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Scan and log on to the website









WOODPECKER ENDO SERIES PRODUCTS

One-stop endo solutions



ZMN-XC-083

Woodpecker

Woodpecker focuses on dental instrument research and development for $\bf 33$ years.

33 product categories, 81% domestic market share, and exported to 140 countries and areas.

Woodpecker has 539 employees, 81% are undergraduates, 91 R&D engineers.

417 national patents, 21 invention patents.

85225m² existing manufacturing and research base, 130576 m² base under construction.

33 million USD invested to build up full-automatic processing and testing center .



Own 4 brands, WOODPECKER DTE DBA RTA

ENDO MOTOR

	Smart A	3-4		
Brushless Endo Motor Series	Ai-Motor	5-6		
	Endo Radar Pro	7-8		
Brush Endo Motor	MotoPex	9-10		
	EndoMatic	11-12	ENDO ACTIVATOR	
Series			Endo 1	31-32
			Endo 3	33-34
Brushless	Endo Smart +	13-14		
Endo Motor Series	Endo Pace	15-16	IMAGING SYSTEM	
Series	Endo Free	17-18	Ai Ray	35-36
			i-Scan	37-38
			Free Scan	39-40
	APEX LOCATOR		i-Sensor	41-42
	Ai-Pex	19-20		
	Woodpex V Dpex V	21-22		
			PIEZO BONE SURGERY	Y
	OBTURATION SYSTEM	1	Ai surgery	43-44
	Fi-E	23-24		
	Fi-G&Fi-P	25-26	LASER	
	R1 Plus Fi-N	27-28	LASER	
			Lx16 Plus	45-40
	ULTRASONIC SCALER		CURING LIGHT	
	D600 LED	29-30	O-Star	47-48
		27 00	0 000	., .,

Woodpecker Endo Series Products One-stop Endo solutions

This series includes Imaging System, Endo Motor, Apex Locator, Ultrasonic Endodontic Expert, Piezo Bone Surgery, Laser, Endo Activator, Obturation System and Curing Light.

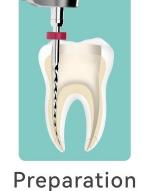
They can be used for treatments such as root canal preparation, working length determination, irrigation, canal modification, sterilization, root canal filling and curing.

Woodpecker Endo Series meets all your needs in Endodontic treatment.



Apex locator Woodpex V

Dpex V



Endo Motor Smart A, Ai-Motor, Endo Radar Pro, MotoPex EndoMatic, Endo Smart +

Endo Pace, Endo Free



Ultrasonic Scaler D600 LED Endo 1





Laser

LX16 Plus



Obturation System

Fi-E Fi-G Fi-P

R1 Plus

Fi-N



Curing



Curing Light O-Star



Mini head, better operating view. 360° rotatable contra-angle

Head height: 9.7 mm Head diameter: 8 mm Neck diameter: 6 mm



1mm Vertical movement contra angle, better bypass ledge 360° rotatable contra-angle

Head height: 9.7 mm Head diameter: 8 mm Neck diameter: 6 mm



Mini insulated 6:1 contra-angle Coated with insulating polymer material 360° rotatable contra-angle

Head height: 9.7 mm Head diameter: 8 mm Neck diameter: 6 mm



Smart A

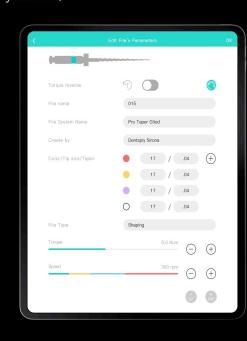
Brushless **Endo Motor Series**

Customized treatment plan

Files from different brands available

Files from different brands can be selected from the database to establish a new "Common File System"

The name, file sequence and working parameters, of the new file system can be determined as you wish. (The files not in the database can also be added by



Nearly hands-free

Through the voice command "hi~vivi", you can: Control the device switch and handpiece

Adjust the speed, torque, forward and reverse rotation mode, reciprocating mode, reciprocating angle, file type, etc.



Regular update

Optional Smart Watch for voice or touch screen control

Regular update of the system and program for timely grasp of the latest file database information



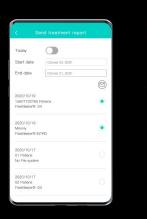
Cloud storage of treatment report delivers personal customization

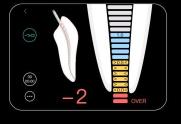
Auto storage of basic patient information, treatment data and file usage time Each dentist can create a personal account

Realize single device with multiple users, but independent information storage











Start treatment and record Continuous mode





File system options

SmartA

Powerful and intelligent output safeguards your endodontic journey

Smart APP control

Multiple devices supported

Bluetooth communication, smart control Record patient data and store treatment reports in the cloud Support Smart Watch, Apple iPad, Apple iPhone, Android phones (Huawei, Xiaomi, OPPO, VIVO, Samsung...)



Jointly-developed

Advanced device performance + Your exquisite technique = A Perfect Match

COOPERATION WITH SUPREME ENDODONTIST

BB MODE & LB MODE DEVELOPED

BB MODE

The file moves continuously at an angle of 90°, with 1s interval between each movement.

BB is the abbreviation of "block bypass". Sometimes there is dentin debris or pulp residue blocking the apex.

This rotation with up and down motion can bypass the block.

LB MODE

The file reciprocates with a difference of 5° between the forward angle and the reverse angle, such as 10°/5°, 15°/10°, 20°/15°, etc., for forward/reverse angles.

LB is the abbreviation of "ledge bypass".

There are many reasons for ledge formation. Ledge bypassing is needed to locate the original root canal.

First, make the pr-bent file bypass the ledge. Once the ledge is bypassed, start the switch again to adjust to the continuous motion state.

Impressive reciprocating mod

Adjustable rotation angle in reciprocating mode Adjustment range: 5°-400° Adjustment interval: 5°



Endo Motor 4

Ai-Motor

Brushless **Endo Motor Series**

Dr. Yoshi Terauchi

Customized reciprocating angle

Integrated apex locator mode delivers safety protection

High performance brushless motor

Safe ledge bypassing

Mini contra-angle

Stable operation enables efficient preparation



High performance brushless motor

(about 10 times the service life of brush motor)

Stable cutting can still be ensured at the narrow or curved apex.

Reduce the risk of instrument separation and improve preparation efficiency.



Integrated apex locator mode delivers safety protection

Auto start/stop at root canal orifice Auto slowdown at narrow apex Auto reverse/stop at apical stop



Integrated apex locator mode

Apex locator

alone mode

Mini contra-angle

Easier preparation of posterior teeth Clearer and broader surgical field.

9.7 mm 360°

Rotatable contra-angle



Safe ledge bypassing

Perform "watch-winding" motion at a fixed 90° before the ledge is bypassed, and reciprocate at a fixed forward 180° and reverse 90° after the ledge is bypassed. The speed and torque can be adjusted within the range of 100-500rpm and 2.0-5.0N.cm respectively, enabling safer preparation.



Stable operation enables efficient preparation



Customized reciprocating angle

Adjustable rotation angle in reciprocating mode.

20°-400°

Adjustment range

10°

Adjustment interval

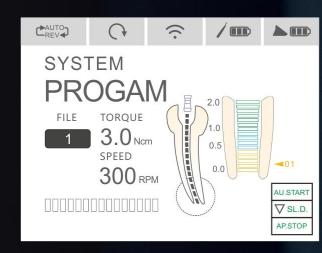


Endo Radar Pro

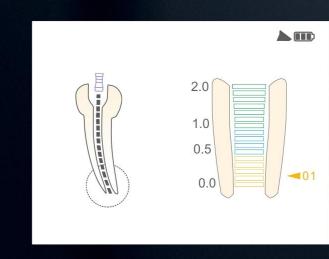
Brushless Endo Motor Series

Two-in-one function

Root canal preparation with simultaneous length control



2 Length determination only



A. Auto start and stop

Automatically start when the file is inserted into the canal, and stop roting when it leaves the canal.

B. Auto apical reverse and auto apical stop

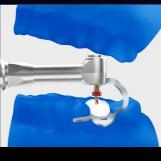
Automatically reverse and stop when the file reaches the apical stop.

C. Auto apical slowdown

The file slows down as it gradually approaches the apical stop.

Super-mini contra-angle

The contra-angle is only 8mm in diameter and 9.7mm in height



Head and neck of ordinary contra-angle

Head and neck of Woodpecker super-mini contra-angle

Endo Radar Pro

Upgraded star product

Brushless Endo Motor with two-in-one function and compact handpiece

Two-in-one function enables the root canal preparation with simultaneous length control

Super-mini handpiece

Brushless motor

Cordless

6:1 6:1 Contra-angle



360° rotatable contra-angle



Endo Radar Pro

Preparation

MotoPex

Super mini head &slim neck Stronger power Precise rotation Lower noise Balanced weight

Brushless **Endo Motor Series**

Speed range: 100-1200 RPM Torque range : 0.4-5.0N⋅cm

Reciprocating angle adjustment range: 20°-400°

High performance brushless motor

Adjustable reciprocating angle (10°interval; adjustment range: 20°-400°); Accurate rotating angle reduces risk of instrument fracture and enables higher preparing efficiency.

Smooth rotation and lower noise make MotoPex

Speed:350rpm

Torque:2.0N·cm

Speed:500rpm

Torque:2.0N·cm

Compatible with

treatment more endurable for patients.

Noise(dB)

Speed:300rpm

Torque:3.0N·cm

and stable torque output,

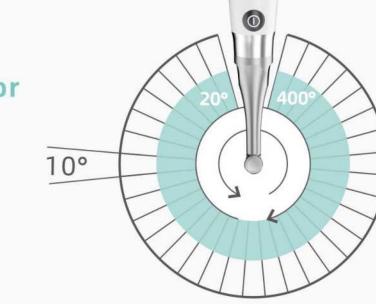
canal preparation.

Service life of motor:

helps to realize efficient root

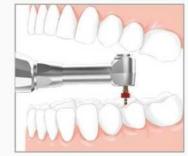
Strong power, together with accurate

Brushless Endo Motor=Brush Endo Motor ×10 all mainstream file systems

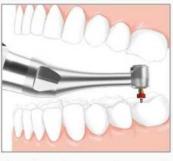


Super Mini Contra-angle

Super mini head, with a diameter of 8mm and a height of 9.7mm, brings clear vision during operation.



head & neck



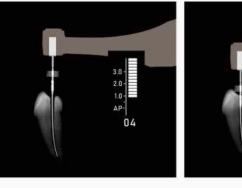
Woodpecker contra angle Super Mini head&Silm neck

Built-in Apex locator

Integrated length determination makes endodontic treatment safer and more efficient. Realize real-time display of file location in canal. Automatically stops or reversely rotates as soon as the file reaches the apical stop, so as to prevent perforation. Auto Start and Auto Stop functions respectively enable motor to automatically start while the file gets in canal and stop when it is out.



Front center-of-gracity









2000mAh Lithium battery



360° rotatable contra-angle



EndoMatic

Cordless Endo Motor with combined length determination

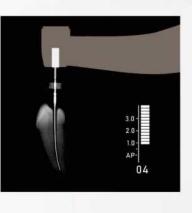
Integrated length determination

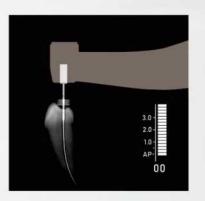
The EndoMatic combines with the length measuring function.

This feature makes endodontic treatment safer.

The file position is shown in the display screen.

And the Endo motor stops rotating or reversely rotates as soon as the file reaches the APICAL POINT.





Speed range : 100-1000 rpm

Torque range : 0.4-5.0N·cm



All-angle OLED screen

Without viewing angle limit, clear display can be guaranteed even under strong light.

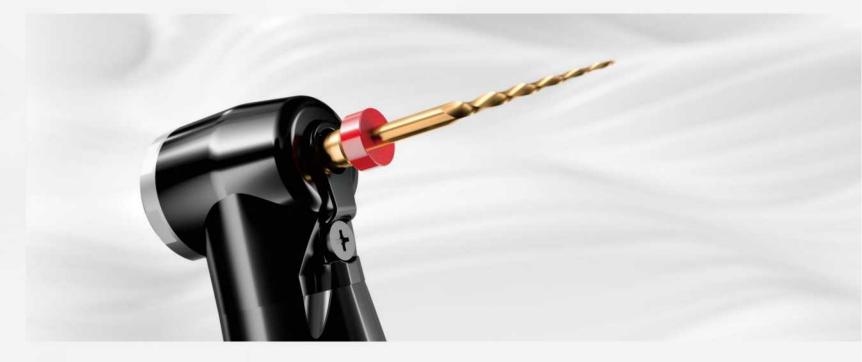




Maximum compatibility

Wide torque and speed range make it compatible with various file systems.



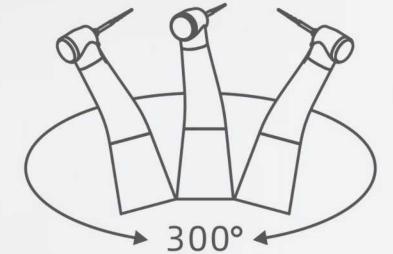


Autoclavable resin contra-angle

The Autoclavable resin contra-angle is of surface insulation; therefore, when the endo motor and apex Locator are used together, there is no need to use silicone sleeve to insulate it.

Integrated Apex Locator in contra-angle connects electrode
The Endo motor and apex Locator can be used together
after inserting Ni-Ti files.

Special aviation grade Autoclavable resin enables contra-angle to be autoclaved to avoid cross-infection.



11 Endo Motor 12

Preparation



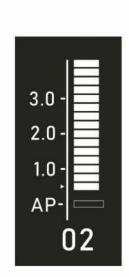
Endo Smart +

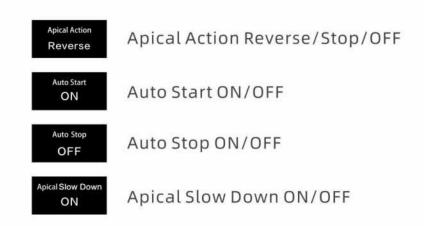
Brushless **Endo Motor Series**

Combined length determination mode

Endo Smart + can be connected to the matched Apex locator to realize apex locating function.

By connecting the Endo Smart + to the matched Apex locator, the position of the file tip inside the canal can be monitored during the procedure and many automatic functions such as Auto Apical Reverse can be activated.



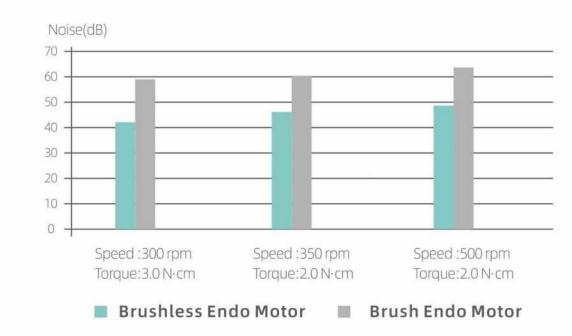






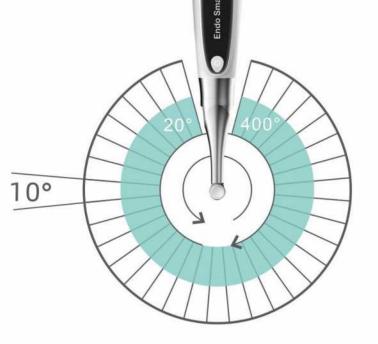
High performance brushless motor

- 1 Adjustable reciprocating angle (10°interval; adjustment range: 20°-400°); Accurate rotating angle reduces risk of instrument fracture and enables higher preparing efficiency.
- 2 Super high torque, high speed, fast response, more accurate output, more stable, to ensure more efficient & safe preparation. Speed:100-1200rpm Torque:0.4-5.0N·cm
- 3- Smooth rotation, lower noise and small vibration in handpiece Doctors feel good during operations. Patients feel more comfortable during operation.



Speed range: 100-1000 rpm Torque range : 0.4-5.0N⋅cm

Reciprocating angle adjustment range: 20°-400°



10° for each unit





2000mAh Lithium battery



360° rotatable contra-angle





Super mini contra-angle allows clearer operation field.







High performance brushless motor

High torque and fast response

More accurate and more stable output, enabling more efficient preparation

Speed: 100rpm-1500rpm Torque: 0.4N·cm-4.2N·cm



Lightweight cordless handpiece offers better hand feeling

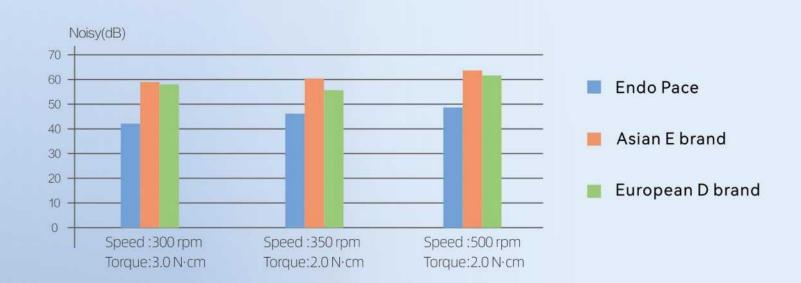
Weight: 106.8g (handpiece+contra-angle)

Control the handpiece with wireless signal, without the restraint of tail cord Well-balanced design allows easier preparation

Low wear, low heat and longer service life

10 times the service life of brush motor.

Smoother rotation and lower noise. Stable cutting can still be ensured at the narrow or curved apex.



Adjustable reciprocating angle with 10° interval Adjustment range of forward and reverse reciprocating angle: 20°-400 Accurate control of the rotation angle reduces the risk of instrument separation and enables more efficient and safer preparation.



Compact but powerful 6:1 speed ratio ensures low speed and stable rotation under high torque

Head height: 9.7mm Head diameter: 8mm Neck diameter: 6mm

360°rotatable contra-angle

More flexible operation, facilitating the preparation of teeth at different positions





MOODPECKER

Endo Free

Woodpecker Brushless Endo Motor

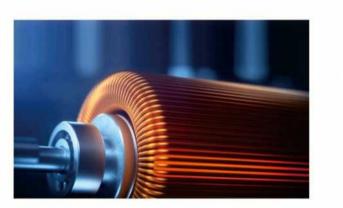
- Lightweight handpiece Easy preparation
- O Brushless motor Strong power
- 10 times the service life of brush motor

High performance brushless motor

High torque and fast response

More accurate and more stable output, enabling more efficient preparation

Speed: 100rpm-1500rpm Torque: 0.4N.com-4.2N·cm



Lightweight cordless handpiece offers better hand feeling

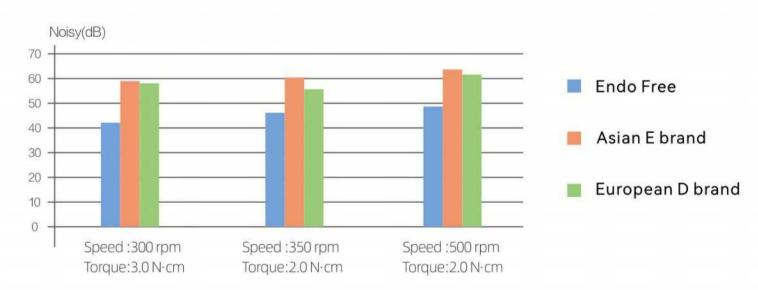
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More flexible operation, facilitating the preparation of teeth at different positions









ROOT CANAL LENGTH MEASUREMENT

Auto calibration after startup New digital circuit U.S. central processing chip with DSP processing module 0.1% high precision components Information processing speed increased by 2.125 times



ACCURATE MEASUREMENT OF ROOT CANAL LENGTH

Lowered environment requirements for root canal length measurement Suitable for various complex root canals Unaffected by blood and residual pulp, whether the root canal is dry or wet, it can automatically and precisely determine the position of apical foramen.

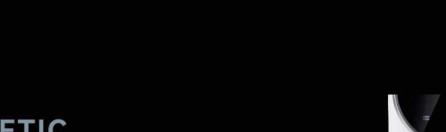
ENABLE WORKING LENGTH CONTROL DURING PREPARATION WHEN CONNECTED TO AN ENDO MOTOR

Connecting the Ai-pex to an Endo Motor that can be connected to Apex Locator allows real-time observation of the position of the file in the root canal during operation and activates many automatic functions (e.g. Auto Reverse).



CONSTANT CURRENT SOURCE **ELECTRIC PULP TESTING**

When the clinical need to determine the vitality of the root pulp arises, electric pulp test must be used. In the case of thermal pulp test (cold & heat), the cold and heat stimuli can only reach the coronary pulp and cannot test the vitality of the root pulp.



MAGNETIC ADSORPTION BASE

360° rotatable The viewing angle of the screen can be adjusted, no backlighting.





Woodpex V Dpex V

New Generation More than accurate

Apex locating and preparation Two-in-one

Be able to connect compatible Endo Motor to realize real-time data transmission. Simultaneously realize apex locating and root canal preparation.





DPEX V

25 National Patents 8 Invention Patents

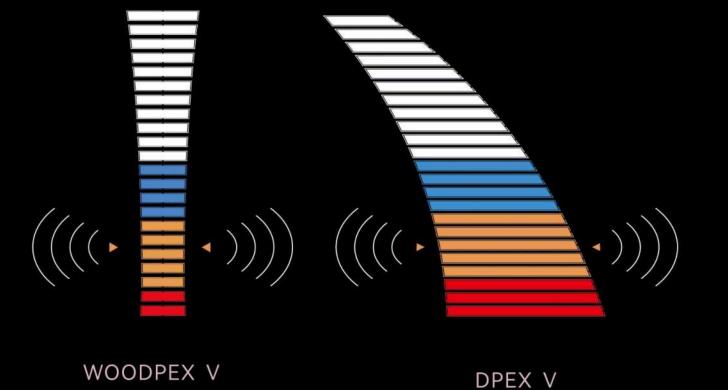


More than accurate



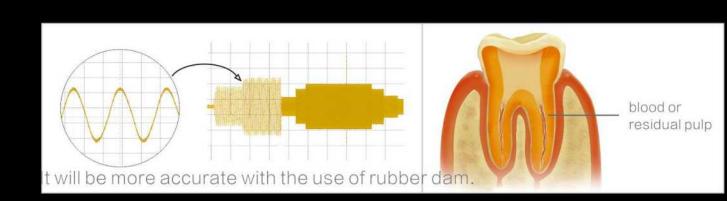
Newly upgraded algorithm makes it more stable and enables stronger anti-interference ability.

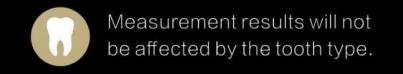


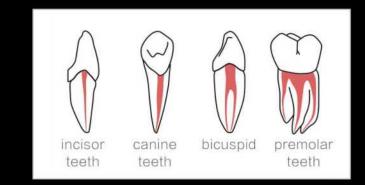




Multi-frequency apical position technology guarantees accurate measuring even there is blood or residual pulp in the root canal.







Fi-E & Fi-P Fi-E & Fi-P Gutta Percha Obturation Device

Wireless and electric

Perfect gutta-percha fluidity, uniform and smooth gutta-percha output without bubbles.

Easier than traditional manual gutta-percha injection to relieve hand fatigue for the operator.

Eliminate surgical hazards caused by gutta-percha leakage and overflow.

Maintenance-free thanks to automatic cleaning of remaining gutta-percha.



Reusable injection needle

360° rotatable

The gutta-percha bar is directly loaded into the injection needle.

There is no gutta-percha residue inside the machine, making it easier to clean.

The gutta-percha bar can be replaced at any time without waiting for the internal cooling of machine.



Dual button design

Symmetrically-designed dual injection buttons, sensitive and convenient.



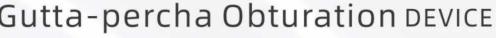
Compact and lightweight Easier to hold

Diameter: 26mm*26mm Length: 200mm Weight: 148g



Fi-G Fi-P

Gutta-percha Obturation DEVICE







0.2 second heating time

High-performance conversion system ensur the efficient cutting



0.35mm pre-bend tip

Thinner tips can penetrate deep into the narrow root canal, providing you a better treatment effect.



High precision temperature control

Constant temperature prevents scalding



4 working temperatures

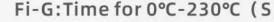
150°C、180°C、200°C、230°C can match gutta-percha of different brands on the market.



4 hours of endurance

Large capacity battery & special heating system enable 1500 operations with a full charge.





Woodpecker	Korean B brand	Chinese C brand	Chinese D branc
15	24	51	56



Fi-G:Time for 0°C-230°C (S)





Quick heating within 15 seconds

reduces time for waiting and increase your working efficiency.





0.5mm injection needle

Easy to reach the apical 3mm of canal brings better filling.





Prevent gutta-percha leakage

360 rotatable needle

Optimized structure, 360° uniform rotation, effectively avoiding gutta-percha leakage.

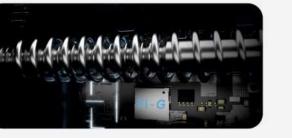


Pushing ram with anti-return structure

Mechanical-locking structure, effectively preventing the pushing ram from returning and avoiding the generation of cavities and bubbles.









R1 Plus NOCE

Gutta-percha Cutter



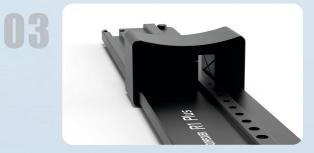
Designed by international dental experts Conducting 220 precise manufacturing processes on the equipment imported from Germany and Japan



Gutta-percha point trimming, smooth and glabrous cut surface



18 trimming and diameter measuring holes with an accuracy of 0.01mm, suitable for all gutta-percha points on the market



Anti-rust and double-sided cutting blade, smooth cutting can be done by sliding forward or backward



30mm length measuring ruler



Laser marking guarantees durable and fadeless marks



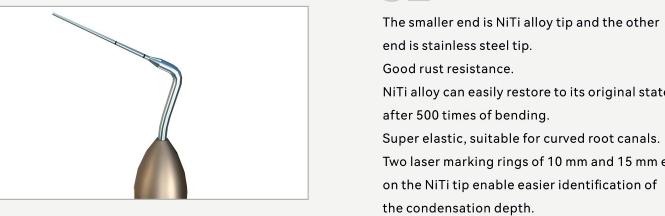
Made of aluminum alloy, autoclavable, light weight, no rust



Fi-N Plugger Noce

4 models with different tip diameters. 35-70 40-80 50-100 60-120





end is stainless steel tip. Good rust resistance. NiTi alloy can easily restore to its original state after 500 times of bending. Super elastic, suitable for curved root canals. Two laser marking rings of 10 mm and 15 mm engraved on the NiTi tip enable easier identification of

78 precise machining processes are conducted on each plugger with CNC machining equipment imported from Germany and Japan.

Taper accuracy up to 0.02mm.

Ergonomically designed handpiece allows easy operation and comfortable holding.



Irrigation



D600 LED

New Erafor Scaling



Ultrasonic Endodontic Expert

Rapid preparation, root canal orifice locating, removal of foreign body in root canal, endodontic irrigation, root canal retreatment, supragingival scaling and periodontal treatment.

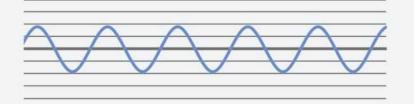
Compatible with more than 70 DTE tips.

Metal handpiece with LED can be autoclaved.

Sine-wave Drive

Avoid stimulation caused by instantaneous current output. Bring patients with comfortable treatment. Embody comfortable scaling.

D600 LED mild sine ware power output









Intelligent degenerative feedback

According to the different surface state of teeth, automatically select correct power so as to realize stable and continuous scaling effect.

Smart touch system

Clear control panel display.
Ultrasensitive touch control.
Waterproof design.

Automatic water supply system

Solutions such as sodium hypochlorite, chlorhexidine, hydrogen peroxide, and saline can be used.

Easy to change water; double waterway design eliminates redundant steps.

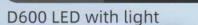
Clear 50 ml scale mark makes it convenient to formulate solutions.

Detachable handpiece with LED

Handpiece adopts latest sealing technique and can be autoclaved.

Patients feel more comfortable during treatment







Without light

29 Ultrasonic Scaler



Endo 1



Endo 1

Ultrasonic Endo Activate Device

Autoclavable handpiece head

Prevent cross infection and enable safer treatment

Detachable handpiece head

Can be autoclaved under high temperature of 134°C and high pressure of 0.22Mpa

E93/ED93 (Anti-breakage)

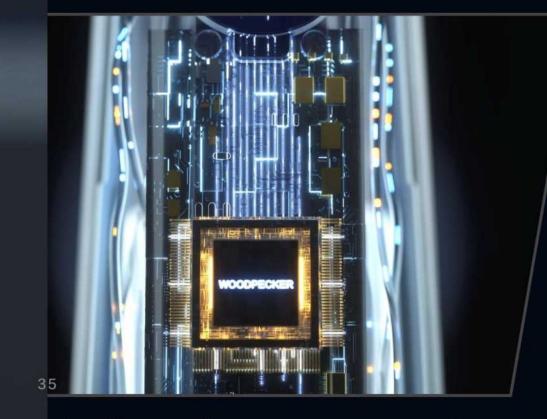
Unique root breakpoint design enables safer separation of devices

E96/ED96 (Bendable)

Can be pre-bent slightly according to the root canal shape

E98/ED98 (High-power)

The super ultrasonic conduction effect of Ni Ti makes the irrigation effect stronger

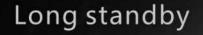


Intelligent microcomputer automatic control

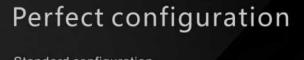
Microcomputer automatic control is adopted. The high-frequency oscillation signal is generated by the high-frequency oscillation circuit and acts on the handpiece head, making the tip resonate by the ultrasonic vibration stimulation.

Wireless and lightweight design

Non-tail cord design enables wireless operation More flexible



Long standby for 6 months 4 hours of continuous work Battery capacity: 750mAh



Standard configuration
1 autoclavable handpiece + 8 irrigation tips

Recommended service life of tip: Each tip can irrigate 30-50 root canals



EDG2

Endo 3

Endo 3

Ultrasonic Endo Activate Device

Multi-mode setting

User-friendlyLCD screen + Ring switch button

Smart Microcomputer control

Dual-mode setting

Mode 1: Hot standby mode

In this mode, power and time can be adjusted.

Mode 2: Irrigation mode It is working mode.

Three power levels

Three power levels available: E1, E2, E3, power from low to high in order

Four time modes

Four time modes optional: "10, 15, 20, --"

The working time in the irrigation mode: "10s, 15s, 20s, 10min"



Stable performance



Stable performance Intelligent tracking

Fully automatic frequency tracking system
Automatically search for best working state



Appropriate vibration amplitude

Tips with low vibration and high efficiency More efficient and reliable irrigation

Highly convenient design More efficient irrigation



Smart microcomputer control

Microcomputer automatic control is adopted. The high-frequency oscillation signal is generated by the high-frequency oscillation circuit and acts on the handpiece head, making the tip resonate by the ultrasonic vibration stimulation.



Wireless control, handy to operate

Wireless operation and charging Compact and light, easy for irrigation



User-friendly ring switch button

Ring switch button to control the machine Facilitate the treatment of different angles and different tooth positions



Clear LCD screen, easier observation

Visually display the machine working state

Endo Activator 34



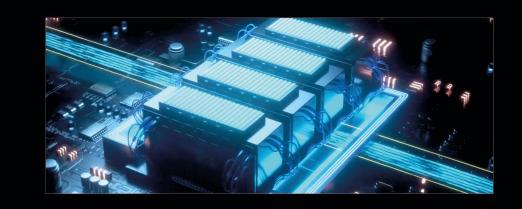
PURELY IMPORTED JAPAN CANON HIGH-FREQUENCY X-RAY TUBE

Refined tube manufacturing process
Ensure X-ray output stability and quality
Guarantee safe photographing



SUPER HIGH PERFORMANCE HIGH EFFICIENCY

Emission power up to 210W
Shorter exposure time with high power
Achieve stable, accurate and quick photography of
different tooth positions



HIGH-CAPACITY BATTERY LONGER ENDURANCE

15000mAh high-capacity power lithiumbattery delivers a longer endurance.More than 1,500 dental films can be taken under a full charge.



DETAILED DENTAL FILMS MORE RELIABLE

0.4mm focus X-ray tube

Provide high-quality and clearer image for various diagnostic needs









Over 110

Dental films can be taken after **5mins** of charging. Enable clear and concise display
Abandon the traditional physical button, beautifying the machine's appearance

35 Image system 36

i-Scan

Wireless Image Plate Scanner

Powerful processing capability

8-core CPU (containing 4 Arm Cortex-A53s, 1 Arm Cortex-M4F, 1 GPU, 1 VPU, and 1 FPU) developed with 14nm LPC FinFET advanced process technology, and FPGA used as a coprocessor, bring a smoother image processing experience biliatryks to more powerful processing capa



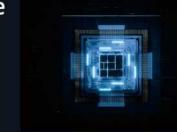
Powerful algorithm

One-click ultra-clear algorithm Multi-level structure image algorithm framework enhances the details of super-resolution images.



Ultra-high performance

8-core CPU developed with 14nm advanced LPC FinFET process technology FPGA used as a coprocessor Over 100 million data acquired per dental film Bring a smoother image processing



Super screen

7-inch 800*1280 ultra-high resolution capacitive touch screen Realize the analysis of images with clear details on the i-Scan and computer ensuring the reliable diagnosis basis for dentists.









Ultra-thin and flexible plate

Imported ultra-thin imaging plate can be reused more than 1000 times. The imaging plate is only 0.4mm in thickness, softer than conventional films. A total of 4 size (0-3) intraoral imaging plates can be used on i-Scan, allowing the photographing of various tooth positions.

back

back

37 Image system

Free Scan





Remarkable imaging sharpens each detail

25um scanning accuracy.

17LP/mm+65535 grayscale detail recognition ability.

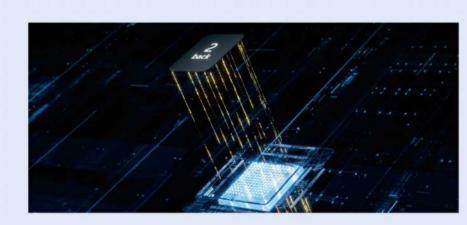
Clear details and image processing make
diagnosis and treatment more effective.



Advanced algorithm leads to intelligence

Multi-layered structural image algorithm framework enhances the details of super-resolution images.

Multi-mode processing algorithm to meet the image viewing habits of different doctors.

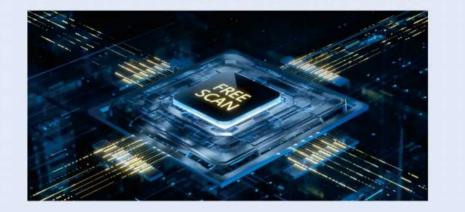


Powerful chip Intelligent scanning

FPGA chip accelerates data acquisition.
Support image viewing on mobile phones, tablets, and computers.

Exclusive image viewing software.

Greatly facilitate image viewing and processing.



Quick image viewing

Imported ultra-thin imaging plate has moderate thickness to keep oral cavity comfortable.

The 0-3 size imaging plates are available for photographing all tooth positions.



Good-looking and handy Compacted size of 0.046m² and space-saving position

The silver-black scheme is suitable for upscale and official occasions.

The compacted size of 0.046 m² remains full-fledged Standing nearby armchair to safeguard your teeth

Easy to operate

One-button start for scanning .

120-second autolock
to keep data safe.





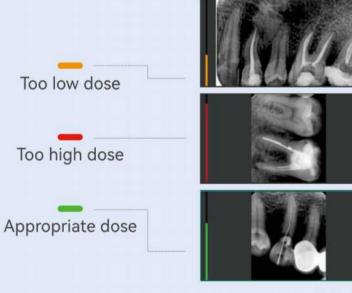
Real-time intelligent dose analysis Safe dental film photographing

Appropriate dose.

Accurately record the dose value for each photographing.

Timely reminder of exposure dose for clear images.

Ensure secure photographing.



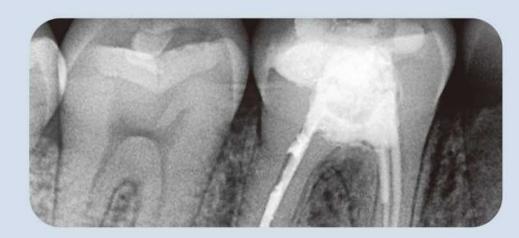


i-Sensor

Clearer & More durable

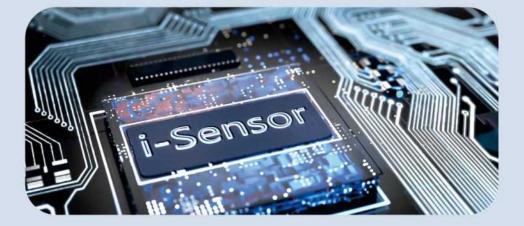
Туре	i-Sensor H1	i-Sensor H2	
Mechanical Size	25.0*36.8*4.4	30.4*41.9*4.4	
Detector Technology	APS CMOS	APS CMOS	
Scintillator	Csl	Csl	
Pixel Matrix	1000*1500	1300*1800	
Theoretical Resolution	25lp/mm	25lp/mm	
True Resolution	20lp/mm	20lp/mm	
Active Area	20*30	30*36	
AD Conversion(bit)	16	16	
Data Interface	USB 2.0	USB 2.0	
Protection	IP68	IP68	

Hardware Compact and thin Powerful inner core



Complete imaging process within 3s Efficient diagnosis and treatment

Stable and reliable AED exposure control technology Complete digital imaging process within 3s Eliminating the redundant procedures in using traditional film, the images can be obtained immediately after photographing. Get inspection results quickly



25 lp/mm theoretical resolution

High-precision 16-bit ADC chip, bringing you up to 60000+ grayscale Up to 1.5 million pixels, presenting more detailed high-definition images Auxiliary weapon for caries detection and endodontic treatment



Application in aerospace field APS CMOS technology

Efficient information access Detailed image of low noise and high resolution

Ergonomically optimized Cut Corners, bringing high patient occlusal comfort

4.5mm thinnest sensor



Ergonomically optimized Cut Corners, bringing high patient occlusal comfort 4.5mm thinnest sensor allowing easier placement in the mouth





Excellent waterproof performance

Rated at IP68, the highest level of Ingress Protection Dustproof and waterproof, easy to disinfect Can be immersed in disinfectant to avoid cross infection

withstand the "torture" Withstand "waves"

80000+ bending tests

80000+ bending tests Durable and reliable Robust CNC shell with fusion ultrasonic welding technology



Software Smart sharing Rich and wonderful vision

Multiple clients can be simultaneously connected to one server, facilitating data sharing

Support data and information sharing on multiple terminals including computers, mobile phones and ipads, contributing to communication between doctors and patients

Easy-to-operate, smart and powerful software

One-click smart installation, free software upgrade









NEWLY UPGRADED

Efficient

Woodpecker fourth generation of Piezo Bone Surgery, with greatly improved cutting efficiency than the third generation

Intelligent

The intelligent system will automatically adjust to the most appropriate output power according to the operation situation to avoid overheating

User-friendly

New operation interface, more convenient for doctors to use

EXTREMELY RELIABLE

Convenient operation

Fully upgraded Woodpecker fourth generation of Piezo Bone Surgery, easier to operate



Mode selection

enhancement

Power varies as per different bone quality

Exclusively featured one-touch power



Easy rinse

to choose from

After each use, rinse the pipeline via control of foot pedal

Different water flow adjustment levels

Water flow adjustment



Multi-function foot pedal

OControl of multiple functions One-button rinse mode

Sterilizable water pipe

External handpiece for easy disassembly and maintenance OAutoclavable



Ultra-quiet peristaltic pump

Ocontinuous and precise flow control; direct water flow to the tip end; efficient cooling

More silent and stable

INTELLIGENT AND POWERFUL

One-touch enhancement

Product with the latest technology from WOODPECKER, providing dentists with a superbly reliable and safe ultrasonic surgical system



STRONG POWER

Strong power, no handpiece overheating, thanks to:

- ONew enhanced handpiece
- OAdvanced sensing technology
- OSmart control system

Smart control system

- OAutomatic identification of different bone quality and strength to perform power adjustment, achieving the optimal output
- OEasy and effort-saving for doctors
- OLess noise at work





Innovative Three Wavelengths Blue Semiconductor Laser Therapy Device



Wavelengths & optical power

 $450 \pm 20 \text{ nm} / \text{Pmax} = 3\text{W}$ $650 \pm 20 \text{ nm} / \text{Pmax} = 200 \text{ mW}$ $976 \pm 20 \text{ nm} / \text{Pmax} = 5 \text{ W}$



Laser system

450 nm: Class IV; 976 nm: Class IV;

650 nm: Class II (according to IEC 60825-1)



Emission modes
CW (continuous wave

CW (continuous wave),chopped 1 Hz to 20 kHz



Aiming beam 650 ± 20 nm / Pm

650 ± 20 nm / Pmax < 5mW



11.1V 2600mAh x2 (57.7Wh)





Under treatment



Four weeks later

Three wavelengths meet requirements of more treatments

The innovative 450 nm blue laser technology is ideal for soft tissue cutting, ablation, coagulation and incision/excision. At 450 nm, the absorption constant of hemoglobin is two orders of magnitude for ordinary lasers (e.g. 980nm/810nm), making it only need very low laser power to complete the treatment, and the thermal damage during treatment is extremely low.

976nm is a traditional infrared dental laser. Due to its deep penetration in tissues, it is widely used for the reduction of bacteria in periodontal disease and endodontic diseases. At the same time, this wavelength is also suitable for high power laser treatment (HPLT) and pain reduction in TMJ.

The 650 nm laser is used for low level laser therapy (LLLT) effects. It is also known as the photobiomodulation (PBM) effect. It will contribute to wound healing and biostimulation of dental surgery.







O-Star

O-STAR

WIDE-SPECTRUM CURING LIGHT **ULTIMATE CURING EXPERT**

All-Metal Body 1 Sec Curing

Built-in Linght Meter

Uniform and Collimated Beam

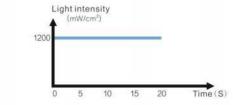
7Modes in Total

8mm diameter of lens 10mm diameter of lens





7 MODES TO FULLY MEET A VARIETY OF CLINICAL NEEDS



Normal Mode

Ortho Mode

Time setting: 3s*5, 3s*10

2700-3000 mW/cm²

strong penetrability,

Check Mode

This mode outputs a single

are worn, the caries are obviously orange-red.

purple light. When special glasses

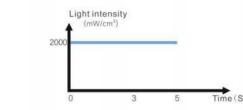
Application: Detection of caries, calculus and cracked tooth

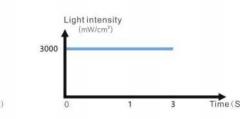
O-Star

especially suitable for

orthodontic bracket bonding

High light intensity with





High Mode

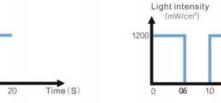
Soft Mode

Constant light intensity: 1000-1200 mW/cm² Suitable for most treatment scenarios, such as fillings, restorations, etc. Time setting: 5s, 10s, 15s, 20s

Constant light intensity: 1800-2000 mW/cm² Suitable for quick curing, ensuring enough curing depth Time setting: 3s, 5s

Turbo Mode

Time setting: 1s, 3s 2700-3000 mW/cm² Ultra-high light intensity enables 1 sec curing of 2mm resin.

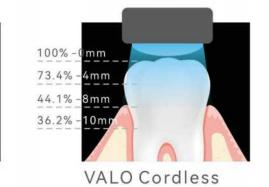


Pulse Mode

Light intensity is gradually increased The LED will stop for 0.4s at an from 0 to 1200 mW/cm2 interval of 0.6s curing. Time setting: 5s, 10s, 15s, 20s When working in a cycle of treatment, Effectively reduce the it can effectively reduce heat generation, efficiently dissipate heat and ensure shrinkage rate of resin; Lower the risk of microleakage the comfort of diagnosis and treatment. Time setting: 5s, 10s, 15s, 20s

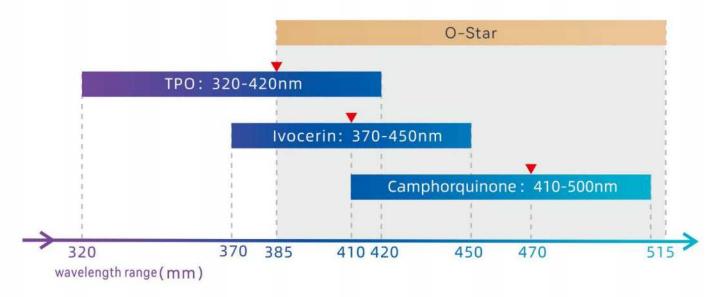








Wide Spectrum Curing Light can cure all resin materials on the market.



▼ indicates: This photoinitiator can better absorb light at this wavelength range.
Note: The data comes from the official website of Ivoclar Vivadent.

Uniform beam, Strong penetrability

Curing distance (cm)	5				
Light source	VALO	Woodpecker	VAFU	lvoclar Vivadent	
Light spot length (mm)	41	38	50	87	
Light spot width (mm)	41	38	50	87	
Light spot area (mm²)	1681	1444	2500	5941.665	
Light spot area ratio		-14.1%	48.7%	253.5%	
Light angle	17.38°	15.80°	21.75°	37.95°	

47 Curing Light