



CATALOG

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Intraoral X-Ray Sensor

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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



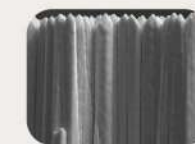
AED Technology (Automatic Exposure Detection)

- 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

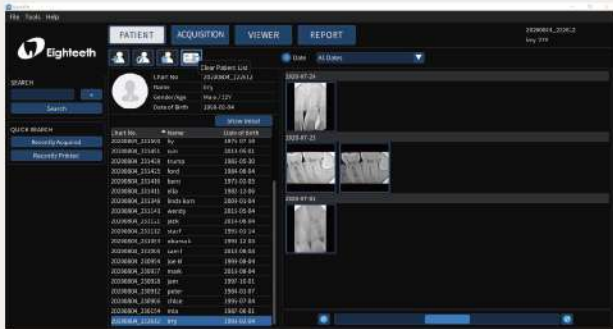


Ultra-thin body design

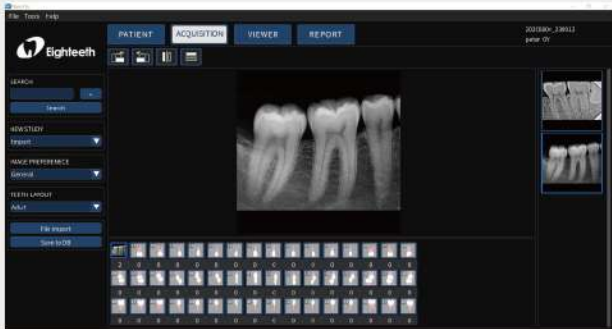
4.4mm - the thinnest X-Ray sensor

Easy-of-Use software with only 4 steps

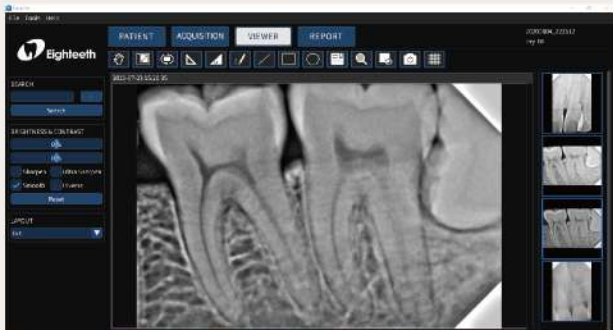
Step 1. Choose 'Patient'



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



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

E-CONNECT & E-PEX

Cordless Endomotor & Apex Locator





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



Five Reciprocation Modes (MO)



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°** 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

- 340° Adjustable Handpiece
- Detachable Head
- Miniature Head
- Autoclavable



E-PEX

Smart Apxe 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



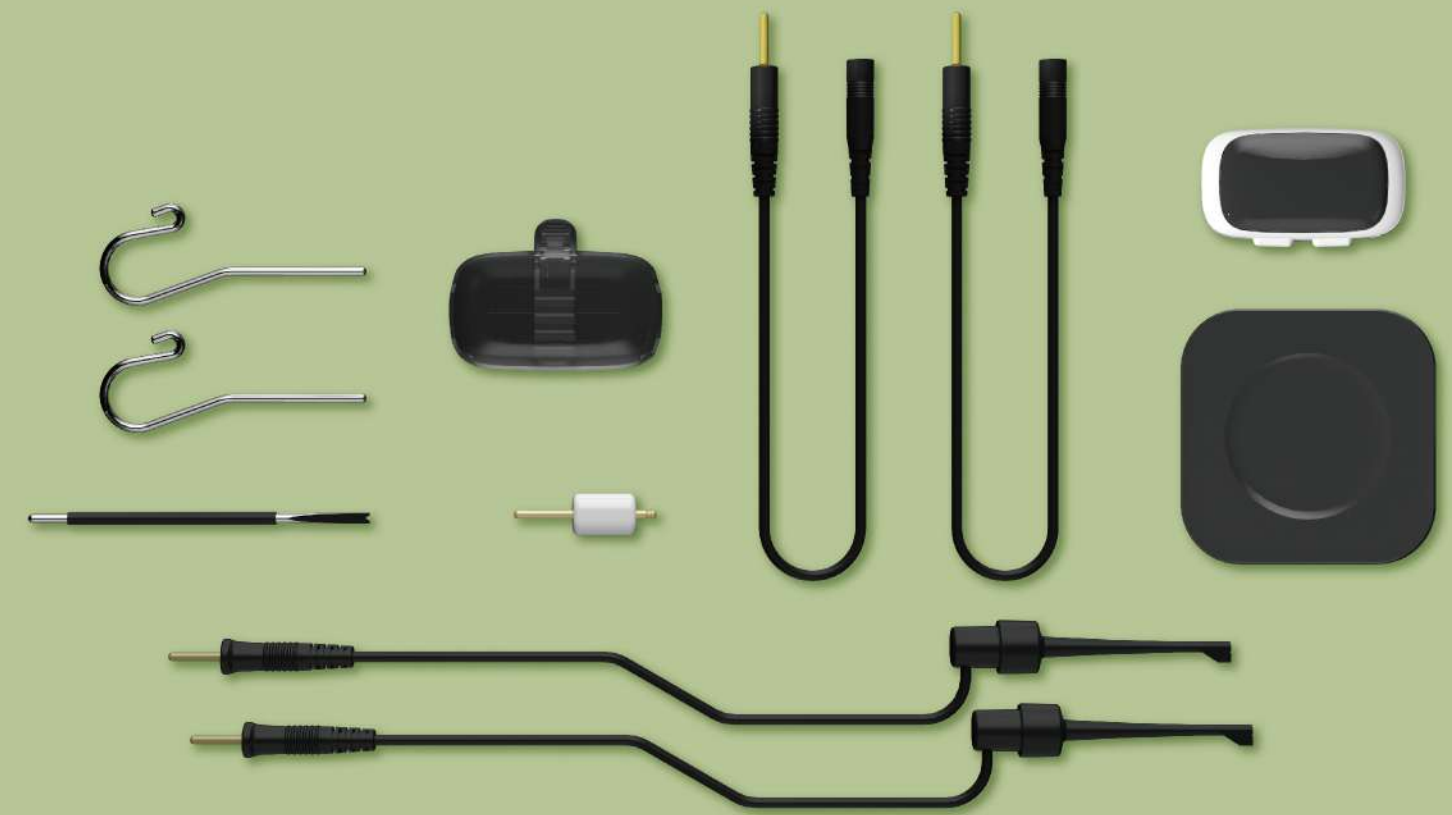
Feel the Charm of Wireless Charging

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-connect S

Endomotor With Built-in
Apex Locator



Torque Calibration
For precise torque output



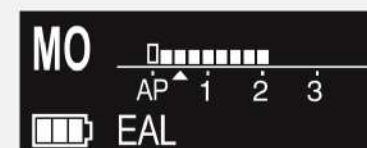
OLED Screen
Digital OLED Display



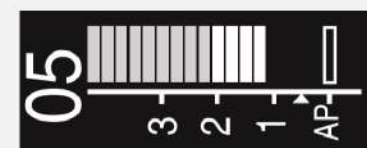
Ambidextrous Display
Screen can be rotated as per
Left or right hand use



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

Ultra X

Cordless Ultrasonic Activator

Available Tips

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



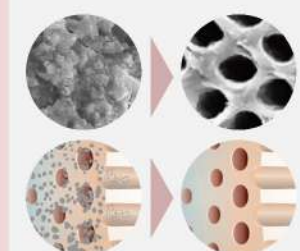
In Action

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



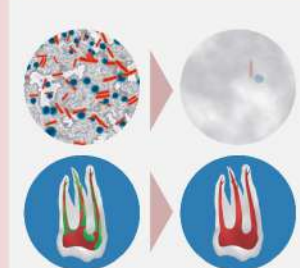
Indication

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



Fast-Pack & Fast-Fill
3D Obturation
Devices






Fast-Pack


Obturation Pack Handpiece



Temperature Range

- 
 - Wide temperature range of 90° to 250°
 - 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 0.5 seconds for 250 °C
Cooling Time	2 seconds for cooling
Charging Time	2 hours to complete charge
Operating Time	4 hours of continuous operation at 250 °C





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



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

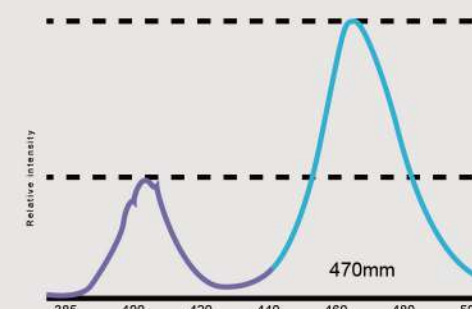


Smart controlling chip
keeps light output consistent

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

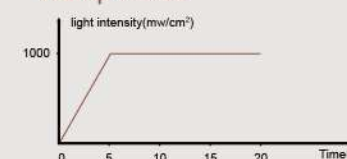


Intensity digital display

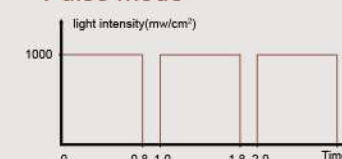


Multiple Curing Options

Ramp mode



Pulse mode



Caries detection



CuringPen



UltraMint & UltraMint Pro

All-round Ultrasonic Scaler

All-round Ultrasonic Scaler

Scaling | Periodontic | Endodontic



Working mode
General, Periodontal, Endodontic



Wide Frequency Range
100% compatible with EMS type tips



Sine Wave Drive
Stabilized current output, without reducing instantaneous stimulation, to allow comfortable & painless treatment



Intelligent Negative Feedback
In accordance to different tooth surfaces, it will automatically adjust pattern to the tip, offering a stable and sustained scaling treatment which is comfortable and painless for the patient



autoclavable case



Manage flow control directly by handpiece



Removable and autoclavable handpiece holder, Resist cross-infection



detachable handpiece with LED light



Smart Touch Panel
hassle-free usage even with screen protector file, gloves or water



Foot Switch
Less than 2cm high, making foot-control comfortable



Internal self-cleaning

900ml liquid container, can work directly with sodium hypochlorite, chlorhexidine, hydrogen peroxide and saline