# Eighteeth

Instagram  Website  YouTube  Youtube-EDA Channel  Facebook  Tik Tok

## Innovate Dentistry With Eighteeth

www.eighteeth.com

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Eighteeth

# CATALOG

# CATALOG

## 5 Implant & Surgery Systems

## 6 Large Equipment

# FindPex

## Apex Locator Using
## ASW Technology

**00**

## 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

| Apex Sensitivity | Apex Sensitivity | Apex Sensitivity |
|---|---|---|
| ◄ Low ► | ◄ Mid ► | ◄ High ► |

## 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

IPS    Normal

Up 60°

Left 60°    Right 60°

Down 60°
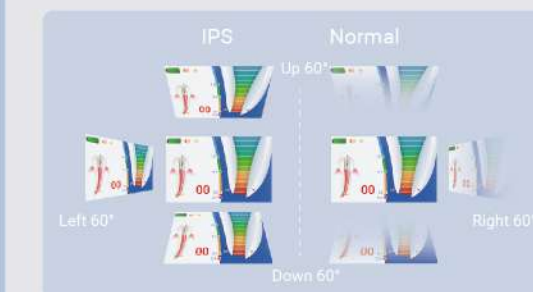
- Upgraded touch buttons

## Intuitive Operation

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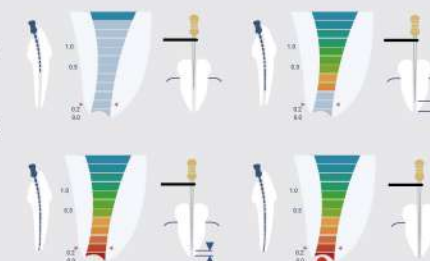
## Long-lasting Durability

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

# E-PEX

## Smart Apex Locator

## Integrate Endomotor with Apex Locator (Connect Function)

- **A** 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 |
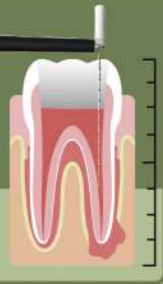
# *AirPex*

## Wireless Apex Locator

International Patent
No.:PCT/CN2019/110429

00
2
1
0
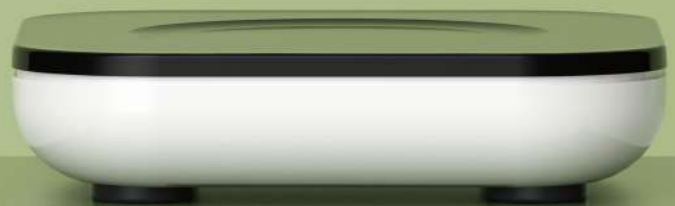
## Feel the Charm of Wireless Charging

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 BLUE

E-FLEX GOLD

E-FLEX MINI

E-FLEX EDGE

# 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 pos t erior 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

| MD 30° 150° | MD 150° 30° | MD 180° 30° | MD 210° 30° | MD 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
- Digital OLED Display
- Low Noise Motor
- Ambidextrous * Display

- Powerful 1500 mAh Lithium Battery
- Integration Option
- Screen Cast / Mirroring

*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
- 360° Clockwise Rotational Movement
- Editable Speed / Rpm Setting
- Editable Torque setting

- Forward Direction of Rotation
- Reverse Direction of Rotation
- Torque Auto Reverse

### 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

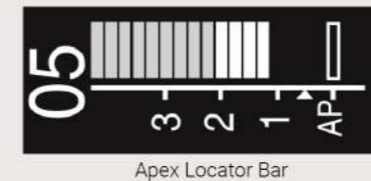**OLED Screen**
Digital OLED Display

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

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



M0 - Stand Alone Apex Locator Mode

Apex Locator Bar

Zoom-in & Flash Bar
(when file goes beyond 0.5mm)

## 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

**Myfile**
M9    800 rpm
REV   1.5 N·cm

Built-in File System

**New File**
Myfile
E-FLEX EDGE
E-FLEX GOLD

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

**New file**
123 q w e r t y u i o p
ABC a s d f g h j k l _
x z x c v b n m . ✓

**File name**
New file

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**
New File
Myfile
E-FLEX EDGE

**New File**
250 rpm   2.5 N·cm
2/19   +

"New file" mode can be chosen to use

**New File**
Add one
2/19   +

**New File**
200 rpm   3.0 N·cm
2/19   4/25   +

**New File**
04/25   200 rpm
FWD   3.0 N·cm

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

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

New contra-angle head    Normal head & neck

## Built-in File System

```
My Mode          [battery]
  M1       350rpm
Fwd      2.0N· cm
```
**Built-in File System**

→

```
Fwd 300rpm 3.0N cm
My Mode
E-FLEX BLUE
E-FLEX S
E-FLEX
```
**Long Press S to enter
the Mode Setting interface**

→

```
E-FLEX BLUE      [battery]
  M1       300rpm
Fwd      3.0N· cm
```
**Choose the Endo File
being used and press S**

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

Torque Below Pre-set Limit        Torque Reaches Pre-set Limit        Torque Below Pre-set Limit

Forward Rotation        Reciprocation (ATC Mode Active)        Forward Rotation
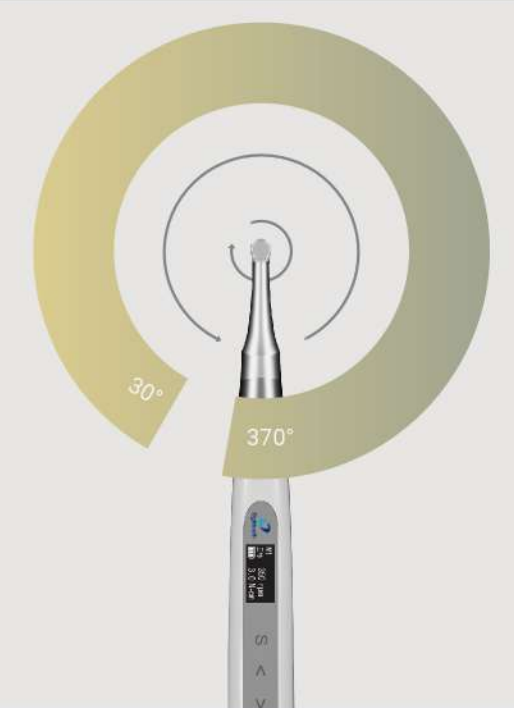
# Ultra X

## Cordless Ultrasonic Activator

### Available Tips

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

**X Gold**
Super Powerful

**X Blue**
Flexible

**X Silver**
Soft & Flexible

**Autoclavable Tips**

**Smooth Surface Finish**

**Flexible Tips**
*Only X Blue & Silver are 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
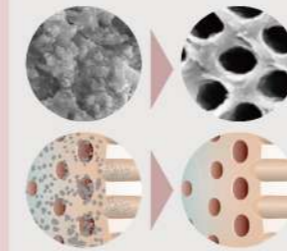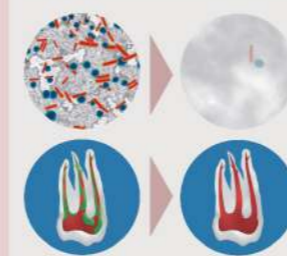
### Dentin Chips Removal
Ultrasonic agitation forms suspension of residual dentinal chips and tissue remnants with irrigant and facilitates their easy removal

## 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 irriation 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 fll 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, EMS type handpiece*1

Autoclavable plastic box-
tips*6, universal wrench*1, Satelec type 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.

900ml

Detachable handpiece with LED-
autoclavable, ergonomic, brighter visibility
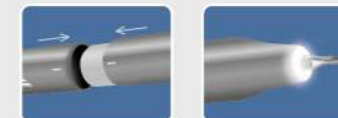
Detachable and autoclavable handpiece holder, resists cross-infection

Water control directly from handpiece
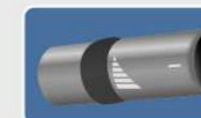
Ergonomic foot pedal

2cm

• Satelec type

• EMS type

## 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 (EMS type and Satelec type) provided by Eighteeth are compatiable with UltraMint & UltraMint Pro.*
Scaling can be as convenient as you can imagine.

*Satelec and EMS are trademarks of Acteon® and EMS® , respectively.

## 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 frequence tracking
Ensures machine works on optimim frequency

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

- EMS type tips

- Satelec type tips

blue-ringed

- EMS type handpiece

- Satelec type handpiece

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

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

## Scaling

| G1 | G1-S | G2 | G2-S |
|---|---|---|---|
| Removal of supragingival calculus | | Removal of significant supragingival calculus | |

| G4 | G4-S | G5 | G5-S |
|---|---|---|---|
| Used for supragingival and interdental space scaling | | Removal of marginal supragingival calculus and plaque | |

*Satelec and EMS are trademarks of Acteon® and EMS®, respectively.

## Periodontic

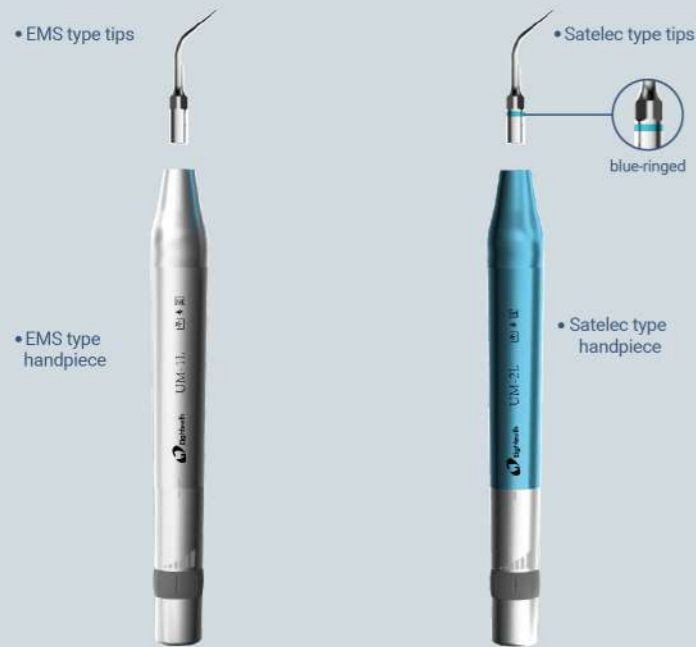| P1 | P1-S | P3 | P3-S |
|---|---|---|---|
| Removal of subgingival calculus and periodontal irrigation | | Removal of calculus deep in periodontal pocket and its irrigation | |

| P4 | P4-S | P52 | P52-S |
|---|---|---|---|
| Removal of calculus in shallow pockets | | Supragingival scaling | |

| P50L | P50L-S | P50R | P50R-S |
|---|---|---|---|
| Used for subgingival calculus probing, subgingival proximal surface scaling and root planing | | | |

| P53L | P53L-S | P53R | P53R-S |
|---|---|---|---|
| Used for subgingival calculus probing, subgingival proximal surface scaling and root planing | | | |

| P59 | P59-S | P56 | P56-S |
|---|---|---|---|
| Used for subgingival calculus probing and scaling | | Removal of significant supragingival calculus and plaque | |

| P3D | P3-SD | P4D | P4-SD |
|---|---|---|---|
| Used to level off the surface of endo after the periodontal flap surgery | | For locating root canal and removal of calcification from one-third of crown | |

*Satelec and EMS are trademarks of Acteon® and EMS®, respectively.

## Endodontic

| E1 | E1-S | E3 | E3-S |
|---|---|---|---|
| 120° angle holder for 0.7mm-0.8mm endo file for root canal cleaning | | For lateral condensation of gutta percha by heating effect | |

| E4 | E4-S | E5 | E5-S |
|---|---|---|---|
| Removal of foreign filling material during retreatment | | | |

| E6 | E6-S | E7 | E7-S |
|---|---|---|---|
| Removal of foreign material in cavity to access canal orifice | | Removal of broken instrument | |

| E8 | E8-S | E9 | E9-S |
|---|---|---|---|
| Flexible and used to brush the canal walls during retreatment | | Removal of broken instrument | |

| E10 | E10-S | E3D | E3-SD |
|---|---|---|---|
| Used for root planning in the retrograde preparation of root canal | | Enlargement of the canal walls to remove the broken instrument | |

| E30 | E30-S | E30-SD |
|---|---|---|
| Removal of deep foreign particles in canal | | |

## Endodontic

| E31 | E31-S | E31-SD |
|---|---|---|
| Removal of foreign particles from one-third of the canal | | |

| E4D | E4-SD | E5D | E5-SD |
|---|---|---|---|
| Removal of hard material in canal during retreatment | | Removal of hard material in canal during retreatment | |

| E6D | E6-SD | E7D | E7-SD |
|---|---|---|---|
| Removal of foreign material in cavity to access canal orifice | | Removal of calcification and filling material in cavity to access canal orifice during retreatment | |

| E8D | E8-SD | E9D | E9-SD |
|---|---|---|---|
| Used for root canal restrogression, efficient root apical polishing | | Removal of broken instrument | |

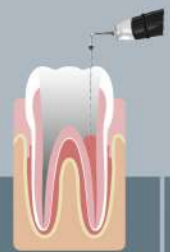| TC1 | TC1-S | TC1D | TC1-SD |
|---|---|---|---|
| Removal of cervical caries and caries on the occlusal surface | | | |

# Fast-Pack pro & Fast-Fill

## 3D Obturation Devices

# Fast-Pack pro

## Obturation Pack Handpiece



### 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<br>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<br>(Black)<br>40/0.025 - 1 Qty | Medium<br>(Yellow)<br>50/0.05 - 1 Qty | Large<br>(Blue)<br>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 ℃ - 200 ℃
- 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

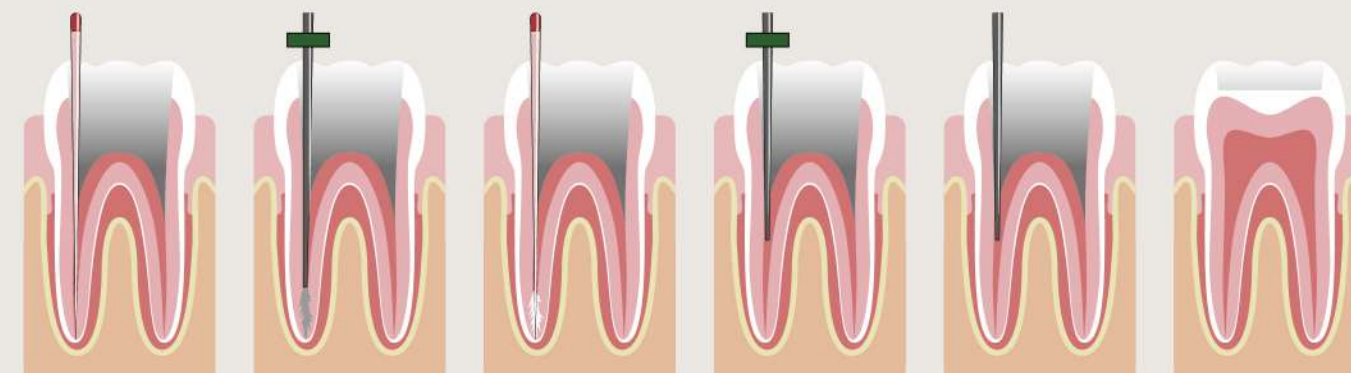| | |
|---|---|
| Heating Time | 20 seconds to 200 ℃ |
| Charging Time | 4 hours to complete charge |
| Hexagonal Wrench | Use the wrench to bend the tip, rotate the tip and clean the device |

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



6%/0.06
4%/0.04
ISO 2%/0.02
d₁
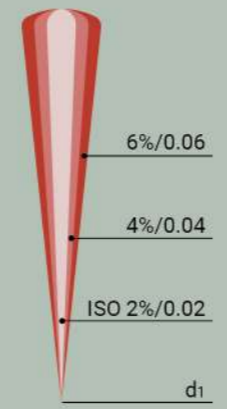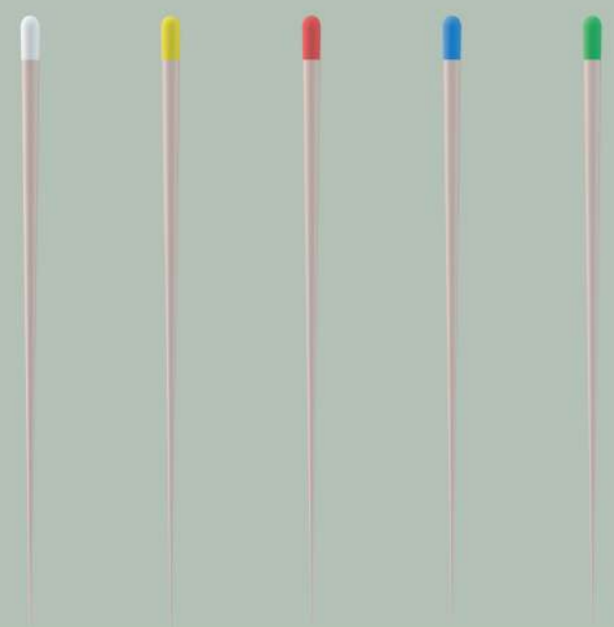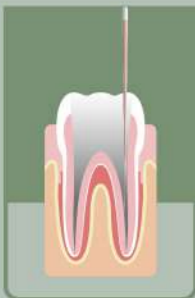
Ideal for obturating root canals which have been prepared with GT files, Profile, Quantecs, etc.
Greater Taper 0.04 and 0.06 are available in assorted or individual sizes. At the top of points(d1), the diameter corresponds to the ISO size, but then the conicity is greater than ISO points.

| | | | | Color | GP | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gutta Percha Points (0.02 Taper) Packed Q'ty/Box: 120Points/Per Box | NO.15 NO.20 | NO.25 NO.30 | | ○ white ● yellow ● red ● blue | GP | 15 | 20 | 25 | 30 |
| Gutta Percha Points (0.04 Taper) Packed Q'ty/Box: 60Points/Per Box | NO.20 NO.25 | NO.30 NO.35 | | ● yellow ● red ● blue ● green | GP | 20 | 25 | 30 | 35 |
| Gutta Percha Points (0.06 Taper) Packed Q'ty/Box: 60Points/Per Box | NO.20 NO.25 | NO.30 NO.35 | | ● yellow ● red ● blue ● green | GP | 20 | 25 | 30 | 35 |
| Gutta Percha Points (F2) Packed Q'ty/Box: 60Points/Per Box | NO.25 Gutta Percha Points (for Pro Taper Gold) F2 | | | ● red | GP | | 25 | | |
| Gutta Percha Points (F3) Packed Q'ty/Box: 60Points/Per Box | NO.30 Gutta Percha Points (for Pro Taper Gold) F3 | | | ● blue | GP | | 30 | | |

# Absorbent Paper Points
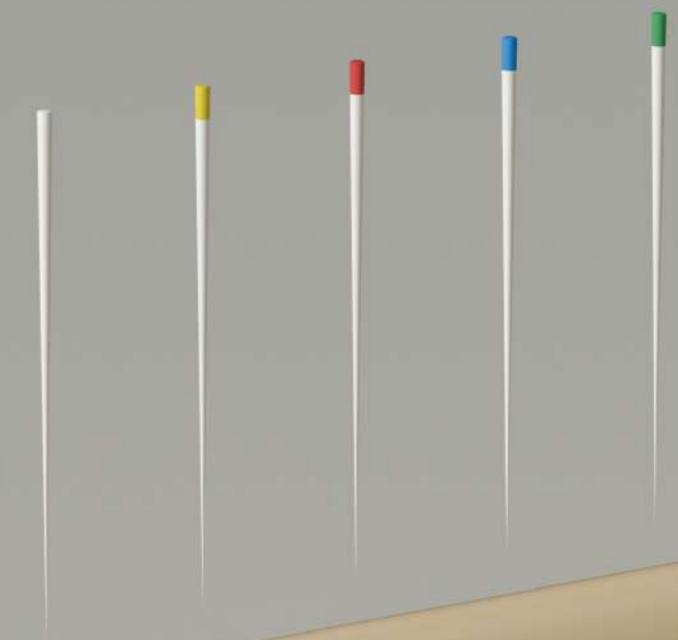


| | | | | Color | PP | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Absorbent Paper Points (0.02 Taper) Packed Q'ty/Box: 200Points/Per Box | NO.15 NO.20 | NO.25 NO.30 | | ○ white ● yellow ● red ● blue | PP | 15 | 20 | 25 | 30 |
| Absorbent Paper Points (0.04 Taper) Packed Q'ty/Box: 100Points/Per Box | NO.20 NO.25 | NO.30 NO.35 | | ● yellow ● red ● blue ● green | PP | 20 | 25 | 30 | 35 |
| Absorbent Paper Points (0.06 Taper) Packed Q'ty/Box: 100Points/Per Box | NO.20 NO.25 | NO.30 NO.35 | | ● yellow ● red ● blue ● green | PP | 20 | 25 | 30 | 35 |
| Absorbent Paper Points (F2) Packed Q'ty/Box: 100Points/Per Box | NO.25 Absorbent Paper Points (for Pro Taper Gold) F2 | | | ● red | PP | | 25 | | |
| Absorbent Paper Points (F3) Packed Q'ty/Box: 100Points/Per Box | NO.30 Absorbent Paper Points (for Pro Taper Gold) F3 | | | ● blue | PP | | 30 | | |
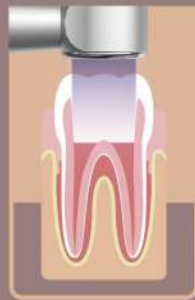
# CuringPen

## 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

Smart controlling chip
keeps light output consistent
Light intensity:
$1000mw/cm^2$, $1500mw/cm^2$, $2300mw/cm^2$
$600 mw/cm^2$(detect mode)
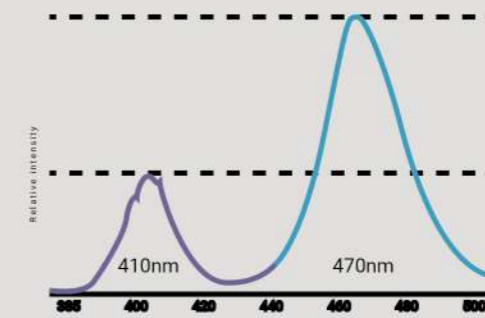
Wavelength:385-515nm
3 Blue, 1 Violet, 10w LED

410nm    470nm
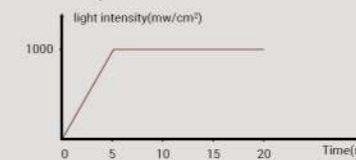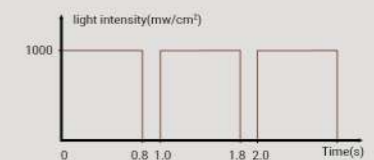
360° rotatable head

Intensity digital display

MO 2300mW/cm² 02s

Multiple Curing Options

Ramp mode

Pulse mode

light intensity(mw/cm²)

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/cm², 3 Sec |
| Maximum Light Intensity | : 3000 mw/cm² |
| Spectral Range | : 380-515 nm |

**Eighteeth**

## 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

### •P3

**Ultra Mode**
Light Intensity : 3000mw/cm²
Time Setting : 1s, 3s, 5s

### •P4

**Pulse Mode**
Light Intensity : 1200mw/cm²
Time Setting : 5s, 10s, 15s, 20s

### •P5

**Ramp Mode**
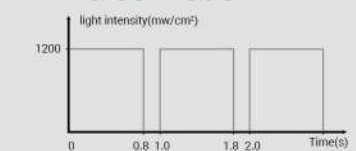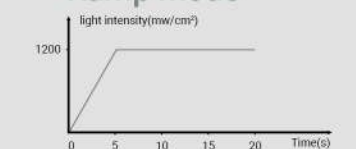Light Intensity : 1200mw/cm²
Time Setting : 5s, 10s, 15s, 20s

**Pulse mode**

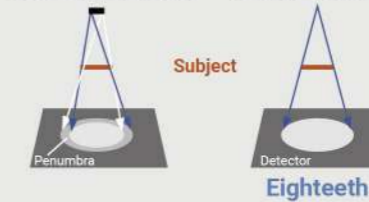**Ramp mode**

# *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

Subject

Penumbra    Detector

Eighteeth

**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**

READY
Angle
**20°**
60 S

READY
Angle
**-20°**
60 S

20°

-20°
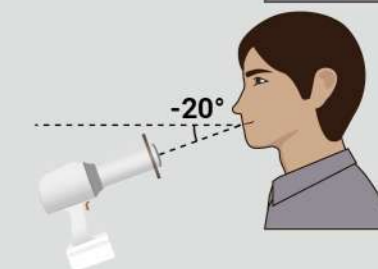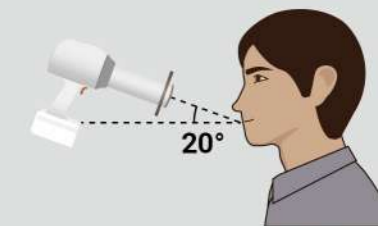
## Maximize your diagnostic potential

**Perfect combination**

# HyperLight-G

## Portable X-ray Unit

**65kV 2mA**
**0.05** SEC

### 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

**READY** **65kV 2mA**
**08°**

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 |

HyperLight-G

# NanoPix

## Intraoral X-Ray Sensor

1/10 Cost per patient compared to film
3s To complete entire imaging process
50000+ Exposures with no quality loss

## Leading technologies : The 1st time in dentistry

### AED Technology (Automatic Exposure Detection)
- from chest radiography
- Compatible with almost all DC and AC X-Ray generators
- Digital images comes automatically when your X-Ray is switched on

### APS CMOS Technology
- from aerospace industry
- High signal-to-noise ratio with maximum details
- Long life and low power consumption

### Direct Deposition CSI Technology
- from chest radiography
- Low dose radiation for safety
- Less exposure time but higher resolution

All-in-one
The most economical X-Ray sensor in the world

## Unique design

### Ergonomic design
Cupped cable connection ensures comfortable finger positioning

### Robust cable connection
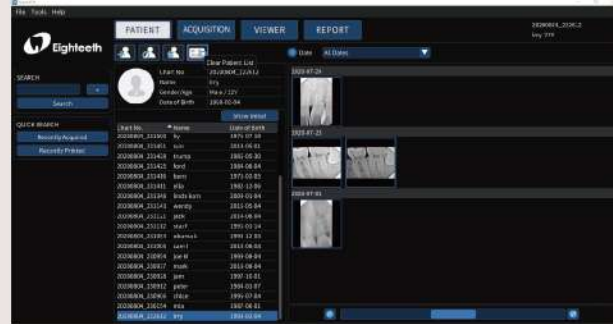70000+ Bendings RA test passed
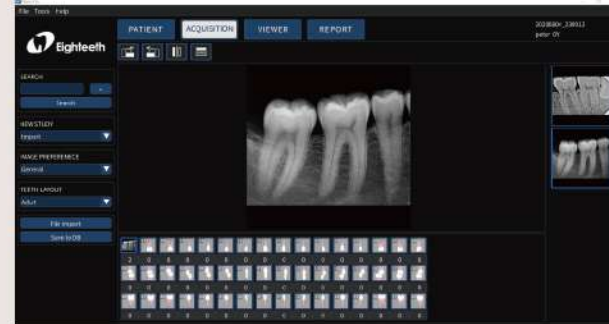
### Ultra-thin body design
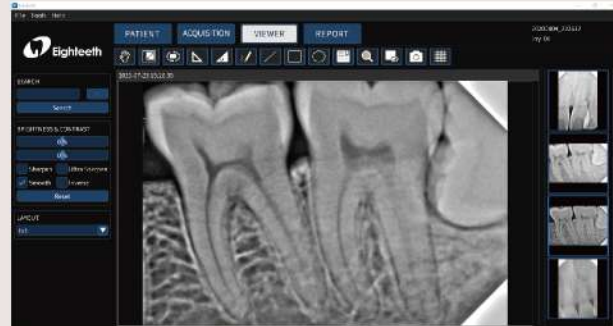4.4mm - the thinnest X-Ray sensor

# Easy-of-Use software with only 4 steps

● Step 1. Choose 'Patient'



● Step 2. Image 'Acquisition'



● Step 3. View Image



● Step 4. Generate 'Report'



## The Complete Image Solution:

excellent combination of DR Pad & its base



pre-installed software

multiple USB ports for diverse needs

build an instant connect with users

# IP68

INGRESS PROTECTION

...against SOLIDS

...against LIQUID

## Specifications(available in 2 sizes)

|  | NanoPix 1 | NanoPix 2 |
| --- | --- | --- |
| Detector Technology | APS CMOS | APS CMOS |
| Scintillator | CsI | CsI |
| Pixel Matrix | 1000*1500 | 1300*1800 |
| Theoretical Resolution | 25lp/mm | 25lp/mm |
| True Resolution | 20lp/mm | 20lp/mm |
| Active Area (mm) | 20*30 | 26*36 |
| Mechanical Size(mm) | 25.4*36.8*4.4 | 30.4*41.9*4.4 |
| AD Conversion(bit) | 16 | 16 |
| Data Interface | USB 2.0 | USB 2.0 |
| Protection | IP68 | IP68 |

# NanoPix-E 1.3

## Intraoral X-Ray Sensor

### 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.

22 mm
Average size
of molar

NanoPix-E 1.3

30 mm

22 mm

30 mm
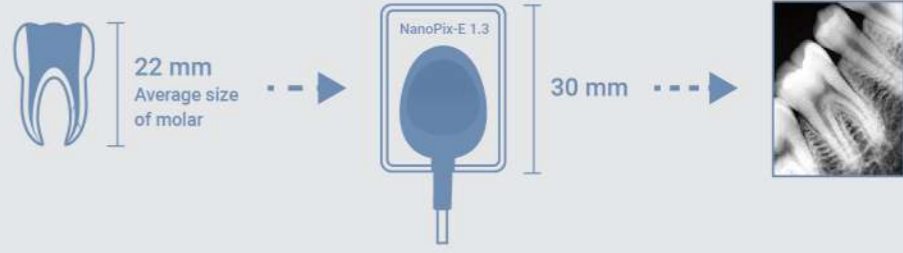
NanoPix 1.3

### 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

## 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 |

# FinScan F350

## Oral and Maxillofacial CBCT Equipment

### Large view in one-step: 16x10cm high level configuration

- Widely applied in routine oral diagnosis, implant surgery, ENT, plastic surgery, etc
- 4*4 & 8*8 FOV are provided to meet the clinical needs of various fields of view in different complex surgeries

### Small size but comprehensive functions

- Compact body with fluid aesthetic design
- Flexible layout with 700mm lifting range and no need fixation

CBCT

Ceph

Pano

### Ultra high definition images with faster scanning

- Large-area amorphous silicon detector. Achieve stable shooting and high-resolution images quality
- Original imported Tube from Canon. Provide high quality images with 0.5mm focal spot
- Intelligent cooling technology. Ensure continuous shooting and stable output
- AI intelligent noise reduction. Reduce noise and restore images clarity

### Images are available in just 9 seconds!

- High-resolution reconstruction algorithm based on further learning. Enables high-quality images at a low-dose and fast scanning of only 9 seconds

### Scanning Time

- CBCT: 9 S or 18 S
- Panoramic: 14 S
- Cephalometrics: 8 S or 6 S

### Professional, intelligent and efficient software

- Improve diagnostic efficiency. The software interface includes: MultiPlanar Reformation(MPR), Curved Planar Reformation(CPR), 3D Panorama, Mandibular Canal Tracing, 3D cropping, customized 3D rendering and conventional measurement
- Convenient doctor-patient communication. Panoramic images can be marked on demand. And the equipment can be quickly reset
- Intelligent data management. Real-time access to patient imaging data under LAN, which supports data backup and recovery, allowing doctors to read images anytime and anywhere for smooth diagnosis and treatment
- Efficient digital diagnosis and treatment. Workstation type software architecture, meet your needs from A to Z
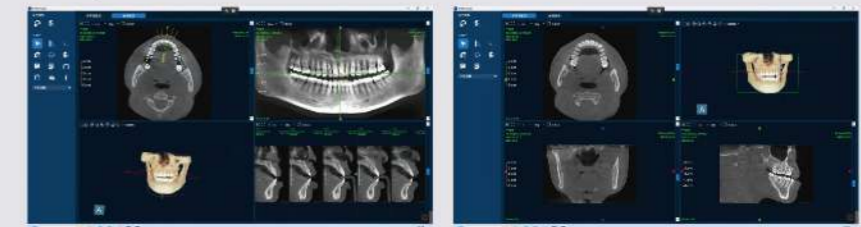
## Professional team and quick response

Various customer service platforms are available 24 hours a day

## Remote interconnection and real-time service guarantee

Monitor the operating status of the equipment in real time, manage it with algorithms based on customer usage frequency, predict failures in advance and alarm on the equipment side

## Professional technical training

Professional after-sales team provides comprehensive technical support and services

## All-around leading core structure

- L-shaped base provides stable support without the need for fixation on walls and floors, free to move and space-saving
- Considerate design of the storage box under the equipment to storage belongings
- Real-time voice prompts the patient's posture and frees the medical staff

## Technical specifications

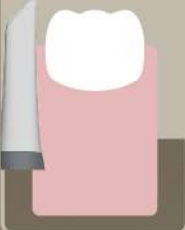| Xray Beam | | Cone beam (pulsed mode) | Patient Location | Stand |
|---|---|---|---|---|
| Tube Voltage | | 60kV ~ 100kV | Patient Positioning | Height: Electric lifting column<br>Head: Manual adjustment |
| Focal Spot | | 0.5mm | | |
| Voxel Size (mm) | | 0.10, 0.15, 0.20, 0.25, 0.30 | Control Device | Laser light: touch panel<br>Exposure & image acquisition: workstation |
| Detector Type | CBCT+Pano | Cesium iodide , TFT | | |
| | Ceph | Cesium iodide, CMOS | Equipment Size | 1997mm×1242mm×2281mm |
| Image Grayscale | CBCT+Pano | 16 bits | | |
| | Ceph | | Net Weight | 220 kg |
| Scan Time | CBCT | 9s or 18s | Installation Method | Upright |
| | Pano | 14s | Workstation | Operating system: Windows 11 64-bit<br>Memory: 16G |
| | Ceph | 8s or 6s | | |
| Reconstruction Time | | ≤ 60s | Maximum FOV (CT) | 16cm × 10cm |

## Product Size
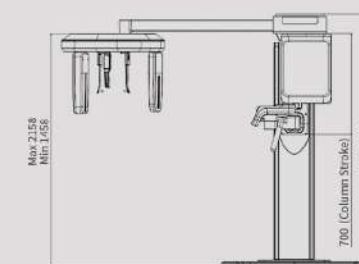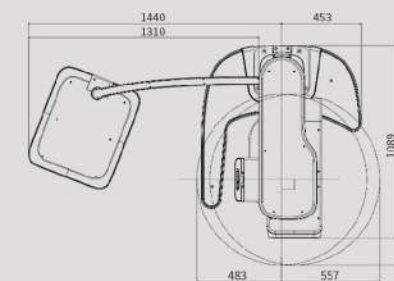
Product Vertical Height Range (mm):
1581-2281 (the max lifting height is 700mm)

Column Longitudinal Movement Range (mm):
≥600

Product Weight:
260Kg (packaging not included)

# Helios 500

Intraoral Scanner



## Why Helios 500?

### Fit for your budget
The price of HELIOS 500 is affordable by almost everyone, and at the same time, it provides high performance.

### Improve your digital workflow
One of the most accurate and fastest scanners on the market.

### Free your hands
Automatic and adaptive calibration, manual calibration is not necessary any more.

### Make your experience comfortable
Smaller and lighter while achieving a 16mm x 14mm high-definition field of view. More friendly to people with sensitive teeth. (*The air duct inside the body has been upgraded.)

**Accuracy**
As one of the most accurate scanners on the market, HELIOS 500 has reached the state-of-the-art accuracy level- the average deviation of a in-vivo full arch scan is around 20.0μm.

**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

# Helios 500

Anti-Fogging
Powder-Free
LED light source

L
16mm x 14mm

S
12mm x 12mm

2 optional sizes

Removable and 180° reversible tip

Attitude sensor for a better interaction with customers

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

USB port for power delivery and data transfer. Replaceable with Type-C port

Firm body design with durability

Detachable cable
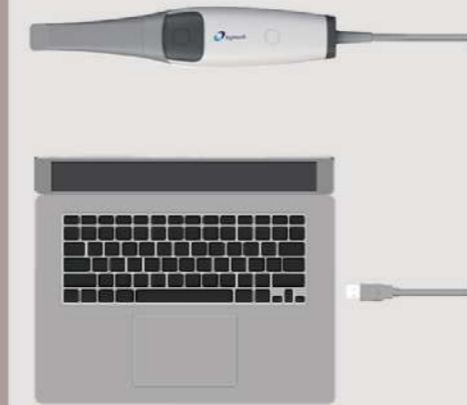
Eighteeth

## Plug & Scan

- Smart Reminder
- Automatic software update
- Cloud Storage
- Online 3D viewer
- Air mouse
- Timely after-sales service
- Voice Note
- Scanner Status Icons

## Specification

Helios 500

| Accuracy | Full-arch | 20.0μm |
|---|---|---|
| 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 |
| Data | Output format | STL/PLY |

### Recommended System Requirements

| Processor | Intel@CoreTM i5 12th Generation, base frequency 2.4 GHz (or better) |
|---|---|
| Memory | 16GB (or more) DDR4, frequency 2666 MHz (or better) |
| Hard Drive | 256GB (or more) SSD |
| Graphics card | NVIDIA®GeForce®GTX 1650 (or better) |
| Display | 15.6" FHD (1920 x 1080) (or more) |
| Others | USB 3.0 port |
| Operating system | Windows 10/11 |
| Optional | Touch screen |

# Helios 600

## Intraoral Scanner



## Start your smooth digital journey with Helios 600!

### Why bother?
High accuracy with automatic and adaptive calibration, manual calibration is not necessary any more.

### Ready for your digital experience-
One of the most accurate and fastest scanners on the market.

### Ready for your hand-
Small enough to operate it easily,
though it achieves a 16mm x 14mm high-definition field of view.

### Lighter
198 grams, one of the most lightweight scanners on the market, well-balanced, ergonomically designed, and easy to carry.

### Faster
With Helios 600 you can take a full arch scan in less than 30 seconds.

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

### More accurate
As one of the most accurate scanners on the market, Helios 600 has reached the state-of-the-art accuracy level- the average deviation of a in-vivo full arch scan is around 20µm.

# Helios 600

Not only a comprehensive intraoral scanner,
but also an intraoral camera!

L
16mm x 14mm

S
12mm x 12mm

Removable scanner tip - 2 optional sizes

LED Light Source
Powder-Free
Anti-Fogging

Attitude sensor for a better
interaction with customers

Two start /stop buttons are provided
on both sides for easier scanning

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

USB port for power delivery and data transfer

Firm body design with durability

## Plug & Scan
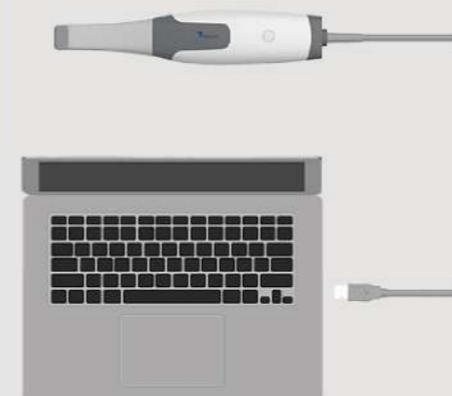
- Smart Reminder
- Automatic software update
- Cloud Storage
- Online 3D viewer
- Air mouse
- Timely after-sales service
- Voice Memo

## Specification

Helios 600

| Accuracy | Full-arch | 20.0μm |
|---|---|---|
| Scan area | 16 x 14mm (L) | |
| | 12 x 12mm (S) | |
| Handpiece | Dimension | 219 x 46 x 36mm |
| | Weight | 198g |
| | Capture button | Two sided |
| Tip | Tip size (front part) | 22 x 18mm (L) |
| | | 18.6 x 16.7mm (S) |
| Connectivity | Length | 1.8m |
| | Type | USB 3.0 |
| Calibration | Accuracy calibration | Calibration-free |
| | Color calibration | Calibration-free |
| Special mode | Remote control mode | |

Recommended System Requirements

| Processor | Intel®CoreTM i7 9th Generation, base frequency 2.6 GHz (or better) |
|---|---|
| Memory | 16GB (or more) DDR4, frequency 2666 MHz (or better) |
| Hard Drive | 512GB (or more) SSD |
| Graphics card | NVIDIA®GeForce®GTX 1650 (or better) |
| Display | 15.6" FHD (1920 x 1080) (or more) |
| Others | USB 3.0 port |
| Operating system | Windows 10 Pro |
| Optional | Touch screen |

# AcuVision X

Surgical Microscope
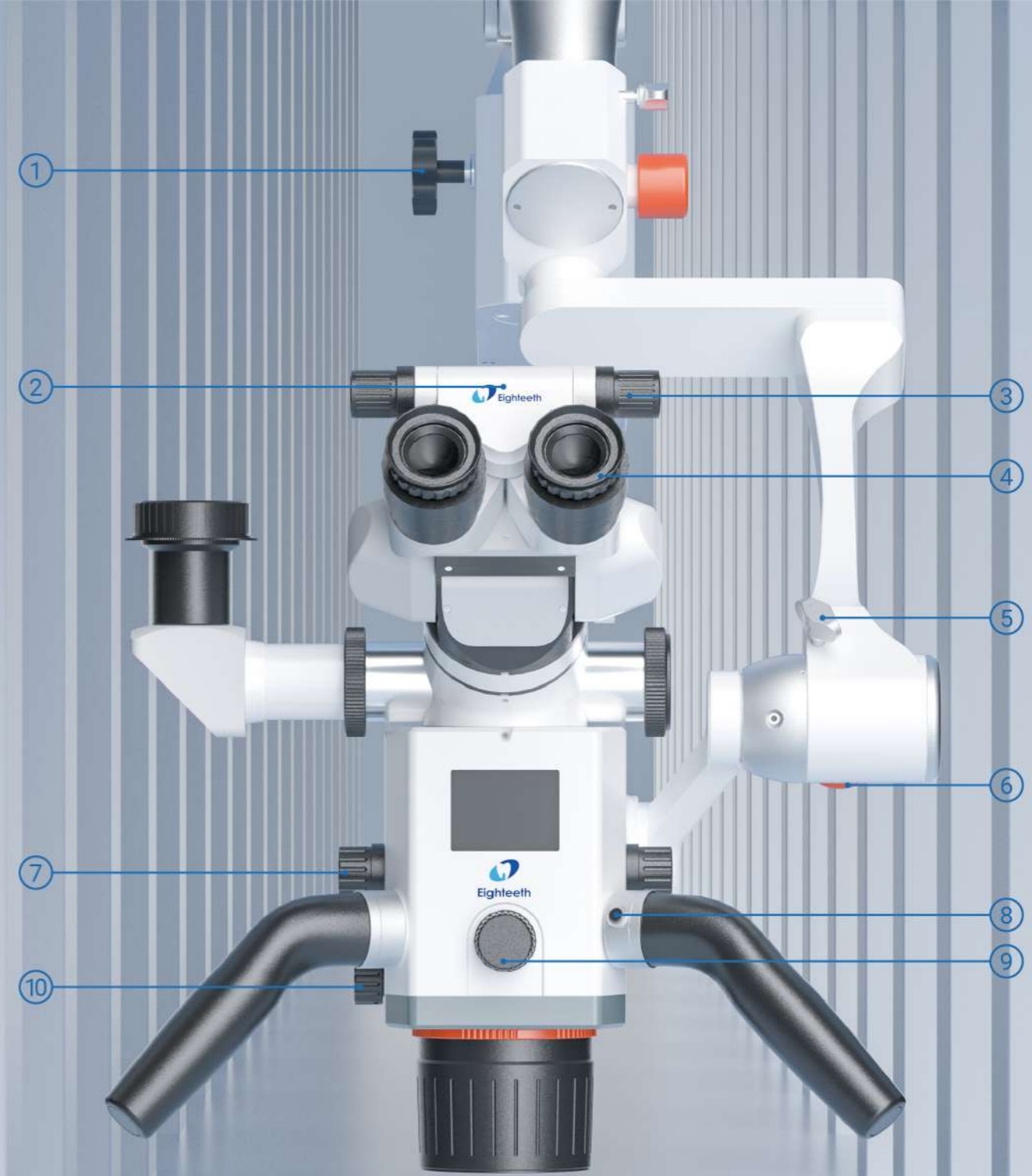


① Suspension Arm Rotation Friction Knob

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 Continous Illumination 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) 1.4X-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

190mm
270mm
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

- Illumination Filters -

**True-Light Filter**
Filtrate the wave length band which stimulates composites polymerization and curing. Compared with Orange Filter, this filter allows the dentists to identify relevant dental tissues in a more natural white-light setting

**Green Filter**
Imporoves detail visibility by enhancing the contrast of tissue with a strong blood supply

**Original Light**

**Orange Filter**
Prevents premature curing of composite

**No Glare Filter**
Suppress obtrusive light reflections effectively from the tooth surface, so that the dentists can use this cross-polarization capability to visualize fine, including relevant details such as color nuances

# 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 ±25°



## 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 ≥ 1600mm, more freedom of installation
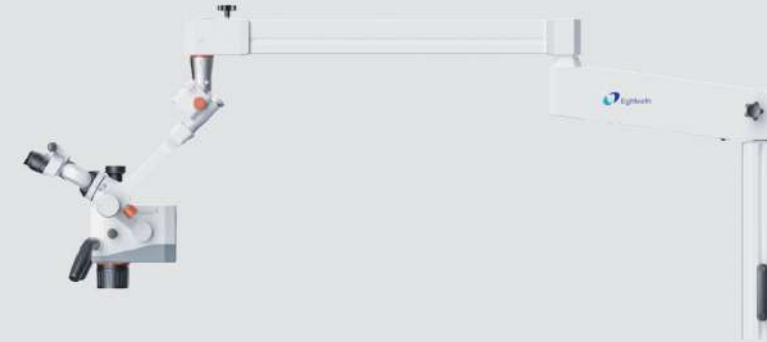


## Concise Design

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 ±60° tilt, pitch -30~+60°, 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 filers 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 | |
| Stand Configuration | Floor mount | Optional |
| Stand Configuration | Wall mount | Optional |
| Stand Configuration | 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 |
|---|---|---|---|---|
| 3.0× | 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 | 3.0× | 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
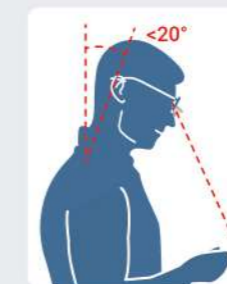
## Frame

– **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
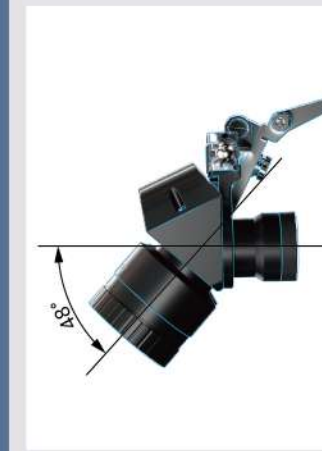
<20°

2 hinges type

3 hinges type

# Brilliance 48°

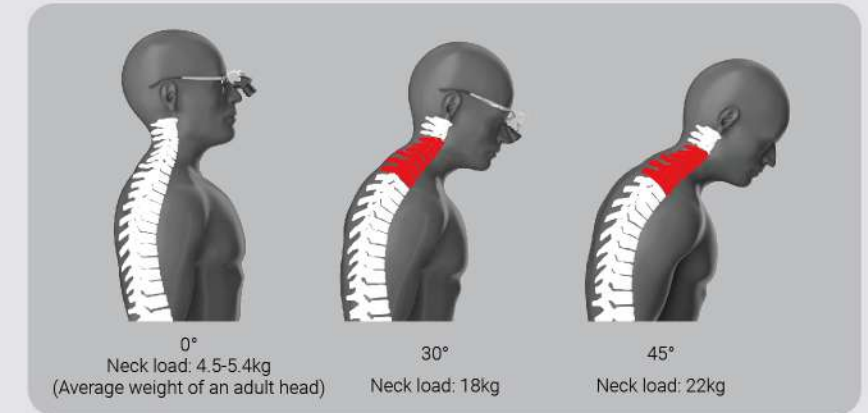## Dental Loupes

**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

| 0° | 30° | 45° |
| Neck load: 4.5-5.4kg | Neck load: 18kg | Neck load: 22kg |
| (Average weight of an adult head) | | |

### 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 |

− Adviced 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.)
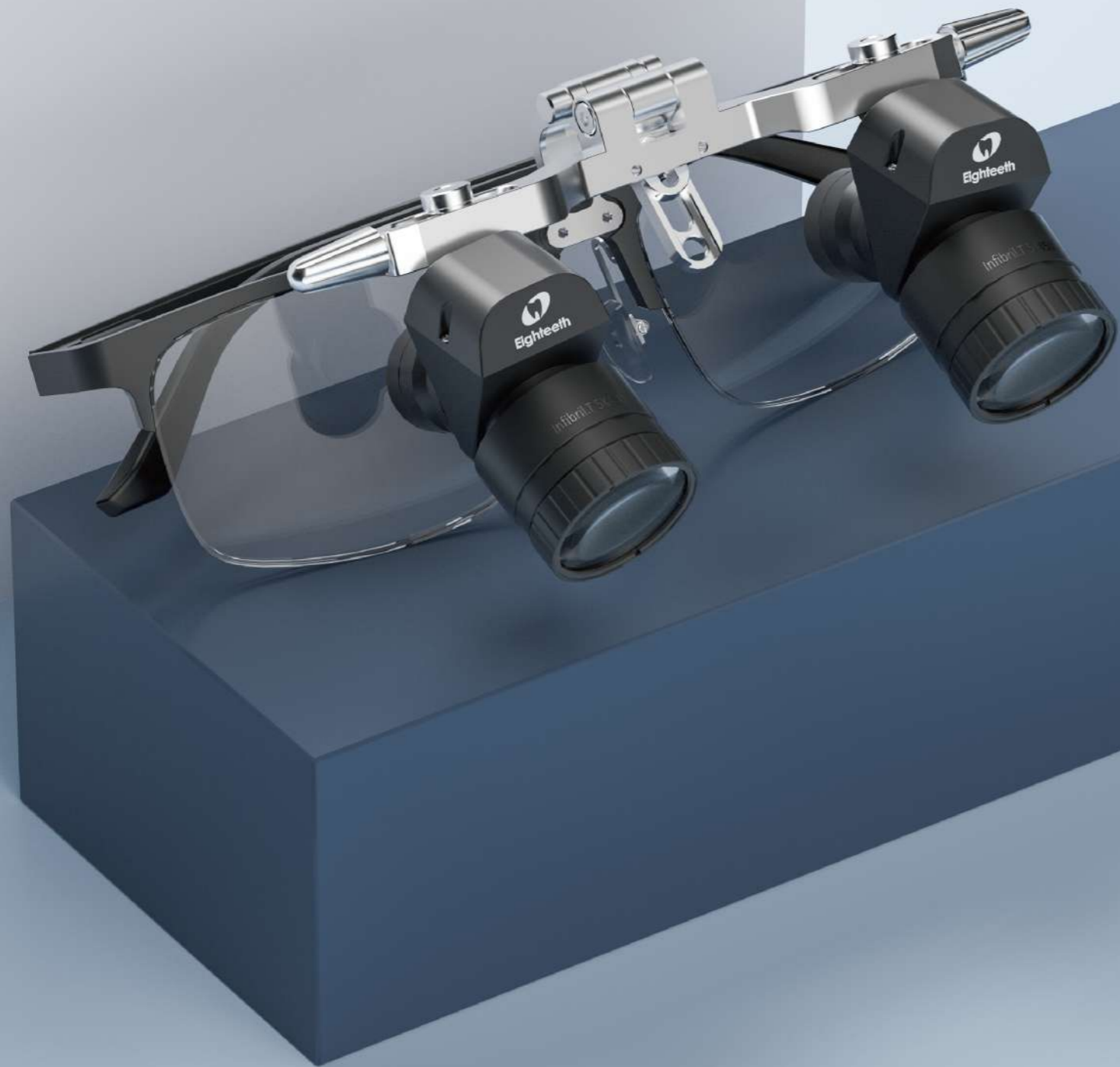
## Flip-Up

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 fatique caused by long-term surgery



Stressfree parallel viewing    Stressful inward viewing

## Adjustable pupil height

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

| Conventional Loupes | | Brilliance 48° |
| --- | --- | --- |
|  |  |  |
| Upper shadow | Lower shadow | Without any shadow |



Brilliance 48°    Conventional Loupes

### 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 protectthe 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 Headlighieasy Mount

Reserved space in the frame for Eighteeth future wireless headlight

# Softouch

## Surgical Headlight

### Super Light
Made by aviation grade alunminum, only weighs 8g.

### Top Class Light Source
True color, and máximum 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 botton clip to collar or chest pocket, avoid shaking

| Touch Dimming | |
|---|---|
| Touch for 0.3 second | Turn On/Turn Off |
| Long touch | Dimming |

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

CRI: 90 Excellent • • • CRI: 80 Good • • • CRI: 50-70 Fair

### Color Temperature 5000K
Close to the color temperature of sunlight, can reduce eye fatigue in long surgery

**Color Temperature Scale**

| Candlelight | Incandescent | Daylight/ Direct Sun | Blue Sky |
|---|---|---|---|

| 3000K Warm Light | 4000K | 5000K Bright White | 6000K | 7000K Daylight |
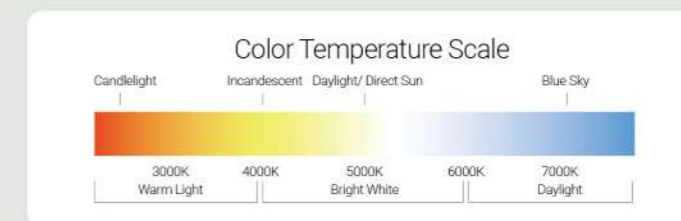
### Edge to Edge Clarity, and Flicker Free
Fascinating optical design and high quality light-source make the light spot more uniform and soft.
Flicker free avoids eye fatigue after long-time usage, and limits the damage to eyes.

Softouch | Manufacturer A | Manufacturer B

## 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 |

# *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

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

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

### Touch Control Design and Stepless Dimming
Sensitive touch technology can be used with gloves

### Battery Status Indicator
Built-in battery status indicator flashes when the battery is low

### 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

  Contra Angle Calibration

  Electric Motor 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.

| Marking | Pilot drilling | Template drilling | Tapping | Placing implant | Setting a closure cap | Free use | Rinsing |

## Strong Contra Angle

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

  Eighteeth

  Other brand

  \* 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
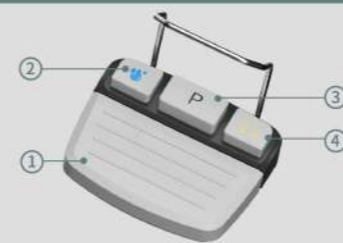
- Detachable

- Durable

# MOTORSURG
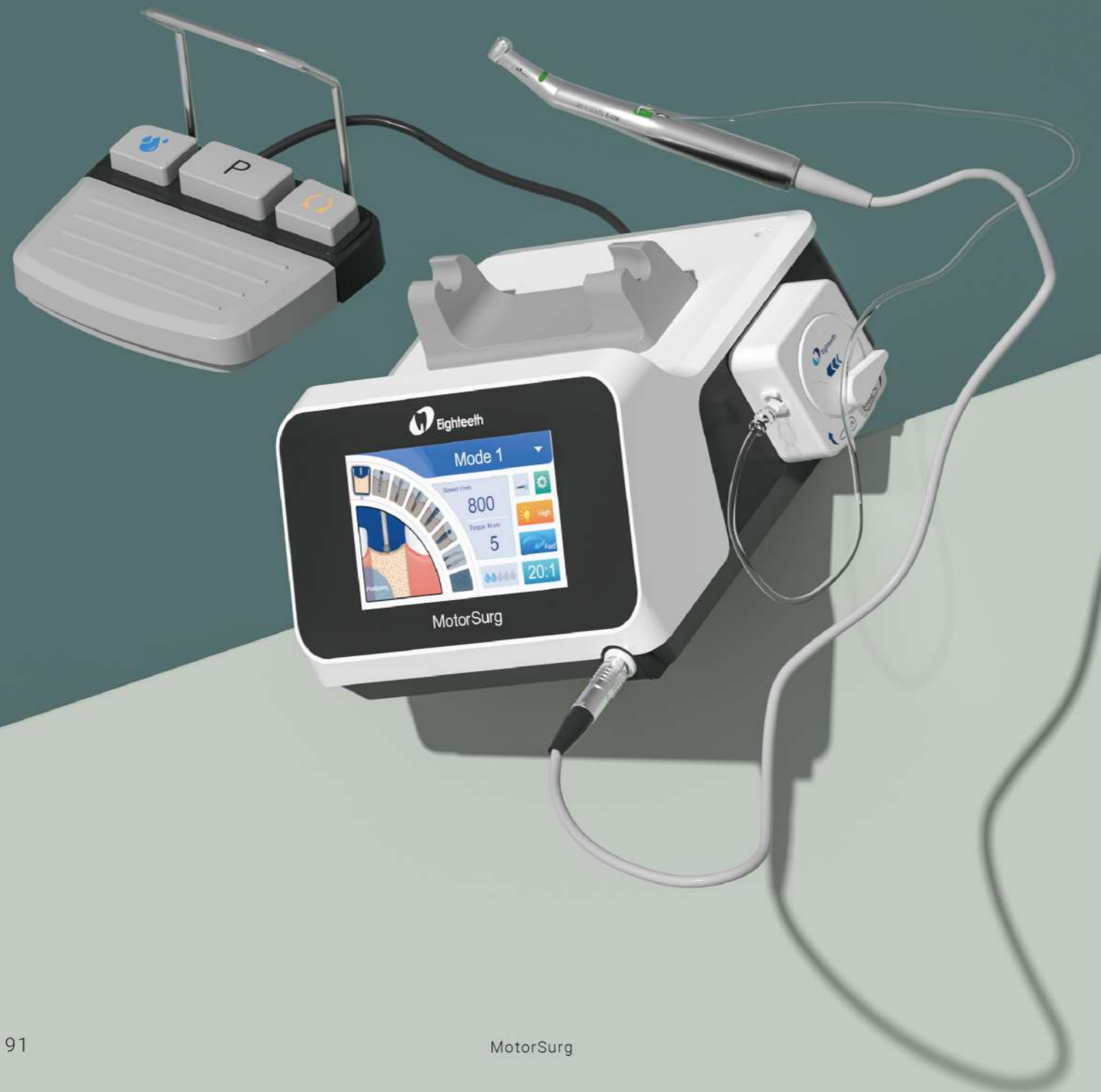
## User-friendly

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

— **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.

## Multi-functional foot pedal

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

— Intelligent, user-friendly and aseptic operation

— Compared with other brands, Eighteeth foot pedal can be started bystepping 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

Cartridge Container-M

Cartridge Container-UN

Handpiece

Foot Pedal

Main Unit

Handpiece Support

O-ring (5 pcs)

### Painless performance

**Patented Hydraulic Drive Technology**
*High-precision sensor is used for more precise control, the injection pressure is just hydraulic pressure.

**4.3 " Touch Screen**
Visualization of various functions, bringing sensory experience of visual interaction

**Smart Voice Reminder**
Timely voice reminders under low anesthesia dose and high system pressure(in PDL mode), which is safer and more secure

**High-precision Liquid Control**
Not only can achieve precise drug delivery accuracy, but also can see the real-time remaining dose

**Real-time Dynamic Pressure**
The real-time injection pressure is displayed through the pressure value and pressure histogram, bringing a painless and safe treatment

Patent number "ZL 2022 1 0413056.4"

### 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

Foward/ Reverse

Memory programms 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
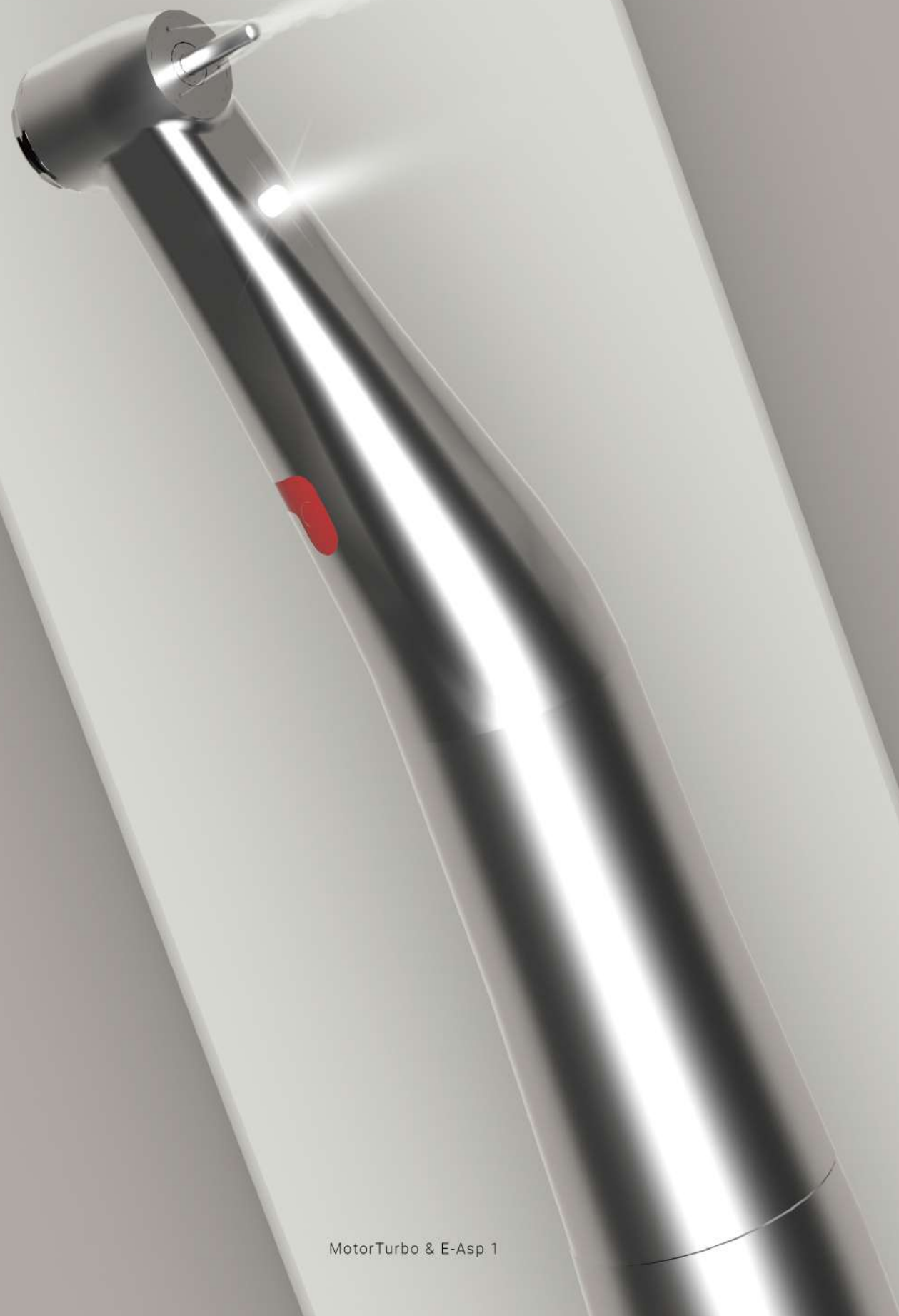
## LED fiber optics
- Shines light directly during the preparation, improving visibility tremendously
- Reduces visual fatigue and stress

## 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 | | |
| Weight | 600 g | Ratio | 1:5 |
| Memory programms | 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



## 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)

General B    Rapid S    Quick S    Protect B    Protein B

B&D test mode    Helix test mode    vacuum test 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

## 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 |