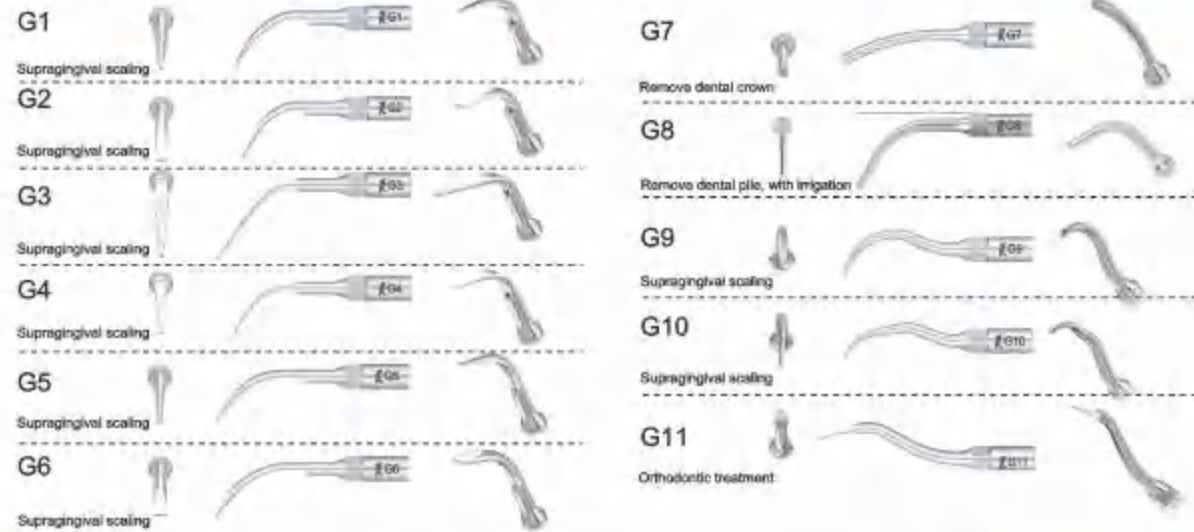


Weight	116g (+cable)
Dimensions	113mm×Φ18mm

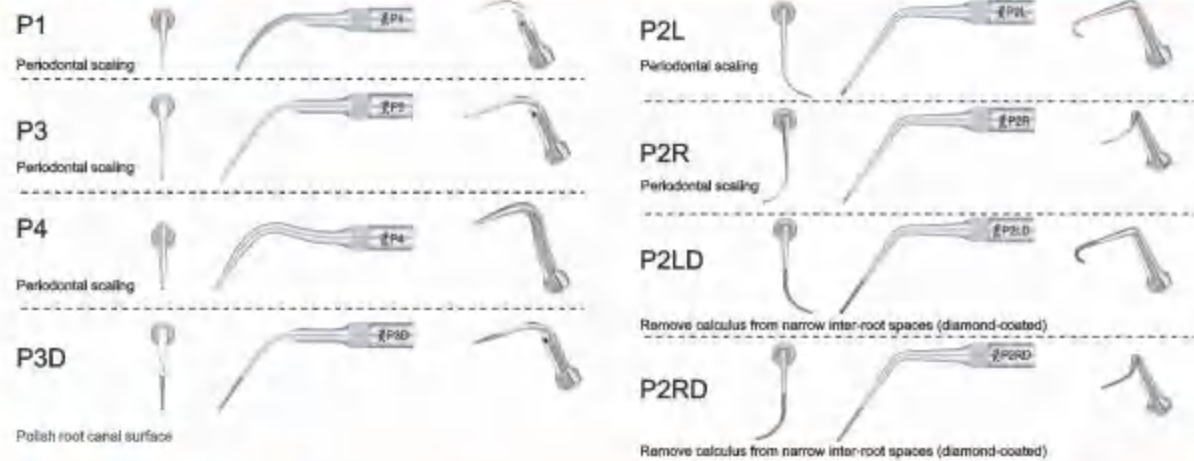


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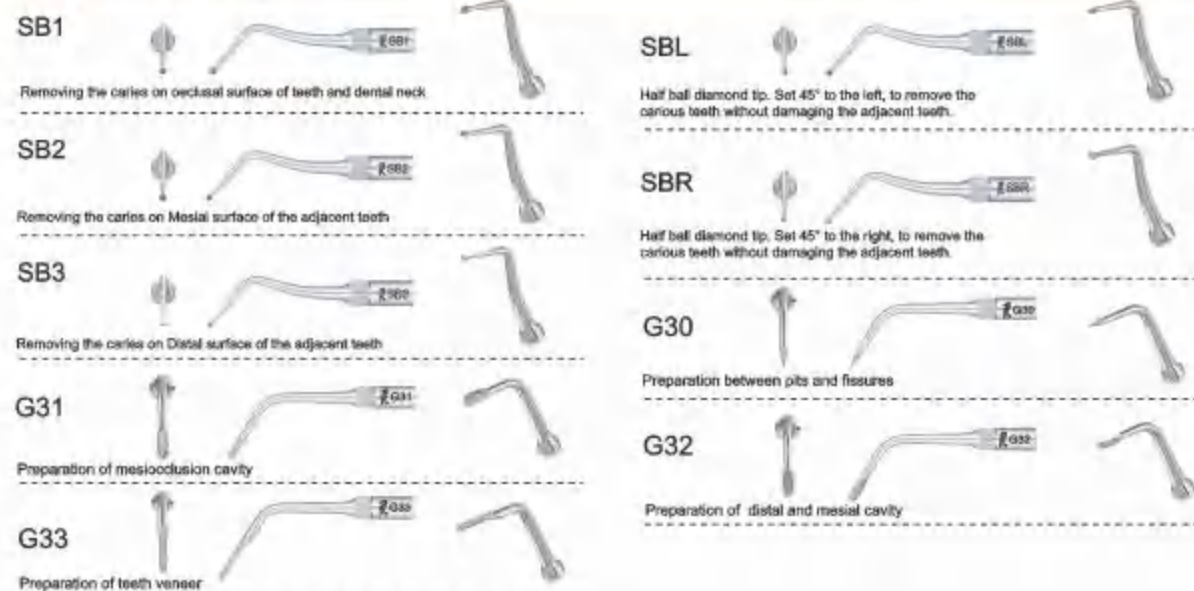
## Scaling



## Periodontics



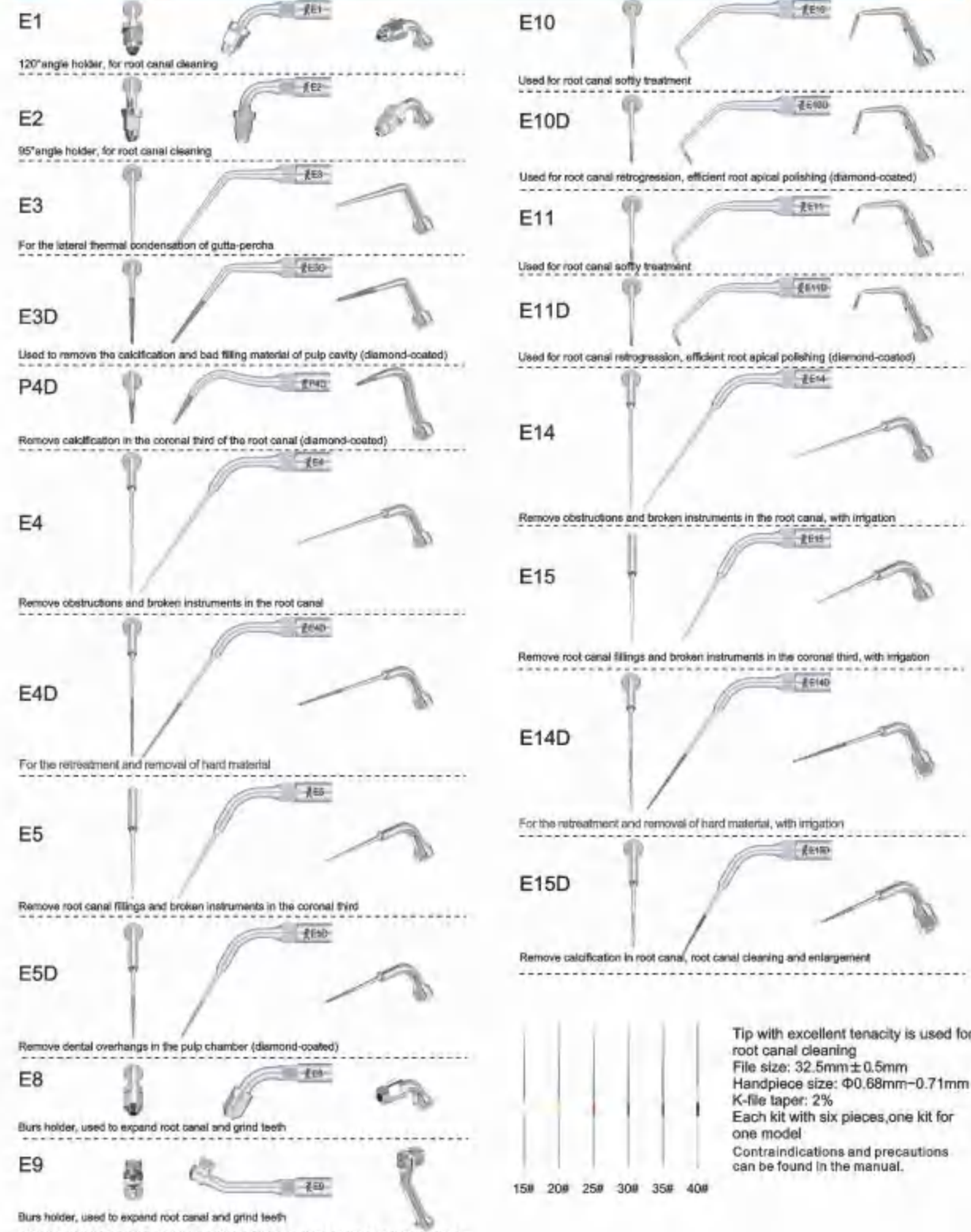
## Cavity preparation



## Shoulder preparation



## Endodontics



Tip with excellent tenacity is used for root canal cleaning  
 File size: 32.5mm ± 0.5mm  
 Handpiece size: Φ0.68mm-0.71mm  
 K-file taper: 2%  
 Each kit with six pieces, one kit for one model  
 Contraindications and precautions can be found in the manual.

### Scaling (Used for SIRONA)

GS1 Supragingival scaling	GS5 Supragingival scaling
GS2 Supragingival scaling	GS6 Supragingival scaling
GS3 Supragingival scaling	GS7 Remove dental crown
GS4 Supragingival scaling	GS8 Remove dental pile, with irrigation

### Periodontics (Used for SIRONA)

PS1 Periodontal scaling	PS4 Periodontal scaling
PS3 Periodontal scaling	PS3D Smoothing restoration overhangs and debride in-depth root (diamond-coated)

### Endodontics (Used for SIRONA)

ES1 120° angle holder, for root canal cleaning	ES4 Remove obstructions and broken instruments in the root canal
ES2 95° angle holder, for root canal cleaning	ES5 Remove root canal fillings and broken instruments in the coronal third
ES3 For the lateral thermal condensation of gutta-percha	ES8 Burs holder, used to expand root canal and grind teeth
ES3D Used to remove the calcification and bad filling material of pulp cavity (diamond-coated)	ES10 Used for root canal softly treatment
PS4D Remove calcification in the coronal third of the root canal (diamond-coated)	

ES11 Used for root canal softly treatment	ES14 Remove obstructions and broken instruments in the root canal, with irrigation
ES15 Remove root canal fillings and broken instruments in the coronal third, with irrigation	

### Scaling (Used for KAVO)

GK1 Supragingival and subgingival scaling	GK7 Supragingival and subgingival scaling
GK2 Supragingival and subgingival scaling	GK11 Orthodontic treatment
GK3 Supragingival and subgingival scaling	GC1 Supragingival and subgingival scaling
GK4 Supragingival and subgingival scaling	GC2 Supragingival and subgingival scaling
GK5 Supragingival and subgingival scaling	EK8 Burs holder, used to expand root canal and grind teeth
GK6 Supragingival and subgingival scaling	

### Periodontics (Used for KAVO)

PC1 Subgingival scaling
----------------------------

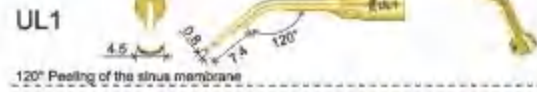
### Used for AMDENT

A1 Supragingival scaling	A1T Supragingival scaling
A2 Supragingival scaling	

## Bone surgery



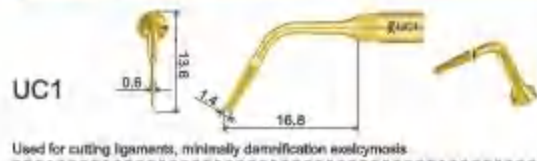
## Sinus lifting



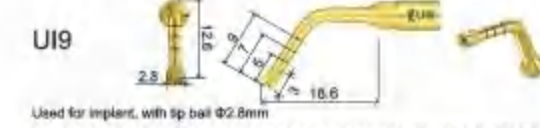
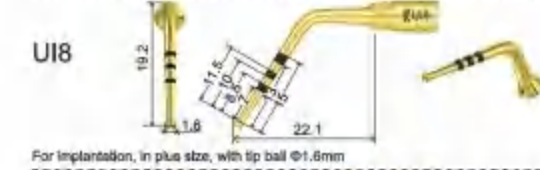
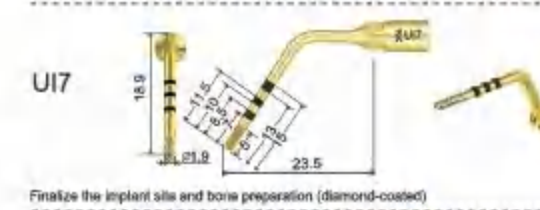
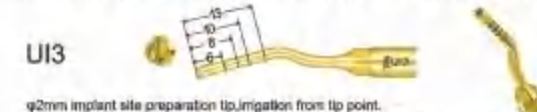
## Endodontic



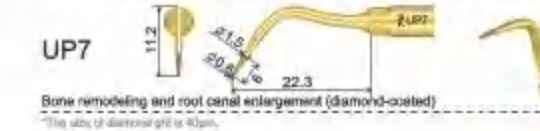
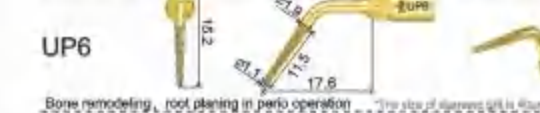
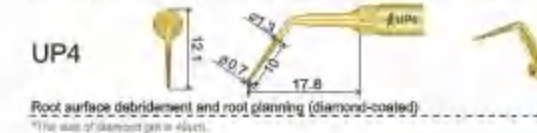
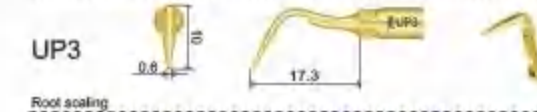
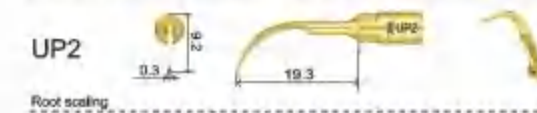
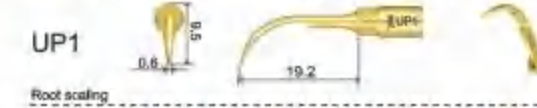
## Exsclymosis



## Implantation



## Periodontal surgery



## Ultrasurgery Tip Kit

