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Eighteeth

Instagram | Website | YouTube | Youtube-EDA Channel | Facebook

Endo with Eighteeth

www.eighteeth.com

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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.

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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



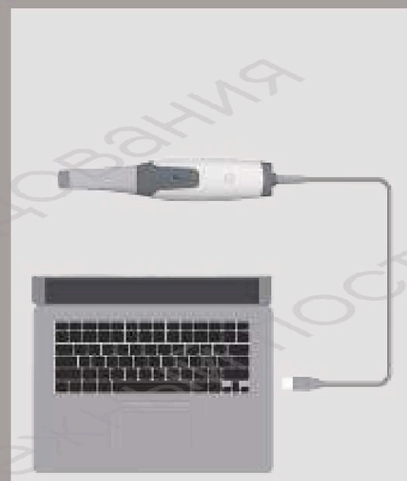
USB port for power delivery and data transfer



Firm body design with durability

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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

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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° M0 150° | 150° M0 30° | 180° M0 30° | 210° M0 30° | 250° M0 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

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E-connect

Cordless Endo Motor





- Torque Calibration
- Powerful 1500 mAh Lithium Battery
- Digital OLED Display
- Integration Option
- Low Noise Motor
- Screen Cast / Mirroring
- Ambidextrous * Display

*User can rotate the Endomotor Screen towards left or right
*In connect function Endomotor mirrors Apex Locator's screen

Integrate Endomotor with Apex Locator (Connect Function)

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



Five Reciprocation Modes (M0)

Reverse Reciprocation-One Mode
Counter clockwise & clockwise movement

Fwd 30° - Rev 150°
For reciprocating files

Forward Reciprocation-Four Modes
Clockwise & counter clockwise movement

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



Nine Editable Memory Programs (M1 to M9)

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



One Piece Contra Angle Head

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

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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 Color Screen
More comfortable visual experience

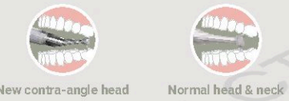
Built-in File System
Switch file systems quickly

360° Rotatable
360° Rotatable Contra Angle

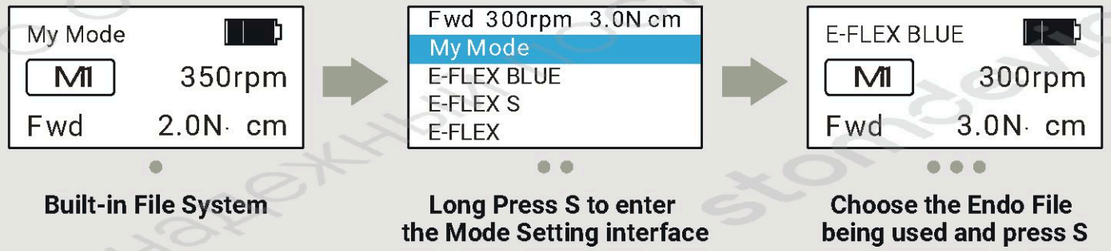
Brushless Motor
Reliable, Durable, Efficient

Long Battery Life
Heavy capacity
1900mAh lithium battery

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



Built-in File System



Built-in File System

Long Press S to enter the Mode Setting interface

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



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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

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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

Smooth Surface Finish

Flexible Tips
*Only X Blue & Silver are Flexible Tips

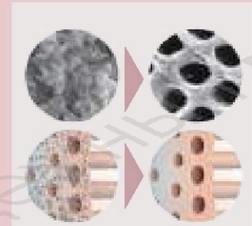
Multiple Tip Options



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

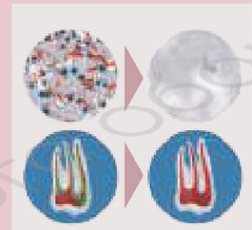
Acoustic Streaming
It is a unidirectional flow of liquid produced by ultrasonic waves. Movement of tip produces special effect called acoustic turbulence which accelerates the movement in liquid inside the root canal



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 fill it with choice of obturation material
- It is always recommended to isolate the tooth using rubber dam and use personal protective barriers like head gear, mask, eyeglasses etc



Key Features

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



Key Features

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



Battery

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

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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





*Applicable for all tips from Eighteeth

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



Smart touch system-ultrasensitive & waterproof



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



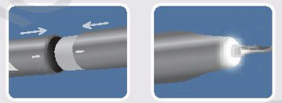
Two ways of water supply-
Changing supply methods is easier than ever before



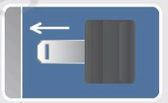
900ml stand-alone bottle with clear 20ml scale mark makes it convenient for formulating liquid.



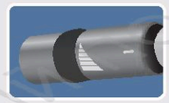
Detachable handpiece with LED-
autoclavable, ergonomic, brighter visibility



Detachable and autoclavable handpiece holder, resists cross-infection



Water control directly from handpiece



Ergonomic foot pedal



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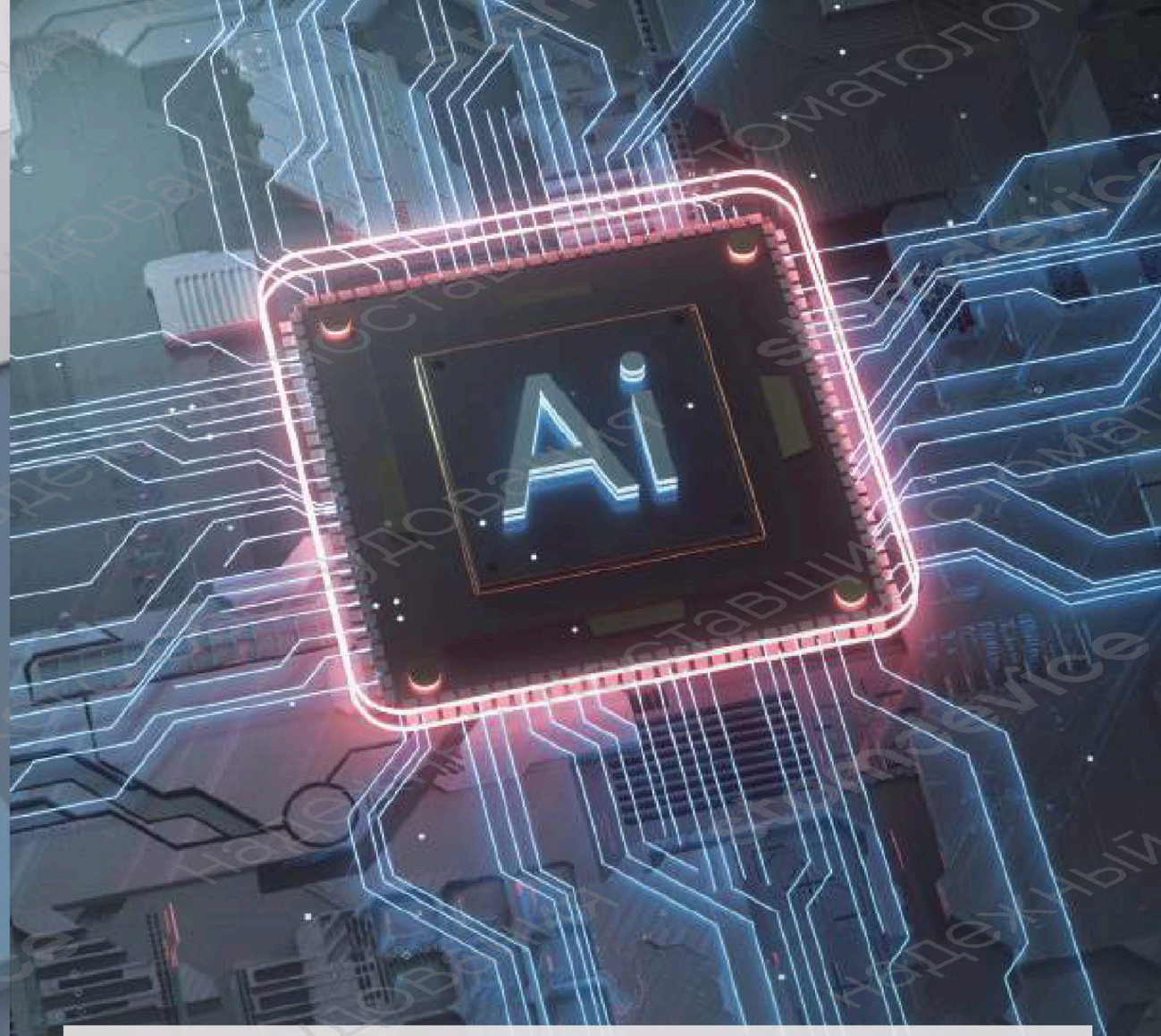


One scaler, 2 solutions

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

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- EMS type tips
- Satelec type tips

blue-ringed





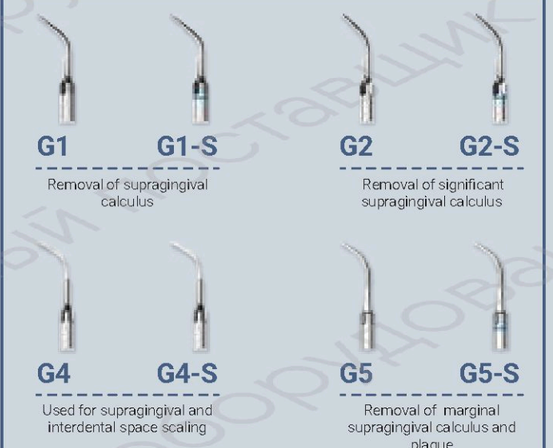
Tips: G1 G2 G4 P1 P3 E4
universal wrench, EMS type handpiece



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

Scaling





G1 **G1-S**
Removal of supragingival calculus

G2 **G2-S**
Removal of significant supragingival calculus

G4 **G4-S**
Used for supragingival and interdental space scaling

G5 **G5-S**
Removal of marginal supragingival calculus and plaque

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

Periodontic





P1 **P1-S**
Removal of subgingival calculus and periodontal irrigation

P3 **P3-S**
Removal of calculus deep in periodontal pocket and its irrigation

P4 **P4-S**
Removal of calculus in shallow pockets

P52 **P52-S**
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**
Used for subgingival calculus probing and scaling

P56 **P56-S**
Removal of significant supragingival calculus and plaque

P3D **P3-SD**
Used to level off the surface of endo after the periodontal flap surgery

P4D **P4-SD**
For locating root canal and removal of calcification from one-third of crown

Endodontic





E1 **E1-S**
120° angle holder for 0.7mm-0.8mm endo file for root canal cleaning

E3 **E3-S**
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**
Removal of foreign material in cavity to access canal orifice

E7 **E7-S**
Removal of broken instrument

E8 **E8-S**
Flexible and used to brush the canal walls during retreatment

E9 **E9-S**
Removal of broken instrument

E10 **E10-S**
Used for root planning in the retrograde preparation of root canal

E3D **E3-SD**
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.

Endodontic





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

E4D **E4-SD**
Removal of hard material in canal during retreatment

E5D **E5-SD**
Removal of hard material in canal during retreatment

E6D **E6-SD**
Removal of foreign material in cavity to access canal orifice

E7D **E7-SD**
Removal of calcification and filling material in cavity to access canal orifice during retreatment

E8D **E8-SD**
Used for root canal restrogression, efficient root apical polishing

E9D **E9-SD**
Removal of broken instrument

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

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CuringPen

4 LEDs curing light

Technical parameter:

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

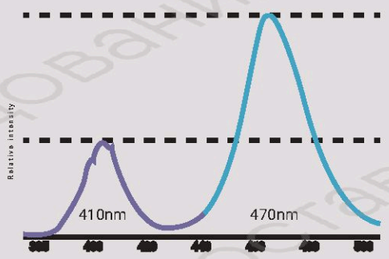
Power supply:
>1200 times, 3 Sec
Maximum light intensity





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



360° rotatable head

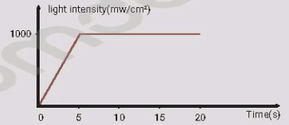


Intensity digital display

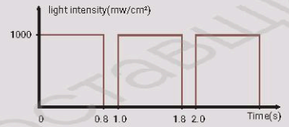


Multiple Curing Options

Ramp mode



Pulse mode



Caries detection



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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





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

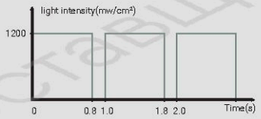
- P3

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

- P4

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

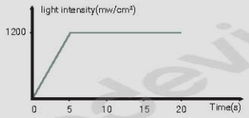
Pulse mode



- P5

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

Ramp mode



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Fast-Pack pro & Fast-Fill

3D Obturation Devices



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Fast-Pack pro

Obturation Pack
Handpiece





Temperature Range

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

Internally Heated Tip

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

Class-leading Controlled Heating

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

Experience Ergonomics

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

Powerful Battery

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

Specifications

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



Small
(Black)
40/0.025 - 1 Qty



Medium
(Yellow)
50/0.05 - 1 Qty



Large
(Blue)
60/0.06 - 1 Qty

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Fast-Fill

Obturation Fill
Handpiece





Fast-Fill Tips

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

Motorized GP Flow

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

Comprehensive Display

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

Intuitive Design

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

Powerful Battery

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

Specifications

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



23 Gauge
Large

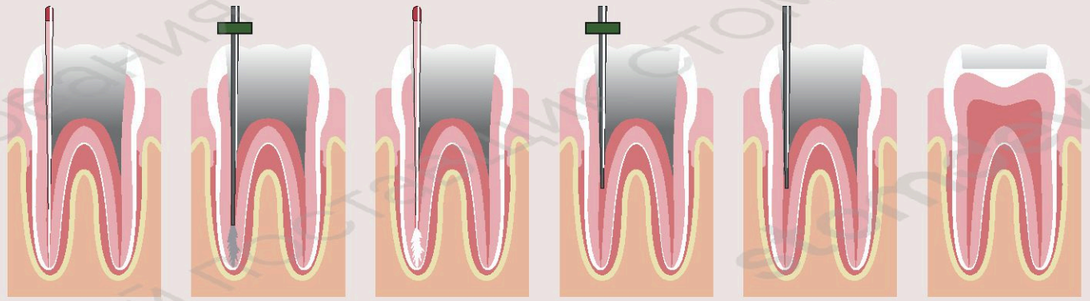


25 Gauge
Small

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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

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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

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AirPex

Wireless Apex Locator

International Patent
No.:PCT/CN2019/110429

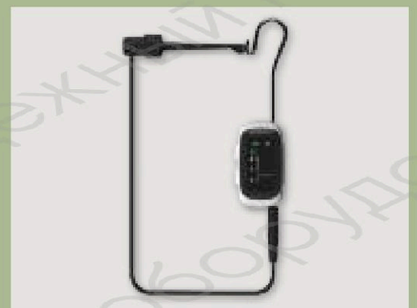






Feel the Charm of Wireless Charging

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



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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

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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		

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HyperLight

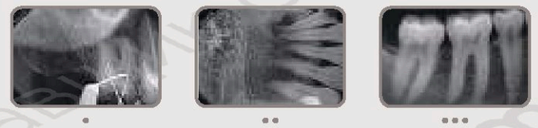
Portable X-ray unit



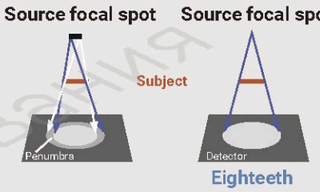


Engineered for accurate images

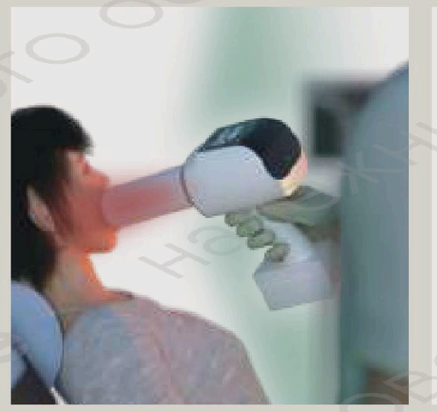
- Clinical Imagery



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



Effect of focal spot size



Designed with safety in mind

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

Locking system to prevent unintentional exposure

Specifications

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

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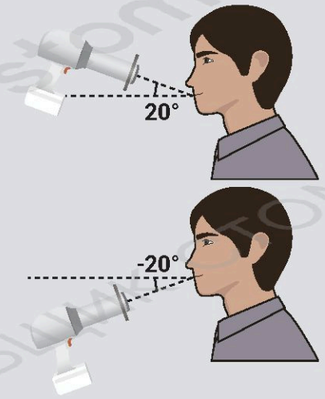
Simplify your digital workflow

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





- Smart angulation system



Maximize your diagnostic potential

Perfect combination



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HyperLight-G

Portable X-ray unit





Receptor

Use with film, digital sensor, phosphor plate

Locking System

Preset Parameter

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

Large Battery Capacity

More than 300 exposures in one full charge



Smart angulation system, faster your workflow



Safe

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

Portable

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

Economical

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

Specifications

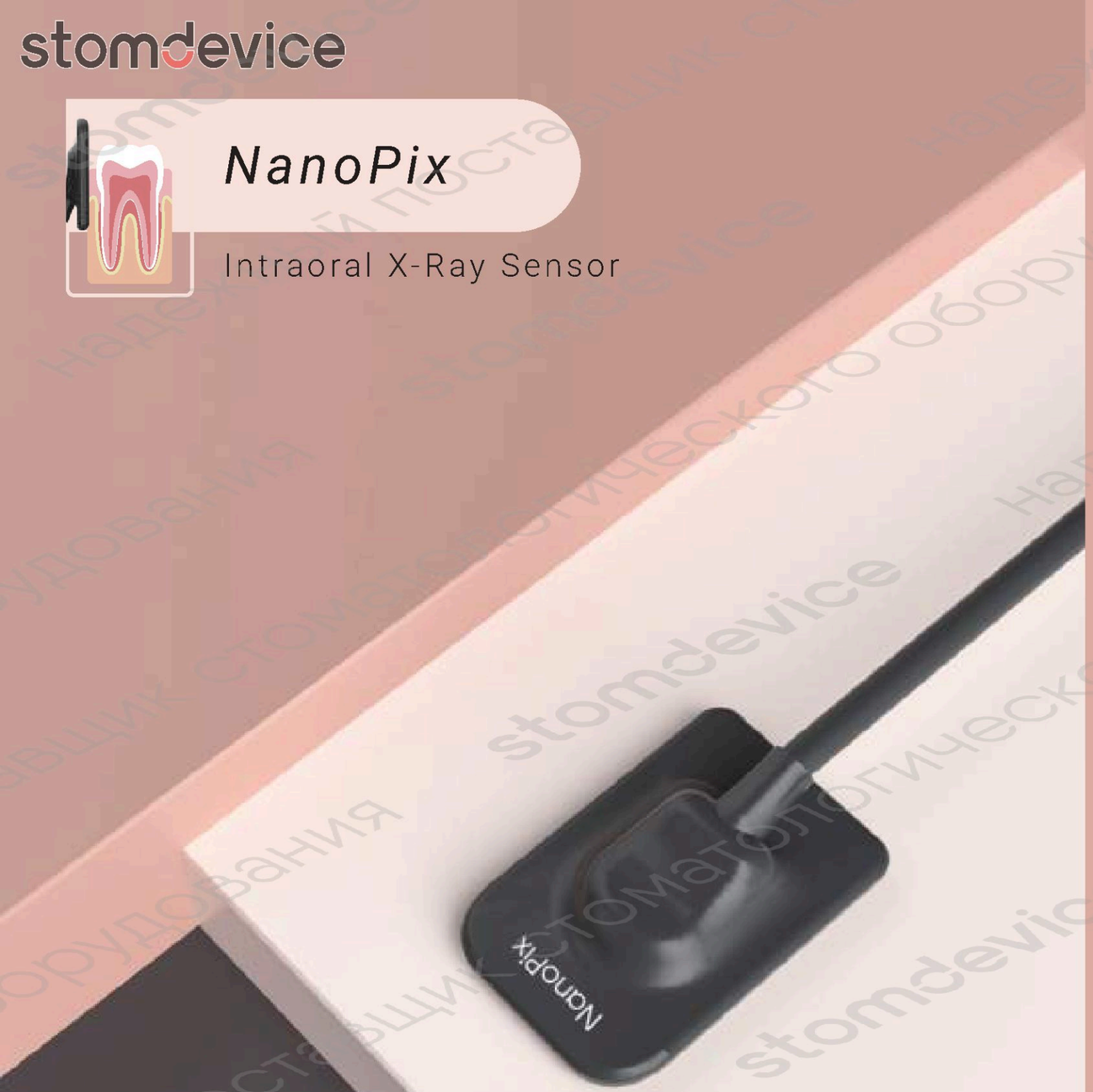
Model	HyperLight-G
Tube Voltage	65 kV
Tube Current	2 mA
Exposure Time Range	0.02-2 Sec
Weight	1.9 kg
Battery	2000mAh X4
Line Voltage	100V-240V, 50Hz/60Hz

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NanoPix

Intraoral X-Ray Sensor

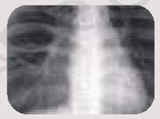




1/10 Cost per patient compared to film
3s To complete entire imaging process
50000+ Exposures with no quality loss



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

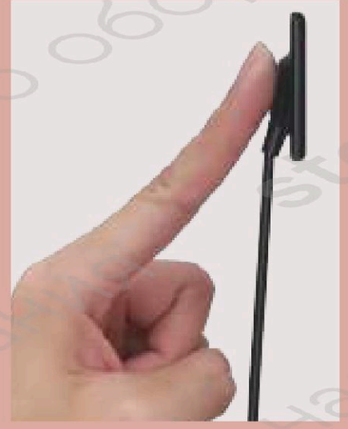


APS CMOS Technology
- from aerospace industry
- High signal-to-noise ratio with maximum details
- Long life and low power consumption



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

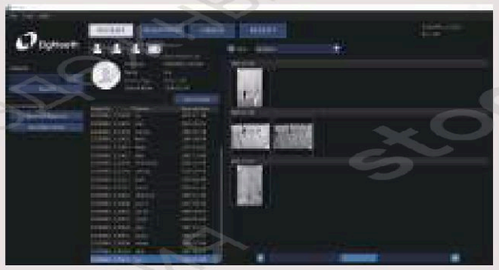
Ultra-thin body design
4.4mm - the thinnest X-Ray sensor

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Easy-of-Use software with only
4 steps

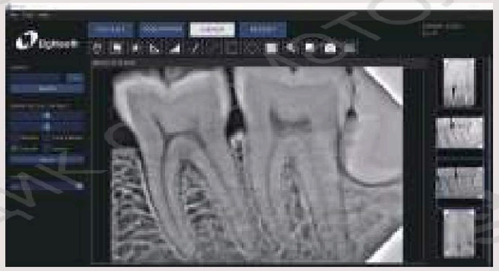
- Step 1. Choose 'Patient'



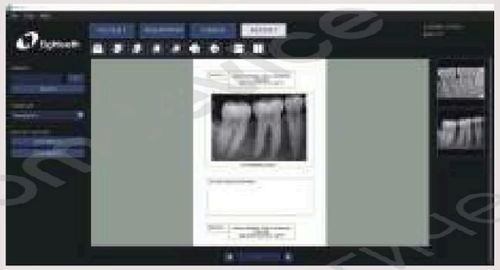
- Step 2. Image 'Acquisition'



- 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

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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×	350mm	68mm	≥90mm	71g
	400mm	76 mm	≥100mm	71g
	450mm	84mm	≥115mm	71g
	500mm	92mm	≥135mm	71g

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Softouch

Surgical Headlight



Specifications

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



Super Light

Made by aviation grade 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



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

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

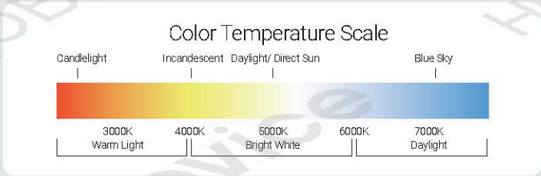
CRI 90

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



Color Temperature 5000K

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



Edge to Edge Clarity, and Flicker Free

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



Softouch Manufacturer A Manufacturer B

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UltraClean

Antibacterial Root Canal Cleanser



Use Ultra Clean replace EDTA to moisturize the root canal before preparation. It can lubricate and protect Ni-Ti file and promote debris removal. When preparing and changing files, use Ultra Clean to kill bacteria and remove debris.

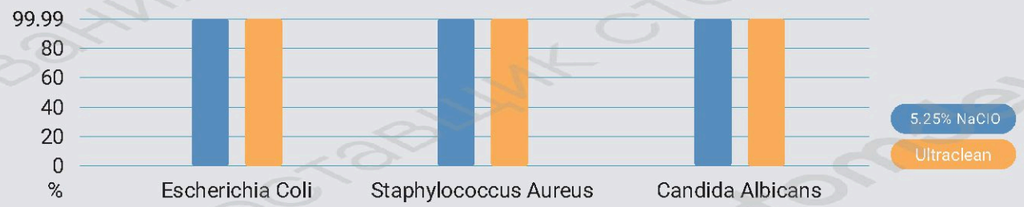
After all preparations are completed, each root canal is used 5ml Ultra Clean.
Use the side opening irrigation needle to pull-up rinse at the 1mm from apex.

Activate Ultra Clean 20 seconds by Ultra X (Low power mode) to remove smear layer better. Ultra Clean will enters the dentin tubules and kill the bacteria.

Use UltraMint /UltraMint Pro tips (or side opening irrigation needle) to wash root canal 40s under the maximum volume irrigation solutions. The debris and smear layer will be rinsing out. It can be used as a final rinse.

⚠ Caution: Do not mix with CHX solution!

Comparison of the effect of 5.25% NaClO and Ultra Clean



Conclusion —— Ultra Clean has the same bactericidal effect as 5.25% NaClO

Effectively remove the smear layer

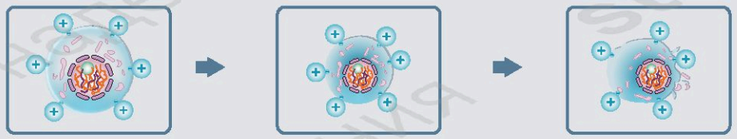


17% EDTA (soaked, 5 mins) Ultra Clean (soaked, 5 mins)

Conclusion —— Ultra Clean is as effective as 17% EDTA to remove smear layer. At the same time, Ultra Clean can clean the dentin and dentin tubules underneath without corroding the dentin.

Explanation of Principle

- Benzalkonium Chloride achieves bactericidal effect by destroying the bacterial cell wall.
- When the external concentration of Benzalkonium Chloride decreases, it could be released slowly and has a slow-release bactericidal effect.
- As a chelating agent, Sodium Citrate could remove smear layer.



Adsorbed bacteria → Inhibit bacterial growth → Dissolve cell walls and destroy bacteria

Comparison Data

	Ultra Clean	MTAD	2% CHX	5.25% NaClO	17% EDTA
Main Ingredients	Sodium Citrate BAC	Citric Acid Doxycline	CHX	NaClO	EDTA
Dentin Erosion	No	Yes	No	No	Almost No
Dentin Discoloration	No	Yes	Yes	No	No
Bactericidal Effect	Strong	Strong	Strong	Strong	Weak
Smear Layer Removal	Yes	Yes	No	No	Yes
Safety	Very Safe	Safe	Safe	Dangerous	Very Safe
Smell	Good	Bad	Not Good	Bad	Not Good
Cost	Low	High	Low	Low	Low

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E-FLEX Series

NiTi Endo File

















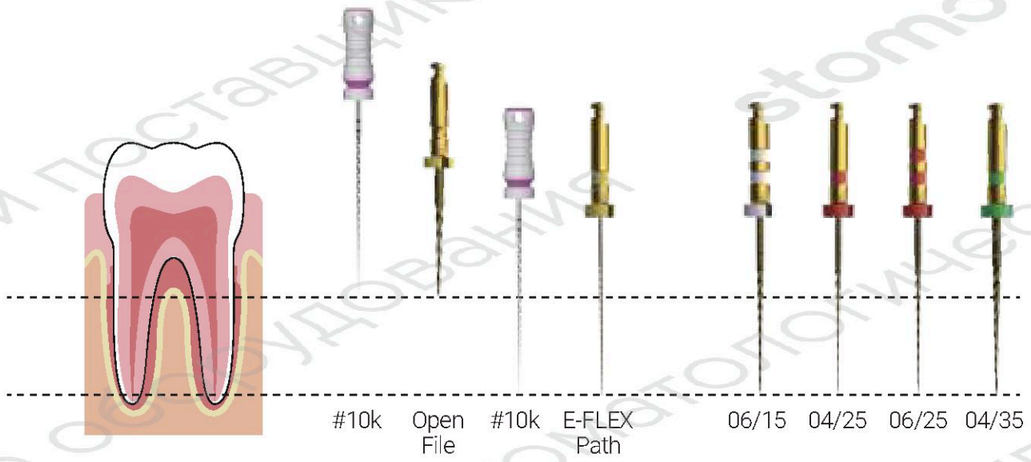
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E-FLEX GOLD



• Usage Protocol



Gold Heat Treatment allows safe navigation of any curved canal



ISO Standard Color
Indicate size of tip

Stopper

Taper Indicator

Precise Length Marking

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Sharp Cutting Flutes
Enhance cutting efficiency

Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX GOLD		17	8			19	300 rpm, 3 N·cm
		15	4			21/25/31	350 rpm 2.5 N·cm
		20	4				
		25	4				
		30	4				
		35	4				
		15	6				
		20	6				
		25	6				
		30	6				
		35	6				

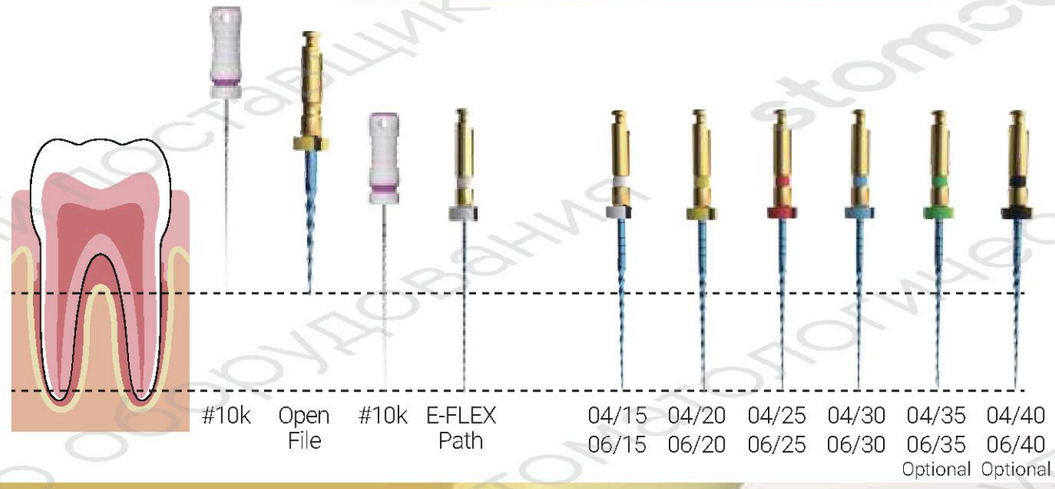
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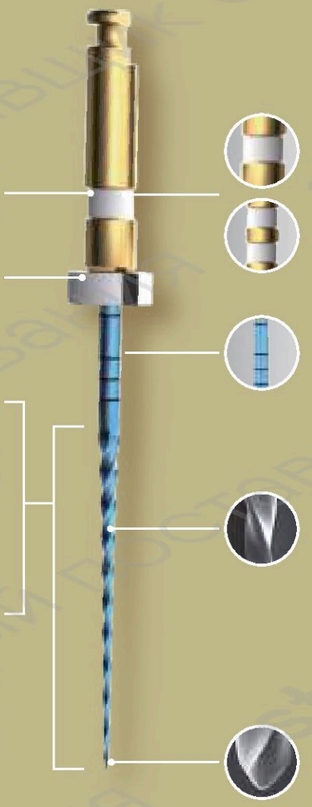
E-FLEX BLUE



• Usage Protocol



Blue Heat Treatment provides superior strength while maintaining flexibility to negotiate all canals



ISO Standard Color
Indicate size of tip

Stopper

Taper Indicator

Precise Length Marking

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Sharp Cutting Flutes
Enhance cutting efficiency

Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX BLUE		17	8			19	300 rpm, 3 N·cm
		15	4			21/25/31	350 rpm 2.5 N·cm
		20	4				
		25	4				
		30	4				
		35	4				
		40	4				
		15	6				
		20	6				
		25	6				
		30	6				
		35	6				
		40	6				

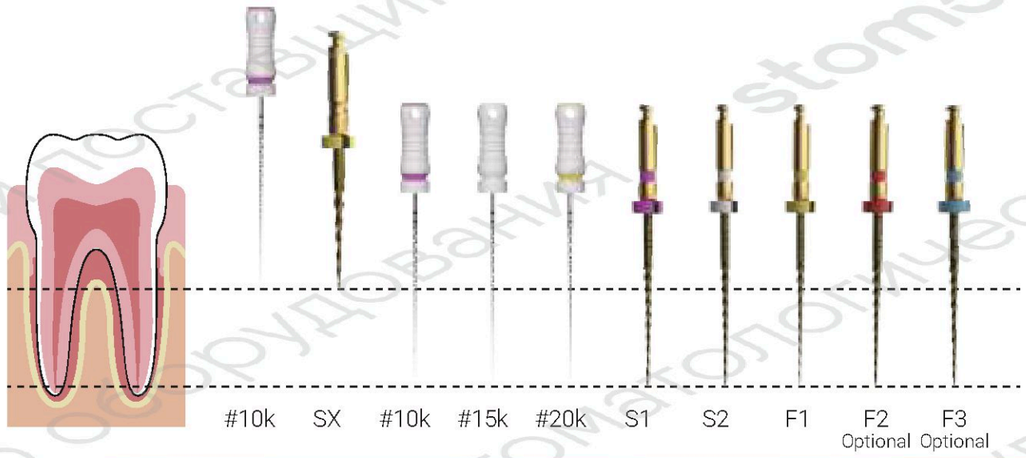
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E-FLEX S



•Usage Protocol



3 Shaping files for a deep shape
3 Finishing files for navigating challenging curves in the apical region



ISO Standard Color
Indicate size of tip

Stopper

Precise Length Marking

Advanced Variable Taper Design

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Sharp Cutting Flutes
Enhance cutting efficiency

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

	Color	Tip Size	Taper (%)	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX S		16	Variable Taper		19	350 rpm 2 N·cm
		18			21/25/31	
		20				
		20				
		25				
		30				

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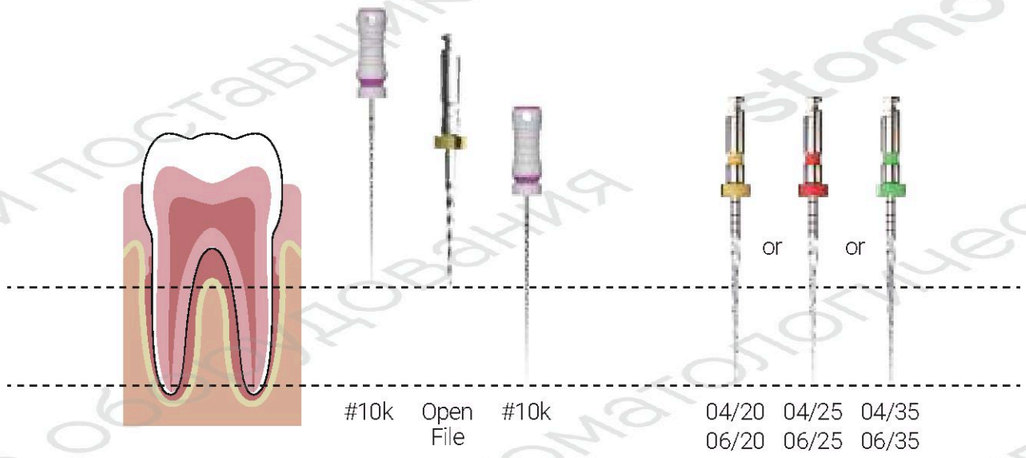
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E-FLEX *EDGE*

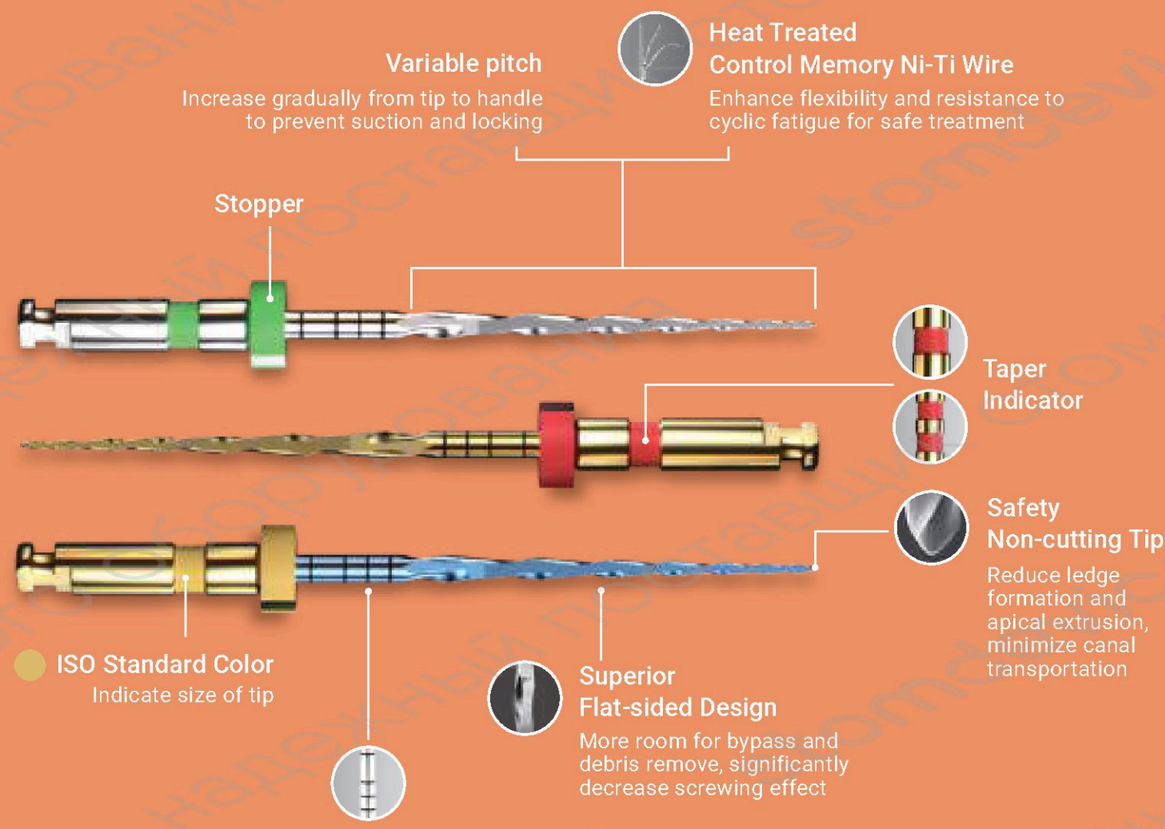
Silver / Gold / Blue



• Usage Protocol



Different heat treatments are available: E-FLEX EDGE Silver/ Gold / Blue



	Color	Tip Size	Taper (%)	Taper Indicator	Length (mm)	Suggested Speed/ Torque
E-FLEX EDGE		20	4		21/25/31	400 rpm 2.5 N·cm
		25	4			
		35	4			
		20	6			
		25	6			
		35	6			

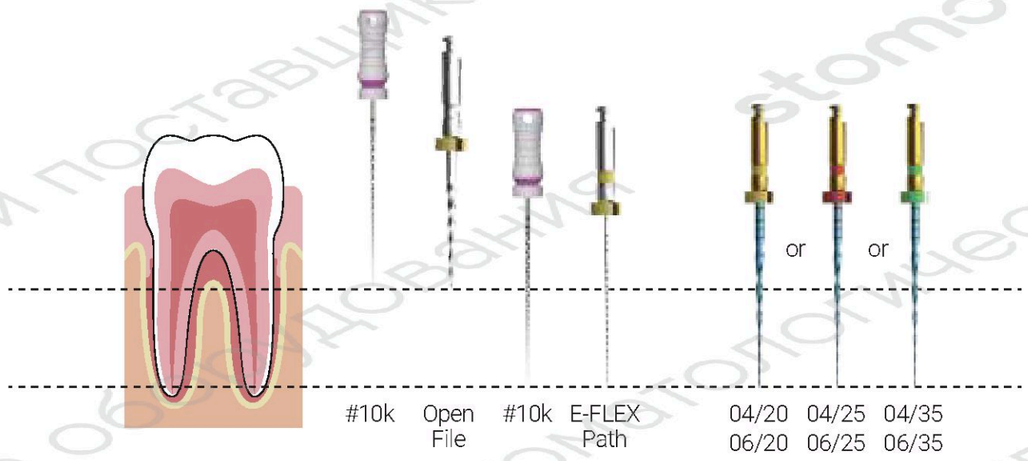
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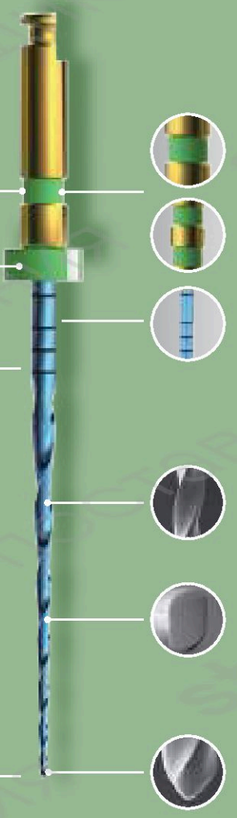
E-FLEX ONE



• Usage Protocol



One file for incredible efficiency
Blue Heat Treatment for increased flexibility and safety



ISO Standard Color
Indicate size of tip

Stopper

Taper Indicator

Precise Length Marking

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Sharp Cutting Flutes
Enhance cutting efficiency

Double S Cross-Section
Efficient removal of debris

Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX ONE		20	4			21/25/31	400 rpm 2.5 N·cm
		25	4				
		35	4				
		20	6				
		25	6				
		35	6				

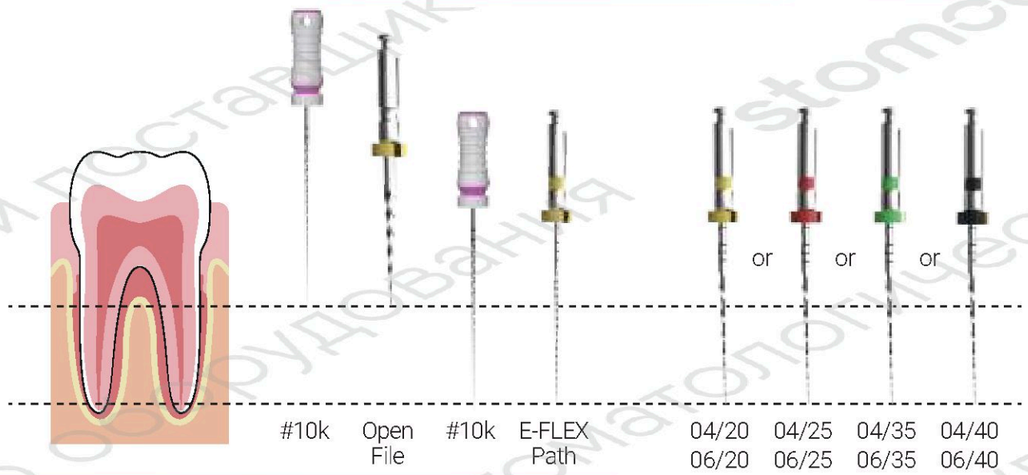
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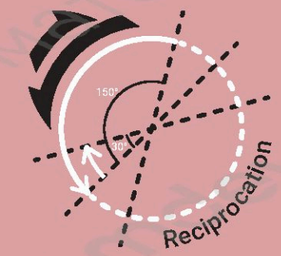
E-FLEX REC

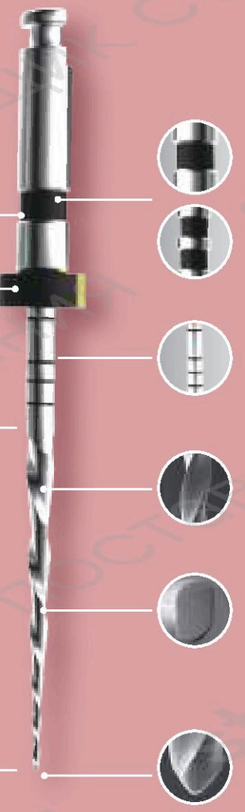


• Usage Protocol



One file reciprocation for incredible efficiency





ISO Standard Color
Indicate size of tip

Stopper

Taper Indicator

Precise Length Marking

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Sharp Cutting Flutes
Enhance cutting efficiency

Double S Cross-Section
Efficient removal of debris

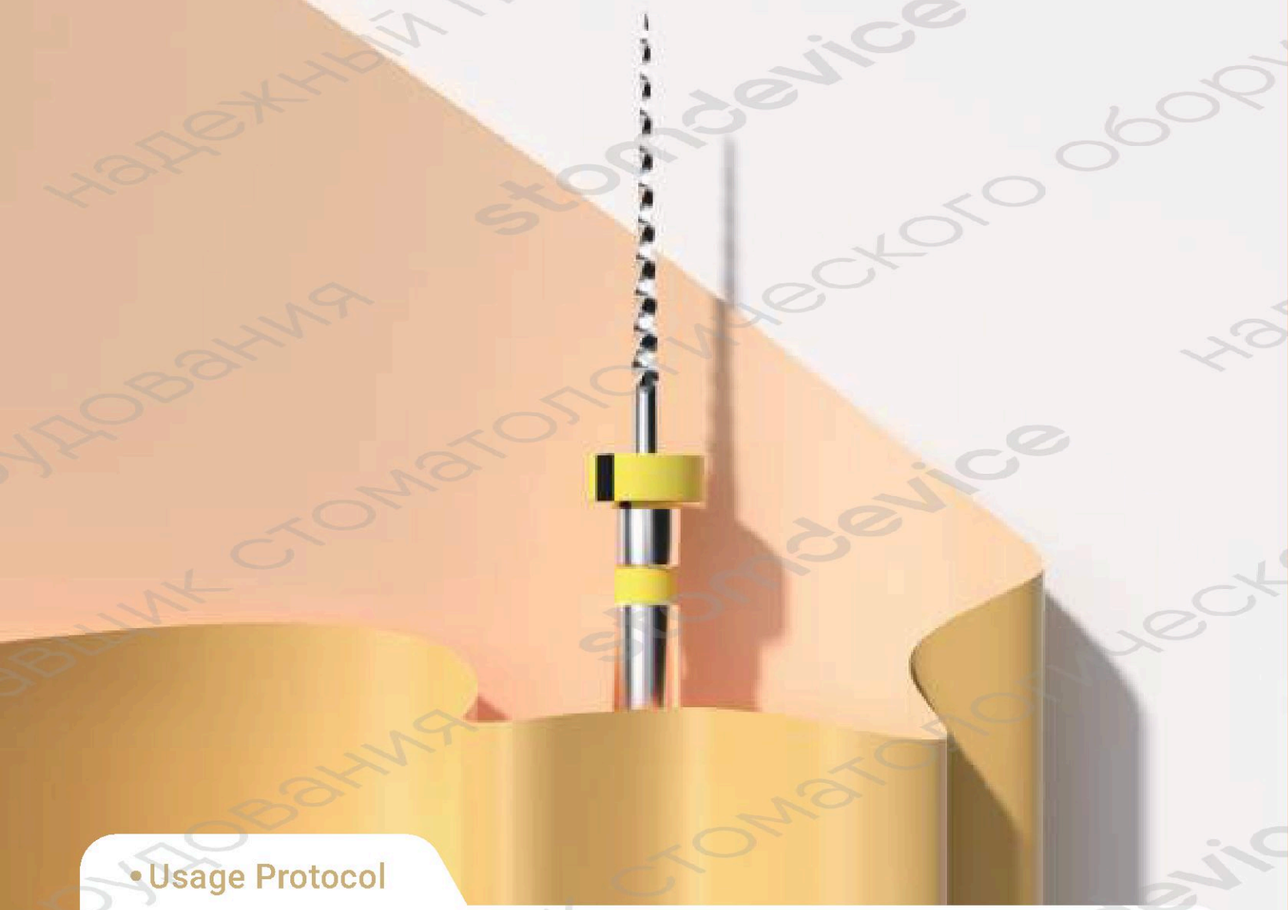
Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Angle
E-FLEX REC		20	4			21/25/31	FWD: 30° REV: 150°
		25	4				
		35	4				
		40	4				
		20	6				
		25	6				
		35	6				
		40	6				

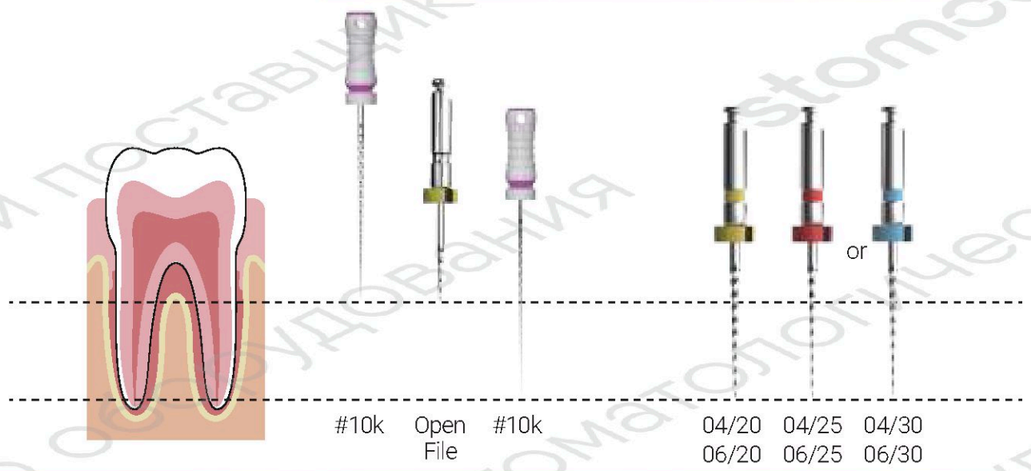
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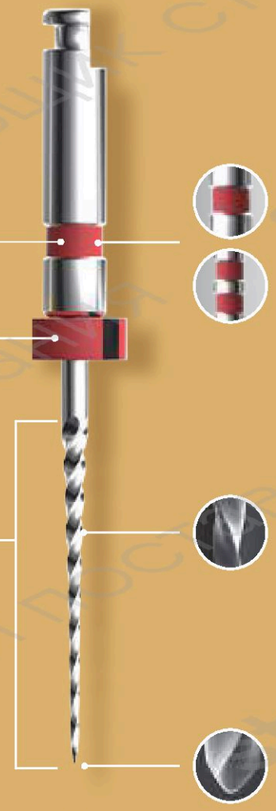
E-FLEX MINI



• Usage Protocol



For deciduous teeth



ISO Standard Color
Indicate size of tip

Stopper

Taper Indicator

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Sharp Cutting Flutes
Enhance cutting efficiency

Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX MINI		17	8			10	300 rpm, 3 N·cm
		20	4			16	350 rpm 2.5 N·cm
		25	4				
		30	4				
		20	6				
		25	6				
		30	6				

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E-FLEX PATH FILE



	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX PATH	●	13	2			21/25/31	350 rpm 2.5 N·cm
	●	16	2				
	●	19	2				
	●	15	3				

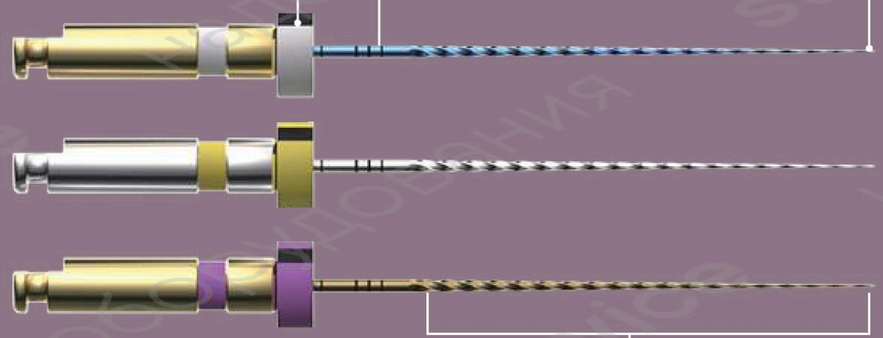
Advantages over the manual file

- Intensive flexibility and more resistance to cyclic fatigue
- Follow the contour of root canal, retain more dentin
- Shorten preparation time significantly
- Less canal transportation
- Suitable for curved canals

Safety Non-cutting Tip
Reduce ledge formation and apical extrusion, minimize canal transportation

Stopper

Precise Length Marking



Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Heat Treated Control Memory Ni-Ti Wire
Enhance flexibility and resistance to cyclic fatigue for safe treatment

Different heat treatments are available: E-FLEX PATH Silver/ Gold / Blue

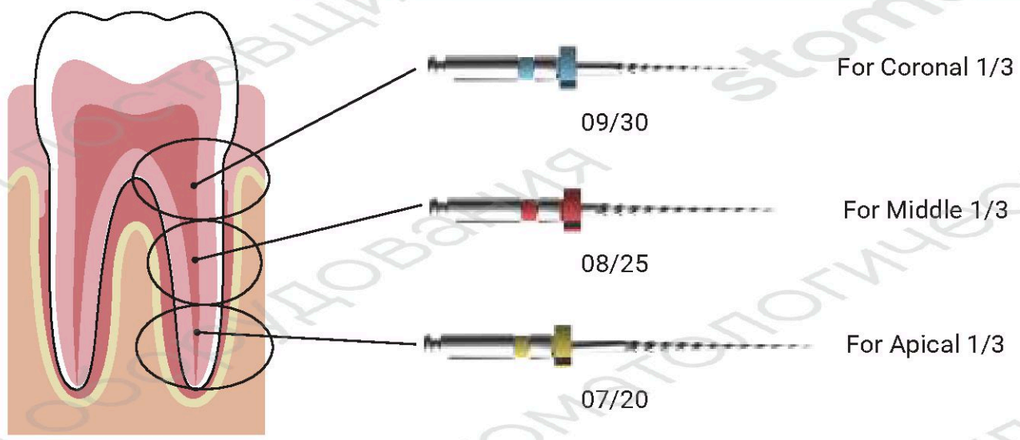
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E-FLEX RT



• Usage Protocol



Safe and effective removal of obturation materials
Reducing the need for solvents



ISO Standard Color
Indicate size of tip

Stopper

Variable pitch
Increase gradually from tip to handle to prevent suction and locking

Efficient Cutting and Guiding Tip
Remove filling materials easily and avoid deviation

	Color	Tip Size	Taper (%)	Cross-Section	Length (mm)	Suggested Speed/ Torque
E-FLEX RT		30	9		16	350 rpm 2 N·cm
		25	8		18	
		20	7		22	

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