

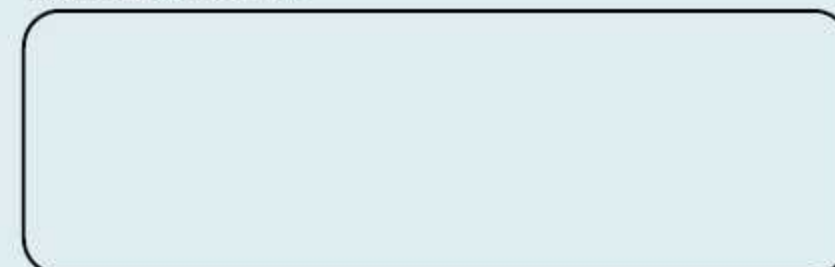


**Innovate
Dentistry
With
Eighteeth**

www.eighteeth.com

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CATALOG

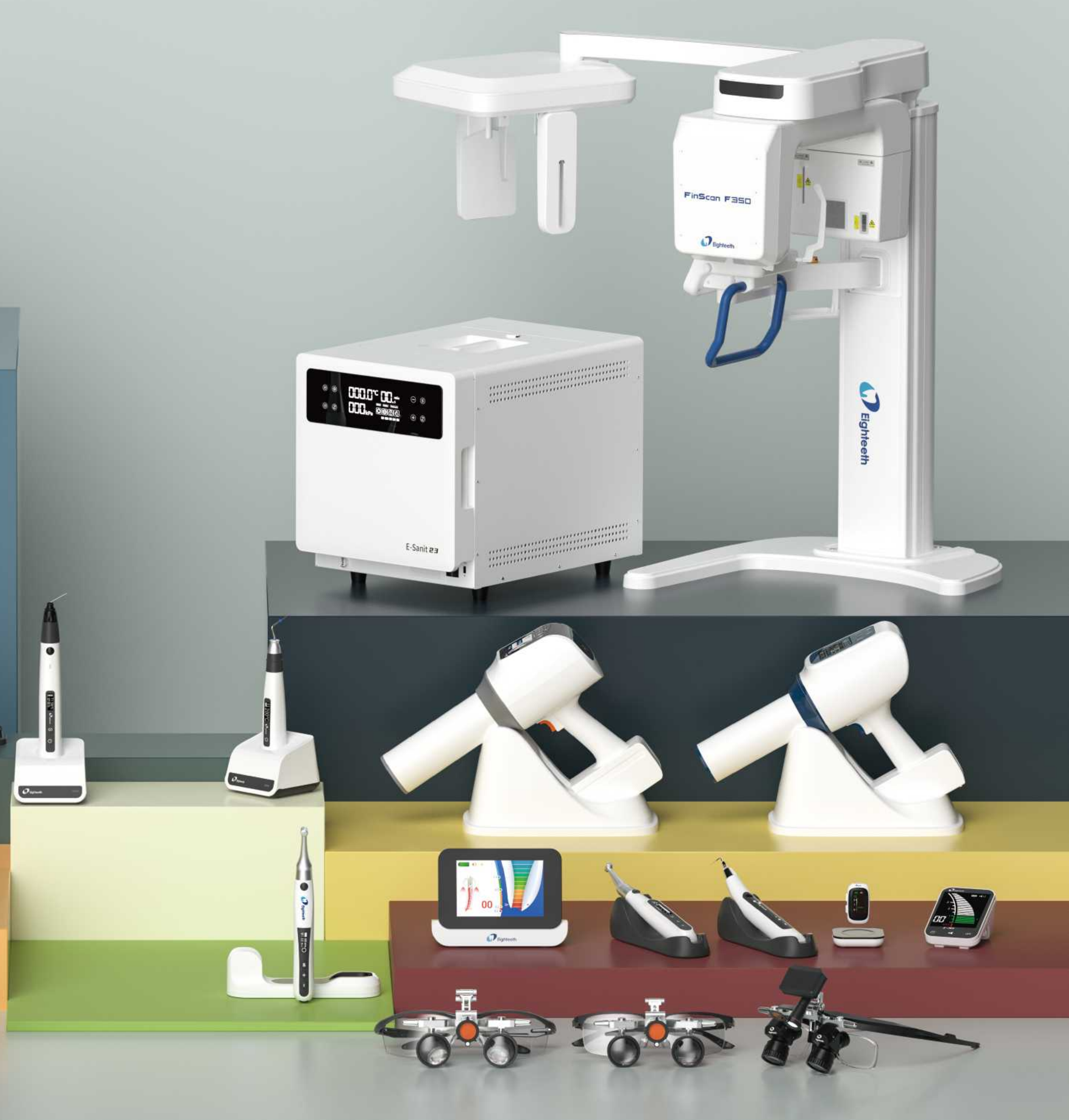
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FindPex

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

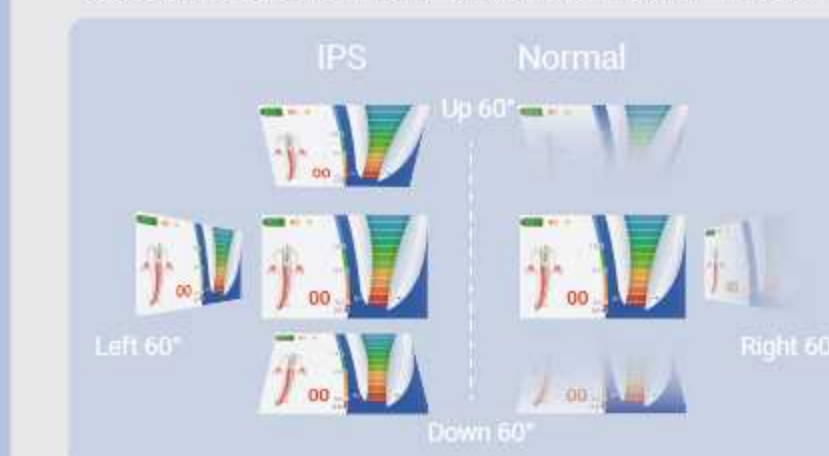


Personalized Customization

- Personalized background & Sound recognition
- 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

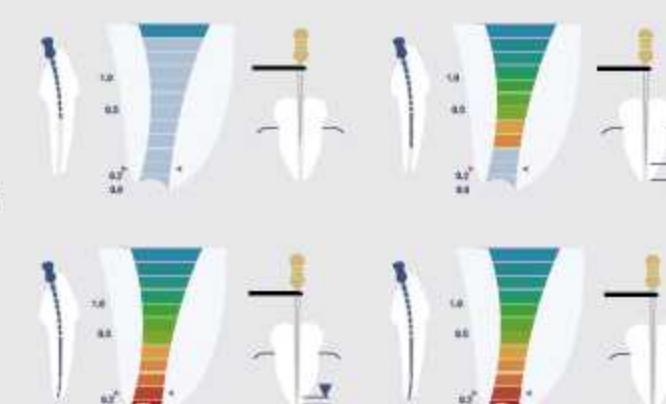
- Screen visible from any angle: 3.5-inch TFT color screen and IPS technology



- Upgraded touch buttons

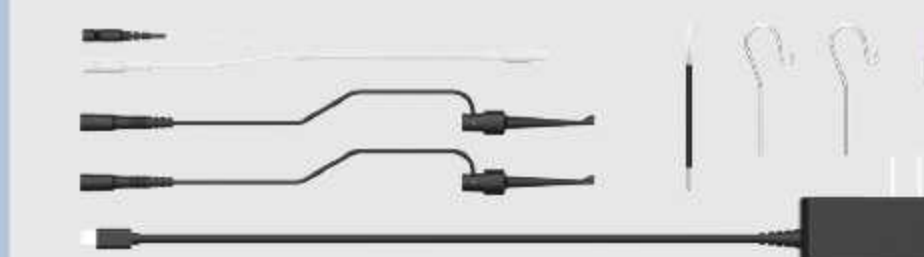
Intuitive Operation

- 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 & biomimetic-silica-wrapped file clip





E-PEX

Smart Apex Locator



Integrate Endomotor with Apex Locator (Connect Function)




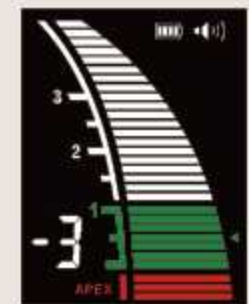
-  Auto Start & Stop
-  Apical Reverse
-  Apical Slow Down



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	1 2	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



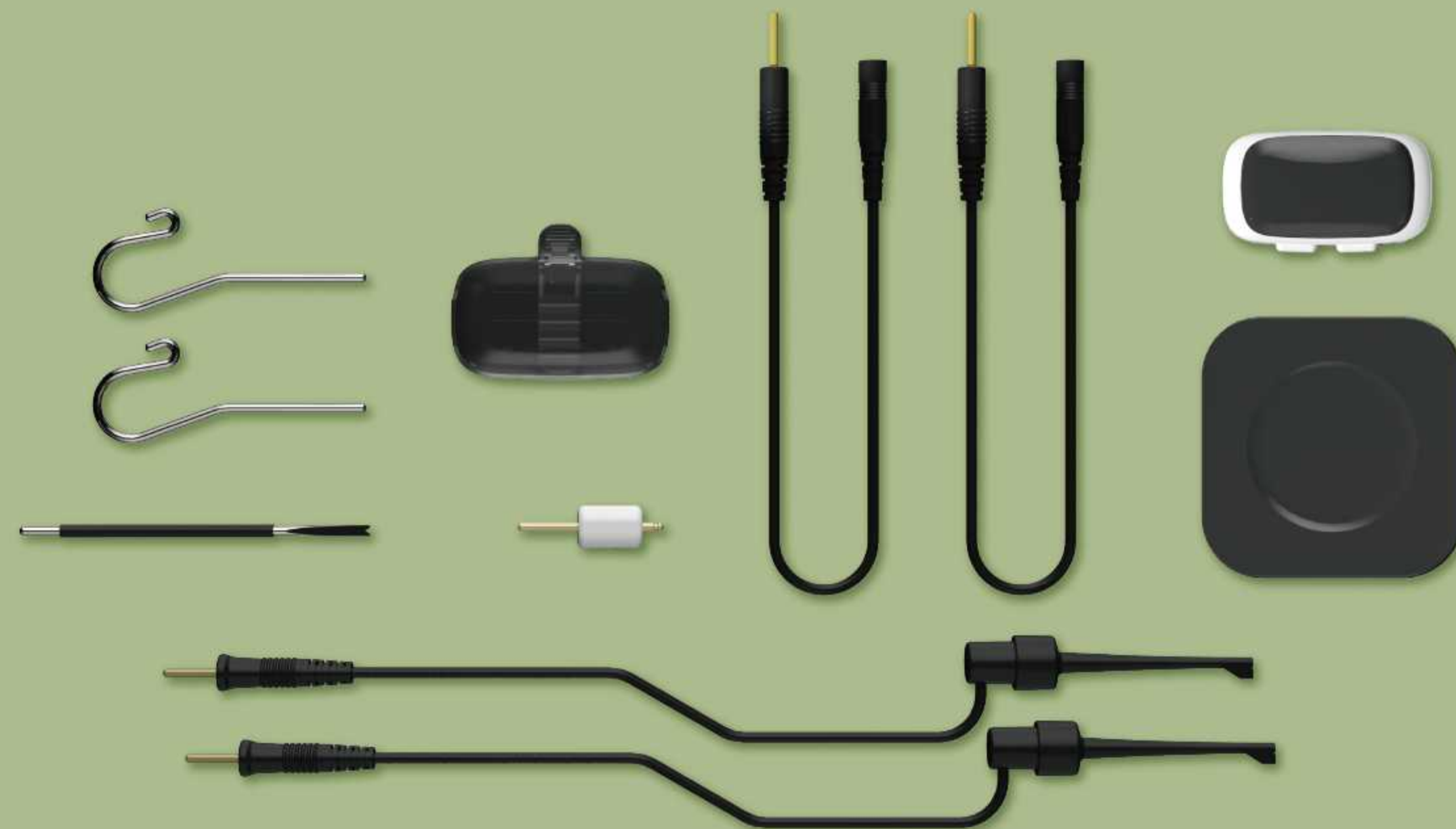
Feel the Charm of Wireless Charging

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



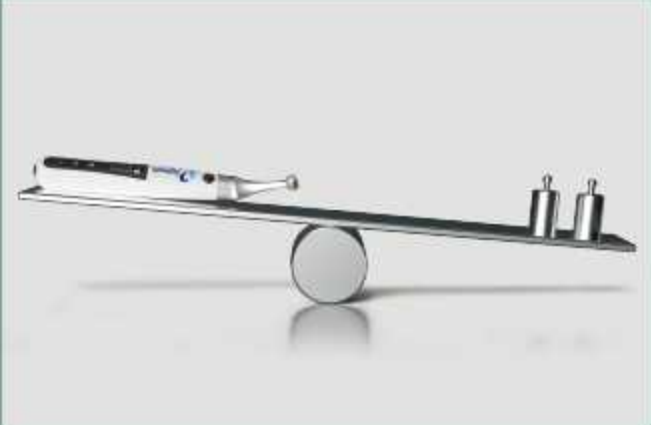
– Miniature contra-angle Super Mini head & thin neck



– 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




30°/150°




150°/30°




180°/30°



210°/30°



250°/30°
- 

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)

- RPM Maximum Speed 1000 rpm
- Forward Direction of Rotation
- 360° 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



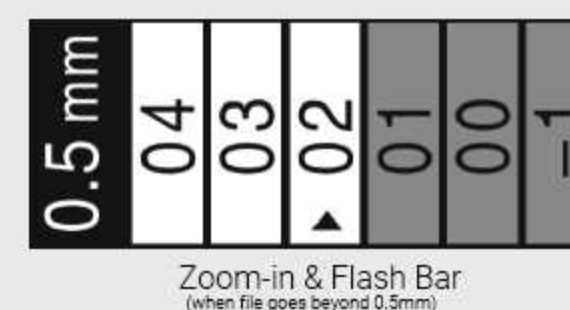
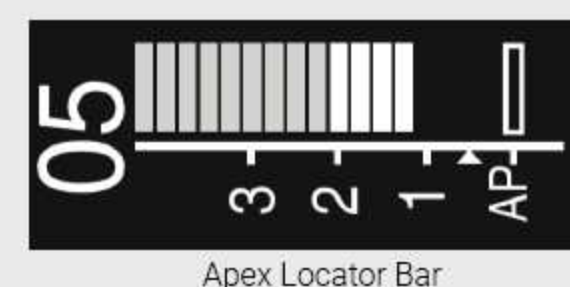
OLED Screen
Digital OLED Display



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



Powerful Battery
Heavy duty 1500mAh
Lithium battery



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-dentinal 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



Built-in File System



Long Press **S** to enter
the Mode Setting interface,
press "New File" to add a new file system



Long press **S** to modify the File name

Taper Indicator	Torque Limit	Speed Set	Operation Mode	Size	Taper
	2.5 N·cm	250 rpm	FWD	19	2

Press to set Taper, Size, Operation Mode, Speed Set, Torque Limit, Taper Indicator



"New file" mode can be chosen to use



Can also continue to add new file parameters in this mode

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



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

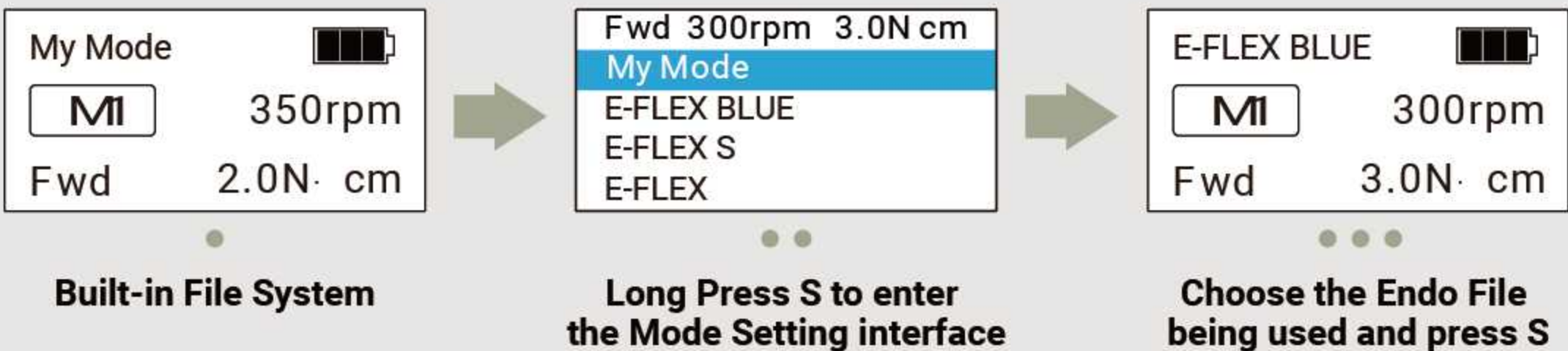


New contra-angle head

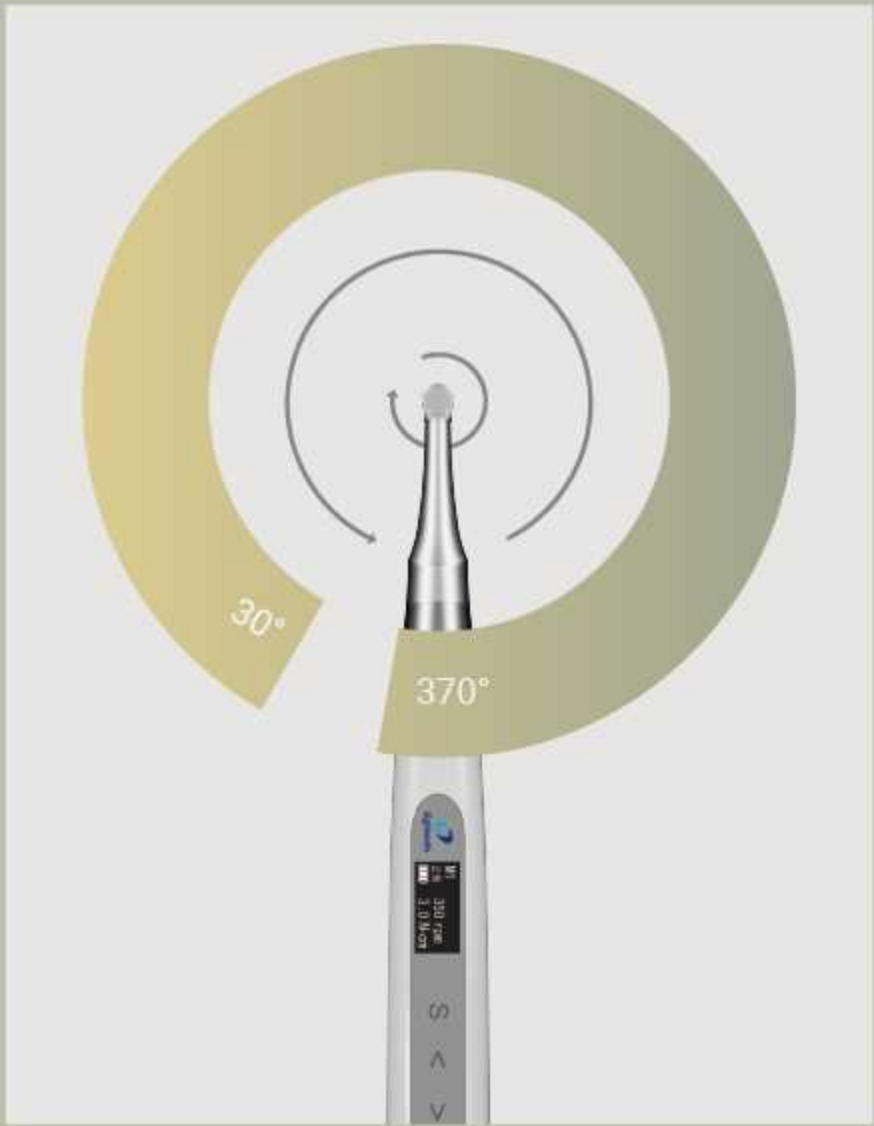


Normal head & neck

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



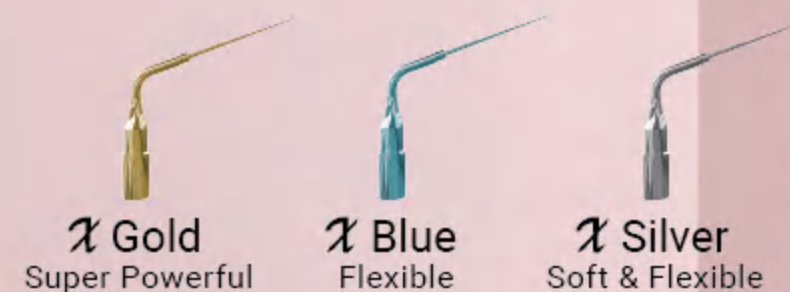


Ultra X

Cordless Ultrasonic Activator

Available Tips

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



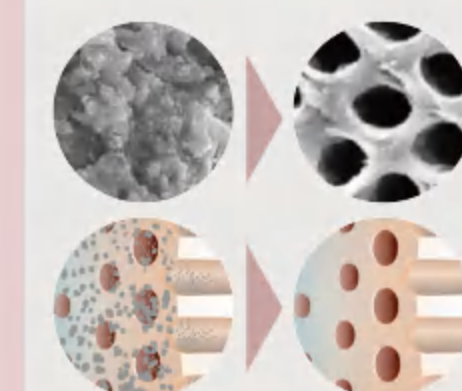
In Action

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



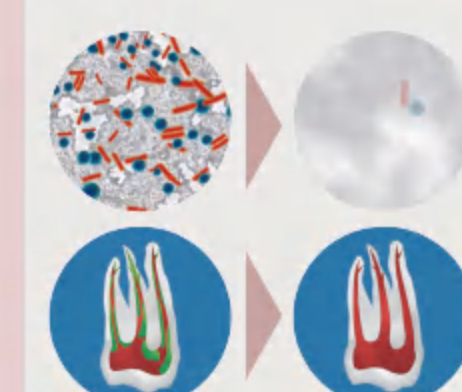
Indication

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



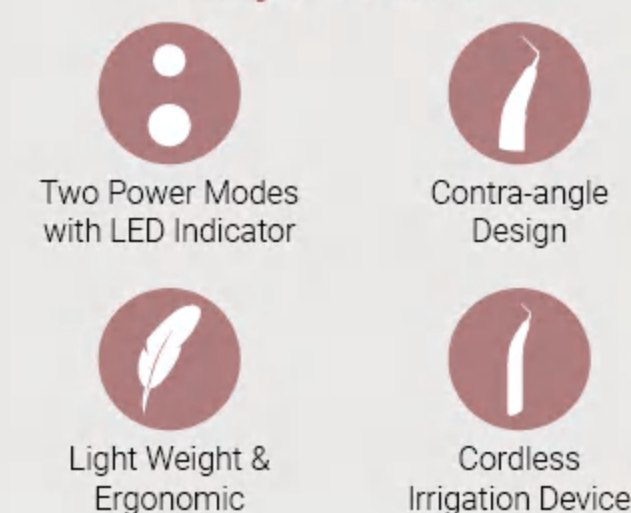
Protocol

- 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

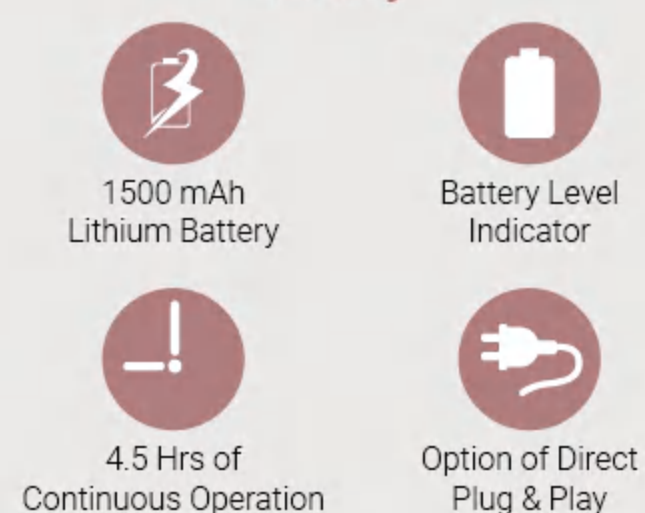
Key Features



Key Features



Battery

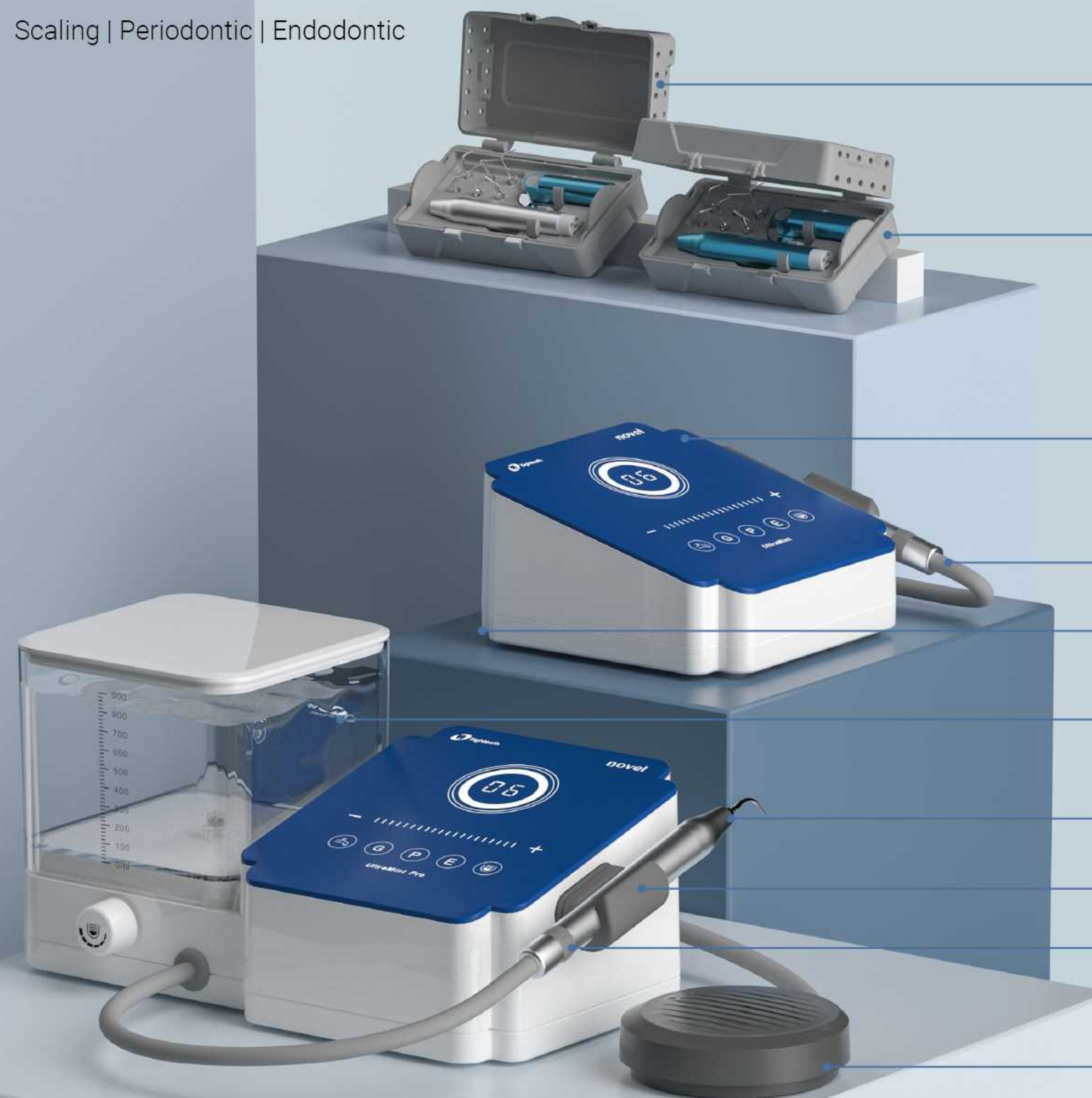




UltraMint & UltraMint Pro

All-round Ultrasonic Scaler

Scaling | Periodontic | Endodontic

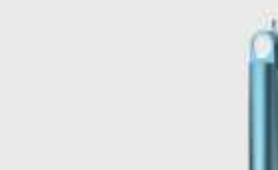


Soft Perio Power for Ultimate Comfort

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



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



*Applicable for all tips
from Eighteeth

Smart touch system-ultrasensitive & waterproof



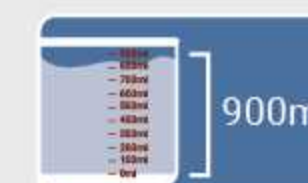
Intelligent self-cleaning-makes disinfection easy and avoids cross-infection



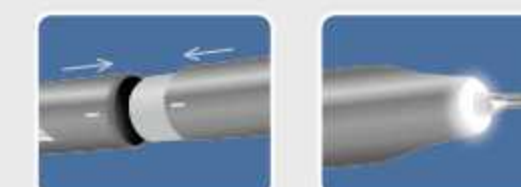
Two ways of water supply-
Changing supply methods is easier than ever before



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



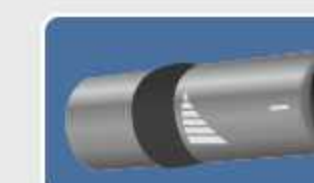
Detachable handpiece with LED-
autoclavable, ergonomic, brighter visibility



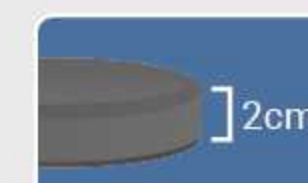
Detachable and autoclavable handpiece holder, resists cross-infection



Water control directly from handpiece



Ergonomic foot pedal

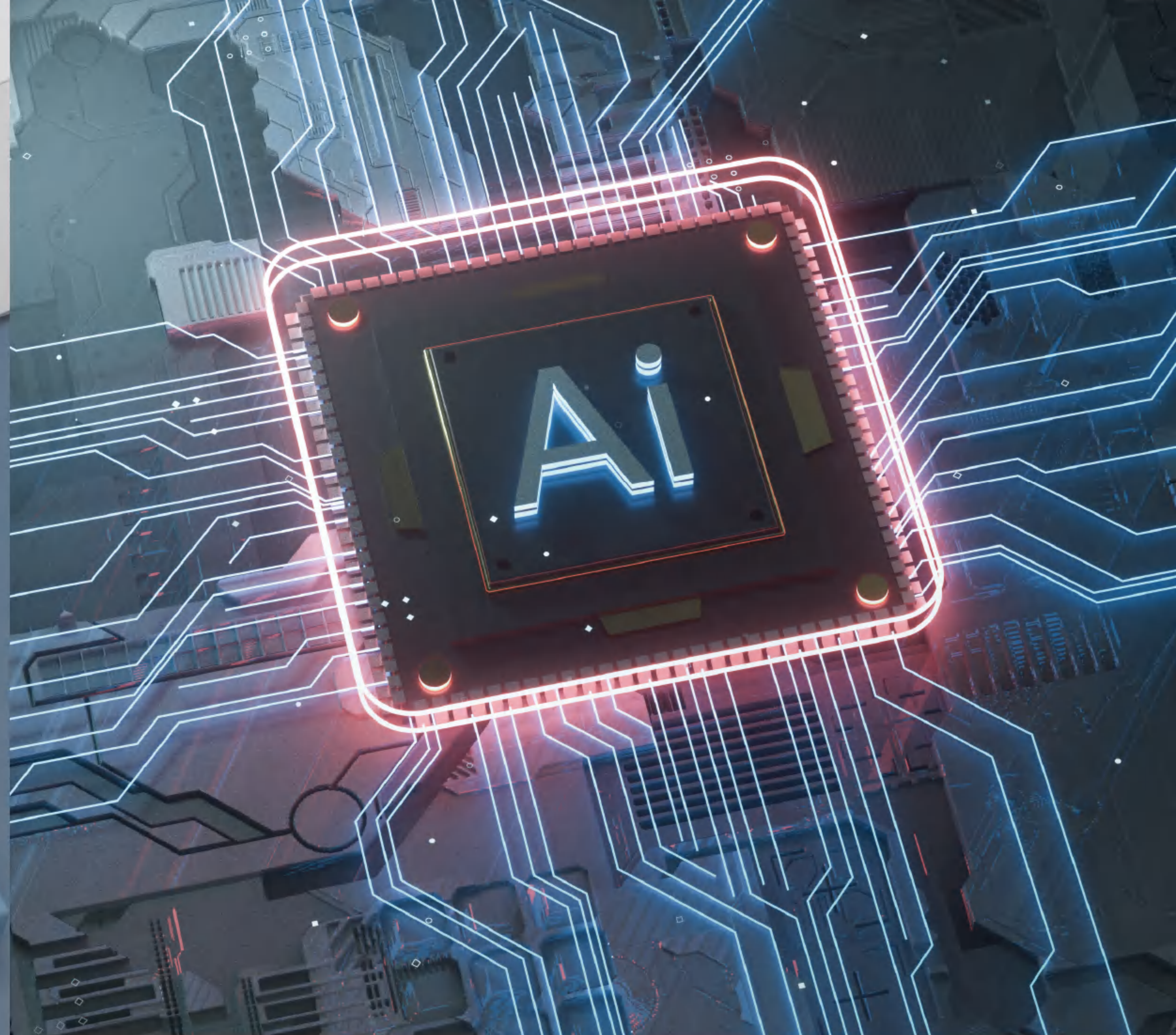




One scaler, 2 solutions

Wide range of frequency: 25kHz-42kHz

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



AI Engine — Scaling has never been so intelligent!



Customized treatment based on tooth surface conditions



Smart touch control system—ultrasensitive & waterproof



Elliptical stroke patterns with polishing effect



Intelligent degenerative feedback



Digital controlled automatic frequency tracking
Ensures machine works on optimum frequency



Sine wave drive
Avoids simulation caused by instantaneous current output; ensures comfortable treatment

• Tips

• Handpiece



• Tips

• Handpiece



blue-ringed



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



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

Scaling



G1

Removal of supragingival calculus



G1-S

Used for supragingival and interdental space scaling



G2

Removal of significant supragingival calculus



G2-S

Removal of marginal supragingival calculus and plaque

G4

G4-S

Used for supragingival and interdental space scaling

G5

G5-S

Removal of marginal supragingival calculus and plaque

Periodontic



P1

Removal of subgingival calculus and periodontal irrigation



P1-S

Removal of subgingival calculus and periodontal irrigation



P3

Removal of calculus deep in periodontal pocket and its irrigation



P3-S

Removal of calculus deep in periodontal pocket and its irrigation



P4

Removal of calculus in shallow pockets



P4-S

Removal of calculus in shallow pockets



P52

Supragingival scaling



P52-S

Supragingival scaling



P50L

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



P50L-S

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



P50R

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



P50R-S

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



P53L

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



P53L-S

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



P53R

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



P53R-S

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



P59

Used for subgingival calculus probing and scaling



P59-S

Used for subgingival calculus probing and scaling



P56

Removal of significant supragingival calculus and plaque



P56-S

Removal of significant supragingival calculus and plaque



P3D

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



P3D-S

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



P4D

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



P4D-S

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

Endodontic



E1

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



E1-S

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



E3

For lateral condensation of gutta percha by heating effect



E3-S

For lateral condensation of gutta percha by heating effect



E4

Removal of foreign filling material during retreatment



E4-S

Removal of foreign filling material during retreatment



E5

Removal of foreign filling material during retreatment



E5-S

Removal of foreign filling material during retreatment



E6

Removal of foreign material in cavity to access canal orifice



E6-S

Removal of foreign material in cavity to access canal orifice



E7

Removal of broken instrument



E7-S

Removal of broken instrument



E8

Flexible and used to brush the canal walls during retreatment



E8-S

Flexible and used to brush the canal walls during retreatment



E9

Removal of broken instrument



E9-S

Removal of broken instrument



E10

Used for root planing in the retrograde preparation of root canal



E10-S

Used for root planing in the retrograde preparation of root canal



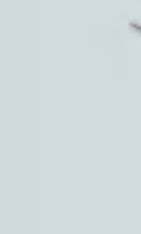
E3D

Enlargement of the canal walls to remove the broken instrument



E3D-S

Enlargement of the canal walls to remove the broken instrument



E30

Removal of deep foreign particles in canal



E30-S

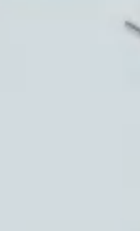
Removal of deep foreign particles in canal



E30-SD

Removal of deep foreign particles in canal

Endodontic



E31

Removal of foreign particles from one-third of the canal



E31-S

Removal of foreign particles from one-third of the canal



E31-SD

Removal of foreign particles from one-third of the canal



E4D

Removal of hard material in canal during retreatment



E4D-S

Removal of hard material in canal during retreatment



E5D

Removal of hard material in canal during retreatment



E5D-S

Removal of hard material in canal during retreatment



E6D

Removal of foreign material in cavity to access canal orifice



E6D-S

Removal of foreign material in cavity to access canal orifice



E7D

Removal of calcification and filling material in cavity to access canal orifice during retreatment



E7D-S

Removal of calcification and filling material in cavity to access canal orifice during retreatment



E8D

Used for root canal retrogression, efficient root apical polishing



E8D-S

Used for root canal retrogression, efficient root apical polishing



E9D

Removal of broken instrument



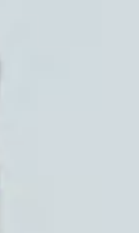
E9D-S

Removal of broken instrument



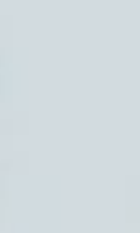
TC1

Removal of cervical caries and caries on the occlusal surface



TC1-S

Removal of cervical caries and caries on the occlusal surface



TC1D

Removal of cervical caries and caries on the occlusal surface



TC1D-S

Removal of cervical caries and caries on the occlusal surface

Fast-Pack pro & Fast-Fill

3D Obturation Devices





Fast-Pack pro

Obturation Pack Handpiece



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-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

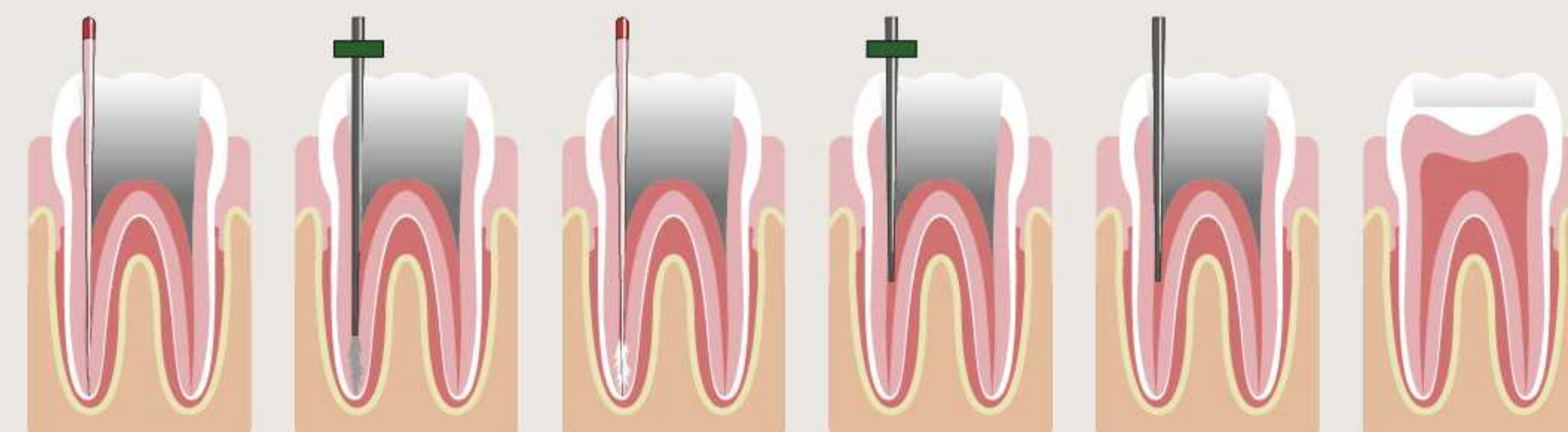
Heating Time	20 seconds to 200 °C
Charging Time	4 hours to complete charge
Hexagonal Wrench	Use the wrench to bend the tip, rotate the tip and clean the device



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

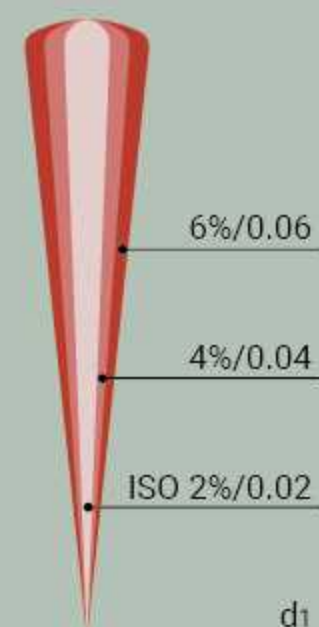
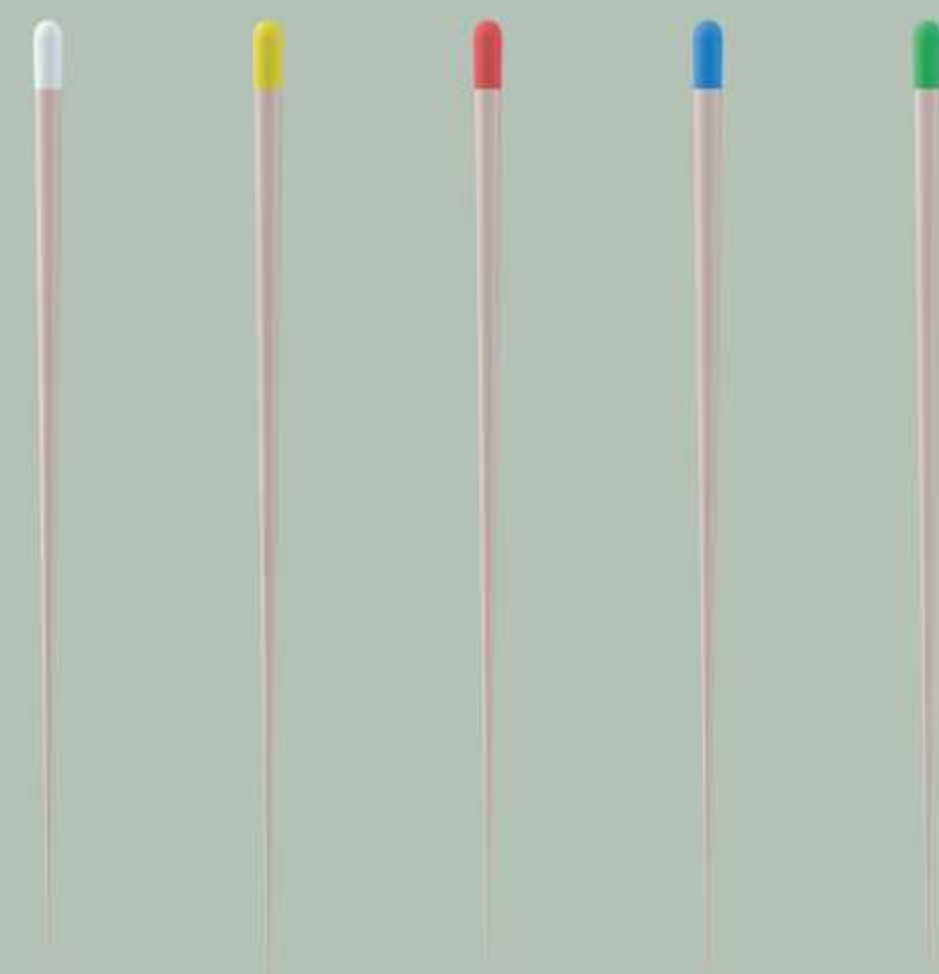
Remove the GP from the orifice/coronal part with the help of heated Fast-Pack tip. Plug the GP cone with pre-fit hand plugger at the orifice. Now take the heated Fast-Pack tip 4-5mm short of the working length. The bite of GP will come out of the canal along with the tip. Heated Fast-Pack tip will transfer 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, Quantecs, 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.



Gutta Percha Points (0.02 Taper)
Packed Q'ty/Box: 120Points/Per Box

NO.15 NO.25
NO.20 NO.30

○ white
● yellow
● red
● blue



Gutta Percha Points (0.04 Taper)
Packed Q'ty/Box: 60Points/Per Box

NO.20 NO.30
NO.25 NO.35

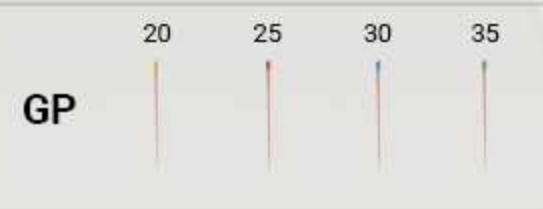
● yellow
● red
● blue
● green



Gutta Percha Points (0.06 Taper)
Packed Q'ty/Box: 60Points/Per Box

NO.20 NO.30
NO.25 NO.35

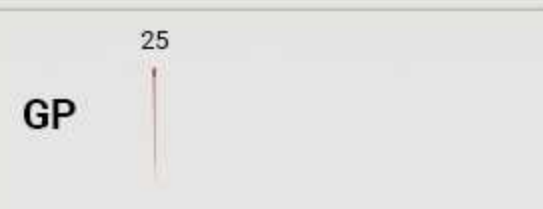
● yellow
● red
● blue
● green



Gutta Percha Points (F2)
Packed Q'ty/Box: 60Points/Per Box

NO.25
Gutta Percha Points (for Pro Taper Gold) F2

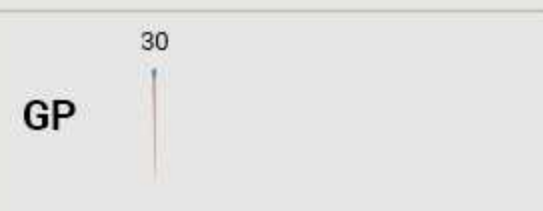
● red



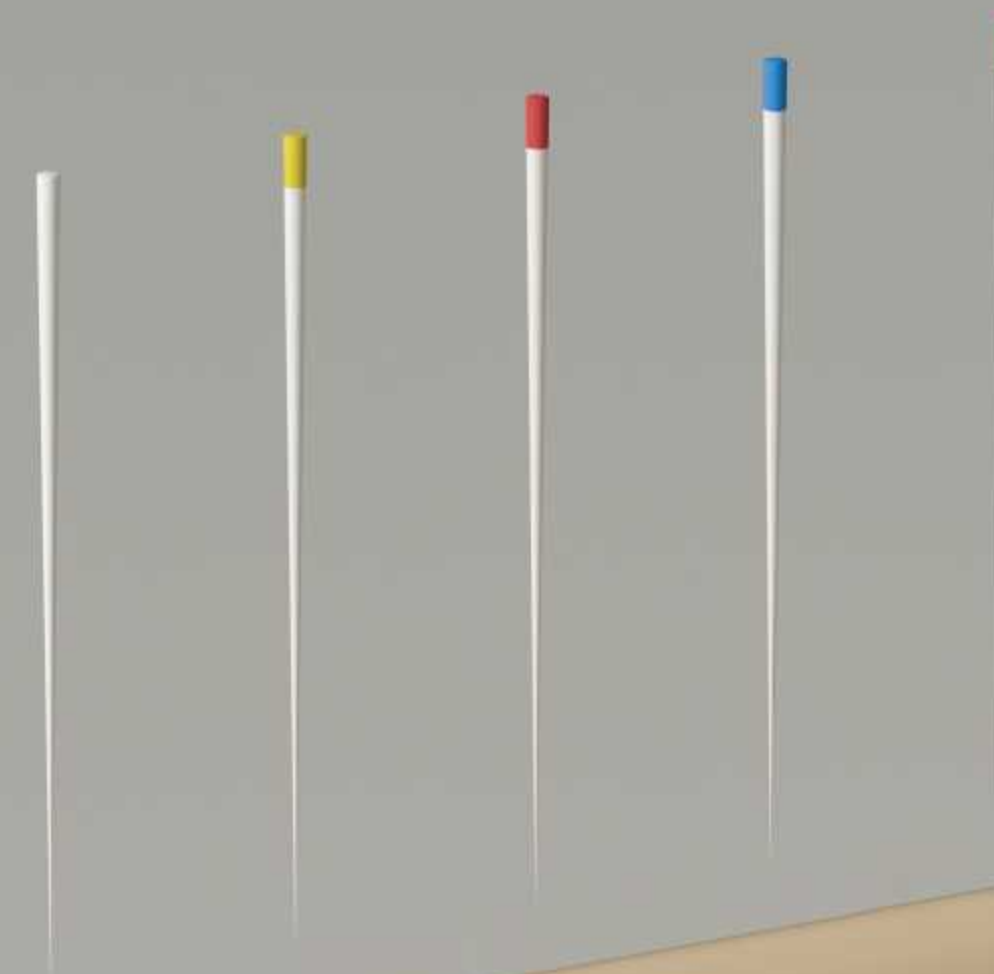
Gutta Percha Points (F3)
Packed Q'ty/Box: 60Points/Per Box

NO.30
Gutta Percha Points (for Pro Taper Gold) F3

● blue



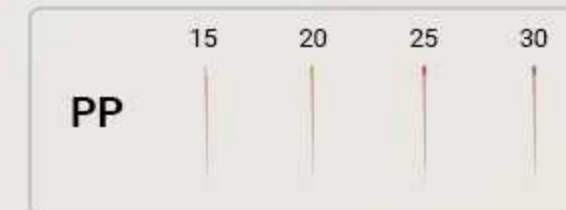
Absorbent Paper Points



Absorbent Paper Points (0.02 Taper)
Packed Q'ty/Box: 200Points/Per Box

NO.15 NO.25
NO.20 NO.30

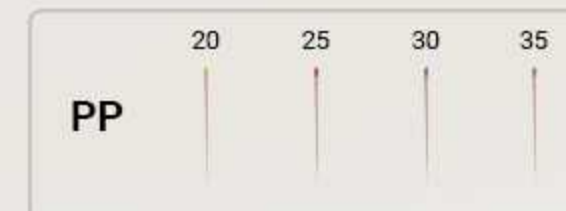
○ white
● yellow
● red
● blue



Absorbent Paper Points (0.04 Taper)
Packed Q'ty/Box: 100Points/Per Box

NO.20 NO.30
NO.25 NO.35

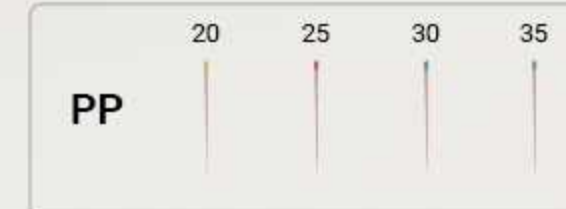
● yellow
● red
● blue
● green



Absorbent Paper Points (0.06 Taper)
Packed Q'ty/Box: 100Points/Per Box

NO.20 NO.30
NO.25 NO.35

● yellow
● red
● blue
● green



Absorbent Paper Points (F2)
Packed Q'ty/Box: 100Points/Per Box

NO.25
Absorbent Paper Points (for Pro Taper Gold) F2

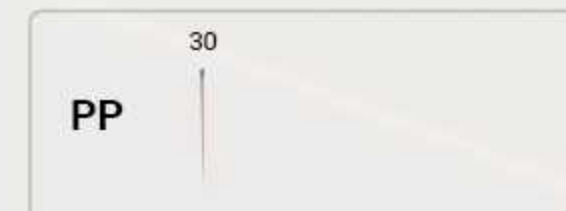
● red



Absorbent Paper Points (F3)
Packed Q'ty/Box: 100Points/Per Box

NO.30
Absorbent Paper Points (for Pro Taper Gold) F3

● blue





CuringPen

4 LEDs Curing Light

Technical parameter:

Dimension: 24*21*230(mm)

Net Weight: 109g

Lens size: 11mm

Power supply:

>1200 times, 3 Sec

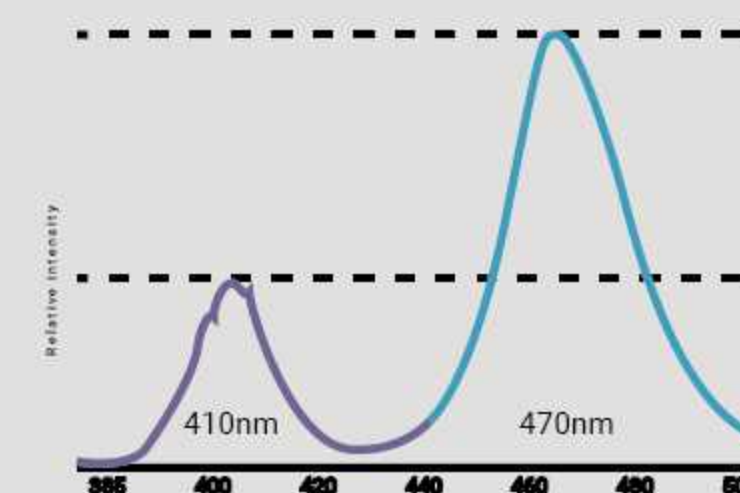
Maximum light intensity



CuringPen



Smart controlling chip
keeps light output consistent
Light intensity:
1000mw/cm², 1500mw/cm², 2300mw/cm²
600 mw/cm²(detect mode)



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



360° rotatable head

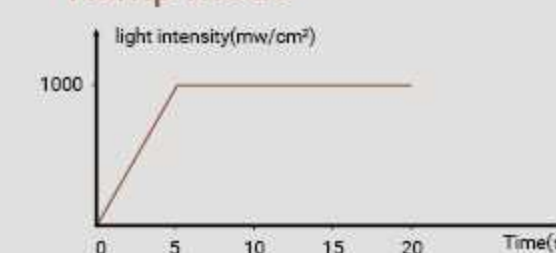


Intensity digital display

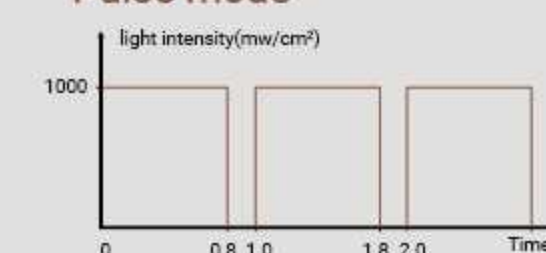
MO 2300mw/cm² 02s

Multiple Curing Options

Ramp mode



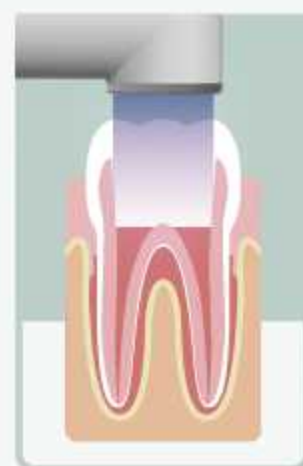
Pulse mode



Caries detection



CuringPen



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 ² , 3 Sec
Maximum Light Intensity	: 3000 mw/cm ²
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/cm²
- 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/cm²

Time Setting : 5s, 10s, 15s, 20s, 25s, 30s, 35s, 40s

•P2



High Mode

Light Intensity : 2000mw/cm²

Time Setting : 1s, 3s, 5s, 10s

•P4



Pulse Mode

Light Intensity : 1200mw/cm²

Time Setting : 5s, 10s, 15s, 20s

•P5



Ramp Mode

Light Intensity : 1200mw/cm²

Time Setting : 5s, 10s, 15s, 20s

•P3



Ultra Mode

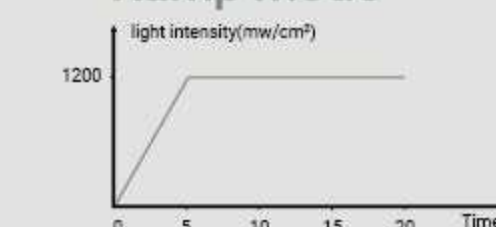
Light Intensity : 3000mw/cm²

Time Setting : 1s, 3s, 5s

Pulse mode



Ramp mode





HyperLight

Portable X-ray Unit

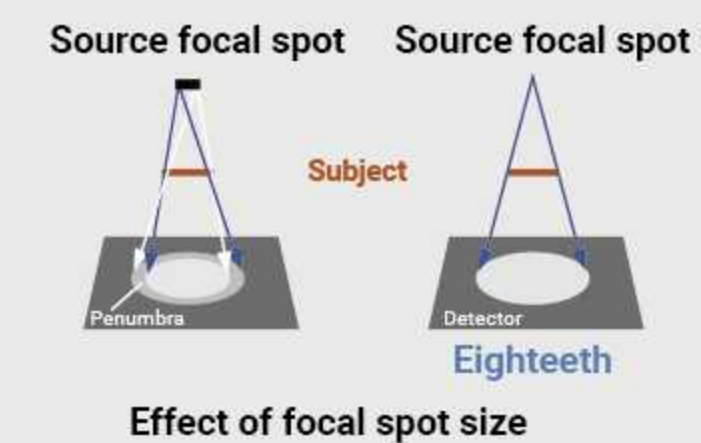


Engineered for accurate images

- Clinical Imagery



- Sharp, high resolution images with a 0.4 focal spot



Designed with safety in mind



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



Locking system to prevent unintentional exposure

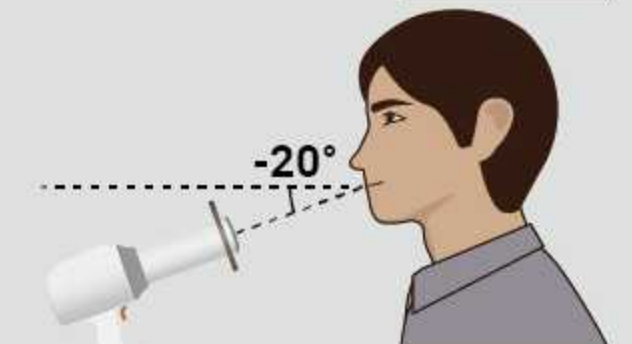
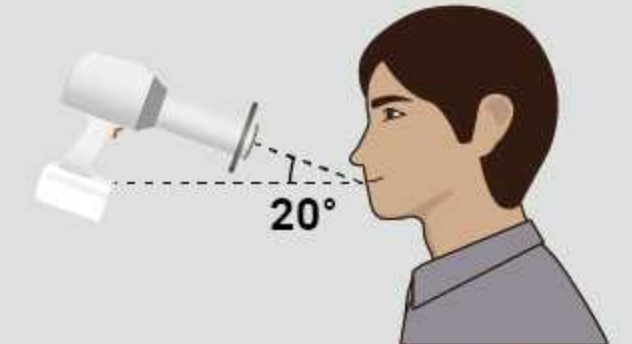
Specifications

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

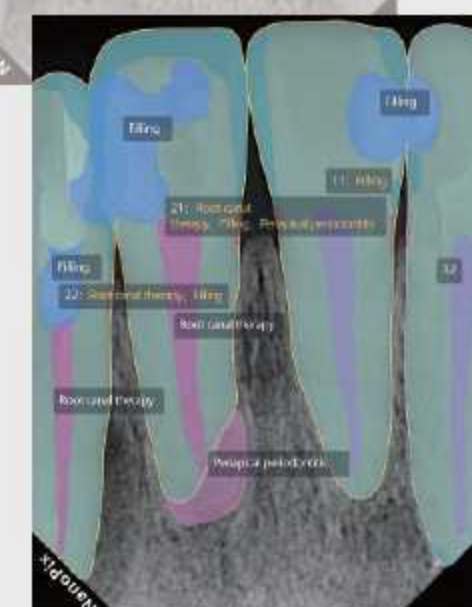


NanoPix1/1.5/2

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



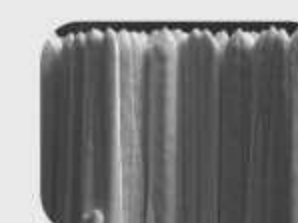
Stable AED Technology: Efficient Diagnosis and Treatment

- 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





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



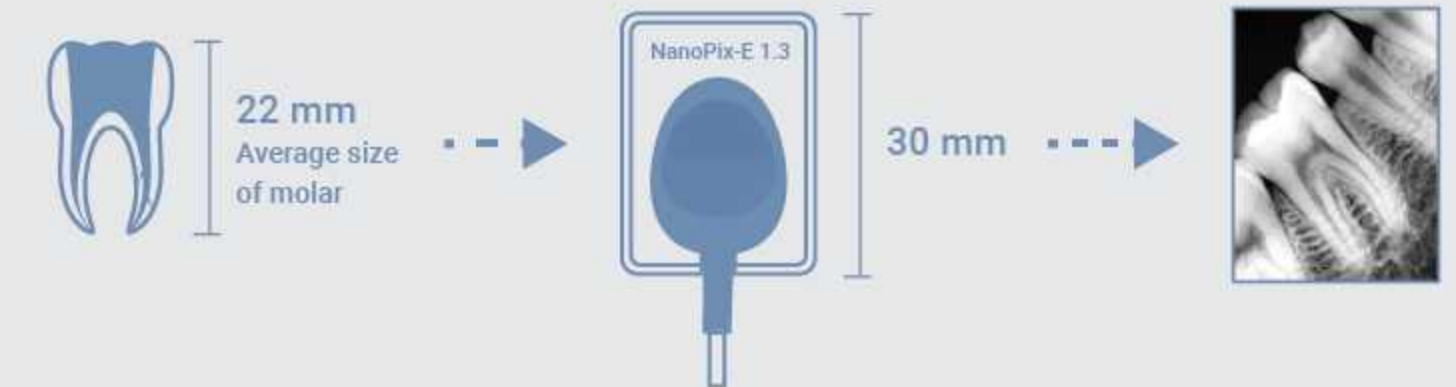
Specifications

Model Name	: NanoPix-E 1.3	Theoretical Resolution	: 25lp/mm
Detector Technology	: APS CMOS	True Resolution	: 20lp/mm
Scintillator	: CsI	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



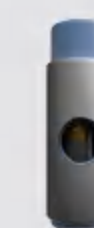
FinScan F350

Oral and Maxillofacial
CBCT Equipment



Core components

Revolutionary Performance Standardized Excellence



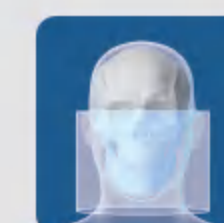
**Standard With Imported Japanese
Canon X-Ray Tube**

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 100um amorphous silicon flat panel
Non-stitched one-time imaging



Standard 16*10 FOV One-Stop Solution

Widely used in dental routine diagnosis, implant surgery, etc
Additional 4*4, 4*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
Lateral skull image: 8S or 6S



CT Image



Panoramic Image



Cephalometric Image



Metacarpal 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



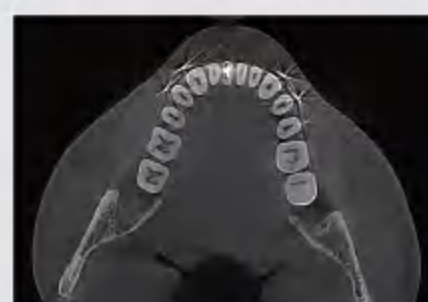
Regular Dose



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

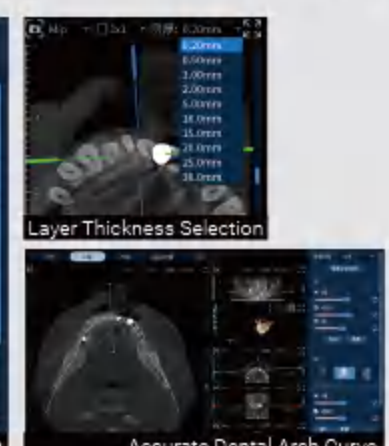


– Panoramic Mode

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

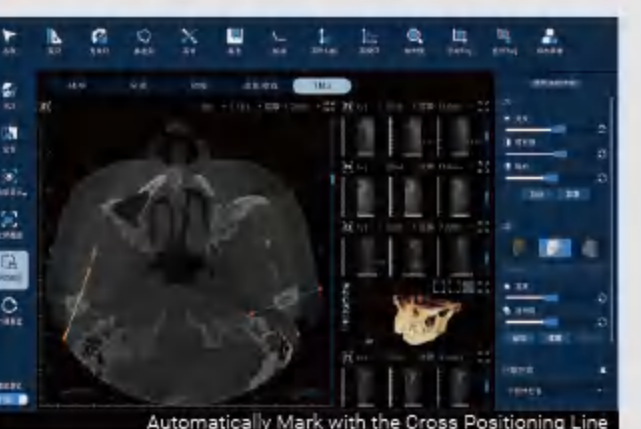
Accurately and automatically delineate the dental arch

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

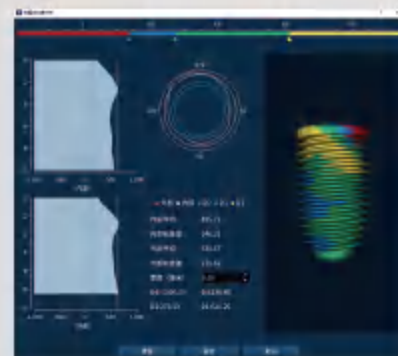


Implant Mode & Virtual Implant Placement

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

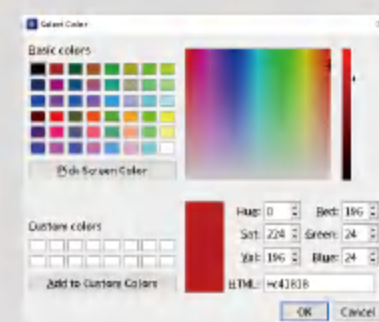
– Resolve the Challenges of Dental Implants Providing Comprehensive Diagnostic Support

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



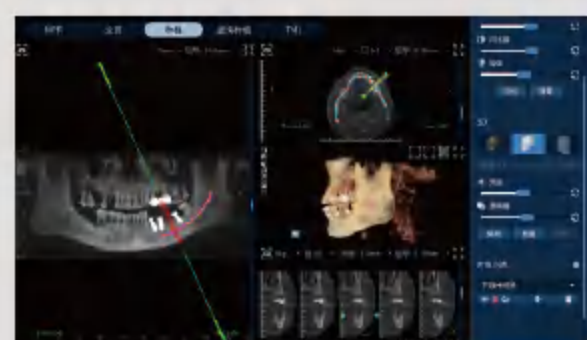
– Even the Slightest Distance Between the Implant and the Nerve Tube can be Detected, Thoroughly Protecting Patient Health

In the implant placement mode, after positioning the implant at the target tooth location, the precise distance from the implant tip to the nerve tube is displayed, effectively eliminating the risk of implant-nerve touching



STEP 1: Positioning

Select implant target area in the 3D model using mouse operation



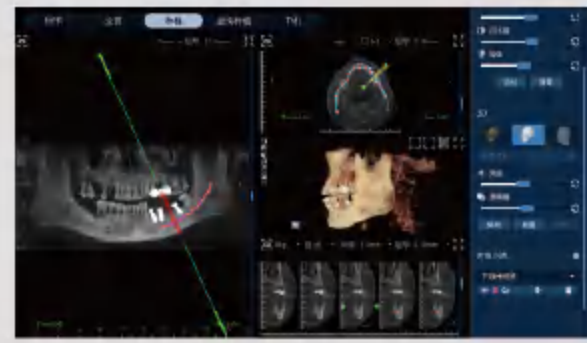
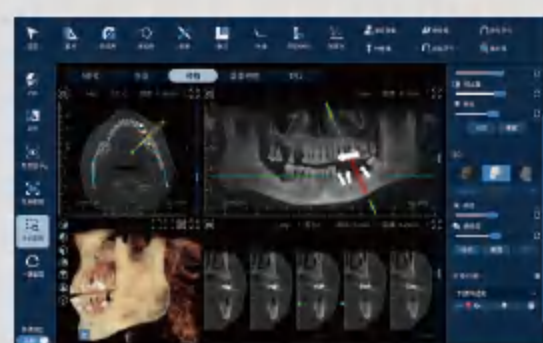
STEP 2: Mark

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 crest 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

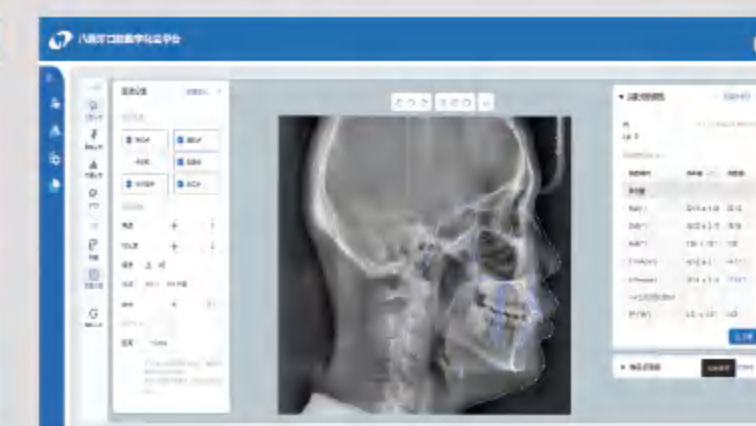
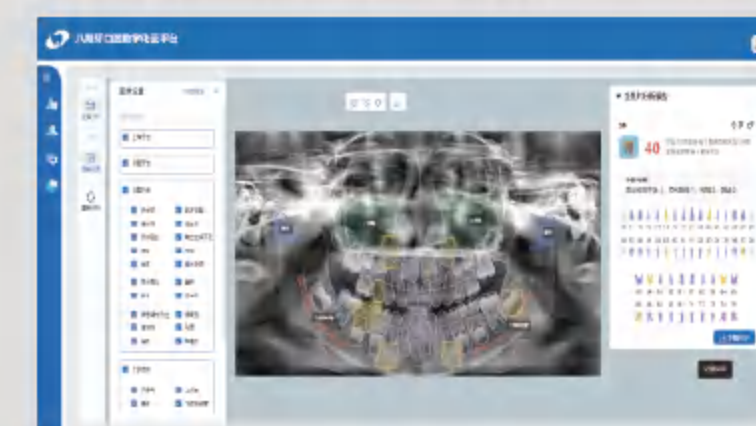
The system automatically adjusts dosage parameters based on the patient's age and also allows for self-adjustment as needed



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

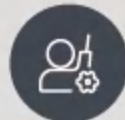
Eighteeth has a professional after-sales team and multiple customer service platforms available 24/7 year-round, providing expert and comprehensive support



Expert site planning recommendations



On-site installation by appointment



One-on-one expert training



Free remote software support

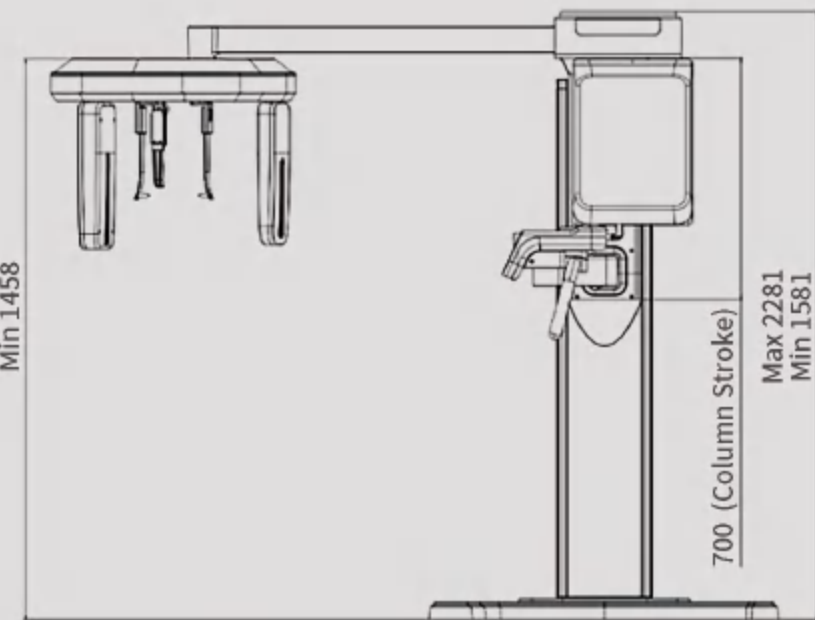
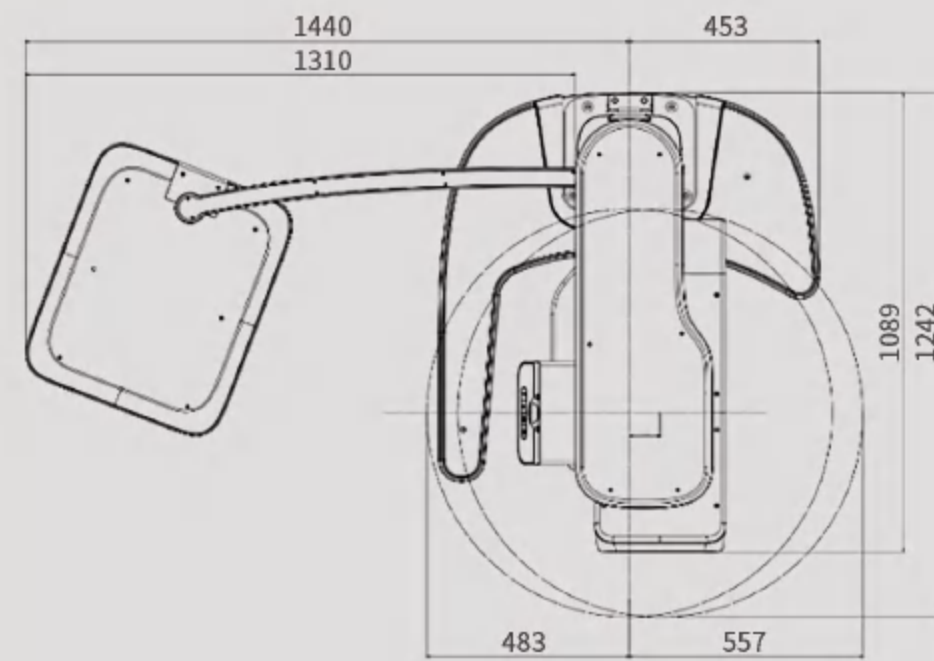


Rapid online and offline support

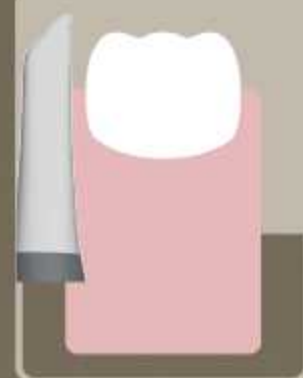
Parameter Specifications

Xray Beam		Cone beam	Patient Location	Stand
Tube Voltage Range		60kV~100kV	Patient Positioning	Height: Electric lifting column Head: Manual adjustment
Focal Spot		0.5		
Voxel Size (mm)		0.10, 0.15, 0.20, 0.25, 0.30	Controls	Laser light: touch panel Exposure & image acquisition: workstation
Detector Type	CT& Panorama image	Csl + TFT array		
	Cephalometric image	Csl + CMOS array	Device Dimensions	1893 x 1089 x 2281mm 745 x 42.9 x 89.8inches
Image Grayscale	CT& Panorama image	16 bits	Net Weight	220Kg/4851b (+10%)
	Cephalometric image			
Scan Time	CT image	9s or 18s	Installation	Permanent installation
	Panorama image	14s	Workstation	Operating System: Windows 11, 64-bit Memory: 16 Gigabytes RAM, or more
	Cephalometric	8s or 6s		
Reconstruction Time		≤ 60s	FOV (CT)	4x4cm, 8x8cm or 16x10cm

Product Size



Product Vertical Height Range (mm)	1581-2281 (The overall liftable height range is 700mm)
Column Longitudinal 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 $\approx 20\mu\text{m}$ | Single-tooth accuracy $\leq 10\mu\text{m}$
*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



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)
Connectivity	Length	1.8m/Handpiece detachable
	Type	USB 3.0
Calibration	Accuracy calibration	Calibration-free
	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 680

Intraoral Scanner



Flagship-Level Upgrade

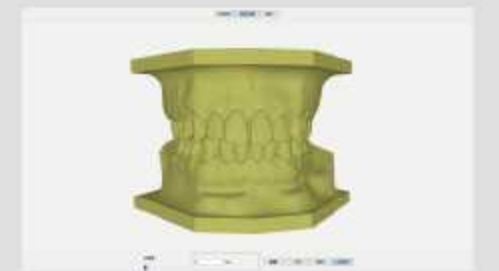
- 
Performant
 - 16μm intraoral full-arch precision, 8μm single tooth precision, 30fps frame rate
 - Enjoy the smooth precision of scanning
- 
Renewed
 - Graceful curves with refined matte finish
- 
Lighter
 - 161.5g total weight, lighter than ever and easy to hold
- 
Cloud-upgraded
 - Powered by AWS 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

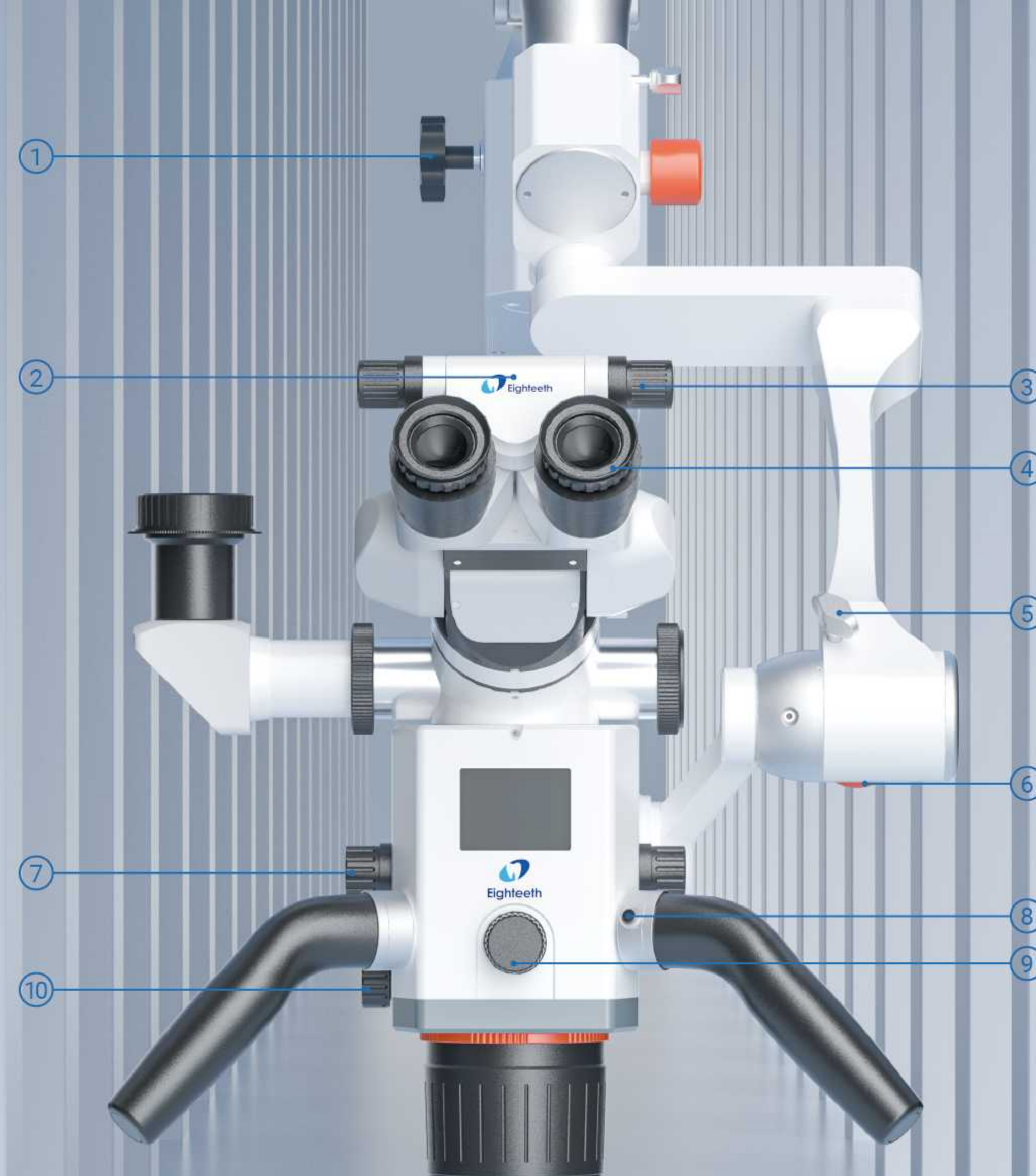


AcuVision X

Surgical Microscope



AcuVision X



- ① Suspension Arm Rotation Friction Knob
- ② 0-210° inclinable binocular tube
- ③ PD adjustment: 51~76mm
- ④ 12.5X/20 Widefield eyepieces, ±7D Diopter adjustment with screw in-out eyecup, suitable for eyeglass wearers
- ⑤ Lock for Microscope Pitching
- ⑥ Knob for Adjusting Microscope Pitching Balance
- ⑦ Magnification Changer Knob
- ⑧ Photo/Video Control Button
- ⑨ Integrated Knob for brightness adjustment, filter position switching, camera power supply output voltage control
- ⑩ Continuous Illumination Spot Size Adjustment Knob

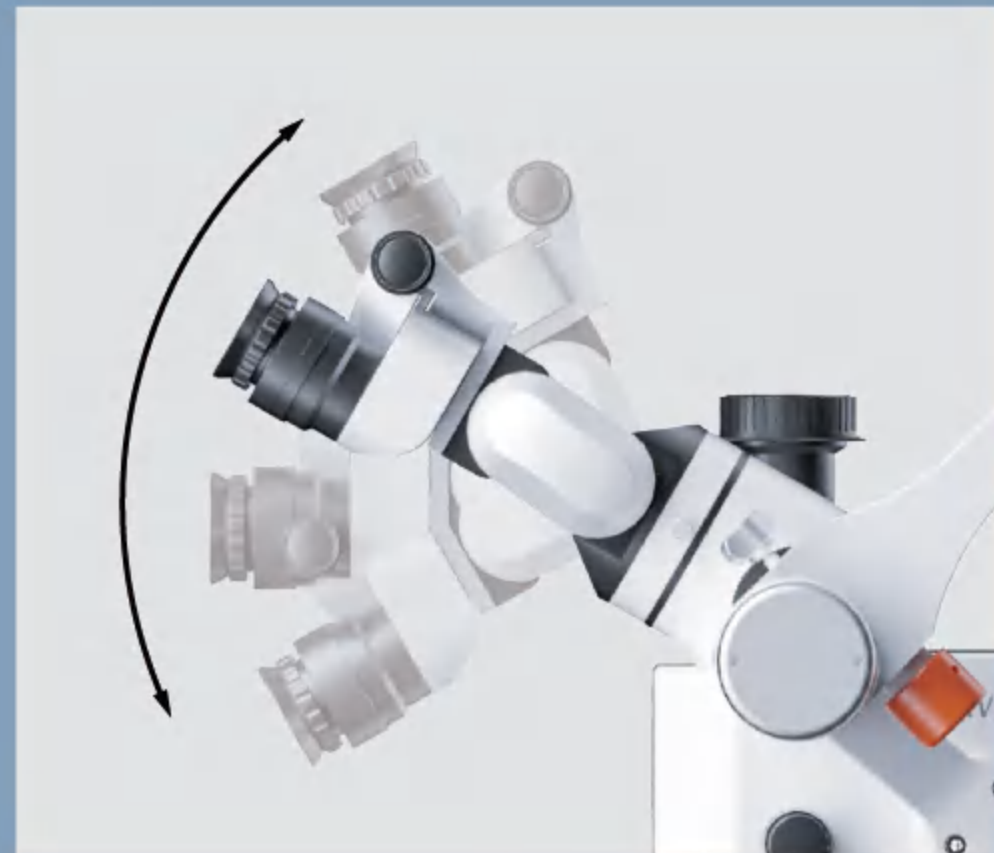
AcuVision X

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)
1.4X-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: 9.6-193.8mm
 - 12.5X Eyepieces
 - Various Focus Objective (VaroF™)
 - WD=190mm-460mm

Lighting System

Multi-Mode Augmented Visualization LED Illumination

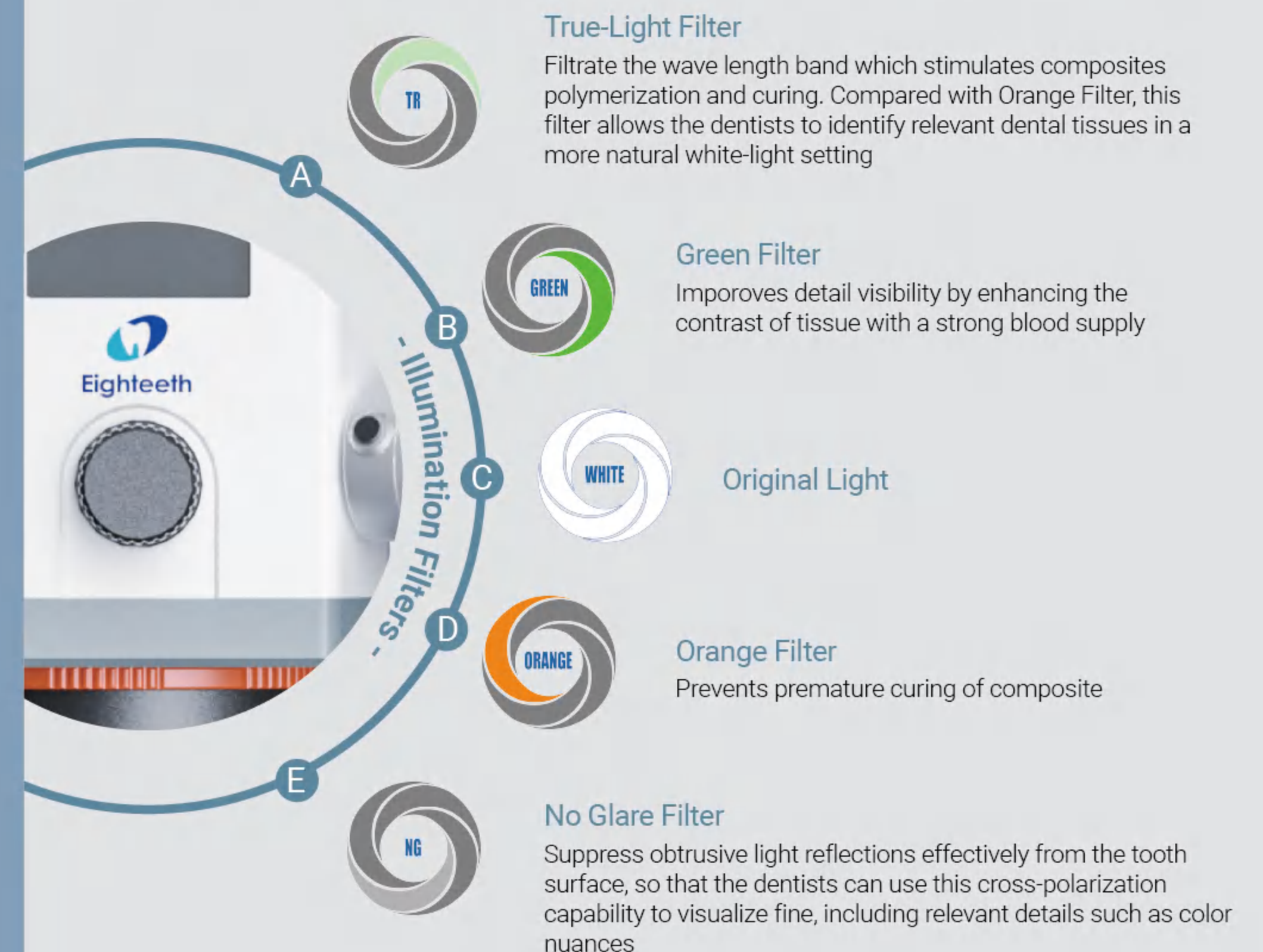
- 5500K daylight color temperature, CRI≥90, deliver bright, vivid colors for easy differentiation of anatomical details
- Long bulb lifetime of approx. 60,000 hours for minimal cost of ownership

Illumination Spot Size is Steplessly Adjustable

- The diameter of the spot is 9.7mm-210mm, which can be manually adjusted continuously
- Clear edge of spot, can fully illuminate field of view at all magnifications and working distances

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

– 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 $\pm 25^\circ$



– Smart Phone Adaptor (optional)

– DSLR or Sony Camera Adaptors(optional)

The adaptor is compatible with mainstream SLR cameras and Sony mirrorless cameras



– DSLR or Sony Camera Power Supply

Port output voltage: 9V2A/9V3A/8.4V3A, suitable for all main cameras on the market



– Ergo Handgrip Integrated with Photo and Video Control Button

Comfortable grip, 360° rotatable, 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

– 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° 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

Microscope System		
Magnification System	Manual 5-step Apochromatic magnification changer, Mag. ratio 1.9	
Stereo Base	24mm	
Magnification Ratio	2.6X, 3.9X, 6.3X, 9.8X, 15.7X, 23.5X (12.5X eyepiece, WD=190mm)1.4X-23.5X (12.5X Eyepiece, Various focus objective (VaroF™): WD=190mm-460mm)	
PD Adjustment Range	51~76mm	
Eyepieces	12.5X/20 Widefield eyepieces, ±7D Diopter adjustment with screw in-out eyecup	
Binocular Tube	0-210° tiltable tube, f=182mm, with PD adjustment Knob	
Objective	Various Focus apochromatic Objective with variable WD from 190-460mm. Protective cover included	
Illumination System		
Lighting Source	Long-lasting LED and Direct illumination, 5500K, CRI≥90, integrated into the microscope carrier, with average minimum service life of 60,000h. Maximum illuminance ≥60000lx	
Brightness Adjustment	Continuous Brightness adjustment by Knob	
Integrated Illumination Adjustment	Illumination adjustment knob integrated with brightness, filters, camera power input voltages, in front of the microscope body	
Illumination Spot Adjustment	Integrated variable illumination spot size adjustment from 9.7mm~210mm with clear and sharp spot edge, all the field of view are completely illuminated	
Filters Adjustment	Integrated motorized filters adjustment knob with Orange, Green, No Glare, White, True Light filters modes, the Filters' positions displayed on the central LCD	
Control Handles	Bilateral Decurved Strong Ergo handles with integrated Camera and Video button	
Image & Video System		
Integrated Image & Video System	Integrated HDMI 1080P High-Resolution Video system, U Disk can be mounted to store the videos, the systems configuration can be adjusted by using mouse	
Optical Extender integrated with Beam splitter and Rotate Ring	30° optical Extender with Rotate Ring and 80/20 beam splitter integrated, tilt range ±25°	
DSLR Adaptor	For APS-C cameras (sensor size: 22 x 16 mm), Nikon & Canon DSLR	Optional
SONY A Series Adaptor	For APS-C cameras (sensor size: 22 x 16 mm), SONY A Series	Optional
Smart Phone Adaptor	Compatible with all smartphones, Cardan for Image Rotation Suitable for All Phone Placement	Optional
Display Mount	Preseted mount for display arm. The display arm can be installed on column as well on the Swivel arm. Two sockets HDMI output supported at the same time	
Suspension System		
Stand Configuration	Movable Floor Stand, Star-Base 680mmX680mm, Separated Weights Convenient for installation. 4 Wheels with independent brakes. 1200mm Height Aluminum-alloy-Made robust Column	
	Floor mount	Optional
	Wall mount	Optional
	Ceiling mount	Optional
Swivel Arm	480mm Rotation Length, 360° Rotatable, Aluminum-alloy-Made with lock Knob	
Suspension Arm	900mm Rotation Length, ±170° Rotatable, Up & down adjustment range ±400mm, LED Reset functions limit switch for light on/off	
Float-Free Balance Arm	Float-Free Balance arm with Spiral spring integrated offers ultra-smooth, fluid, and perfect balance when repositioning of the microscope. Left-Right tilt angle ±60°, Front-Back rotation t angle -30°~+60°, 330° vertically Rotatable	
Total Arm Reach	Total Arm Reach ≥1600mm, Long reach arm for more free position	
Cable Layout	Power, data, video cables wiring inner the arms, make the outline clean and tidy. Power output for DSLR cameras preseted	
Central Display	Integrated central display can show the filter position, brightness and output power voltage for camera	



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
ibG3040D/S	Flip Up	2 hinges type /3 hinges type	3.0x	400 mm	76 mm	≥100 mm	71 g
ibG3045D/S	Flip Up	2 hinges type /3 hinges type		450 mm	83.5 mm	≥115 mm	
ibG3050D/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

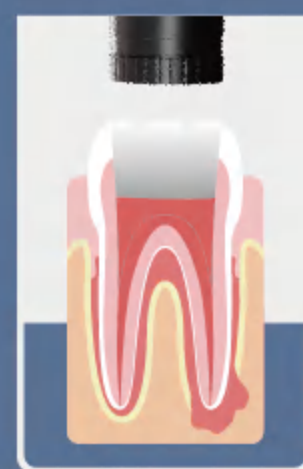
Fixed tail rod design, more solid and safer



Considerate hinge design

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





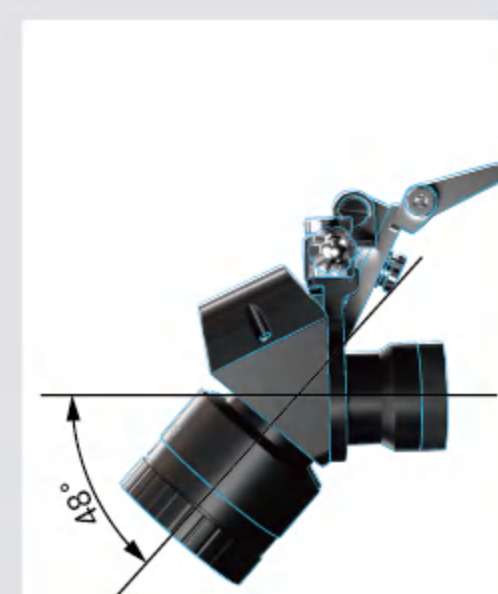
Brilliance 48°

Dental Loupes

Frame Color:  



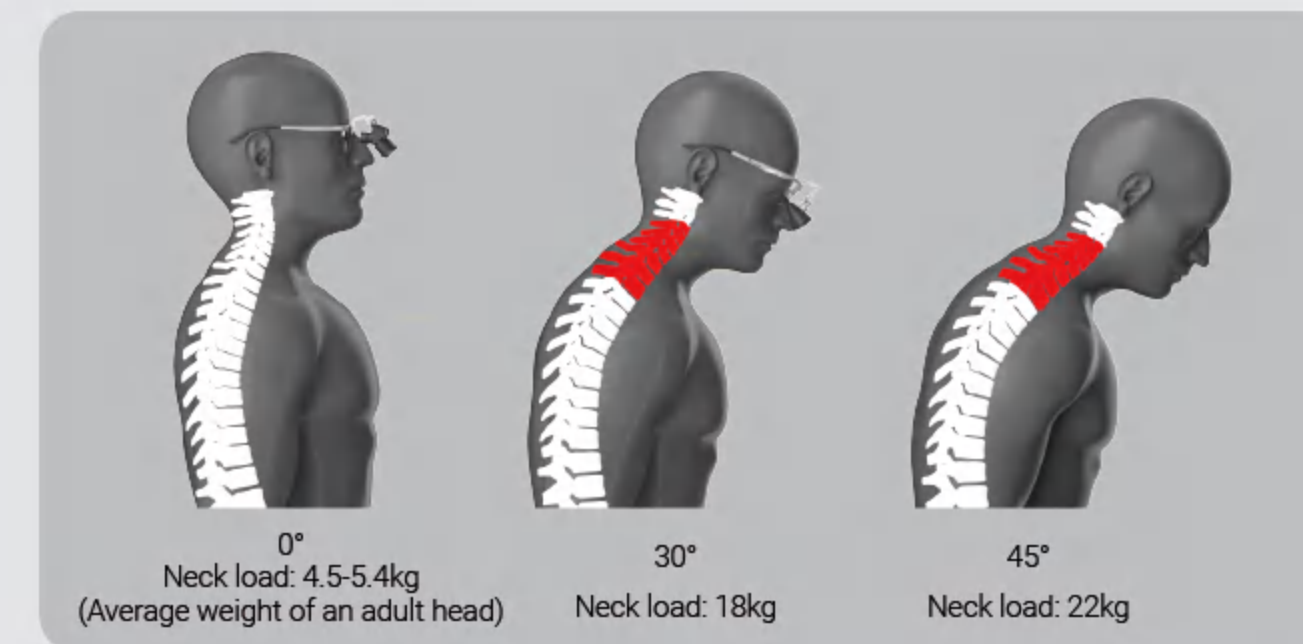
Magnification Ratio : 5X, Various 4.9X-5.6X
Working Distance : 450mm, Various 274mm-1088mm
Pupil Distance : Separately Adjustment, 52-76mm
Weight : 94.6g(with frame)
Field of View : 73mm , Various 40mm-179mm



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

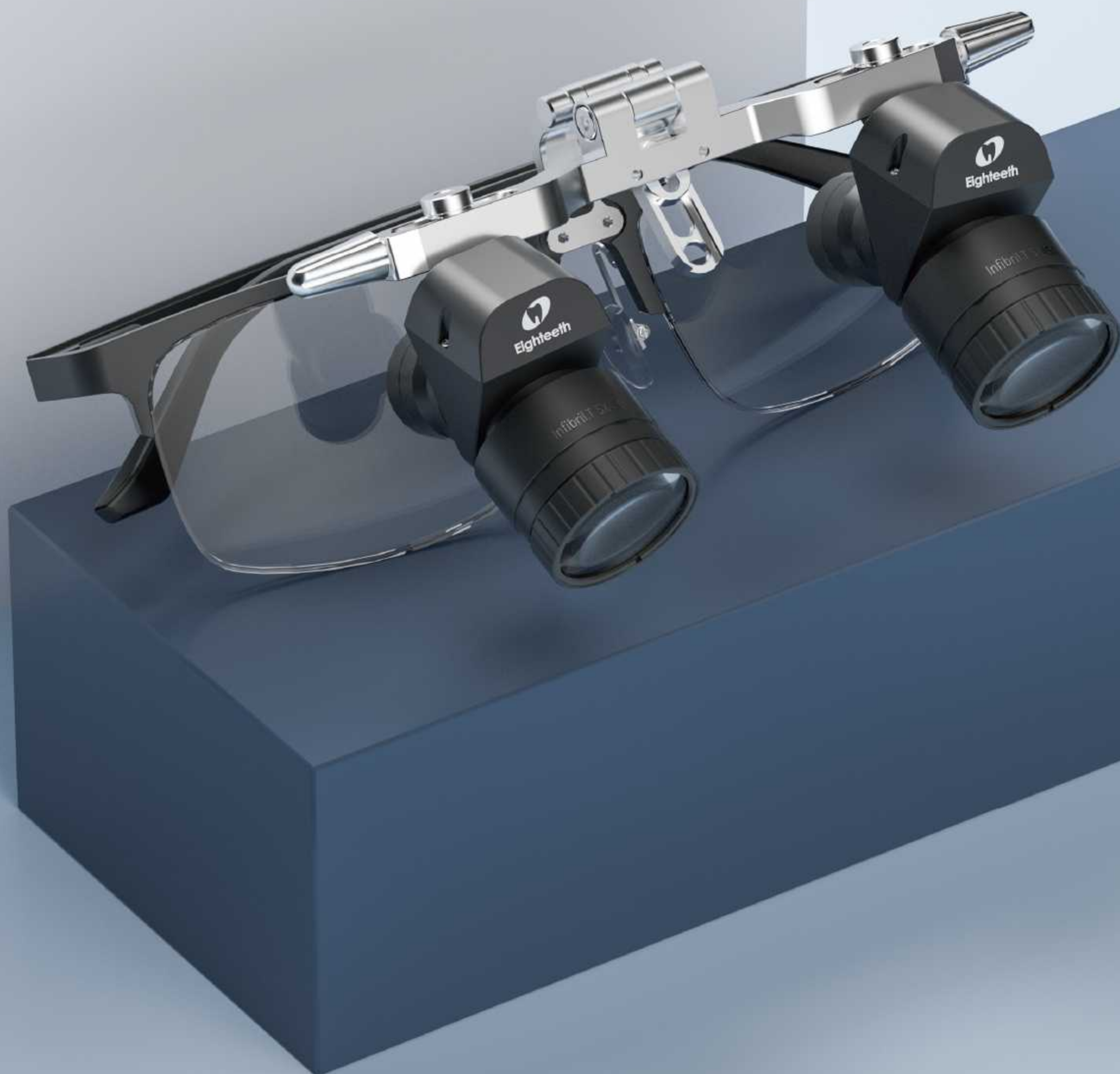
- Advised Mag.: 5.11X-5.54X, corresponding 300-550mm WD & 41-81mm Fov



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.)



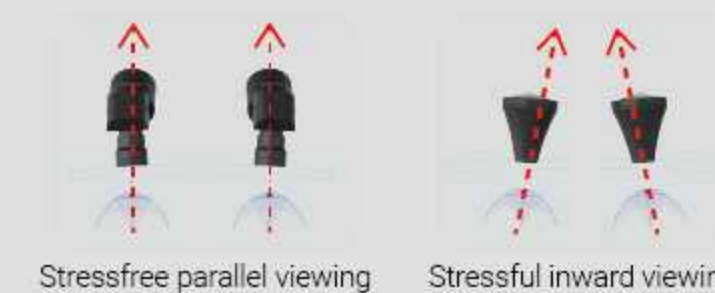
Flip-Up

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

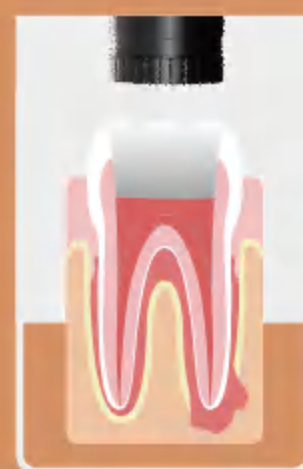
Lenses can be easily replaced with myopia lenses

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 : 94.3g(with frame)
Field of View : 49mm-57mm, 57mm-65mm, 65mm-73mm, 73mm-81mm

*Adapted to Eighteeth 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

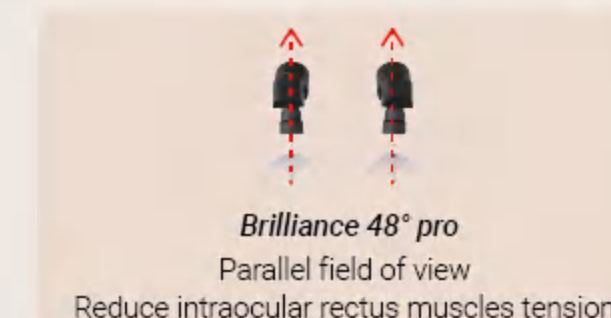
Newly upgraded frame for easy lens customization

- Detachable eyeglass frame for quick lens swapping

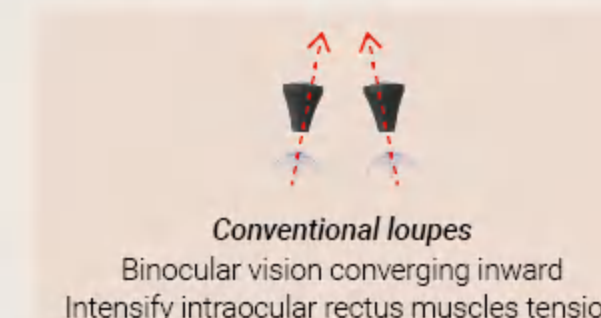


Flexible focus & pupil distance adjustment to prevent eye strain

- 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



Brilliance 48° pro
Parallel field of view
Reduce intraocular rectus muscles tension



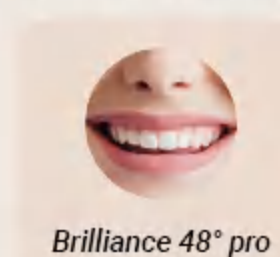
Conventional loupes
Binocular vision converging inward
Intensify intraocular rectus muscles tension

5x magnification: all oral details at a glance

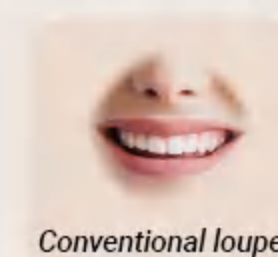
- Provide 5x magnification and up to 81mm of maximum field of view

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 button 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.

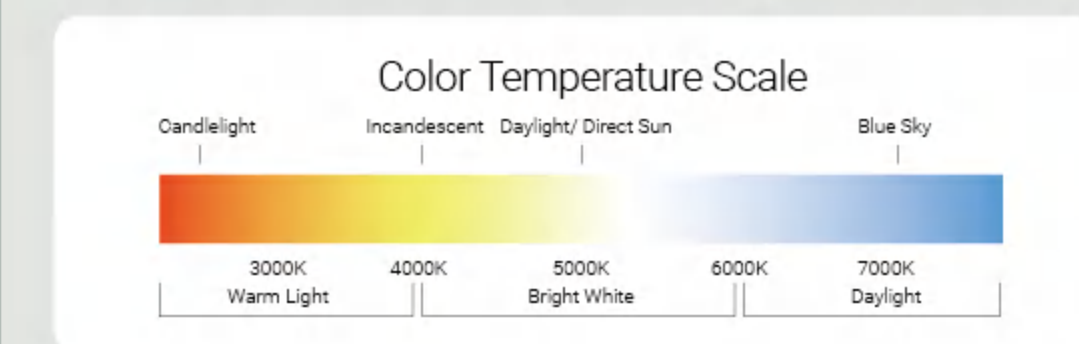
CRI 90

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 Eighteeth 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

>80%



<60%



<40%



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

MOTORSURG



User-friendly

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



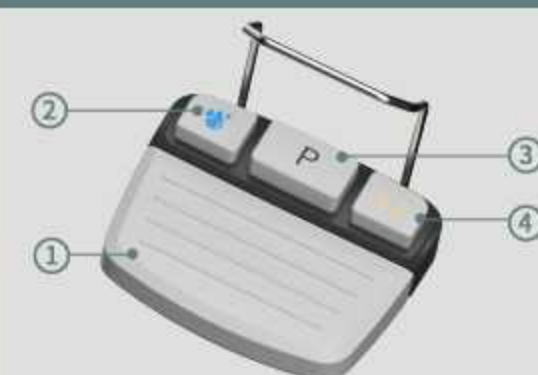
- Data recording
Data can be downloaded and analyzed by USB flash disk.

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



Multi-functional foot pedal

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



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

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



Foot Pedal



Cartridge Container-M

Cartridge Container-UN

Handpiece



Main Unit



O-ring (5 pcs)

Handpiece Support

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 real-time remaining dose

Patent number "ZL 2022 1 0413056.4"



Normal



Fast



PDL



Dosage

4 injection modes, multiple options for effective pain relief



- 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
- Memory programmes switching (M1-M4)
- Transmission ratio presets (1:5 1:1 16:1 20:1)
- Foward/ Reverse
- Speed adjustment



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		
Weight	600 g	Ratio	1:5
Memory programmms	M1-M4	Motor connector	Comply with ISO 3964
Transmission ratio presets	1: 5 1: 1 16: 1 20: 1	Chuck type	Push-button chuck
Motor speed range	2000-40000 rpm	Bur dimension	Bur shank Ø 1.6 m
Motor torque	Max. 3.0 Ncm	Optical fiber	Light guide glass
Power cable length	1.5 m	Cleaning/Sterilisation	Steam autoclave up to 135°C
Motor tail wire length	2 m		



E-Sanit

Steam Sterilizer



Specifications

Model	Power rating	Sterilization room volume	Sterilization room size	Size	Weight
E-Sanit 18	AC220V/50Hz	18L	247*348 mm	620*421*500mm	46kg
E-Sanit 23	AC220V/50Hz	23L	247*448 mm	620*421*500mm	49kg

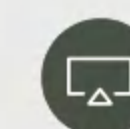


Intelligent



Patented anti-siphon technology

Prevent secondary pollution by blocking liquid backflow
Patent number "ZL 202310344487.4"



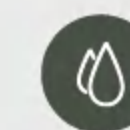
6.15" Large Screen

User-friendly LED 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

90% water consumption compared with other brands



E-Sanit



Other Brands

8 programs meet diverse user needs while ensuring the utmost effectiveness

(A complete sterilization in just 25 minutes in the rapid mode)



Reliable

Dual Overheat Protection

Automatically stop heating to prevent equipment from overheating with dual sensors detecting abnormal temperature changes



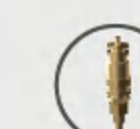
Precise

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