



# Innovate Dentistry With Eighteeth

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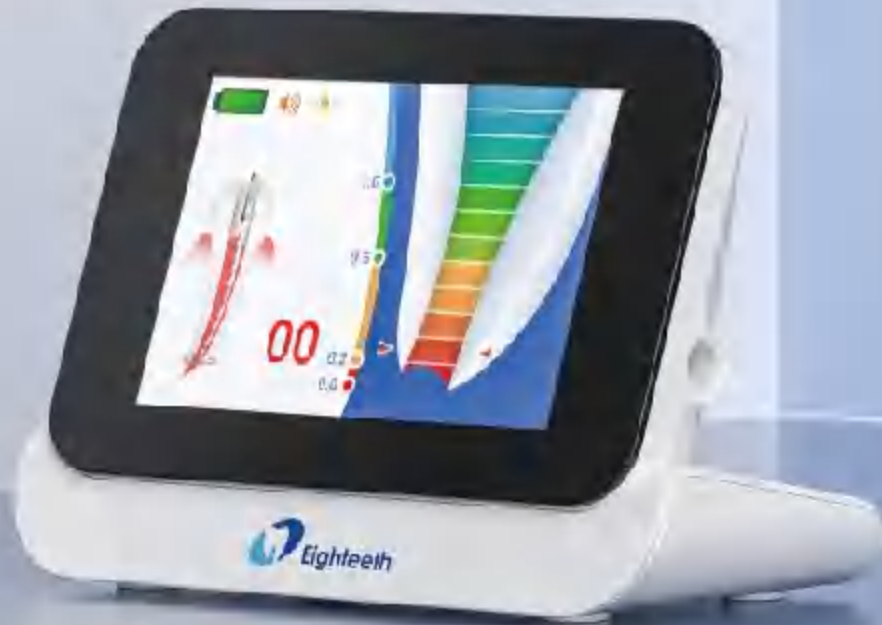






# FindPex

Apex Locator Using ASW Technology



## Main Technical Specifications:

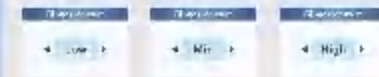
Dimensions	156mm × 106mm × 114mm (package)
Weight	247g
Screen	3.5" color TFT
Battery	Lithium-ion battery, 3.7V/800mAh
Adapter	Input: AC 100-240V, 50Hz/60Hz, 0.2A Output: DC 5V/1A
Frequency	50Hz/60Hz, ±10%
Power rating	0.2A MAX
Degree of protection	IPX 0
Electrical safety class	Class II

## More Accurate & Anti-Interference

- Exclusive Adaptive Sine Wave (ASW) technology & next-gen multi-frequency technology enhance the measurement accuracy
- High-speed AI chip allows real-time response
- Adaptive to various root canal conditions

## 3 Adjustable Measurement Sensitivity Levels

Tailored to meet the demands of different users



## Personalized Customization

- Personalized background & Sound recognition



Light and Dark Theme interface

- Advanced settings include time for auto-shut down & auto-return to the home page, language and volume
- Adjustable screen brightness fits different visual needs & saves energy

## Ultimate Experience of Visual & Tactile Sensations

- Screen visible from any angle: 3.5-inch TFT color screen and IPS technology



- Upgraded touch buttons



## Intuitive Operation

- Synchronous endo file position demonstration
- Distinguishes Oral & Non-Oral Environments: 'Connected' indicator for non-oral settings, numerical display for oral environments



## Long-lasting Durability

- Durable Accessories: 316L stainless steel lip hook & biometric-silica-wrapped file clip





E-PEX

Smart Apex Locator



### Integrate Endomotor with Apex Locator (Connect Function)

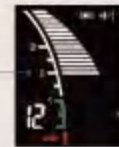
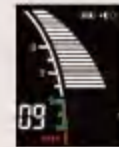


-  Auto Start & Stop
-  Apical Reverse
-  Apical Slow Down



### Smart Accurate and Reliable Apex Locator

- Advanced Multi - frequency Technology
- High Precision in Wet & Dry Canals
- Large 3.5" LCD Display
- Automatic Calibration
- Compact Size & Stable Design

### Screen Display & Its Meaning

	Interface	Interface	Interface	Interface
Display				
Value	12	0.9	0.0	-3
Meaning	The corresponding scale value is 2, indicating the distance from the apex is about 2mm	It indicate that the distance from the apex is about 1.5mm	It indicates that the endo file reaches the apex	It indicates that the root canal file has exceeded the apex
Alarm	Didi alarm sound for a long time interval	Didi alarm sound interval becomes shorter	Uninterrupted long beep	Very rapid Didi alarm sound



# AirPex

## Wireless Apex Locator

International Patent  
No.:PCT/CN2019/110429



### Feel the Charm of Wireless Charging

Lay it down , Charge it up  
Charging is as simple as placing  
the AirPex on the charging base



### True Wireless Apex Locator

Get rid of the wire to the fullest  
Use without magnet wire  
Accuracy through wirelessness







# E-STYLE & E-FLEX Series

NiTi Endo File



- View Details -



E-FLEX RT



E-FLEX S



E-STYLE BLUE

E-STYLE GOLD



E-FLEX REC



E-FLEX ONE



E-FLEX GOLD



E-FLEX MINI



E-FLEX PATH



E-FLEX BLUE





# E-xtreme

Cordless Endo Motor

Smaller | Lighter | Quieter than ever



360° contra-angle rotation



Slim and compact design for maximum comfort and mobility



Miniature contra-angle for better visibility & easier posterior access

- Miniature contra-angle Super Mini head & thin neck

- Normal head & neck



Eighteeth innovative motor, cutting down the noise from inside, allowing you to experience the tranquility.



Less than 100 grams, reducing hand fatigue during treatment, providing the ultimate E-xtreme experience.



Reciprocation function



Built-in file system

## Specifications

Model	: E-xtreme	Power supply	: 100 V-240 V
Weight(grams)	: 99 g	Frequency	: 50 Hz / 60 Hz
Torque range	: 0.5 N.cm-4.0 N.cm	Output	: DC 5 V/ 1 A



# E-CONNECT

Cordless Endo Motor



- Torque Calibration
- Powerful 1500 mAh Lithium Battery
- Digital OLED Display
- Integration Option
- Low Noise Motor
- Screen Cast / Mirroring
- Ambidextrous + Display
- \*User can rotate the Endomotor Screen towards left or right
- \*In connect function Endomotor mirrors Apex Locator's screen

## Integrate Endomotor with Apex Locator (Connect Function)

- Auto Start & Stop
- Apical Reverse
- Apical Slow Down



## Five Reciprocation Modes (M0)

Reverse Reciprocation-One Mode  
Counter clockwise & clockwise movement  
Fwd 30° - Rev 150°  
For reciprocating files

Forward Reciprocation-Four Modes  
Clockwise & counter clockwise movement  
Fwd 150° - Rev 30° Fwd 180° - Rev 30°  
Fwd 210° - Rev 30° Fwd 250° - Rev 30°  
For all continuous rotation files



## Nine Editable Memory Programs (M1 to M9)

- Maximum Speed 1000 rpm
- Forward Direction of Rotation
- 360° Clockwise Rotational Movement
- Reverse Direction of Rotation
- Editable Speed / Rpm Setting
- Torque Auto Reverse
- Editable Torque setting



## One Piece Contra Angle Head

- 360° Adjustable Handpiece
- Detachable Head
- Miniature Head
- Autoclavable



# E-connect S

Endomotor With Built-in  
Apex Locator



**Torque Calibration**  
For precise torque output



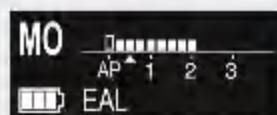
**OLED Screen**  
Digital OLED Display



**Ambidextrous Display**  
Screen can be rotated as per  
Left or right hand use



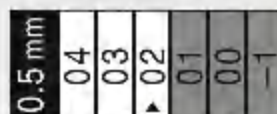
**Powerful Battery**  
Heavy duty 1500mAh  
Lithium battery



MO - Stand Alone Apex Locator Mode



Apex Locator Bar



Zoom-in & Flash Bar  
(when file is in apical zone)

## APEX LOCATOR

### Apical control with rotary instruments

Position of file is displayed on screen and the motor rotates in reverse direction when file reaches pre-set apical working length, to prevent over instrumentation

### Manual canal measurement

Manual file clip can be used to measure canals precisely with hand files

Multi frequency technology with high accuracy & precision

Apex locator flash bar with zoom-in function

## Working Modes:

**FWD** - Clockwise Continuous Rotation

**REV** - Anti-clockwise Continuous Rotation

**REC** - Reciprocation Movement

First-in-class cordless open motor with adjustable angles of rotation ranging from 30° to 370° for reciprocation as per user's need

First-in-class feature of speed adjustment in reciprocation mode

**ATC** - Adaptive Torque Control

ATC manages the file stress in a smart way. When torque limit is reached, instead of going into reverse mode, motor reciprocates till the stress is reduced. Once back to below pre-set torque level, file will again rotate in continuous rotation

## Integrated mode features:

**Auto Start & Stop** - Motor starts working when the file enters inside root canal, and stops when withdrawn

**Apical Reverse** - When the file reaches pre-set apical reverse point, user can define whether the file starts moving in reverse direction

**Apical Slow Down** - To preserve the cemento-dental junction and avoid file separation, speed of motor slows down when file is in apical region

## Specifications:

Rotational Speed Range : 120-1000 rpm  
Torque Range : 0.5-4.0 N.cm  
Memory Programs : 11 (M0 to M10)  
Battery Capacity : 1500 mAh





# E-connect S+

Endomotor With Built-in Apex Locator



### 360° Rotatable Contra Angle

Upgraded contra angle  
One-piece body design



### Torque Calibration

For precise torque output



### Advanced Brushless Motor Less Reciprocal Vibration

With reliable quality, bring you precise operation and higher efficiency



### Ambidextrous Display

Screen can be rotated, convenient for lefties



### Built-in Apex Locator - Sensitivity Adjustable

The sensitivity of apex locator is adjustable



### TFT Colorful Display

With excellent color saturation, tint reducing power and higher contrast



### Seamless Shell

Ergonomic design



### Visualized Apical Display

A simulated image of the apex will appear on the screen when using the apex locator function, which vividly shows the apex position and is convenient for dentists' judgment

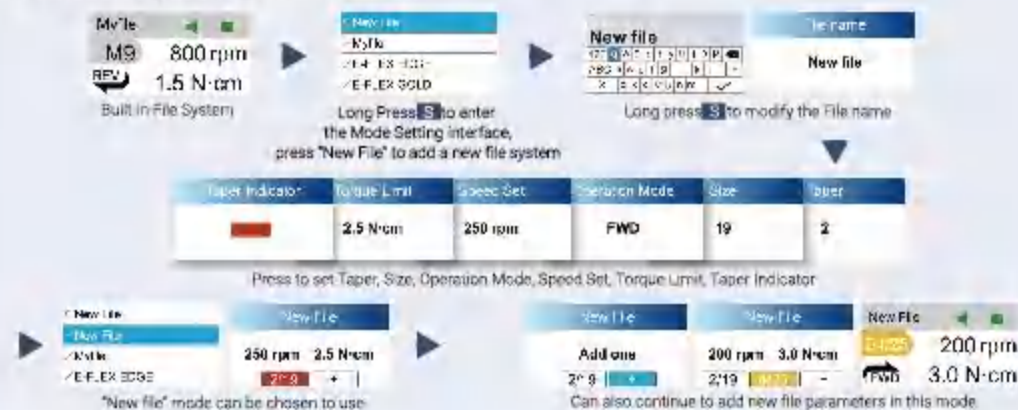


### Adjustable Backlight Brightness

The brightness of backlight is adjustable which can save power and meet the photosensitive needs of different dentists

## Customizable Built-in Endo File System

User could input endo file information



## Working Modes:

→ Fwd - Forward Rotation

→ REC - Reciprocation Mode

- Reciprocating angle range 30°-370°
- The reciprocating angle can be adjusted every 5 degrees

→ Rev - Reverse Rotation

→ ATC - Adaptive Torque Control Mode

After reaching the preset torque, motor will reciprocate according to the set angle to improve the efficiency of root canal enlargement

Torque Below Pre-set Limit



Forward Rotation

Torque Reaches Pre-set Limit



Reciprocation (ATC Mode Active)

Torque Below Pre-set Limit



Forward Rotation

## Specifications:

Speed Range

50 rpm -1500 rpm

Torque Range

0.5-5.0 N · cm

Reciprocating Angle

Every 5 degrees

Battery Capacity

1900 mAh





# E-value

## Cordless Endo Motor

### Specifications:

- Speed Range : 120-1000 rpm
- Torque Range : R.L-4.0 N.cm
- Memory Programs : 10 (M1 to M10)
- Battery Capacity : 1900 mAh



**OLED Color Screen**  
More comfortable visual experience



**Built-in File System**  
Switch file systems quickly



**360° Rotatable**  
360° Rotatable Contra Angle



**Brushless Motor**  
Reliable, Durable, Efficient



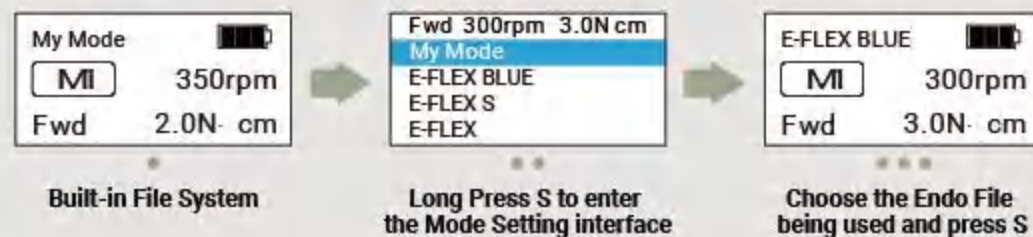
**Long Battery Life**  
Heavy capacity  
1900mAh lithium battery



**Mini Contra Angle**  
Advanced 1:1 contra-angle  
One piece design



### Built-in File System



Note: the doctor could adjust the speed, torque limit and reciprocating angle according to the needs of the case.

### Working Modes:

- Fwd - Forward Rotation
- Rev - Reverse Rotation
- REC - Reciprocation Mode  
Doctor could set the reciprocating angle and speed level according to actual needs  
+ Speed Level range from Level 1 to Level 5  
- Angles range from 30° to 370°
- ATC - Adaptive Torque Control Mode  
After reaching the preset torque limit, motor will reciprocate according to the set angle to improve the efficiency of root canal enlargement





# E-value E

## Cordless Endo Motor

### Specifications:

- Rotational Speed Range : 120-1000 rpm
- Torque Range : 0.5-5.0 N cm
- Memory Programs : 10 (M1 to M10)
- Battery Capacity : 1400 mAh



### Concealed Value, Unleashed Performance

- Adjustable REC Mode**  
FWD and REV rotation angles are independently adjustable
- Adjustable ATC Mode**  
Adjustable Speed, Torque and Angle; Brings safer, precise, and excellent care value to patients
- Torque Calibration**  
Precise torque output
- Built-in 10 Memory Modes**  
Self-define modes can be changed to suit various stages of treatment
- Built-in File System**  
Quickly switch between common file systems without memorizing torque/speed settings

### Outstanding Value at Every Turn

- One-piece Contra-angle Design**  
Advanced 1:1 contra-angle
- 360° Rotatable**
- Waterproof & Antifouling Button**
- Volume Control Settings**
- Ambidextrous Display**  
Powerful Capacity
- 1400mAh Lithium Battery**  
Powerful Capacity

### Working Modes:

- **Fwd** - Forward Rotation
- **Rev** - Reverse Rotation
- **REC** - Reciprocation Mode: Independently adjustable values  
Fwd Angle: 30° - 370°  
Rev Angle: 30° - 370°  
\*The sum of the Fwd and Rev rotation angles must exceed 120°
- **ATC** - Adaptive Torque Control Mode: Adjustable speed, torque and angle  
Facilitates the adjustment of speed, torque, and angle according to specific requirements

Once the preset torque limit is reached, the motor will reciprocate based on the set angle to enhance the efficiency of root canal enlargement.





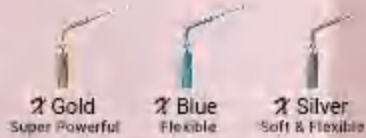


# Ultra X

## Cordless Ultrasonic Activator

### Available Tips

Size	Length(mm)
#20 2%	18 & 21
#25 2%	18 & 21



- Autoclavable Tips
- Smooth Surface Finish
- Flexible Tips  
\*Only X Blue & Silver size Flexible Tips
- Multiple Tip Options



### In Action

#### Cavitation Effect

It is the process of formation of millions of gas bubbles in the irrigation solution. These gas bubbles grow in size, oscillate in different directions and explode into the liquid, producing powerful cleaning action

#### Acoustic Streaming

It is a unidirectional flow of liquid produced by ultrasonic waves. Movement of tip produces special effect called acoustic turbulence which accelerates the movement in liquid inside the root canal



### Indication

#### Smear Layer Removal

Effective in removal of smear layer and unplugging of dentinal tubules

#### Dentin Chips Removal

Ultrasonic agitation forms suspension of residual dentinal chips and tissue remnants with irrigant and facilitates their easy removal



### Indication

#### Biofilm Disruption

Ultrasonic cavitation disrupts the biofilm and helps to reduce bacteria load in the canal

#### Cleaning of Complex Anatomy

Ultrasonic activation helps irrigants to flush into undetected or un-instrumented canal anatomy like isthmus, fins, lateral canals, apical ramification etc. Also helps to remove vapour lock



### Protocol

Prepare the root canal up to required size with the help of shaping and finishing instruments  
 Choose the desired disinfectant and flushing agents for cleaning, debridement and disinfection of canals  
 Fill the chosen irrigation solution into the canal, never run Ultra X without irrigating solution  
 Select the Ultra X tip of desired size and length which passively fits into canal, always keep 2-3mm short of apex  
 Activate solution using short vertical up & down strokes for 30 seconds. Be careful to not breach apical 2mm  
 Use the device gently and never apply pressure or wedge the tip inside the canal. If any points of resistance, then retrieve the ultrasonic tip  
 Replenish the irrigating solution, use suction to remove the loose debris. Repeat the cycle 4 to 5 times  
 Completely dry the canal and fill it with choice of obturation material  
 It is always recommended to isolate the tooth using rubber dam and use personal protective barriers like head gear, mask, eyeglasses etc



#### Key Features

- Ultrasonic Activation Device
- 45 kHz High Frequency
- Application Based Multiple Tips
- 1500 mAh Powerful Battery



#### Key Features

- Two Power Modes with LED Indicator
- Contra-angle Design
- Light Weight & Ergonomic
- Cordless Irrigation Device



#### Battery

- 1500 mAh Lithium Battery
- Battery Level Indicator
- 4.5 Hrs of Continuous Operation
- Option of Direct Plug & Play



# UltraMint & UltraMint Pro

All-round Ultrasonic Scaler

Scaling | Periodontic | Endodontic



## Soft Perio Power for Ultimate Comfort

Autoclavable plastic box - tips\*6, universal wrench\*1, handpiece\*1



\*Applicable for all tips from Eighteeth

Autoclavable plastic box - tips\*6, universal wrench\*1, handpiece\*1



Smart touch system-ultrasensitive & waterproof



Intelligent self-cleaning-makes disinfection easy and avoids cross-infection



Two ways of water supply- Changing supply methods is easier than ever before



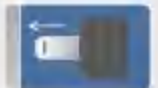
900ml stand-alone bottle with clear 20ml scale mark makes it convenient for formulating liquid.



Detachable handpiece with LED- autoclavable, ergonomic, brighter visibility



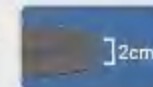
Detachable and autoclavable handpiece holder, resists cross-infection



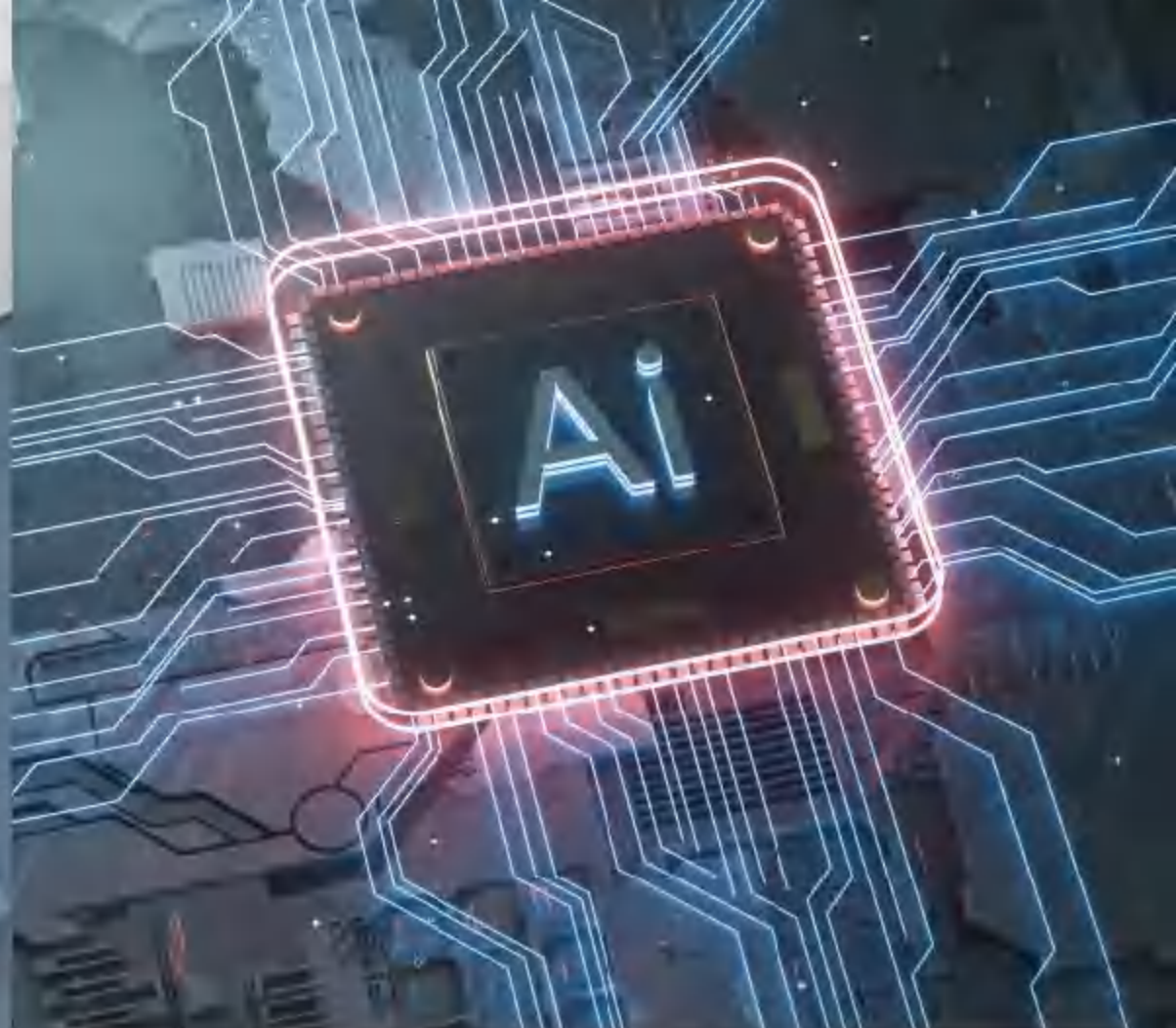
Water control directly from handpiece



Ergonomic foot pedal







**One scaler, 2 solutions**

Wide range of frequency: 25kHz-42kHz

— We are proud to give you two solutions to perform at your best— both handpieces provided by Eighteenth are compatible with UltraMint & UltraMint Pro.\* Scaling can be as convenient as you can imagine.

**AI Engine — Scaling has never been so intelligent!**

	<p>Customized treatment based on tooth surface conditions</p>		<p>Smart touch control system—ultrasensitive &amp; waterproof</p>
	<p>Elliptical stroke patterns with polishing effect</p>		<p>Intelligent degenerative feedback</p>
	<p>Digital controlled automatic frequency tracking Ensures machine works on optimum frequency</p>		<p>Sine wave drive Avoids simulation caused by instantaneous current output, ensures comfortable treatment</p>



Tip: G1 G2 G4 P1 P3 E4  
universal wrench, handpiece



Tip: E3-SD E5-S E7-S P4-S G1-S G2-S  
universal wrench, handpiece

## Scaling



G1 G1-S

Removal of supragingival calculus



G2 G2-S

Removal of significant supragingival calculus



G4 G4-S

Used for supragingival and interdental space scaling



G5 G5-S

Removal of marginal supragingival calculus and plaque

## Periodontic



P1 P1-S

Removal of subgingival calculus and periodontal irrigation



P4 P4-S

Removal of calculus in shallow pockets



P50L P50L-S

Used for subgingival calculus probing, subgingival proximal surface scaling and root planing



P53L P53L-S

Used for subgingival calculus probing, subgingival proximal surface scaling and root planing



P59 P59-S

Used for supragingival calculus probing and scaling



P3D P3-SD

Used to level off the surface of roots after the periodontal flap surgery



P3 P3-S

Removal of calculus deep in periodontal pocket and its irrigation



P52 P52-S

Supragingival scaling



P50R P50R-S

Used for subgingival calculus probing, subgingival proximal surface scaling and root planing



P53R P53R-S

Used for subgingival calculus probing, subgingival proximal surface scaling and root planing



P56 P56-S

Removal of significant supragingival calculus and plaque



P40 P4-SD

For locating root canal and removal of calcification from one-third of crown

## Endodontic



E1 E1-S

120° angle holder for 0.7mm-0.8mm endo file for root canal cleaning



E4 E4-S

Removal of foreign filling material during retreatment



E6 E6-S

Removal of foreign material in cavity to access canal orifice



E8 E8-S

Flexible and used to brush the canal walls during retreatment



E10 E10-S

Used for root planing in the retrograde preparation of root canal



E30 E30-S E30-SD

Removal of deep foreign particles in canal



E3 E3-S

For lateral condensation of gutta percha by heating effect



E5 E5-S

Removal of foreign filling material during retreatment



E7 E7-S

Removal of broken instrument



E9 E9-S

Removal of broken instrument



E3D E3-SD

Enlargement of the canal walls to remove the broken instrument

## Endodontic



E31 E31-S E31-SD

Removal of foreign particles from one-third of the canal



E4D E4-SD

Removal of hard material in canal during retreatment



E6D E6-SD

Removal of foreign material in cavity to access canal orifice



E8D E8-SD

Used for root canal retrograde preparation, efficient root apical polishing



TC1 TC1-S TC1D TC1-SD

Removal of cervical caries and caries on the occlusal surface



# Fast-Pack pro & Fast-Fill

3D Obturation  
Devices





# Fast-Pack pro

Obturation Pack Handpiece



Fast-Pack pro



## Temperature Range



- Wide temperature range of 90° to 300°
- Five memory programs to customize temperature and cut-off time as per obturation material used or any other intended use of the device

## Internally Heated Tip



- Only the working end (4 - 6 mm) of the tip is heated - avoids need for insulating sleeves
- The non-working end is insulated and stays cool avoiding soft tissue burn

## Class-leading Controlled Heating



- Fast heating - Quick heating prevents PDL damage
- Swift cooling - Swift cooling ensure GP does not follow along the heating tip

## Experience Ergonomics



- 360° start / stop ring button allows holding the device in any angle comfortable for you
- Left - right handed operation
- Comfortable grip, light in weight

## Powerful Battery



- Highly efficient 2600mAh Lithium battery
- Direct Plug & Play - In case of low battery, use the device directly with adaptor

## Specifications

Heating Time	0.2 seconds for 200 °C Less than 1 second for 300 °C
Cooling Time	2 seconds for cooling
Charging Time	2 hours to complete charge
Operating Time	4 hours of continuous operation at 250 °C



Small (Black)  
40/0.025 - 1 Qty



Medium (Yellow)  
50/0.05 - 1 Qty



Large (Blue)  
60/0.06 - 1 Qty

Fast-Pack pro





# Fast-Fill

Obturation Fill Handpiece



### Fast-Fill Tips

- Autoclavable silver tips for multiple usages
- Silver tips maintain the thermoplastic temperature of GP and offers smooth flow inside canal
- 360° rotating tip for easy filling at all angles
- Extra long needle offers convenience and visibility
- Easy to maintain and replace



### Motorized GP Flow

- Provides consistent flow of GP at desirable rate
- Precludes voids and makes obturation homogeneous
- Eliminates hand fatigue that resulted from earlier gun type devices



### Comprehensive Display

- Three customizable memory programs - T1 to T3
- Temperature range 100 °C - 200 °C
- GP flow rate - Low, Medium, High
- Reserve GP level indicator



### Intuitive Design

- Sleek and ergonomic hand-piece
- Simple push button to dispense GP
- LED indicator reflects when the device is ready for use



### Powerful Battery

- Highly efficient 2600mAh Lithium battery
- Direct Plug & Play - In case of low battery, use the device directly with adaptor



### Specifications

Heating Time	20 seconds to 200 °C
Charging Time	4 hours to complete charge
Hexagonal Wrench	Use the wrench to bend the tip, rotate the tip and clean the device



23 Gauge Large



25 Gauge Small



## Protocol for Use

### Master Cone Verification & Resizing

Select a master cone which corresponds to the master apical preparation. Check for tug-back and confirm the same with radiograph. Resize the GP by cutting it to 0.5 to 1mm short of the working length. This will prevent peri-apical extrusion of the GP

### Selection of Fast-Pack & Plugger Tip

Select the Fast-Pack tip which reaches 4-5 mm short of the working length and give a snug fit at the tip. Mark this length using the silicon stopper. Similarly, select the hand plugger which reaches 4-5mm short of the working length

### Gutta Percha & Sealer

Coat the master cone apically with the sealer and insert it into the canal. Brush the canal wall using strokes of GP and sealer

### Down Pack with Fast-Pack

Remove the GP from the orifice/coronal part with the help of heated Fast-Pack tip. Plug the GP cone with pre-fit hand plugger at the orifice. Now take the heated Fast-Pack tip 4-5mm short of the working length. The bite of GP will come out of the canal along with the tip. Heated Fast-Pack tip will transfer heat to the GP and convert it into thermoplastic state. Condense the GP with the help of hand plugger to ensure the complete sealing of accessory canals and apex

### Fill with Fast-Fill

Filling the canal using the Fast-Fill device in increments of 4mm till the canal is filled completely while condensing the warm GP with the appropriate plugger after each increment



# Gutta Percha Points



Ideal for obturating root canals which have been prepared with GT files, Profile, Quantec, etc. Greater Taper 0.04 and 0.06 are available in assorted or individual sizes. At the top of points (d1), the diameter corresponds to the ISO size, but then the conicity is greater than ISO points.



# Absorbent Paper Points



	NO.15 NO.20	NO.25 NO.30	<ul style="list-style-type: none"> <li>○ white</li> <li>● yellow</li> <li>● red</li> <li>● blue</li> </ul>	GP	<table border="1"> <tr><td>15</td><td>20</td><td>25</td><td>30</td></tr> <tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr> </table>	15	20	25	30	↑	↑	↑	↑
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↑	↑	↑	↑										
	NO.20 NO.25	NO.30 NO.35	<ul style="list-style-type: none"> <li>● yellow</li> <li>● red</li> <li>● blue</li> <li>● green</li> </ul>	GP	<table border="1"> <tr><td>20</td><td>25</td><td>30</td><td>35</td></tr> <tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr> </table>	20	25	30	35	↑	↑	↑	↑
20	25	30	35										
↑	↑	↑	↑										
	NO.20 NO.25	NO.30 NO.35	<ul style="list-style-type: none"> <li>● yellow</li> <li>● red</li> <li>● blue</li> <li>● green</li> </ul>	GP	<table border="1"> <tr><td>20</td><td>25</td><td>30</td><td>35</td></tr> <tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr> </table>	20	25	30	35	↑	↑	↑	↑
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↑	↑	↑	↑										
	NO.25	Gutta Percha Points (for Pro Taper Gold) F2	● red	GP	<table border="1"> <tr><td>25</td></tr> <tr><td>↑</td></tr> </table>	25	↑						
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↑													
	NO.30	Gutta Percha Points (for Pro Taper Gold) F3	● blue	GP	<table border="1"> <tr><td>30</td></tr> <tr><td>↑</td></tr> </table>	30	↑						
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	NO.15 NO.20	NO.25 NO.30	<ul style="list-style-type: none"> <li>○ white</li> <li>● yellow</li> <li>● red</li> <li>● blue</li> </ul>	PP	<table border="1"> <tr><td>15</td><td>20</td><td>25</td><td>30</td></tr> <tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr> </table>	15	20	25	30	↑	↑	↑	↑
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↑	↑	↑	↑										
	NO.20 NO.25	NO.30 NO.35	<ul style="list-style-type: none"> <li>● yellow</li> <li>● red</li> <li>● blue</li> <li>● green</li> </ul>	PP	<table border="1"> <tr><td>20</td><td>25</td><td>30</td><td>35</td></tr> <tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr> </table>	20	25	30	35	↑	↑	↑	↑
20	25	30	35										
↑	↑	↑	↑										
	NO.20 NO.25	NO.30 NO.35	<ul style="list-style-type: none"> <li>● yellow</li> <li>● red</li> <li>● blue</li> <li>● green</li> </ul>	PP	<table border="1"> <tr><td>20</td><td>25</td><td>30</td><td>35</td></tr> <tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr> </table>	20	25	30	35	↑	↑	↑	↑
20	25	30	35										
↑	↑	↑	↑										
	NO.25	Absorbent Paper Points (for Pro Taper Gold) F2	● red	PP	<table border="1"> <tr><td>25</td></tr> <tr><td>↑</td></tr> </table>	25	↑						
25													
↑													
	NO.30	Absorbent Paper Points (for Pro Taper Gold) F3	● blue	PP	<table border="1"> <tr><td>30</td></tr> <tr><td>↑</td></tr> </table>	30	↑						
30													
↑													





# CuringPen

4 LEDs Curing Light

## Technical parameter:

Dimension: 24\*21\*230(mm)  
Net Weight: 109g  
Lens size: 11mm

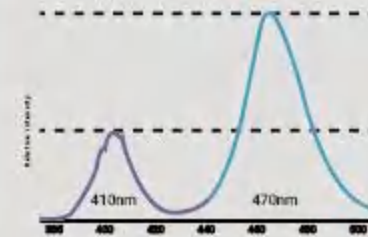
Power supply:  
>1200 times, 3 Sec  
Maximum light intensity



CuringPen



Smart controlling chip  
keeps light output consistent  
Light intensity:  
1000mw/cm<sup>2</sup>, 1500mw/cm<sup>2</sup>, 2300mw/cm<sup>2</sup>  
600 mw/cm<sup>2</sup>(detect mode)



Wavelength:385-515nm  
3 Blue, 1 Violet, 10w LED



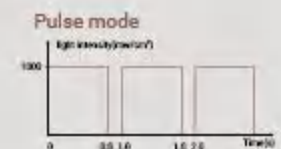
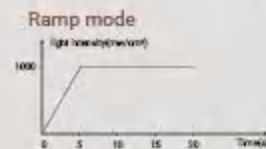
360° rotatable head



Intensity digital display



Multiple Curing Options



Caries detection







# CuringPen-E

3 LEDs Curing Light

## Technical Specifications:

Dimension	: 19 x 16.5 x 7.5 cm
Weight	: 120 g
Lens Size	: 8 mm
Power Supply	: >1200 times, 3000 mw/cm <sup>2</sup> , 3 Sec
Maximum Light Intensity	: 3000 mw/cm <sup>2</sup>
Spectral Range	: 380-515 nm



### 360° Rotatable Head

Easy to illuminate various treatment areas



### Small Light Head

Easy to access to posterior molars which offers better patient experience



### Special Lens Design

Unique lens design forms a concentrated beam for uniform curing



### Ultra Power

- Light intensity now up to 3000mw/cm<sup>2</sup>
- High light intensity results in deeper cure depths which could curing resins more efficiently and with short time



### Broad Spectral Range 380 nm-515 nm

- Why broad spectral range?
- Most of resins use camphorquinone (CQ) materials, but some manufacturers choose alternative initiators such as TPO to reduce the yellow impact caused by CQ. TPO can only be activated by the light wave below 410nm. CuringPen-E has a broad spectrum which could effectively cure different resins.

## Working Modes

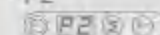
### - P1



#### Normal Mode

Light Intensity : 1200mw/cm<sup>2</sup>  
Time Setting : 5s, 10s, 15s, 20s, 25s, 30s, 35s, 40s

### - P2



#### High Mode

Light Intensity : 2000mw/cm<sup>2</sup>  
Time Setting : 1s, 3s, 5s, 10s

### - P4



#### Pulse Mode

Light Intensity : 1200mw/cm<sup>2</sup>  
Time Setting : 5s, 10s, 15s, 20s

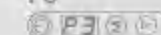
### - P5



#### Ramp Mode

Light Intensity : 1200mw/cm<sup>2</sup>  
Time Setting : 5s, 10s, 15s, 20s

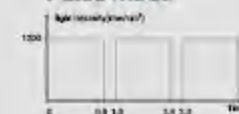
### - P3



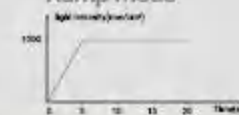
#### Ultra Mode

Light Intensity : 3000mw/cm<sup>2</sup>  
Time Setting : 1s, 3s, 5s

### Pulse mode



### Ramp mode





# HyperLight

Portable X-ray Unit



## Engineered for accurate images

### - Clinical Imagery



### - Sharp, high resolution images with a 0.4 focal spot

Source focal spot    Source focal spot



Effect of focal spot size



## Designed with safety in mind



**Built-in leaded double shield to protect the operator from leakage radiation**



**Locking system to prevent unintentional exposure**

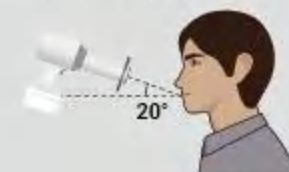
## Specifications

Model	HyperLight	Weight	1.8 kg
Focal Spot	0.4	Battery	2500 mAh x 4
Tube Voltage	65 kV	Exposure Time Range	0.02-2 Sec
Tube Current	2.5 mA	Line voltage	100V-240V, 50Hz/60Hz



### Simplify your digital workflow

- Compact size and lightweight can make you operate it by one hand only
- Intuitive user interface
- Smart angulation system



### Maximize your diagnostic potential

Perfect combination







# HyperLight-G

Portable X-ray Unit



### Receptor

Use with film, digital sensor, phosphor plate



### Locking System



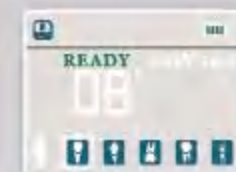
### Preset Parameter

Divided into adults and children, and can be set and controlled for different teeth

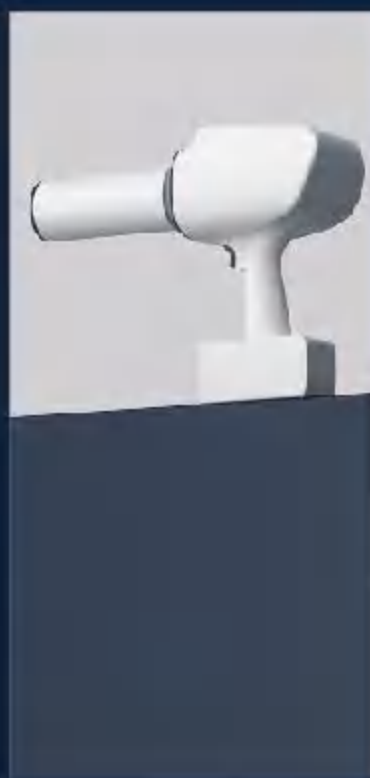


### Large Battery Capacity

More than 300 exposures in one full charge



Smart angulation system, faster your workflow



### Safe

- Internal x-ray shielding
- Locking system to avoid unintentional exposure
- Backscatter shield for operator and patient protection(\*optional)

### Portable

- Cordless, handheld and extremely mobile, move freely between rooms, locations and cities

### Economical

- Use with film, digital sensor or phosphor plate
- Prolonged working life, at least 80,000 exposures

### Specifications

Model	HyperLight-G
Tube Voltage	65 kV
Tube Current	2 mA
Exposure Time Range	0.02-2 Sec
Weight	1.9 kg
Battery	2000mAh X4
Line Voltage	100V-240V, 50Hz/60Hz



# NanoPix1/1.5/2

Intraoral X-Ray Sensor



Without Nano AI



With Nano AI



### NanoAI Intelligent Diagnosis, One-Click Easy Recognition

- 4 Structures: Pulp, Enamel, Dentin, Bone Level
- 10 Diseases: Caries, Periapical Periodontitis, Root Canal Therapy, Filing, Restoration, Implant, Bridge, Calculus, Wedge-shaped Defect, Notable Margin
- Tooth Position



### Boost Case Acceptance by 27%

- Visual diagnostic reports for patients' consultations providing 27 and satisfaction improving



### Increase Clinic Revenue by 35%

- Diagnostic speed improvement leading to revenue growth

Source: Internal Study



### Stable AED Technology: Efficient Diagnosis and Treatment

- 3-second ultra-fast imaging, instant capture
- Automatic exposure detection, compatible with standard AC and DC X-ray equipment



### Precise Imaging: High Sensitivity APS CMOS Sensor

- Capture low-noise, high-resolution images for accurate diagnosis
- Low power consumption and long life



### Protecting Health: Direct Distillation Technology for Cesium Iodide

- Low-dose capture of high-definition images reduces the need for extensive radiography experience, making imaging safer



### 25 lp/mm (theoretical) Resolution

- With 20µm pixel for detailed image performance







# IP68

INGRESS PROTECTION

↓

...against SOLIDS

↓

...against LIQUID



## Unique Design

- 
**Ergonomic Rounded Corners**
  - Reduced pain sensation
  - improved patient comfort
- 
**4.4mm Ultra-thin Curved Design**
  - Fits the curvature of the finger for easier positioning
  - Ultra-thin design to reduce the sensation of foreign objects in the patient's mouth
- 
**70,000+ Bend Tests**
  - Firm cable connection design for long-lasting durability
- 
**50,000+ Exposures without Loss of Output**
  - Imaging without degradation, providing long-lasting diagnostic capabilities
- 
**Cost-Effective**
  - No subsequent consumable expenses, leading to lower patient usage costs

## Specifications(available in 3 sizes)

	NanoPix 1	NanoPix 1.5	NanoPix 2
Technology	APS CMOS	APS CMOS	APS CMOS
Scintillator	CsI	CsI	CsI
Pixel Matrix	1000*1500	1200*1650	1300*1800
Pixel Size	25lp/mm	25lp/mm	25lp/mm
Active Area (mm)	20*30	24*33	26*36
Mechanical Size(mm)	25*38.5	43.5*29	31.6*45
Thickness(mm)	4.4	4.4	4.4
AD Conversion(bit)	≥16	≥16	≥16
Data Interface	USB 2.0	USB 2.0	USB 2.0
Protection	IP68	IP68	IP68



# NanoPix-E 1.3

## Intraoral X-Ray Sensor



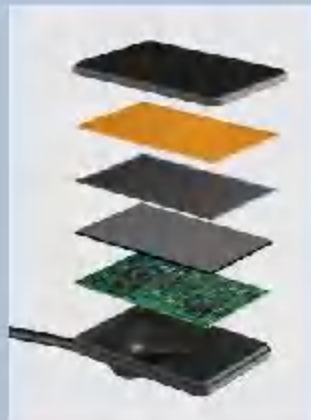
**Specifications**

Model Name	: NanoPix-E 1.3	Theoretical Resolution	: 25lp/mm
Detector Technology	: APS CMOS	True Resolution	: 20lp/mm
Scintillator	: Csl	Active Area (mm)	: 22.5*30
Pixel Matrix	: 1200*1600	Mechanical Size (mm)	: 27.5*38*4.8
		Data Interface	: USB 2.0



### Perfect Size – 1 Exposure is enough!

According to the statistics, the average length of molars is 22 mm. NanoPix-E 1.3 has an imaging area of 22.5x30 mm, which can cover the whole molar more effectively and provide more information in one shot. At the same time, the thickness is only 4.8mm, providing a comfortable experience for patients while positioning them faster.



### Excellent Image Quality

- NanoPix-E 1.3 applies CSI (Cesium Iodide) technology, which allows doctors to acquire high resolution images at lower exposure doses.
- NanoPix-E 1.3 is also equipped with a high-sensitivity sensor. It makes NanoPix-E 1.3 can work with variety exposure settings or X-ray sources.



### Unique design

- Robust cable connection
- Thin body design
- Ergonomic design



# FinScan F350

Oral and Maxillofacial  
CBCT Equipment



FinScan F350



## Core Components

Revolutionary Performance Standardized Excellence



Equipped with Japanese  
Canon X-Ray Tube as Standard

Global premium x-ray tube model in CBCT technology  
0.5mm small focal spot for exceptional clarity



HD Large-Sized Flat-Panel Detector as Standard

16\*16cm flat panel  
Non-stitched one-time imaging



16\*10 FOV One-Stop Solution

Widely used in dental routine diagnosis, implant surgery, etc  
Additional 4\*4, 8\*8 size FOV available  
Meets clinical needs with small and medium field of view  
options in diverse complex surgical scenarios



Intelligent Cooling Technology

Adopt self-developed dissipation heat technology  
Effectively reduce temperatures in tubes and  
components during operation  
Stable image output



EG Design: Enhancing Comfort in  
Human-Machine Interaction

- Smart Design: Small Size, Big Impact  
EG design offers a compact footprint without compromising sophistication or performance  
Effectively utilizing the geometric working distance between the X-ray tube and the detector enables the acquisition of high-quality, HD images while using lower radiation doses
- German-Imported Materials, Superior Quality  
The exterior is crafted from German-imported molecular materials, balancing durability and aesthetics. This ensures the product retains a fresh, like-new appearance without yellowing over time
- L-Shaped Open Base, Designed to Meet Specialized Diagnostic Needs  
Features a stable L-shaped base and open design for easy patient positioning during imaging, while also supporting wheelchair access to meet various treatment needs of the specific groups
- Silent Load Conveyor Belt, Operates Noiselessly  
The interior features a silent conveyor belt to ensure a quiet and comfortable imaging environment, enhance human-machine interaction, and improve the patient experience





### Ultra-Fast HD Scanning

#### Image Power Frame by Frame

- 9-Second CT Imaging, at Your Fingertips

Proprietary algorithms deliver high-quality CT imaging in just 9 seconds  
Scanning time, CT: 9S or 18S; Panoramic image: 14S  
Cephalometric image: 8S or 6S



CT Image

Panoramic Image

Cephalometric Image

Cepic Image

### FinScan Ultimate Layer Algorithm

#### Like Keen Eyes Unveil a New Era in Imaging

- HD Image Reconstruction at Low Doses Scanning

Advanced algorithm platform ensures high-quality images at significantly reduced radiation doses



Regular Dose

Low Dose

- Efficient Metallic Artifact Reduction

Identifies and processes interference from high-density materials, effectively reduces metallic artifacts for accurate imaging

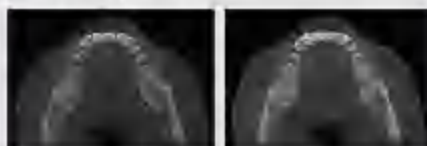


Before Metal Artifact Reduction

After Metal Artifact Reduction

- Intelligent Noise Reduction

Intelligently recognize real structures and noise in images, reducing noisy points and distortion



Before Intelligent Noise Reduction

After Intelligent Noise Reduction



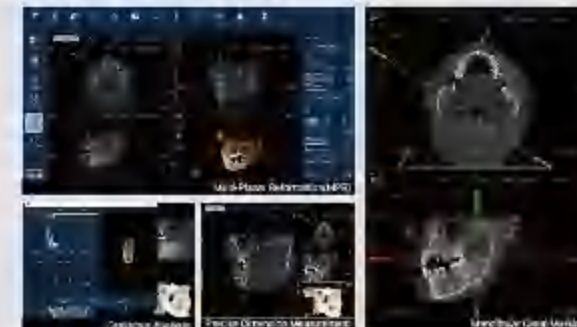
### Expert Software

FinScan Image Processing Software Designed with the Clinician in Mind  
Five Comprehensive Modes Covering All Your Needs

- Multi-Planar Reformation(MPR)

Coronal image, sagittal image, axial image, 3D image rendering model are clear at a glance

Intuitive 3D Visualization One-click selection and navigation between any tooth and its corresponding 3D views



- Panoramic Mode

Intelligent generation of high-quality panoramic images for multi-layer observation and comprehensive control

Accurately and automatically delineate the dental arch

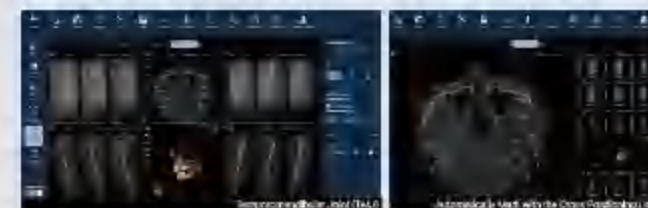
Freely switch the layer thickness between 0.2mm and 30mm



- Temporomandibular Joint(TMJ)

Automatic cross-line positioning quickly locate the TMJ with one click

Automatic positioning and marking of the TMJ to meet diagnostic needs





## Implant Mode & Virtual Implant Placement

One-stop implant solution: Precise simulation for safer and more efficient clinical outcomes

### - Resolve the Challenges of Dental Implants Providing Comprehensive Diagnostic Support

Precise and detailed analysis of implant grayscale. Visualize the surrounding bone density of the implant to enhance the success rate of implant surgeries.



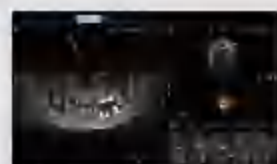
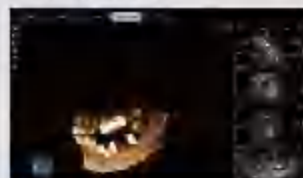
### - A Spectrum of Colors for Marking Unlock the Potential of Virtual Planting

Considering the diversity and complexity of clinical dental implants, the virtual implant model provides a variety of implant color markers. Meet the needs of dentists for implant color markers in dental implants.



### - Implant and Nerve Canal Collision Detection: Precise Protection for Patients

In the implant placement mode, after placing the implant at the target tooth position, the distance from the tip of the implant to the nerve canal is displayed, reducing the surgical risk of collision between the implant and the nerve canal.



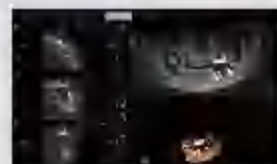
**STEP 1: Positioning**  
Select implant to get area in the 3D model using mouse operation.



**STEP 2: Mark**  
Accurately and clearly display the position of the mandibular canal, assisting doctors in efficiently marking the mandibular canal.



**STEP 3: Densitometry**  
Bone densitometry. Select the "Grayscale Analysis" from the right-side toolbar to perform bone densitometry in the implant target area. Alveolar bone measurement. Measure the width of the alveolar ridge areas and the distance from the neurovascular canal or maxillary sinus.



**STEP 5: Adjust Implant Positioning**  
Adjust implant positioning in the virtual mode with imaging views from the horizontal, coronal, and sagittal planes centered on the implant.



**STEP 4: Select the Implant**  
Select a suitable implant from the Implant Library by viewing detailed information on dozens of popular implant brands; then choose the implant site for simulation.



Ergonomic rubber-coated handle for comfort, stability and efficiency.



Thoughtful voice guidance makes it easy and convenient for patients to position themselves comfortably.

## Match the Appropriate Dosage Based on the Patient's Age

Optimized Positioning for Efficient Results

The system automatically adjusts dosage parameters based on the patient's age and also allows for self-adjustment as needed.



## Eighteeth's eCloud: Empowering Intelligent Imaging on-the-Go

### - AI Dental Reports: Intuitive and Comprehensive

One-click automatic generation of panoramic and cephalometric analysis reports. Clear diagnostic results reduce communication costs and enhance doctor efficiency.



### - Eighteeth's eCloud: Leading The Digital Dentistry 4.0 Era

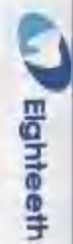
Cloud-based smart data connects devices, doctors, and patients, enabling real-time access to patient images within a local area network (LAN). Supports data backup and recovery, making image review and diagnosis easy for doctors.










# Eighteeth "Care+" After-Sales System

Reliable Operation with  
Real-Time Support



## Professional After-Sales Support

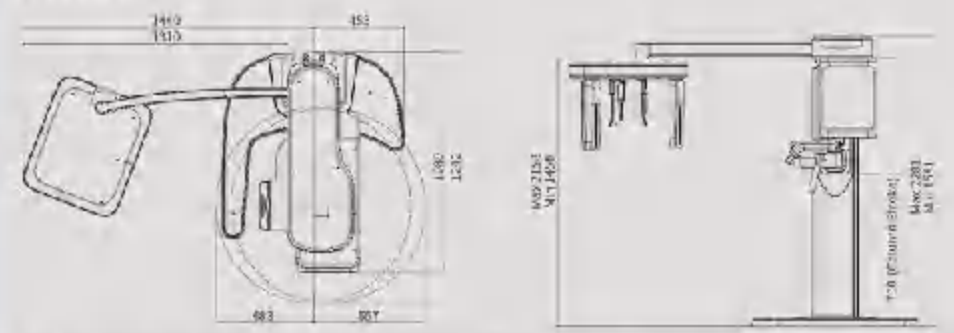
Eighteeth has a professional after-sales team and multiple customer service platforms available 24/7 year-round, providing expert and comprehensive support

-  Expert site planning recommendations
-  One-on-one expert training
-  Rapid online and offline support
-  On-site installation by appointment
-  Free remote software support

## Parameter Specifications

X-Ray Beam	Cone Beam	Patient Location	Standing
Tube Voltage Range	60kV~100kV	Patient Positioning	Height Positioning: electric lifting column Head Positioning: manual adjustment
Focal Spot	0.5	Controls	Laser Light: touch pad Exposure & Image Capture: workstation
Voxel Size (mm)	0.10, 0.15, 0.20, 0.25, 0.30		
Detector Type	CT& Panorams image	Device Dimensions	1893 x 1242 x 2281mm 74.5 x 42.9 x 89.8 inches
	Cephalometric image		
Image Grayscale	CT& Panorams image	Device Weight	220Kg/4851b (±10%)
	Cephalometric image		
Scan Time	CT image	Installation	Permanent installation
	Panorama image	Workstation	Operating System: Windows 11, 64-bit Memory: 16 Gigabytes RAM, or more
	Cephalometric		
Reconstruction Time	≤ 60s	FOV (CT)	4x4cm, 8x8cm or 16x10cm

## Product Size



Product longitudinal height range (mm)	1581-2281 (The overall liftable height range is 700mm)
Longitudinal column movement range (mm)	±600
Product Weight	220kg (Excluding outer packaging) Tolerance: ±10%





# Helios 500

Intraoral Scanner



## Why Helios 500?

Fit for your budget  
Affordable price with excellent performance

Say goodbye to manual calibration  
Automatic and adaptive calibration, free your hands

Enhancing digital workflow Maximizing patient comfort

Smaller, lighter, with better accuracy  
Ideal for patients with sensitive teeth. (\*featuring upgraded internal air duct.)



**Accuracy**  
Full-arch accuracy = 20µm | Single-tooth accuracy ≤ 10µm  
\*Accuracy results are from a third-party professional testing agency.



**Speed**  
Scan a full arch in less than 30 seconds with HELIOS 500



**Weight**  
Only 185 grams, one of the most lightweight scanners on the market, well-balanced, ergonomically designed, and easy to carry



**AI technology**  
AI technology filters the soft and moving tissues, offering users a smooth scanning experience and generating a natural-looking treatment outcomes



**Orthodontic Simulation**  
AI-powered automatic tooth alignment provides clear orthodontic before-and-after comparisons, helping doctors build patient confidence in treatment plans



**Undercut Detection**  
Effortlessly detect undercuts with a clear vertical view



**Natural Color Display**  
Enjoy the color closely matching natural enamel, enhancing the quality of scanning



**Remote Control**  
Easily rotate 3D models by moving the scanner. Just need a long press to activate and perform remote controls.



**Tooth Measurement**  
Measure teeth in a straight line for examinations and data analysis



**Margin Line Drawing**  
Support margin line drawing within the software and import into CAD software





## Helios 500

Anti-Fogging  
Powder-Free  
LED structured-light imaging



L 16mm x 14mm      S 12mm x 12mm  
2 optional sizes

Removable and 180° reversible tip



Button for switching the upper jaw, lower jaw and bite mode



Just one power cable needed  
Dismantle easily, Store effortlessly



Firm body design with durability

Detachable cable



Helios 500



### Shining Mode

Specifically designed for scanning metal or light-colored tooth mold, increasing the success rate of scanning, ensuring clear and accurate captures



### Model builder

Add bases to 3D models directly within the software, boosting efficiency for orthodontists and making it easier to save and share models



### Occlusion Analysis

Post-scan, verify if there's sufficient space for restorations and ensure accurate occlusal relationships



### Cloud Storage

Enjoy 100GB of cloud storage for free, enabling easy order sharing through Cloud

## Specification

Helios 500 \*Accuracy results are from a third-party professional testing agency.

Accuracy	Full-arch	20.0µm
	Single-tooth	<10µm
	Scan area	16 x 14mm (L) 12 x 12mm (S)
Handpiece	Dimension	217x54x24mm
	Weight	185g
Tip	Tip size (front part)	22 x 18mm (L) 18.6 x 16.7mm (S)
		Length
Connectivity	Type	USB 3.0
	Accuracy calibration	Calibration-free
Calibration	Color calibration	Calibration-free
	Advanced Mode	Remote control
Data	Output format	STL/PLY

### Recommended System Requirements

Processor	Intel®Core™ i7-12700H Generation, base frequency 2.4 GHz (or better)
Memory	16GB (or more) DDR4, frequency 2666 MHz (or better)
Hard Drive	512GB (or more) SSD
Graphics card	NVIDIA®GeForce® RTX 3050 (or better)
Display	15.6" FHD (1920 x 1080) (or more)
Others	USB 3.0 port
Operating system	Windows 10/11

Helios 500



# Helios 680

Intraoral Scanner



## Flagship-Level Upgrade

- Performant**  
16µm intraoral full-arch precision, 8µm single tooth precision, 30fps frame rate  
Enjoy the smooth precision of scanning
- Renewed**  
Graceful curves with refined matte finish
- Lighter**  
161.5g total weight, lighter than ever and easy to hold
- Cloud-upgraded**  
Powered by AWS cloud with worldwide coverage, lower latency & greater reliability  
Enhanced performance for efficient cloud management
- Real**  
24bit color bits, feel the real color of teeth  
Better patient understanding, easier lab color matching
- Manualless**  
Automatic and adaptive color and accuracy calibration  
No manual calibration required

## Intelligent

Intelligent operations for efficient workflow



Ortho simulation



Model builder



Occlusion analysis



Shining mode



Remote control



Margin line



Mark tooth



AI optimization



Measurement



Cut



Scanner state




Undercut check




IO camera






**Convenient:** 

removable & 180°reversible tip

**Durable:** 

withstand 100 sterilization cycles

**Oral-friendly:** 

improve patient comfort with a smooth, rounded tip design

**User-friendly tip**

Powder-free

No heating required

LED structured-light imaging

**Duct optimization**

Enhanced anti-fogging for improved precision

**New body design**

Firm body design with durability

Fresh look with ergonomic design

for easier using

**Plug & scan**

with only 1 power cable

Helios 680

## Specification

### Parameters

Accuracy	Full-arch	16.0µm
	DOF	18mm
	Scan area	16 x 14mm (L)*3
12 x 12mm (S)*1		
Speed	FPS	30fps
Connectivity	Length	1.8m
	Type	USB 3.0
Calibration	Accuracy calibration	Calibration-free
	Color calibration	Calibration-free
Advanced Mode	Remote control	✓
Data	Output format	STL/PLY/OBJ

### Recommended System Requirements

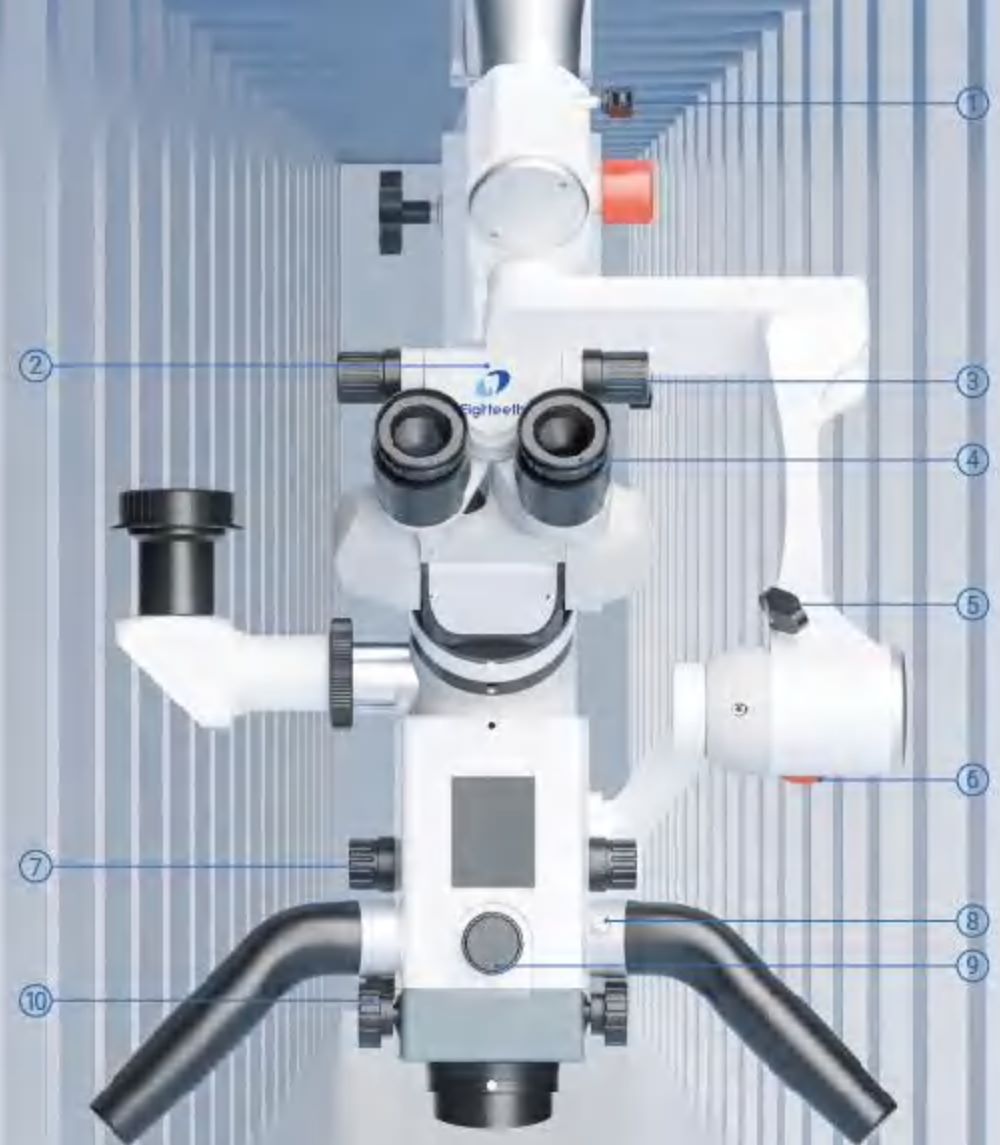
Processor	Intel®Core™ i7 12TH Generation, base frequency 2.4 GHz (or better)
Memory	16GB (or more) DDR4, frequency 2666 MHz (or better)
Hard Drive	512GB (or more) SSD
Graphics card	NVIDIA®GeForce®RTX 1650 (or better)
Display	415.6" FHD (1920 x 1080) (or more)
Port	3.0 high-speed port
Operating system	Windows 10/11

Helios 680



# Acuvision X

Surgical Microscope



- ① Microscope left and right balance locking knob
- ② 0-210° binocular tube
- ③ Interpupillary distance adjustment knob
- ④ High Eyepoint Wide-Angle Eyepiece
- ⑤ Front and back balance locking knob
- ⑥ Microscope front and back balance adjusting knob
- ⑦ 6-steps manual magnification knob
- ⑧ Photo/Video Button
- ⑨ Multi-function switch: Switches lighting modes, brightness can be controlled by rotating, and the external camera's power supply voltage can be adjusted by pressing
- ⑩ Spot size adjustment knob

## 24mm Stereo Base

- Perfectly fits the observation of human eyes, and obtains observation images with richer layers

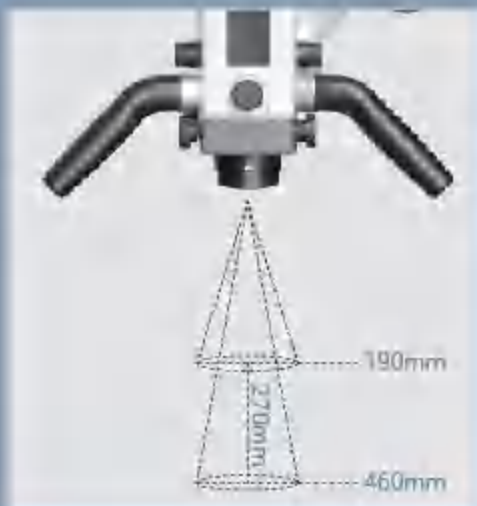
## Manual 6-Step Apochromatic Magnification Changer, Mag. Ratio 1:9

- Magnification Ratio: 2.6X, 3.9X, 6.3X, 9.8X, 15.7X, 23.5X (12.5X eyepiece, WD=190mm) 1.3X-23.5X (12.5X Eyepiece, Various focus objective (VaroF™) : WD=190mm-460mm)



## 0-210° Inclinable Binocular Tube

Provides more possible operating positions, ensures that doctors always maintain an upright sitting posture



## Large Focal Length Adjustment Range. Larger Field of View, See More Details

- Working Distance Range: 190-460mm
- Field of View Range: 9.6-167mm
- 12.5X Eyepieces
- Various Focus Objective (VaroF™)
- WD=190mm-460mm

## Multi-Mode Augmented Visualization LED Illumination

### High-Quality Professional Medical LED Light Source

- Uniform illumination, sharp edges, steplessly adjustable spot size
- Light brightness > 80,000 lux,
- Color temperature 5,700K,
- Color rendering index > 90,
- Light source lifespan > 60,000 hours

### Steplessly Adjustable Illumination Spot Size

- Adjustment range: 9.7mm - 210mm
- Meets the needs for different specialties and surgical procedures in clinical settings regarding the size of the illuminated spot

### Electric Multi-function Adjustment Knob

- The knob integrates continuous brightness adjustment, filter position switching, camera power supply output voltage control. All in one, convenient and easy to use





## Video System

- Canon or DSLR or Sony Camera Adaptors(optional)  
The adaptor is compatible with mainstream Canon, SLR cameras, and Sony mirrorless cameras



- DSLR or Sony Camera Power Supply  
Port output voltage: 8V2A/9V3A, suitable for all main cameras on the market



- Ergo Handgrip Integrated with Photo and Video Control Button  
Comfortable grip and autoclavable



- Display Mount  
Preseted mount for display arm. The display arm can be installed on column as well on the Swivel arm. Two sockets for HDMI output supported at the same time



## Bracket System

- Pendulum Function  
30° Optical Extender integrated with 20% : 80% Beam Splitter and Rotate Ring, allows the user remain in an upright viewing position when the direction of the optic pod is changed within  $\pm 25^\circ$



## Bracket System

- Ultra-long Arm Span  
Total arm span  $\geq 1600\text{mm}$ , more freedom of installation



- Concise Design  
Power cables, data cables, and video cables are all arranged in the cross arm, without too many exposed cables;

- Float-Free™ Balance Arm  
Float-Free™ scroll spring type damping strength adjustment, ultra-light, smooth and balanced, one-handed operation, stop at any position; Left and right  $\pm 60^\circ$  tilt, pitch  $-30^\circ \sim +60^\circ$ , vertical  $330^\circ$  rotatable.

- LCD Screen  
Integrated central LCD display can show the filter position, brightness and output power voltage for camera



- Built-in LED Position Switch  
Built-in position switch, save energy and prolong the service life of LED  
The light source turns off in the top position, and when down the light source it turns on





## Tech Data

<b>Microscope System</b>		
Magnification Changer	Apochromatic 6-step manual Magnification Changer, Mag. Ratio 1.9, Stereo Base 24mm	
Eyepiece	12.5X/18 wide field eyepieces, ±7D diopter adjustment with screw in-out eyecup	
Binocular Tube	0-210° binocular tube, f=182mm, with PD adjustment knob. PD adjustment range: 51-76mm	
Objective	Manual apochromatic objective with various focus WD from 190mm to 460mm, side focus adjustment knob with single finger control, 1 lens protective cover included	
<b>Illumination System</b>		
Light Source	Built-in long-lasting LED light source with adjustable brightness. At least 90,000 lux @WD=190mm. LED life time≥60,000h, CRI of ≥90, color temperature 5700K	
Illumination Spot Adjustment	Illumination spot size continuously & manually adjustable from 9mm to 95mm @WD=190mm	
Filters Adjustment	Filters: orange/green/white/true light/no glare (polarized light), electric switching adjustment, filter information displayed on the central LCD screen	
<b>Stand System</b>		
Base	Floor mount, base size 680 x 680mm, with detachable counterweights for easy installation, equipped with four 360° lockable swivel casters to prevent cable tangling	
Slewing Arm & Lifting Arm	360° rotatable slewing arm & 340° rotatable lifting arm, with ±400mm height adjustment. Built-in position switch for LED light source and central LCD. Fall prevention and rotation adjustment included. Total arm reach±1600mm	
Balanced Arm	Vertical 340° rotation, torsion spring worm gear damping adjustment, smooth balance with lock at any position; ±60° left-right tilt, -30° to +60° pitch	
Robust Column	Square aluminum alloy column with dual handles	
<b>Video System</b>		
Integrated Video System	Built-in integrated 1080P full HD camera module with HDMI interface, image horizontal and vertical flip, and support for 64GB USB 2.0 storage	
Optical Extender Integrated Monolateral Beam Splitter	30° optical Extender integrated with Beam Splitter monolateral 90/20	
Rotating Ring	No obstruction in the maximum vision field of view when rotating within ±25°	
DSLR Adaptor	APS-C Nikon/Canon DSLR Adaptors	Optional
Mirrorless Camera Adaptor	Sony α5000/α6000/α7000 series camera adaptors	Optional
Smartphone Adaptor	360° adjustable, compatible with mainstream smartphones	Optional
<b>Control System</b>		
Control Knob	Central control knob for continuous brightness adjustment and electric switching between 5 filter positions. The central LCD shows filter position, brightness, output voltage, and other information	
Handles	Bilateral decurved Strong handles, 360° rotatable, integrated with button for pictures and videos	
External Power Supply	Adjustable voltage DC output Type-C port for powering external camera or smartphones; two voltage settings adjustable via the central control button	
<b>Display Accessories</b>		
Display Mount Systems	360° rotatable slewing and lifting display arm, mounted on the first horizontal arm via a support adaptor	Optional
Display Mount and Column Connector	360° rotatable swivel and suspension display arm, mounted on the column via a support adaptor	Optional
Display	1080p/2K/4K HD display (recommended 24-inch, with four standard M3 screw holes on the back)	Optional







# Brilliance

Dental Loupes

Frame Material: AlMg, TR90

Frame Color:  



## Lens

- Schott Glass  
Ensure high resolution, clear and sharp field of view
- Refined lens coatings  
Multi-layer coating technology, Anti-fog, Anti-scratch, Anti-glare, to ensure more visible light through the glass



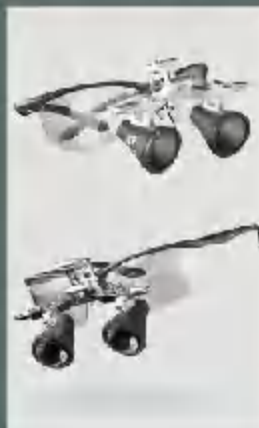
## Body

- Aerospace-grade aluminium magnesium alloy  
Our loupes are exceptionally high strength and light
- Intelligent damping torque effect  
Easy to adjust and with excellent stability
- Asynchronous PD adjustment  
Laser printed scale lines, accurate and intuitive



## Frame

- Super light frame  
Ergonomic design with optional materials and colors
- Protective shield  
Besides protective shields, prescription lenses can also be fitted by an optometrist



## Two Options

Both can be quickly and accurately reset after flipped-up without extra adjustment. Get into the next use immediately, and greatly improve the work efficiency.

Two hinges type



Three hinges type



## Your ideal first pair of Loupes!

Magnification	Working Distance	Field of View	Depth of Field	Net Weight
3.0x	350 mm	68 mm	≥90 mm	71g
	400 mm	76 mm	≥100 mm	71g
	450 mm	84 mm	≥115 mm	71g
	500 mm	92 mm	≥135 mm	71g





# Brilliance

## Business Dental Loupes

Frame Color: ● ●



### Specification:

Model	Type	Hinges	Magnification	Working Distance	Field of View	Depth of Field	Net Weight
ibG30400/S	Flip Up	2 hinges type /3 hinges type	3.0x	400 mm	76 mm	±100 mm	71 g
ibG30450/S	Flip Up	2 hinges type /3 hinges type		450 mm	83.5 mm	±115 mm	
ibG30500/S	Flip Up	2 hinges type /3 hinges type		500 mm	92 mm	±135 mm	



### Upgrade the fixed way of protective shields, easier to replace prescription lenses quickly



Switch freely between working vision and daily vision  
The curve of protective shield upgrades from former 600C to flatter 400C now, adopting the fixed way of the fishing line. Dentists can replace it with prescription lens in the optical shop.



More accurate working distance option  
Prescription lens eliminate the shortening of actual working distance caused by myopia, and dentists can more accurately choose the suitable working distance that matches their height and arm length.



### Lens

- Schott Glass  
Ensure high resolution, clear, achromatic and sharp field of view
- Refined lens coatings  
Multi-layer coating technology, Anti-fog, Anti-scratch, Anti-glare, to ensure more visible light through the glass



### Body

- Aerospace-grade aluminium magnesium alloy  
Light and durable, magnifying lens weigh only 45g  
No pressure after long time wearing
- Asynchronous PD adjustment  
Laser printed scale lines with 0.5mm pitch, accurate and intuitive



### Frame

- New ergonomic frame design  
Better fit to face, wear comfortably and without stress
- Upgrade in texture  
Adopt sandblasting craft on the frame, silky smooth
- Upgrade in mirror bracket  
Fixed tail rod design, more solid and safer



### Considerate hinge design



Easy for multi-angle operation, effectively easing shoulder and neck fatigue





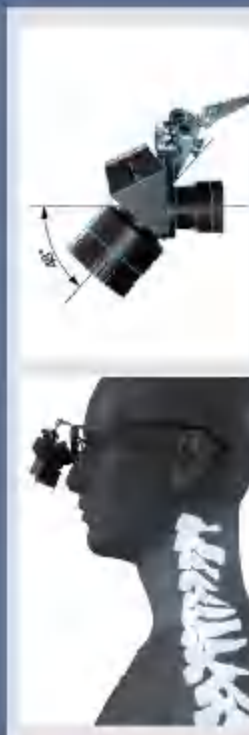
# Brilliance 48°

Dental Loupes

Frame Color:  



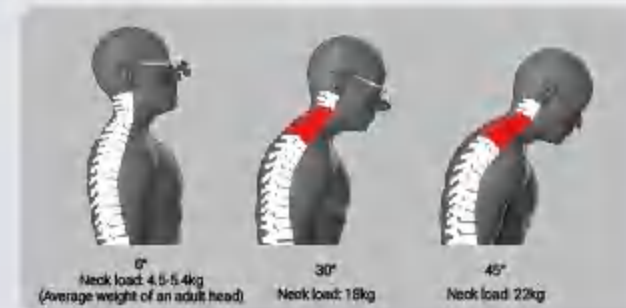
- Magnification Ratio : 5X, Various 4.9X-5.6X
- Working Distance : 450mm, Various 274mm-1088mm
- Pupil Distance : Separately Adjustment, 52-75mm
- Weight : 94.6g(with frame)
- Field of View : 73mm, Various 40mm-179mm



## Ergonomic Loupes

**No need to bow your head and bend over, relieve shoulder and neck fatigue and prolong dentist's career**

According to research reports, 80% of dentists will have back and neck pain within 12 months. This is due to dentists working with unnatural head positions long time, which puts extreme pressure on the spine. Over time, this can cause irreparable damage to the health of dentists



## Refractives protect your neck

Benefited from the unique structure design, Brilliance 48° deflects the optical path of the loupes 48 degrees down, prevents the user from needing to hunching their neck and back forward

## Wide field of view and 4.9X-5.6X variable magnification

- Incredible full arch even with 5x magnification
- See every detail of the whole mouth

## Variable Magnification(with WD adjustment)

WD(mm)	Mag.	FoV(mm)
300	5.54	41
350	5.40	59
400	5.30	57
450	5.21	65
500	5.16	73
550	5.11	81

- Advised Mag.: 5.11X-5.54X, corresponding 300-550mm WD & 41-81mm FoV



## Independently Adjustable Focus

- The left and right focal lengths are individually adjustable
- One pair of loupes can cover from 300mm to 500mm(WD)
- Especially suitable for dentists with different vision in left and right eyes

(When the vision difference between the left and right eyes is too large, it is recommended to use it after correcting the vision.)







### Flip-Up

The Flip-Up function can bring unobstructed vision and eye contact with your patients. Can be quickly and accurately reset after flipped-up without extra adjustment



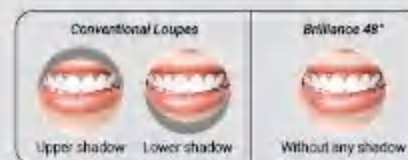
### Reduce eye fatigue with asynchronous PD adjustment

PD can be adjusted independently, which helps to better guide the eyes and make the eye position more natural, and increases the comfort of the doctor and reduces eye fatigue caused by long-term surgery



### Adjustable pupil height

Make sure that there are no shadows above and below the field of view



### Clear and Sharp edge of the view

Say goodbye to vignetting and blurred edges



### Schott Glass and Multi-layer coating technology

Ensure greater penetration of visible light, anti-fog and protect the lens



### Aerospace-grade aluminium magnesium alloy

Exceptionally high strength and light

### Lenses can be easily replaced with myopia lenses

Easy replacement of lenses because of fishing line fixing method, smooth surface of the frame because of sandblasting



### Wireless Z Headlight easy Mount

Reserved space in the frame for Eighteenth future wireless headlight





# Brilliance 48° Pro

Dental Loupes

Effortless Imaging, Pro-Level Wearing

Frame Color: ● ●



Magnification Ratio	5x
Working Distance	350mm-400mm, 400mm-450mm, 450mm-500mm, 500mm-550mm (optional)
Pupil Distance	52-76mm (individually adjustable on both sides)
Weight	14.3g (with frame)
Field of View	49mm-57mm, 57mm-65mm, 65mm-73mm, 73mm-81mm

\*Adapted to Elalitech wireless headlight



## Unique Optical Structure: Free Shoulder & Neck

- Innovative optical structure designed to deflect the optical path of the dental loupes downward by 48 degrees
- Keep the back and neck in an upright position, effectively protecting spinal health

\*Research indicates that prolonged periods of working with a bent neck and back can place immense pressure on the entire spine, leading to disc wear or tears, which have lasting implications for a doctor's health over time



## New-Updated Imaging; No Complex Adjustments

- Brand new optical structure: Optimized lens and frame design for a broader, clearer field of view

## Revolutionary Nose Pad Design: Pro-Level Wearing Experience

- Come with two adjustable nose pad to meet clinical needs in one magnifier



- Wide & soft rubber nose pad
- Embedded pre-bent steel strip
- Adjustable height
- Easy nose bridge adaptation



- Direct attached nose pad
- Direct wear without the need to remove prescription glasses
- Eliminate errors caused by eye prescription
- Ensure precise working distance

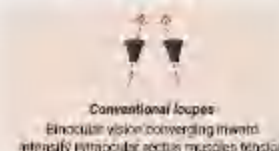
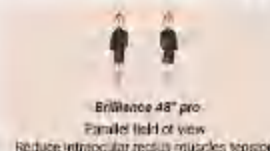
## Newly upgraded frame for easy lens customization

- Detachable eyeglass frame for quick lens swapping



## Flexible focus & pupil distance adjustment to prevent eye strain

- The pupil distance can be adjusted separately, coordinating the vision of both eyes and alleviating eye fatigue caused by visual convergence
- The focal length can be independently adjusted, effectively resolving image blurriness caused by differences in vision between the left and right eyes, thus reducing focus pressure on the eyes



## 5x magnification; all oral details at a glance

- Provide 5x magnification and up to 81mm of maximum field of view

## Clear vision for precise dental procedures

- Optimized achromatic optical path design ensures superior color correction capabilities
- Schott glass provides enhanced penetration of visible light, resulting in clear and high-quality images



Brilliance 48° pro



Conventional loupes



# Softouch

Surgical Headlight



## Specifications

Lamp Diameter	18.5 mm	Battery Type	Li-Ion
Lamp Length	36.5 mm	Battery Capacity	3350 mAh, 3.7 V
Lamp weight	8 g	Charging Time	4 hours
Brightness	35000 lux	Battery Life	≥11 hours (with maximum brightness)
Color Temperature	5000 k	Adapter Input	100-240 V, 50/60 Hz, 0.2 A
CRI	90	Adapter Output	5 V, 1 A
Power	1 W	Power Box Weight	145 g



### Super Light

Made by aviation grade aluminum, only weighs 8g.



### Top Class Light Source

True color, and maximum brightness up to 35000 Lux.



### Ultra-long Battery Life

Can keep illuminating for 11 hours with maximum brightness.



### Safe to Use

High-level short-circuit and open-circuit protection. Power box clip to belt or pocket.



### Touch Control Design and Stepless Dimming

Touch bottom clip to collar or chest pocket, avoid shaking



Short touch to turn on/ off the light, long press to adjust steplessly the brightness.

Wired headlight reduces the weight on the bridge of the nose, providing dentists a durable and comfortable experience.

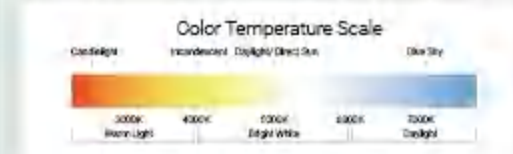
### CRI 90

Reveal true color, and improve safety as a result of increased visibility



### Color Temperature 5000K

Close to the color temperature of sunlight, can reduce eye fatigue in long surgery



### Edge to Edge Clarity, and Flicker Free

Fascinating optical design and high quality light-source make the light spot more uniform and soft. Flicker free avoids eye fatigue after long-time usage, and limits the damage to eyes.



Softouch



Manufacturer A



Manufacturer B





# Wireless Z

## Wireless Headlight

Total Weight:	27 g
Battery Capacity:	550 mAh, 3.7V
Charging Time:	Single charging - 1.4 h; Dual charging - 2.6 h
Battery Type:	Li-ion
Adapter Input:	100-240 V 50/60 Hz, 0.2 A
Adapter Output:	5 V 1 A
Lamp weight(including adaptor):	12 g
Battery Module:	15 g

Compatible with Eighteenth Brilliance Series Loupes  
(Optional: customized connection with specified other Brand loupes.)



### Wireless

Enjoy a smooth work experience with cable free and stable lithium battery



### Brightness Memory

Automatically adjust to brightness when last powered off to reduce adjustment time and improve work efficiency



### Battery Status Indicator

Built-in battery status indicator flashes when the battery is low



### Super Light

Weigh just 27g (battery, headlight, filter included) and sit on the frame's upper edge for reducing nose bridge pressure



### Touch Control Design and Stepless Dimming

Sensitive touch technology can be used with gloves



### Time-saving

Magnetic connection for quick attachment



## Powerful battery Ensure Uninterrupted Surgical Illumination

### Long-lasting

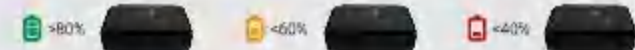
Sustain maximum brightness for up to 2.5 hours per battery  
Package comes with two rechargeable batteries

### Fast

Amazing charging speed can largely save your time  
(Single charging for 1.4 hours and double batteries for 2.6 hours.)

### Convenient

Built-in battery charge indicator. Magnetic positioning for swift and easy charging



## 124mm

### Light Spot at 450mmWD

Providing clear and uniform illumination that effectively lights the entire arch with new optical design.



## Up to 35,000 LUX

Even edge-to-edge and same light intensity spot to ensure clarity

## CRI ≥ 90%

Restoring true colors with imported industry-leading medical lighting LEDs







# MotorSurg

Dental Implant Unit



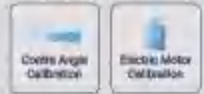
### Powerful & Precise

- German Bearing & Powerful Motor  
5N.cm-80N.cm torque and 200rpm-40,000rpm speed provide high performance.

- Real-time Torque



- One-button Calibration



- LED Contra Angle



### Safe & Stable

- Stable under high torque  
Ultra low speed available
- Surgical parameters can be preset to avoid misoperation.
- Smart error reminder, effectively guiding users to solve common problems in surgery.
- Visualization of surgical procedures, guide users to do surgery and improve the success rate.



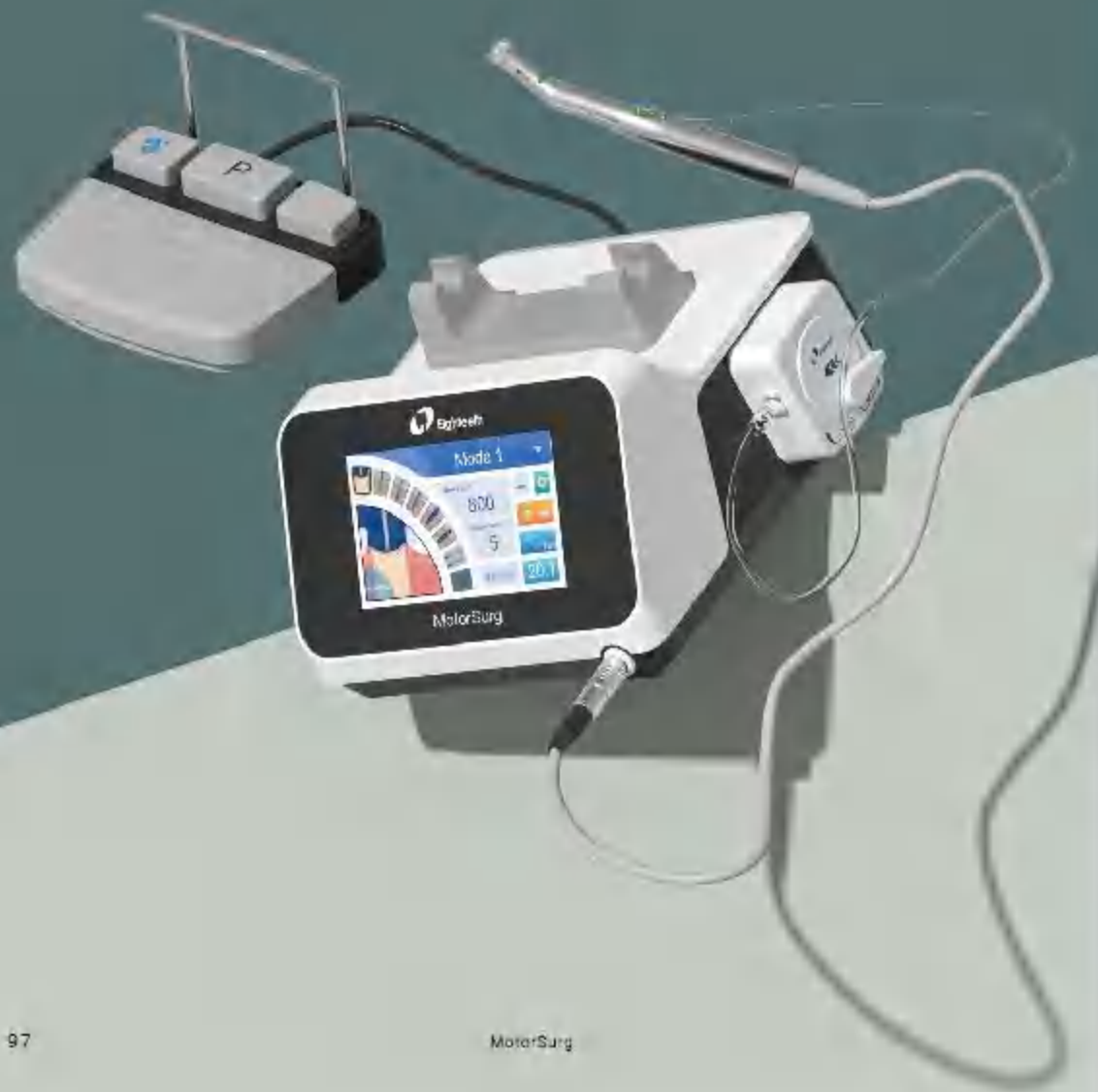
### Strong Contra Angle

- Adjustable brightness helps surgery more clearly and precisely.
- Put the water inlet on the bottom.



- \* Useful: avoid scratches when disassembling.
- \* Comfortable: there is no water pipe at the front of the contra angle, which takes up less space in the mouth and makes the patient more comfortable.

- Ergonomically designed and well-balanced
- Comfortable to hold without fatigue
- Detachable
- Durable



### User-friendly

- LED color touch screen:  
Simple interface, intuitive,  
sensitive and easy to use.



- 8 modes:  
Enter the surgery quickly and dentist can  
set parameters and customize the mode.



- Data recording  
Data can be downloaded and  
analyzed by USB flash disk.



- ① Start/stop button
- ② Water volume control button
- ③ Program switch button
- ④ Forward/reverse switch button

### Multi-functional foot pedal

- Intelligent, user-friendly and aseptic operation  
- Compared with other brands, Eighteenth foot pedal can be  
started by stepping on only 2mm, which is more sensitive



### Quiet water pump

High performance: maximum water volume can reach 130ml/min  
Adjustable water volume.  
Simple connection

### Specifications

Speed(rpm)	200-40,000
Torque(N·cm)	5-80
Max. pump output(ml/min)	130
Program	8
Screen	LED color touch
One-button calibration	Yes
Light	White LED
Luminance(lux)	Over 32,000
Length of motor cable(m)	2
Volume(cm)	24x26.5x15
Weight(kg)	3.65
Power supply	220-240V & 100-120V 50/60Hz





# E-FLOW

## Dental Anesthesia Device



### Painless performance

- Patented Hydraulic Drive Technology**  
High-precision sensor is used for more precise control, the injection pressure is just hydraulic pressure.
- Smart Voice Reminder**  
Timely voice reminders under low anesthesia dose and high system pressure (in PDL mode), which is safer and more secure.
- Real-time Dynamic Pressure**  
The real-time injection pressure is displayed through the pressure value and pressure histogram, bringing a painless and safe treatment.
- 4.3" Touch Screen**  
Visualization of various functions, bringing sensory experience of visual interaction.
- High-precision Liquid Control**  
Not only can achieve precise drug delivery accuracy, but also can see the realtime remaining dose.

Patent Number: 25, 3022 1,841,095A

### 4 injection modes, multiple options for effective pain relief

**Normal**

**Fast**

**PDL**

**Dosage**

**PDL Mode (periodontal ligament)**  
Automatic injection can be selected in this mode

**Dosage Mode**  
Free choice of injection dose, making the injection more stable and precise

### Handpiece

- Autoclavable Container**  
Prevent cross-infection, safe and economical
- Aspiration**  
Prevent swelling and pain caused by excessive liquid
- Lighter and Smaller**  
Only weighs 40g, easier to operate

### Foot Pedal

#### Intelligent Foot Pedal Control

The injection flow rate can be switched by pressing the foot pedal to the "front section" or "back section" of the stroke

### Specifications

Model	E-FLOW
Weight	: 1.8kg±10%
Handpiece weight	: 40g
Injection mode	: Normal, Fast, PDL, Dosage
Injection speed	: Slow (0.3ml/min) Medium (1.7ml/min) Fast (3.5ml/min)
Battery capacity	: 2600mAh










# MotorTurbo & E-Asp 1

Electric Motor and  
1.5 handpiece



- Strong cutting power and stable torque output
- 4 memory program presets monitor speed and direction
- 4 transmission ratio presets offer the versatility to choose the right system to fit your treatment needs
- LCD touch screen and color display provide an intuitive user interface to reduce time spent making adjustments
- The standard four-hole connector of main unit suitable for all types of dental chairs
- Reliable security alarm system



-  Light intensity adjustment
-  Forward/ Reverse
-  Memory programs switching (M1-M4)
-  Speed adjustment
-  Transmission ratio presets (1:5 1:1 16:1 20:1)



- Long-lasting brushless motor with a cooling system**
- **More comfortable**  
A strong cooling system provides patients with a comfortable temperature in treatment
  - **Longer lifetime**  
Brushless DC motor lifespan is approximately 6 times higher than the counter brushed DC motor
  - **Quieter**  
Produce comparatively low operating noise as compared to other motors of the same ratings
  - **More efficient**  
A very compact and small-sized brushless DC motor provides maximum torque continuously during rotation



#### LED fiber optics

- Shines light directly during the preparation, improving visibility tremendously
- Reduces visual fatigue and stress



#### Durable components

- Achieve long-lasting performance through repeated sterilization



#### Ergonomic design

- Enhances grip for better control



#### Multi-port spray

- Keeps the bur cool while whisking debris

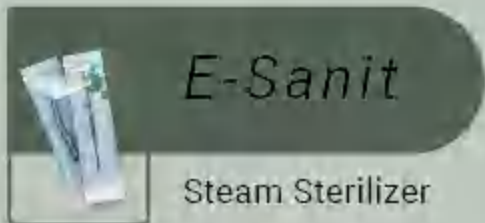


#### Super strong push button chuck system

- Enhanced bur retention and long-lasting reliability
- Time saving and quick bur change

### Specifications

Electric Motor		High-speed Handpiece	
Model	MotorTurbo	Model	E-ASP1
Display	LCD colour display	Maximum allowable motor speed(rpm)	40000 rpm
Dimension main unit	130 x 129x 54 mm	Ratio	1:5
Weight	600 g	Motor connector	Comply with ISO 3964
Memory programmes	M1-M4	Chuck type	Push-button chuck
Transmission ratio presets	1: 5 1: 1 16: 1 20: 1	Bur dimension	Bur shank Ø 1.6 mm
Motor speed range	2000-40000 rpm	Optical fiber	Light guide glass
Motor torque	Max. 3.0 Ncm	Cleaning/Sterilisation	Steam autoclave up to 135°C
Power cable length	1.5 m		
Motor tail wire length	2 m		



**Intelligent**



**Patented anti-siphon technology**  
Prevent secondary pollution by blocking liquid backflow  
Patent Number: ZL 20211034447.9



**6.15" large screen**  
User-friendly LCD touch panel showing real-time data accurate to 1 kPa



**Intelligent water detection**  
Automatic reminder for water shortage and substandard water quality with built-in sensitive sensor



**Smart electric door**  
With guaranteed dual-locking system



**Efficient**

- Flexible customization of sterilization cycles  
Tailor sterilization and drying time to achieve optimal results
- More convenient with large water tank
- 8 programs meet diverse user needs while ensuring the utmost effectiveness  
(A complete sterilization in just 30 minutes in the rapid mode)



**Stable**

- Dual Overheat Protection  
Automatically stop heating to prevent equipment from overheating with dual sensors detecting abnormal temperature changes



**Precise**  
Continuous temperature and pressure monitoring with imported NXP and high-precision PT1000 sensor



**Durable**  
A long-lasting Italian electromagnetic pump for reliable sterilization



**Safe**  
Real-time pressure monitoring. Automatically open to release pressure when limit is surpassed



**Replaceable**  
Effortlessly replaceable air filter that filters 99% of suspended particles

- Built-in Printer (Optional)  
Take up less desk space and ensure two methods for data storage

**Specifications**

Model	Power rating	Sterilization room volume	Sterilization room size	Size	Weight
E-Sanit 18	AC220V/50Hz	18L	φ254*355 mm	620*421*500mm	46kg
E-Sanit 23	AC220V/50Hz	23L	φ254*455 mm	620*421*500mm	49kg