Eighteeth

Endo With Eighteeth

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Eighteeth

CATALOG

HyperLight

Portable X-ray unit

Engineered for accurate images

- Clinical Imagery

- Sharp, high resolution images with a **0.4mm** focal spot

Source focal spot   Source focal spot

Subject

Penumbra   Detector

Eighteeth
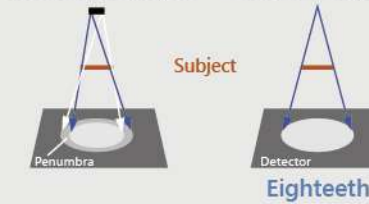
Effect of focal spot size

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 mm	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°
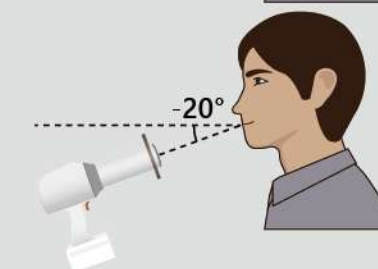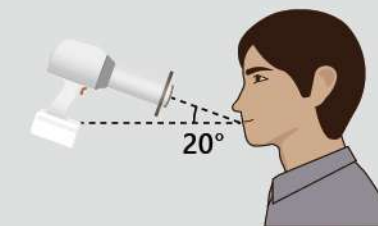
Maximize your diagnostic potential

Perfect combination

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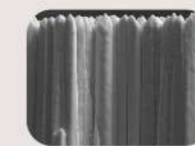
Direct Deposition CSI Technology
- from chest radiography
- Low dose radiation for safety
- Less exposure time but higher resolution

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'
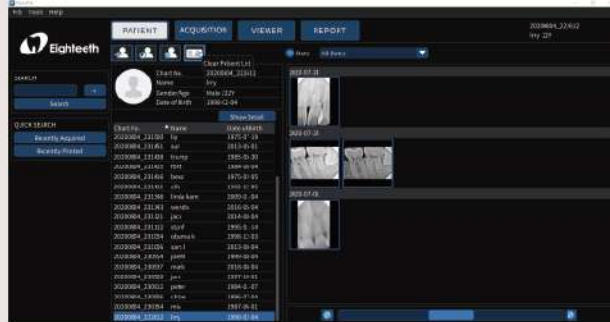
● Step 2. Image 'Acquisition'
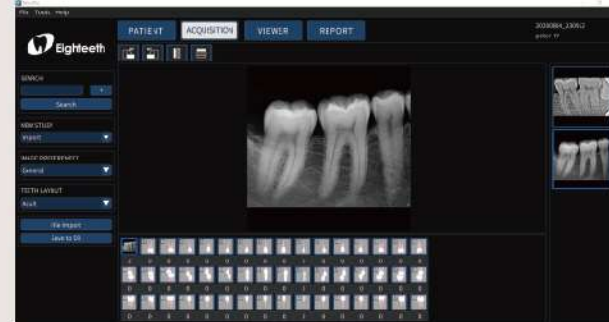
● Step 3. View Image
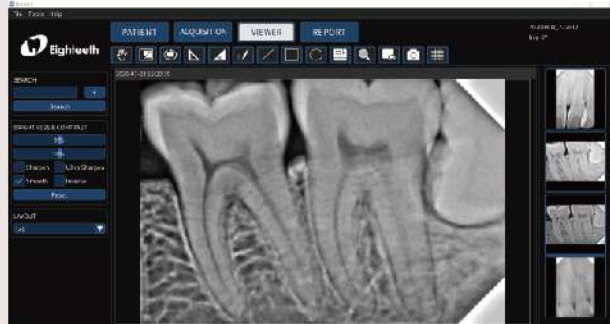
● Step 4. Generate 'Report'

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
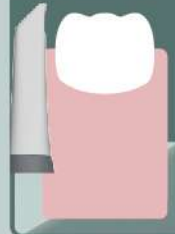
Helios 600

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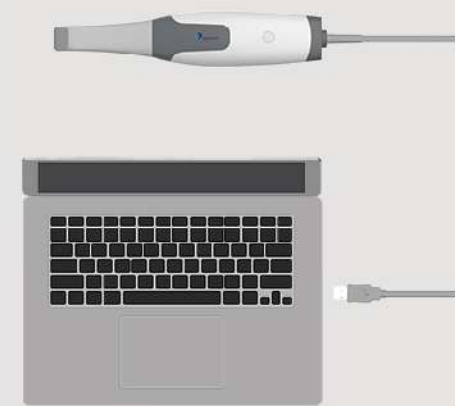
- Smart Reminder
- Air mouse
- Automatic software update
- Timely after-sales service
- Cloud Storage
- Voice Memo
- Online 3D viewer

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

AirPex

Wireless Apex Locator

International Patent
No.:PCT/CN2019/110429
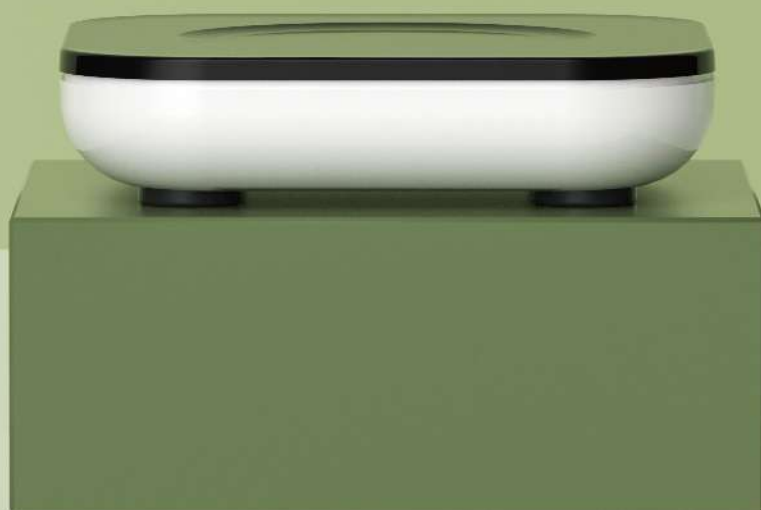
Feel the Charm of Wireless Charging

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 & E-PEX

Cordless Endomotor & Apex Locator

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

Five Reciprocation Modes (MO)

Reverse Reciprocation-One Mode
Counter clockwise & clockwise movement

Fwd 30º - Rev 150º
For reciprocating files

Forward Reciprocation-Four Modes
Clockwise & counter clockwise movement

Fwd 150º - Rev 30º   Fwd 180º - Rev 30º
Fwd 210º - Rev 30º   Fwd 250º - Rev 30º
For all continuous rotation files

Nine Editable Memory Programs (M1 to M9)

RPM Maximum Speed 1000 rpm

360º 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

340º Adjustable Handpiece

Detachable Head

Miniature Head

Autoclavable

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

E-connect S

Endomotor With Built-in Apex Locator

Torque Calibration
For precise torque output

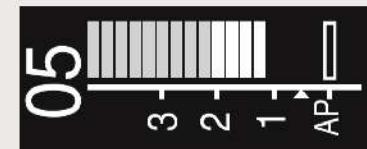**OLED Screen**
Digital OLED Display

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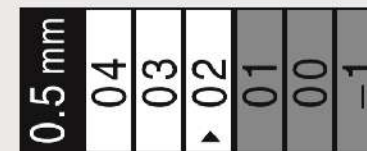Screen can be rotated as per Left or right hand use

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 30º to 370º 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-value

Brushless 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 OLED Color Screen
More comfortable visual experience

E-FLEX Built-in File System
Switch file systems quickly

360° 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          [batt]
┌─────┐
│ M 1 │    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       [batt]
┌─────┐
│ M 1 │    300rpm
└─────┘
Fwd        3.0N·cm
```
• • •
**Choose the Endo File
being used and press S**
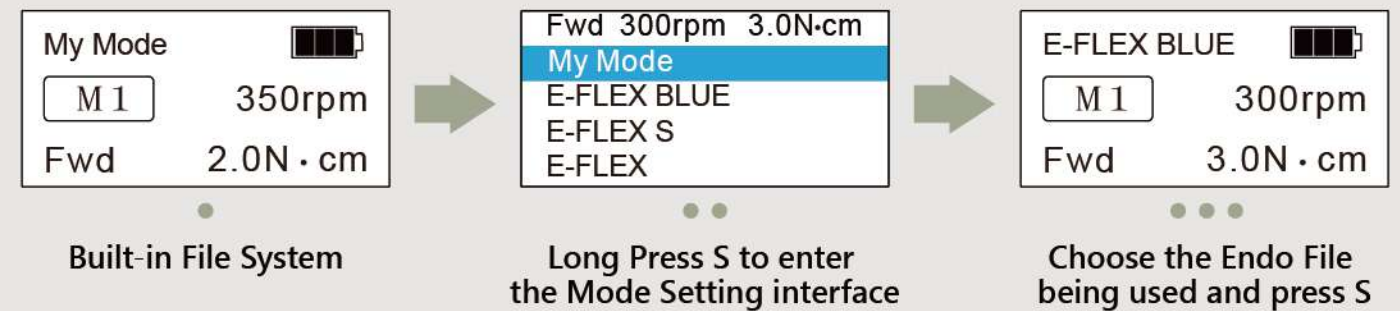
Note: the doctor could adjust the speed, torque limit and reciprocating angle according to the needs of the case.

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

E-xtreme

Make Essence to Extreme

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

| 30° | 150° | 180° | 210° | 250° |
| MO 150° | MO 30° | MO 30° | MO 30° | MO 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

Fast-Pack & Fast-Fill

3D Obturation Devices

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

Fast-Fill
Fast-Fill

Fast-Pack

Obturation Pack Handpiece

Temperature Range
- Wide temperature range of 90º to 250º
- 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
- 360º 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 ºC 0.5 seconds for 250 ºC
Cooling Time	2 seconds for cooling
Charging Time	2 hours to complete charge
Operating Time	4 hours of continuous operation at 250 ºC

Small (Black) 40/0.025 - 1 Qty	Medium (Yellow) 50/0.05 - 1 Qty	Large (Blue) 60/0.06 - 1 Qty
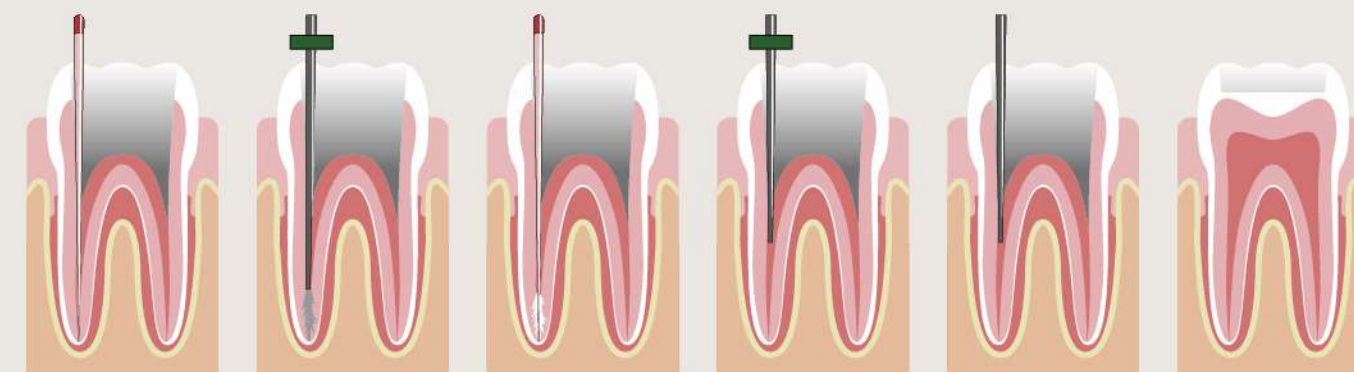
Protocol for Use

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

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
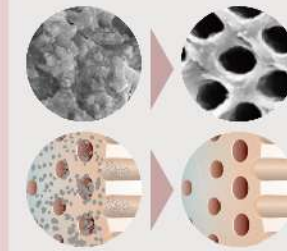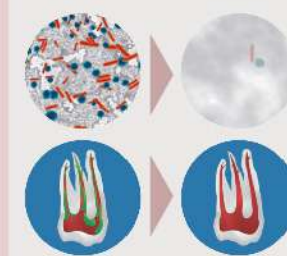
Indication

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

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
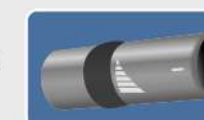for formulating liquid.

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
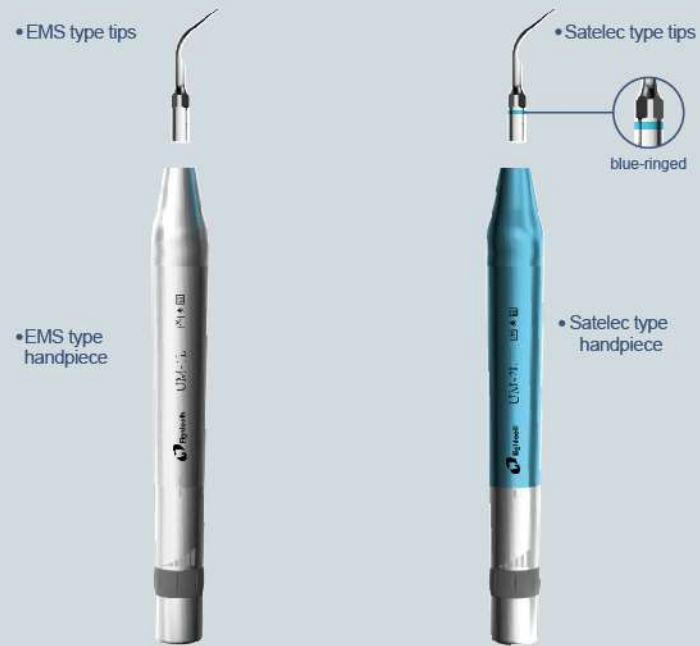
Intelligent degenerative feedback

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	

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.

UltraMint & UltraMint Pro

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			

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

UltraMint & UltraMint Pro

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			

CuringPen

4 LEDs curing light

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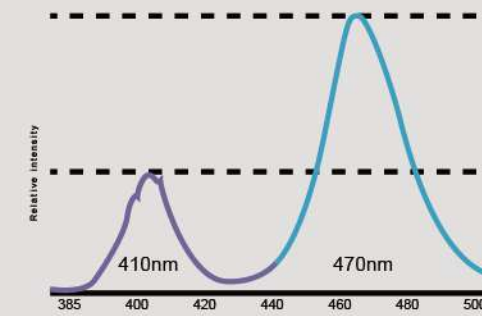
Dimension: 24*21*230(mm)
Net Weight: 109g
Lens size: 11mm

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

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

Wavelength:385-515nm
3 Blue, 1 Violet, 10w LED
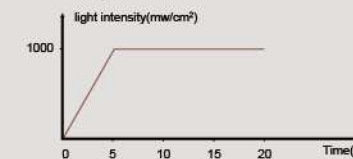
410nm   470nm

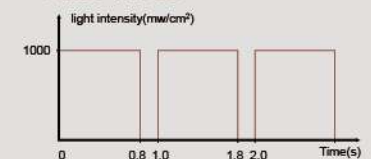360° rotatable head

Intensity digital display

MO
2300mW/cm² 02s

Multiple Curing Options

Ramp mode

light intensity(mw/cm²)

1000

0   5   10   15   20   Time(s)

Pulse mode

light intensity(mw/cm²)

1000

0   0.8 1.0   1.8 2.0   Time(s)

Caries detection

Notes: