



# Carbon X Series

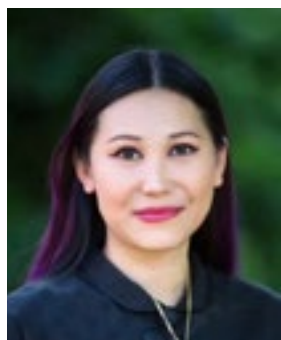
## Premium Products Range







**Jonathan Sims**  
President



**Jenny Yang**  
CEO



**Andreas Reiderer**  
EU Management

Xpedent stands out as a UK company with a unique advantage in the dental industry.

By manufacturing dental products in China, we provide top-quality, European-style dental equipment at competitive prices. This approach differentiates us from most dental brands worldwide.

Our UK brand label is synonymous with quality and reliability, which resonates strongly with our customers.

The trust in our craftsmanship often enables Xpedent's dealers to command higher prices for our products.

This, in turn, can translate into increased profits compared to other Chinese brands.

At Xpedent, we leverage this distinctiveness to continuously deliver excellence in dental care and maintain our position at the forefront of the dental equipment market.

## Xpedent International - Oral Healthcare Solutions Platform

Xpedent Group is dedicated to delivering comprehensive solutions for dental healthcare institutions. This includes independently developed and manufactured equipment and consumables, covering areas such as hygiene, endodontics, implants, and imaging solutions.



EndoSync Pro



HygieneMastery



ImageMastery



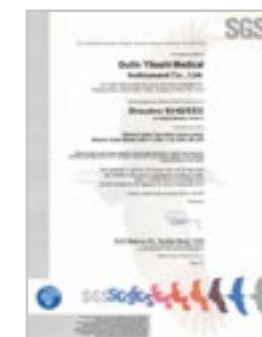
ImplantMastery



Certification



ISO



CE







- Continuous Lens System
- Built-in HDMI 4K digital image output system

# OralOptix Prime<sup>®</sup>

Surgical Microscope

To see a small beginning



German Lenses



## Imaging Configuration (Built-in)

Built-in HDMI 4K Full HD digital image output system.

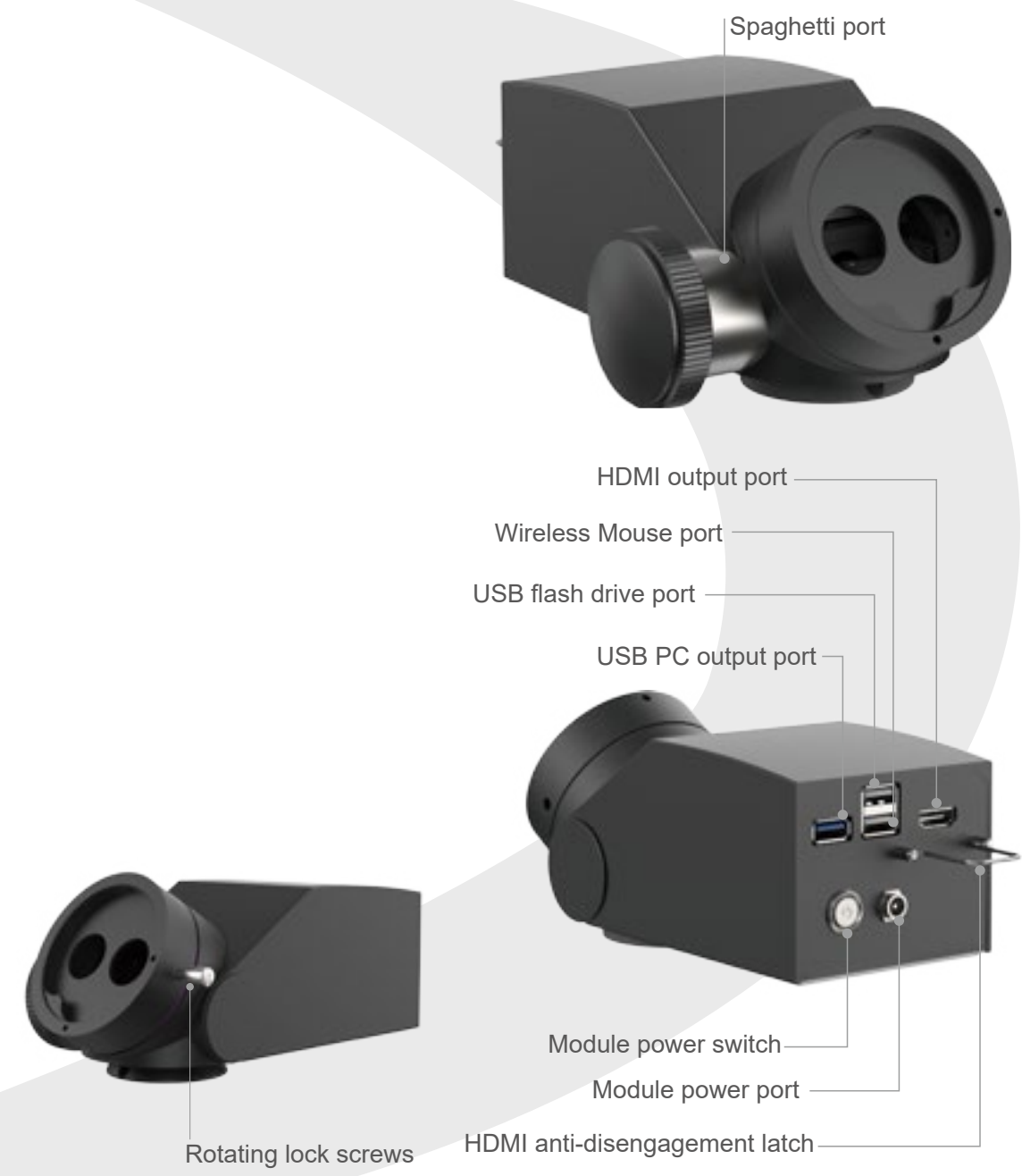
During treatment, the high-definition image is clearly displayed through the connected monitor, which is helpful for conducting clinical work, teaching, scientific research, and facilitating communication between the dentist and patients.



Built-in 4K module



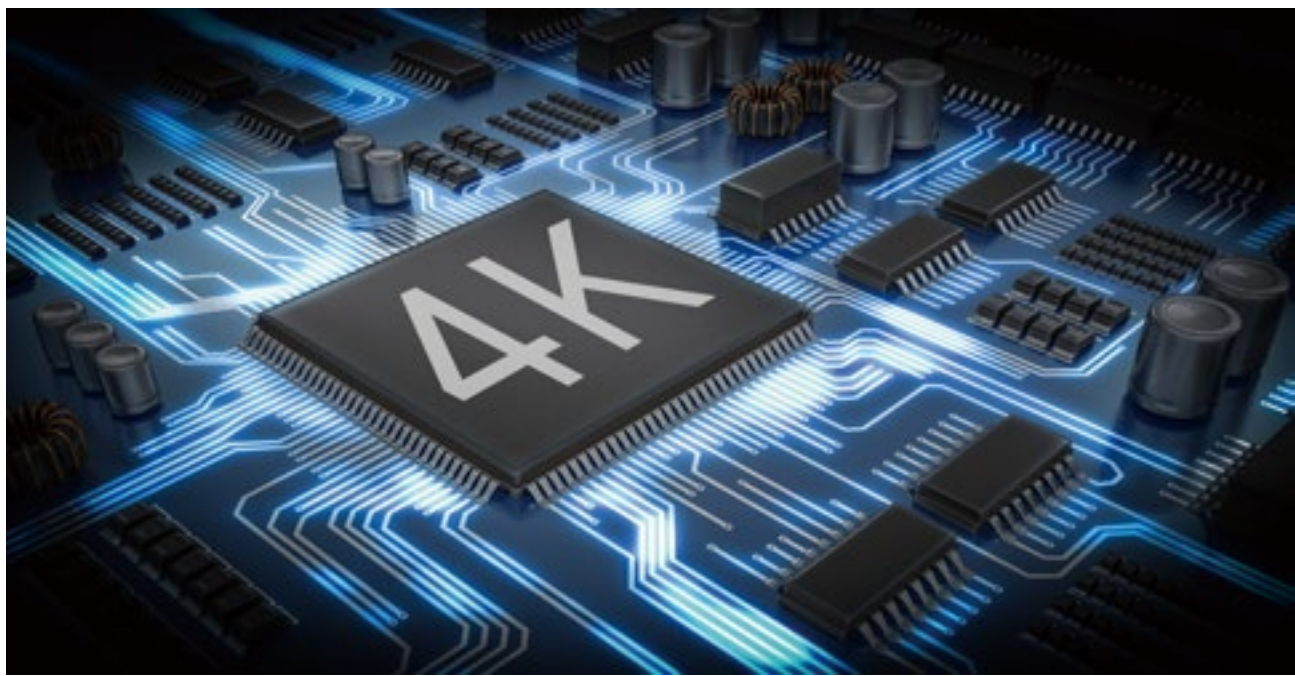
# Built-in 4K High-Definition Image Output



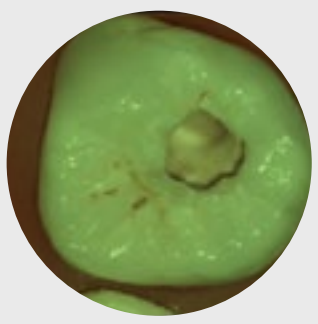
4K functions: integrated image module, rotating ring, extender, and spectrophotometer.  
HDMI signal output to the display.  
With a USB port for connection to a wireless mouse and USB flash drive, the photos and videos taken can be stored on the USB drive.

# Four-in-One Integrated 4K Module

4K Ultra-HD camera and video module: the resolution is four times that of 1080P, presenting ultra-clear and detailed images. The video can be stored on a high-speed USB drive after capture, with a wireless foot control function for convenient and quick operation.



# Built-in Orange Filter + Green Filter



Green Filter

Enables you to see tiny nerves and vessels clearly in the surgical environment, even with blood present.



Orange Filter

Prevents resin material curing interference from curing too quickly.



# German Schott Glass

## The Ultimate Optical Experience

German Schott Glass is designed to eliminate colour differences and features a multi-layer optical coating to improve visibility. It clearly restores the details of the operating area, providing better colour fidelity and light sensitivity, and adapts well to both high-brightness and extremely dark shooting environments.



# Continuous Lens System

Turn the magnification adjustment knob to achieve continuous, smooth, and seamless operation. The vision will not be interrupted during the zoom in process. The magnification factor can be continuously adjusted from 0.4X to 2.4X, and the total magnification can range from 3.4X to 21.4X. Continuous magnification allows the doctor to maintain a clear field of vision under the microscope for uninterrupted observation.



# Continues Lens



# 290mm Zoom Objective Lens

With an extended working range of 190-480mm, the system accommodates full oraldepth coverage, eliminating positional adjustments during procedures. There is no need to move the microscope or change the working position; instead, simply adjust the focus of the objective lens to achieve a clear vision, efficiently and quickly.



## No External Cables

The entire instrument has cable-free design enhances ergonomic flexibility. This sleek and aesthetically pleasing microscope integrates perfectly into the clinical environment

## Ease of Maintenance

Modular design allows for quick troubleshooting of faulty modules, enabling swift maintenance and repair. Machine troubleshooting and repairs can be completed within ten minutes.





## German-engineered Gas Spring Balance Arm

The spring can actively balance, and the damping double-adjustment balance arm system offers more active balance than traditional single-damping arms, offsetting the influence of gravity. This allows the microscope's main mirror to achieve optimal balance. The microscope's main mirror can hover at any position and can be adjusted smoothly.

## Medical-grade LED Illumination

Utilising a top-level medical LED light source with a lifespan of 65,000 hours.

The high colour rendering index is close to natural light, providing more realistic colours and reducing eye fatigue.



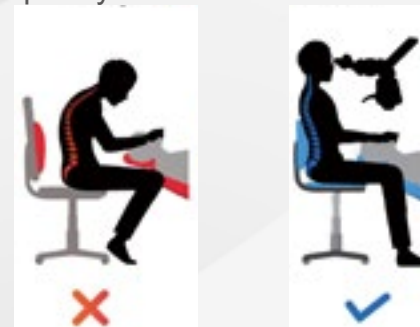
## Flexible Operation Fluid, Precision Control

While maintaining the horizontal viewing position of the eyepiece, the lens position can be adjusted forwards and sideways using very smooth manual controls.

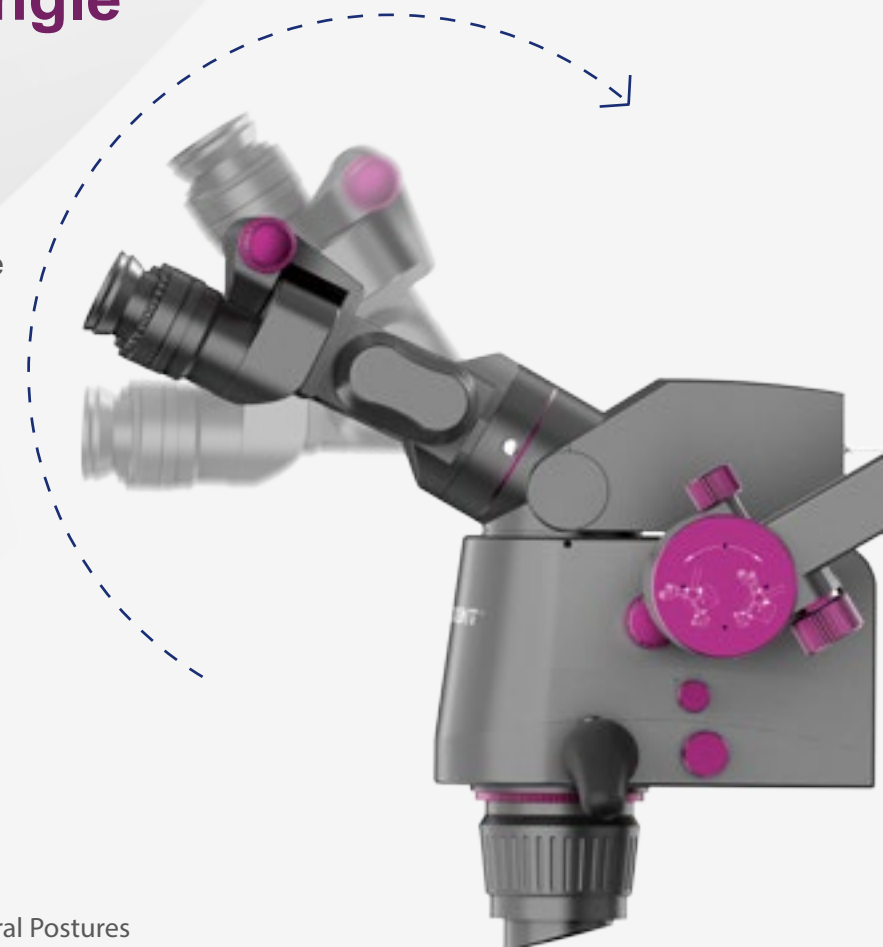


## 0-220° Variable Angle Binoculars

These can be adjusted as required, providing a comfortable posture during different operations to improve work flexibility. It effectively reduces and prevents muscle strain on the waist, neck, and shoulders, helping clinicians avoid issues such as cervical spondylosis and lumbar spondylosis.



Reduces Occupational Strain: Supports Neutral Postures



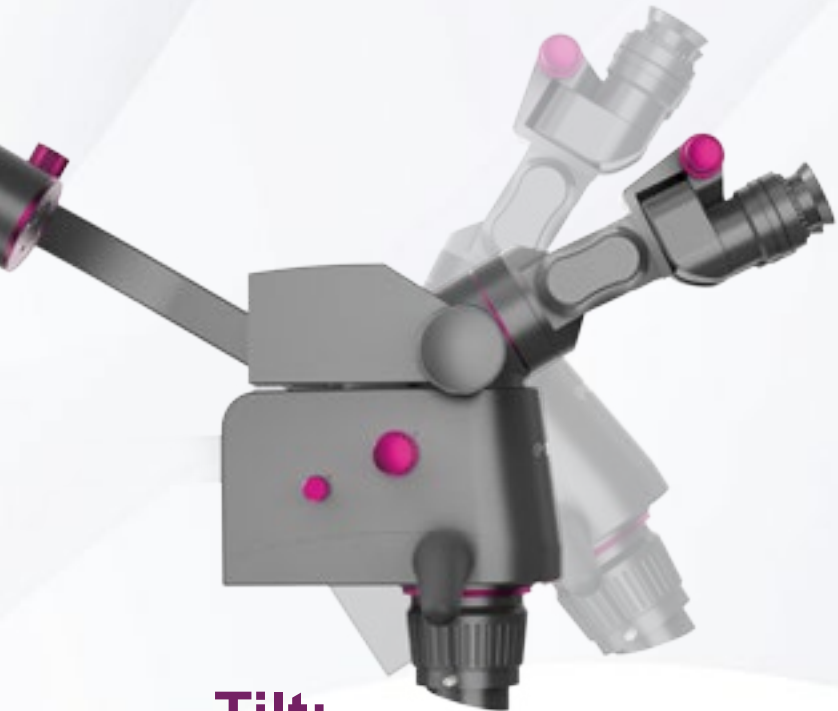
## Pendulum System

**Horizontal:** This allows observation from any angle.



## Tilt:

The mirror body can be tilted back and forth, enhancing operator comfort for a variety of different operations.

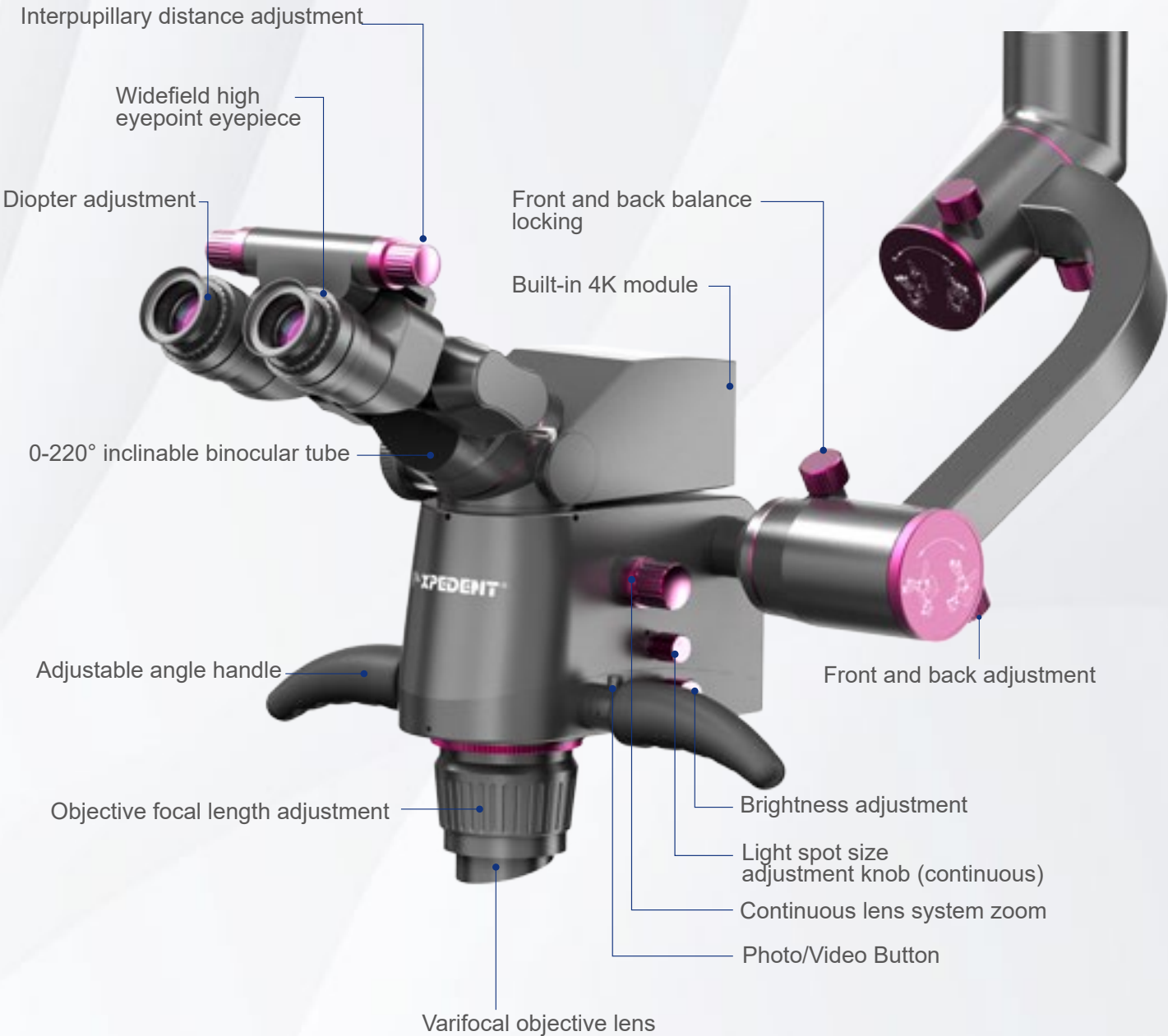


## Product Components





# Product Components



# Basic Configuration

Amplification and magnification system	Continuous lens system
Binocular Tube	220° variable angle binocular lens tube
Eyepiece	12.5x wide-angle eyepiece, visual adjustment range: ±7D, pupil distance adjustment range: 51-76mm
Large Zoom Objective	F190-480mm
Surface Illuminance	Greater than 100,000 LUX
Spot Diameter	Optional: Medium 78mm, infinitely adjustable spot size
Field of View Diameter	Middle 61.8mm - Middle 9.8mm
Colour Filter	Orange, green
Wall-mounted Counterbalance System	Spring active balance + damping dual adjustment balance arm system
Arm Extension	1860mm
Lighting System	LED lighting source with continuously adjustable brightness and a lifespan of no less than 65,000 hours
Automatic Switching Device	The switch in the small cross arm automatically closes when it is raised to the maximum height
Installation Method	Column roller type, "H" shaped base
External Imaging Solution	Camera digital port, suitable for Canon, Nikon, Sony, and other cameras. Includes a 30-degree extender with an integrated stereo splitter (with a split ratio of 2:8 or 5:5) and a rotating ring.



With Built-In 4K System

6 Gears Manual Zoom

# OralOptix Prime®

Surgical Microscope

*To see a small beginning*



German Lenses



## Four-in-One Integrated 4K Module

- Built-in 4K high-definition image output.
- 4K functions: integrated image module, rotating ring, extender, and duster.
- HDMI signal output to the display.
- With a USB interface for connection to a wireless mouse and USB flash drive. Photos and videos taken can be stored on the USB drive.

## Basic Configuration

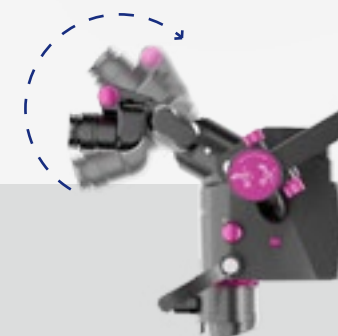
Amplification and magnification system	Six gear manual zoom
Binocular Tube	220 ° variable angle binocular lens tube
Eyepiece	12.5x wide-angle eyepiece, visual adjustment range: ±7D, pupil distance adjustment range: 51-76mm
Large Zoom Objective	F190-300mm
Surface Illuminance	Greater than 70,000 LUX
Spot Diameter	Optional: Medium 78mm, infinitely adjustable spot size
Field of View Diameter:	Middle 61.8mm - Middle 9.8mm
Colour Filter	Orange, green
Balance Arm System	Spring active balance + damping dual adjustment
Arm extension	1680mm
Lighting System	LED lighting source with continuously adjustable brightness and a lifespan of no less than 65,000 hours
Automatic Switching Device	The switch in the small cross arm automatically closes when raised to the maximum height
Installation Method	Column roller type, "H" shaped base
External Imaging Solution	Camera digital interface, suitable for Canon, Nikon, Sony, and other cameras. 30-degree extender with integrated stereo splitter (with a split ratio of 2:8 or 5:5) and rotating ring

## Schott Glass from Germany The ultimate optical experience



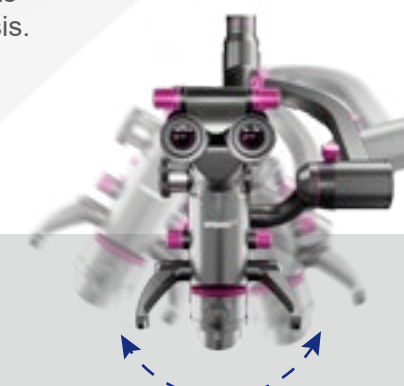
## Binoculars

The variable angle system provides 220° of adjustment, enabling more flexible work while maintaining a comfortable posture. This reduces muscle strain and helps to prevent cervical and lumbar spondylosis.

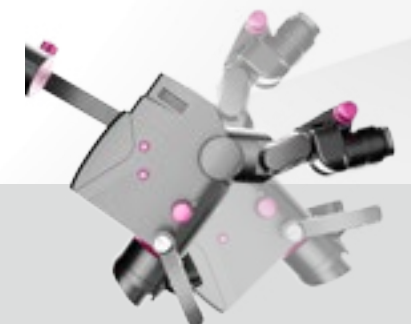


## Pendulum System

**Horizontal:** This allows for observing any angle.



**Tilt:** The mirror body can be tilted back and forth, enabling operator comfort for a variety of operations.





## Four-dimensional cleaning controlled by one device

- ✓ Ultrasonic Root Canal Treatment
- ✓ Comfortable and Painless Ultrasonic Periodontal Treatment
- ✓ Plaque Control Sandblasting Treatment
- ✓ Aluminium Oxide Sandblasting

One device covers all scenarios of oral care, eliminating the hassle of switching between multiple instruments

## Automatic handle recognition

Automatically identifies the handle type, switching functions without manual adjustment, reducing the risk of misoperation and enhancing efficiency.



**Four In One**

**Ultracare Pro  
Scaler & Air Polish Device**





## Instant access Precise control

Slide to adjust power/water flow/water temperature  
Visualisation of parameters for smooth operation



## Smart temperature control for enhanced comfort

Intelligent heating water supply system, saying goodbye to the traditional shock of cold water.

Comfortable water temperature protects sensitive gums, making the treatment experience more user-friendly



## Ultrasonic Root Canal Treatment

- High-Frequency Waves for Debris and Infection Removal
- Thorough Cleaning to Improve Success Rates
- Minimises Damage to Surrounding Teeth
- Suitable for Irrigation and Other Procedures.



Repair the pathway, explore the calcified root canal, and remove any attached pulp stones.



Place MTA bioceramics.



Apical Surgery: Involves inverted apical preparation and the placement of inverted filling materials.



Ultrasonic vibration pressure for dental applications.



Activate sodium hypochlorite.



Remove broken instruments from the root canal, including root canal posts, silver points, fractured metal, and other debris.



## Comfortable and Painless Ultrasonic Periodontal Treatment

- Patented Handle Design for Long Sessions
- Independent Water Supply for Acidic and Alkaline Medications
- Automatic Frequency Tracking with Intelligent Tip Identification
- Compatible with Over 60 Ultrasonic Tips for Various Needs
- Suitable for Both Supragingival and Subgingival Treatments



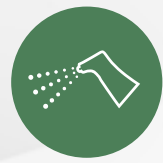
Before ▶



After ▶







## Plaque Control Sandblasting Treatment

- Multi-Stage Air Filtration to Prevent Moisture in Compressed Air
- Patented Handle Design with 360-Degree Rotation, No Clogging
- Progressive Nozzle Design for Concentrated Sandblasting
- Durable and Flexible Water and Air Pipes
- High-Pressure Resistant Pipes (0.6 MPa) for Stubborn Deposits
- One-Button Cleaning for Water and Air Circuits

### One-click Cleanup

- Maintenance is more convenient because of one-click cleanup
- All-in-one touch panel for easy cleaning
- Interface design is simple, friendly, and attractive

### Advantages

#### Effectively protects the surface of teeth

The powder has low hardness so avoids damage to dentin during scaling

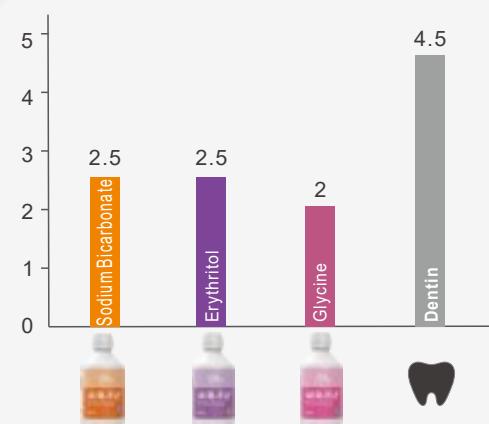
#### More effective at removing plaque

Powder-blasting can access and clean inaccessible areas such as orthodontic brackets and occlusal surfaces

#### Reducing the plaque and pigment

Teeth cleaned by powder-blasting are more resilient to buildup of plaque or unwanted pigments

Comparison of hardness of powders and dentin



Recommended angle: 30°-60°



Recommended distance: 3-5 mm



## Aluminium Oxide Sandblasting

Alumina blasting powder can act on

All-ceramic restorations (veneers, aluminum oxide)  
metal restorations (diamond chrome, alloy)

Surface treatment etching to maximize bonding area and improve adhesion

Allows complete removal of mesh bottom adhesive for orthodontic brackets

### Clog-Free Operation

The unique nozzle design prevents blockages, significantly enhancing work efficiency. It effectively inhibits the diffusion of sand powder and prevents water vapour from being reabsorbed

### Alloy Tungsten Carbide Nozzles

Designed for longer life and resistance to wear

### Precision Sandblasting

The nozzle can be rotated 360°, allowing for easy spraying from any angle. It is detachable for easy cleaning and maintenance

### AP-1

**AluSparkle®** Aluminium Oxide Abrasive Powder



No water absorption, no blocking, highly efficient

Perfect for working on the surface of crowns, inserts and orthodontic fasteners

**27-micron** sand for Immediate Dentin Sealing to improve bond strength for indirect restorations, crowns, inlays and onlays

**50-micron** sand for ceramic and porcelain restoration, such as porcelain veneers or inlays

**90-micron** sand for metal and zirconia restorations such as orthodontic brackets, implant bases, zirconia restorations



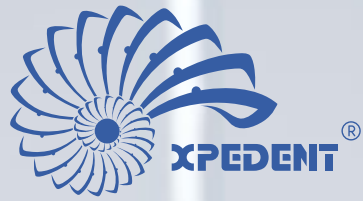
# Product component



## Specification

Input water pressure	≥50ml/min
Sand amount	≤9g/min
Blasting hole	(0.60+0.05)mm
Use powder range	27-90μm
Operation air pressure	0.4MPa
Water jet capacity	0.2MPa





## TriLux Laser



## Personal Laser Device Features

Portability: No external power cords or laser firing pedals required, maximising mobility. An optional laser launch pedal connection is available with two selectable modes.



# Features



## Triple Wavelength

Combines 450nm, 650nm, and 980nm wavelengths.

## Touch Screen

8-inch OLED touch screen works with wet hands and medical gloves.

## Ease of Operation

Handpiece features a power adjustment button.

## Fibre Optic Tip Models

Available for various dental diode laser applications.

## Battery Life

Built-in long-life lithium battery lasts for one month on a single charge



# Applications



## Oral Surgery

- Abscess
- Fibroma
- Frenectomy
- Crown Lengthening
- Haemostasis
- Gingivectomy/Gingivoplasty
- Implant Exposure (second stage)
- Incision/Excision
- Wound Healing



## Periodontology

- Periodontic Germ Reduction
- Peri-implantitis



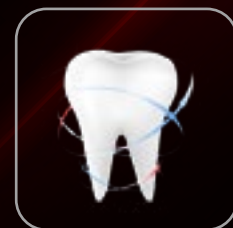
## Endodontics

- Root Canal Disinfection
- Pulpotomy



## Oral Implantology Prosthodontics

- TMJ Disorders



## Oral Aesthetics

- Tooth Whitening



## Mucosal Pathology

- Aphthous Ulcers
- Desensitisation



## Orthodontics Pediatric Dentistry



# Triple Wavelength

Combines 450nm, 650nm and 980nm wavelengths

450  
nm

## Blue Wavelength (450 nm)

- Tooth Whitening: High photon energy activates whitening gel molecules efficiently.
- Haemostasis: Effective in achieving haemostasis.
- Dental Diode Laser Efficiency: High efficiency in all applications.

650  
nm

## Red Wavelength (650 nm)

- Photobiomodulation: Perfect for photomodulation (PBM).
- Low-Level Laser Therapy (LLLT): Promotes faster wound healing and pain-free dental treatments.

980  
nm

## Infrared Wavelength (980 nm)

- Soft Tissue Surgical Procedures: Ideal for endodontic and periodontal treatments.
- Efficiency and Coagulation: Achieves hemostasis at very low power settings.
- Antibacterial and Anti-inflammatory: Highly effective.
- High Power Laser Treatment (HPLT): Suitable for various treatments.
- Pain Reduction in TMJ: Effective in reducing temporomandibular joint pain.

# Multifunctional

Over 10 built-in preset programmes

980nm				
	Power(W)	Pulse Width	Duty Cycle	Times
Hemostasis	1	/	/	30
Peri-implantitis	1	/	/	30
Perio-Germ Reduction	1	100ms	30%	30
Desensitisation	0.5	/	/	30
Laser therapy	0.5	/	/	30
Dental ulcer	0.5	/	/	48
Abscess	1	/	/	30
Gingival troughing	1.5	/	/	30
Implant Exposure	1.5	/	/	30
Sulcular Debridement	1.5	200	50%	30
Pulpotomy	1.5	100	50%	30
Gingivoplasty	1.5	/	/	30
Cyst	1.5	/	/	30
Angioma	1.5	/	/	30
Frenctomy	2.5	/	/	30
Endo.Germ Reduction	1	/	/	30
Laser-assisted whitening	1	/	/	30
Establish a drainage Path	2	/	/	30

650nm				
	Power(W)	Pulse Width	Duty Cycle	Times
Promote wound healing	0.2	/	/	30
Dessensi -tization to Hot and Cold teeth	0.2	/	/	30
Tooh desensi-tization	0.2	/	/	30
Relieve the Burning Mouth	0.2	/	/	30

450nm				
	Power(W)	Pulse Width	Duty Cycle	Times
Removel of labial or sublingual tissue	2	/	/	30
Removel of epulis tissue	2	/	/	30
Removel of fibroma tissue	2	/	/	30
Gingivectomy	2	/	/	30
Gentle removal of soft tissues for biopsy	2	/	/	48
Second stage implant exposure	2	/	/	30
Soft tissue crown Lengthening	2	/	/	30
Gingival troughing for crown impressions	2	/	/	30
Hemostasis	2	/	/	30
Whitening Tooth	3	/	/	30



# Ease of Operation

Handpiece features a power adjustment button  
No external power cords or laser firing pedals required, Maximising mobility. Optional laser launch pedal connection available with two selectable modes.



# Touch Screen

8-inch OLED touch screen works with wet hands and medical gloves.





Optional




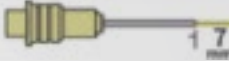

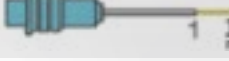
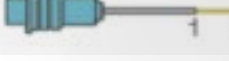
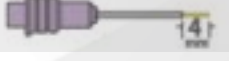
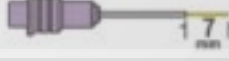
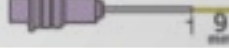
Whitening Handpiece  
For teeth

whitening/bleaching, treats  
an entire quadrant  
consistently and  
comfortably



TMJ Handpiece

For pain management in TMD

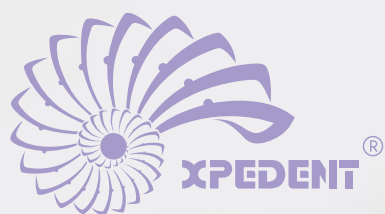
Non-initiated	Models	Φ	Length	Intended
	F4-4	400um	4	Surgery
	F4-7	400um	7	Periodontal
	F4-9	400um	9	Periodontal
	F2-14	200um	14	Periodontal
	F2-20	200um	20	Root canna
	PF4-4	400um	4	Surgery
	PF4-7	400um	7	Periodontal
	PF4-9	400um	9	Periodontal

Disposable Tips: Available in two different sizes: 200 μm, 400 μm.

Specifications

Wavelengths	450nm, 650nm, 980nm
Maximum Power	450nm: 3W CW 650nm: 200mW CW 980nm: 8W CW/Pulse
Emission Mode	CW/Pulse
Medium	InGaAsP Diode
Optic Fiber Diameter	200/400um
Pulse Width	10us to 900ms
Super High Frequency	50KHz
Display	8-inch OLED Touch-Screen
Dimensions	190mm x 155mm x 260mm
Weight	1.5Kg
Aiming Laser Wavelength	650nm
Battery	Built-in rechargeable lithium-ion
Battery Capacity	7200mAh





Two Hand pieces

## Chair side DUE Master



handle only

40<sub>g</sub>

### Clog-Free Operation

The unique nozzle design prevents blockages, significantly enhancing work efficiency. It effectively inhibits the diffusion of sand powder and prevents water vapour from being reabsorbed

### Alloy Tungsten Carbide Nozzles

Designed for longer life and resistance to wear

### Precision Sandblasting

The nozzle can be rotated 360°, allowing for easy spraying from any angle. It is detachable for easy cleaning and maintenance

35<sub>g</sub>

### Large Sand Bin

Capable of holding 35 grams of sand at once, ensuring a uniform sand production rate to meet clinical requirements

### One-Click Cleaning

The one-click cleaning feature simplifies the cleaning process, saving maintenance time and costs



## Two Hand pieces

### AEROBLAST

*Working on the surface of tooth crown, inserts and orthodontic fasteners*

### DENTAFLUX

*Effective for the removal of plaque from teeth*

## AEROBLAST

Sandblaster handpiece

**Working on the surface of tooth crown,  
inserts and orthodontic fasteners**

*Alumina blasting powder can act on*

*All-ceramic restorations (veneers, aluminum oxide) metal restorations (diamond chrome, alloy)*

*Surface treatment etching to maximize bonding area and improve adhesion*

*Allows complete removal of mesh bottom adhesive for orthodontic brackets*

### AP-1

**AluSparkle®** Aluminium Oxide Abrasive Powder



*No water absorption, no blocking, highly efficient*

*Perfect for working on the surface of crowns, inserts and  
orthodontic fasteners*

**27-micron** sand for Immediate Dentin Sealing to improve  
bond strength for indirect restorations, crowns, inlays and  
onlays

**50-micron** sand for ceramic and porcelain restoration, such  
as porcelain veneers or inlays

**90-micron** sand for metal and zirconia restorations such as  
orthodontic brackets, implant bases, zirconia restorations

# DENTAFLUX

Airflow handpiece

**AIR FLY<sup>®</sup>**  
Prophy Powder



- AF-1 SODIUM BICARBONATE
- AF-2 ERYTHRITOL
- AF-4 GLYCINE

Effective for the removal of plaque from teeth. For oral cleaning purposes only; do not ingest or swallow

## Effects of Air Polisher

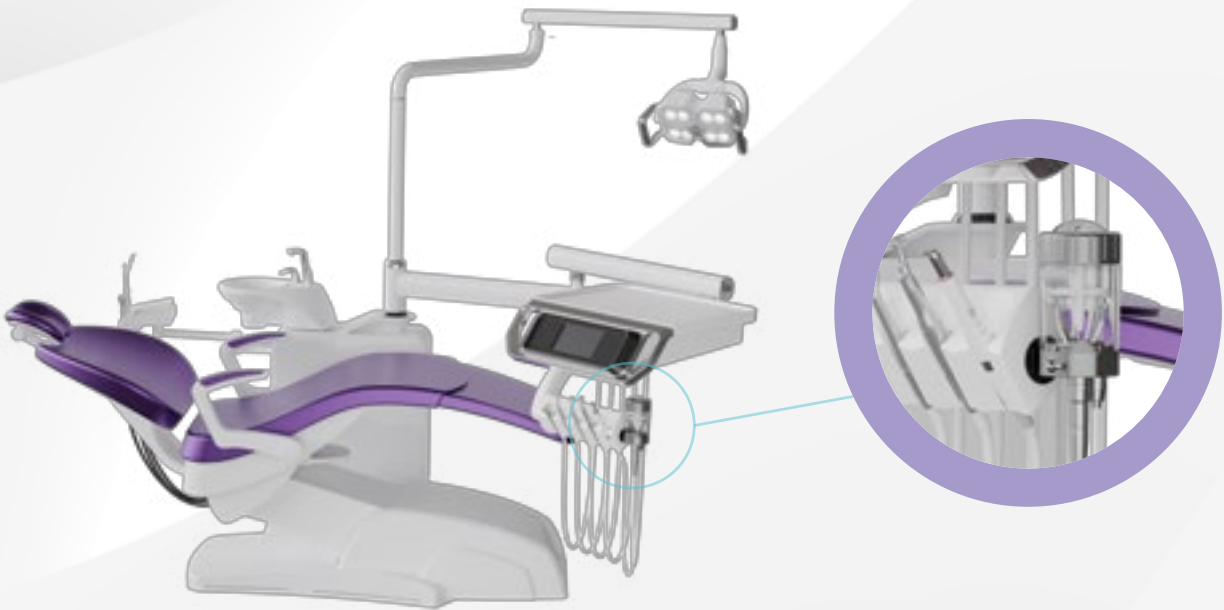


← Before Air Polishing

← After Biofilm Disclosing

← After Air Polishing

## Suitable for different dental chairs



- Suitable for different dental chairs with easy installation and no additional space required for disassembly
- Easy installation
- No space required for easy disassembly
- No separate equipment cart required

## Specification

Connector	4hole
Input water pressure	≥50ml/min
Sand amount	≤9g/min
Blasting hole	(0.60±0.05)mm
Use powder range	27-90µm
Operation air pressure	0.4MPa
Water jet capacity	0.2MPa





# ErgoDentix<sup>®</sup>

Ergonomic loupes

Improve Your Posture

Enhance Your Well-Being



## Galilean

Blue

Gold

Dark grey

Customisable

- Working Distance: 300-700mm
- Tilt Angle · Frame · Lens Power





## AIRGO

Customisable

- Working Distance: 280-600mm
- Tilt Angle · Frame · Lens Power
- Interpupillary Distance



## SLIM SCOPE

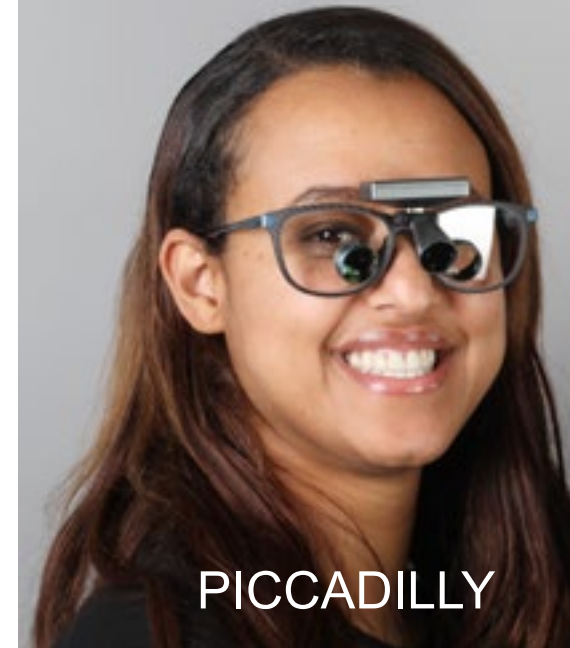
Customisable

- Working Distance: 280-600mm
- Tilt Angle · Frame · Lens Power





## Frame options



PICCADILLY



HOLMES



FocusX



ALBERT

PICCADILLY

Temple Arms Colour

- BLUE
- GOLD
- GRAY



Galilean

Lenses Colour

- BLUE
- GOLD
- GRAY

Model	Pic	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
PG2.5		2.5X	300-700mm	200mm	150-170mm	43g
PG3.0		3.0X			130-150mm	46g
PG3.5		3.5X			110-130mm	47g
PG4.0		4.0X	280-380mm		150-170mm	60g
PG5.0		5.0X	360-460mm		130-150mm	62g
PG6.0		6.0X	500-600mm		110-130mm	70g

AIRGO

Lenses Colour

- Black
- Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
PA3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	54g
PA4.5	4.5X		100mm	50-80mm	58g
PA5.5	5.5X		90mm	50-75mm	64g
PA6.5	6.5X		80mm	45-70mm	61g
PA7.5	7.5X				

SLIM SCOPE

Lenses Colour

- Black
- Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
PS3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	54g
PS4.5	4.5X		100mm	50-80mm	58g
PS5.5	5.5X		90mm	50-75mm	64g
PS6.5	6.5X		80mm	45-70mm	61g
PS7.5	7.5X				

ALBERT

Frames Colour

- GOLD
- GRAY



Galilean

Lenses Colour

- BLUE
- GOLD
- GRAY

Model	Pic	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
AG2.5		2.5X	300-700mm	200mm	150-170mm	52g
AG3.0		3.0X			130-150mm	55g
AG3.5		3.5X			110-130mm	56g
AG4.0		4.0X	280-380mm		150-170mm	69g
AG5.0		5.0X	360-460mm		130-150mm	71g
AG6.0		6.0X	500-600mm		110-130mm	79g

AIRGO

Lenses Colour

- Black
- Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
AA3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	63g
AA4.5	4.5X		100mm	50-80mm	67g
AA5.5	5.5X		90mm	50-75mm	73g
AA6.5	6.5X		80mm	45-70mm	70g
AA7.5	7.5X				

SLIM SCOPE

Lenses Colour

- Black
- Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
AS3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	63g
AS4.5	4.5X		100mm	50-80mm	67g
AS5.5	5.5X		90mm	50-75mm	73g
AS6.5	6.5X		80mm	45-70mm	70g
AS7.5	7.5X				



# HOLMES

Frames Colour ● BLUE ● GOLD



## Galilean

Lenses Colour ● BLUE ● GOLD ● GRAY

Model	Pic	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
HG2.5		2.5X	300-700mm	200mm	150-170mm	43g
HG3.0		3.0X			130-150mm	46g
HG3.5		3.5X			110-130mm	47g
HG4.0		4.0X	280-380mm		150-170mm	60g
HG5.0		5.0X	360-460mm		130-150mm	62g
HG6.0		6.0X	500-600mm		110-130mm	70g

## AIRGO

Lenses Colour ● Black ● Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
HA3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	54g
HA4.5	4.5X		100mm	50-80mm	58g
HA5.5	5.5X		90mm	50-75mm	64g
HA6.5	6.5X		80mm	45-70mm	61g
HA7.5	7.5X				

## SLIM SCOPE

Lenses Colour ● Black ● Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
HS3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	54g
HS4.5	4.5X		100mm	50-80mm	58g
HS5.5	5.5X		90mm	50-75mm	64g
HS6.5	6.5X		80mm	45-70mm	61g
HS7.5	7.5X				

# FocusX

Frames Colour



Dark Gray



Light Brown



Magenta



## Galilean

Lenses Colour ● Black

Model	Pic	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
FG2.5		2.5X	300-700mm	200mm	150-170mm	43g
FG3.0		3.0X			130-150mm	46g
FG3.5		3.5X			110-130mm	47g
FG4.0		4.0X	280-380mm		150-170mm	60g
FG5.0		5.0X	360-460mm		130-150mm	62g
FG6.0		6.0X	500-600mm		110-130mm	70g

## AIRGO

Lenses Colour ● Black ● Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
FA3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	54g
FA4.5	4.5X		100mm	50-80mm	58g
FA5.5	5.5X		90mm	50-75mm	64g
FA6.5	6.5X		80mm	45-70mm	61g
FA7.5	7.5X				

## SLIM SCOPE

Lenses Colour ● Black ● Grey



Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
FS3.5	3.5X	280-380mm 360-460mm 440-540mm 500-600mm	100mm	70-90mm	54g
FS4.5	4.5X		100mm	50-80mm	58g
FS5.5	5.5X		90mm	50-75mm	64g
FS6.5	6.5X		80mm	45-70mm	61g
FS7.5	7.5X				

## Adapting to Your Magnifier

Adapting to the magnifier usually takes several weeks or even months to become accustomed to its magnified view and ergonomic posture. In the beginning, you may feel discomfort, but consistent practice will significantly enhance your work efficiency and comfort.

### Gradual Adaptation to the Magnifier

- Try wearing the magnifier at home while performing small daily tasks, such as:
- Reading a page of a book to train your eyes to adapt to the magnified view.
- Texting or using your phone to adjust your neck and back posture.
- Painting your nails or performing fine motor tasks to develop hand-eye coordination.

### Adjust Ergonomic Posture

- Ensure that your neck and back are in an ergonomic position, avoiding excessive leaning forward or backward. Gradually adapt to the correct viewing angle and head position to reduce muscle fatigue and improve comfort.

### Seek Professional Support

- If you encounter any issues while adapting to the magnifier, please contact your product expert immediately.
- We take pride in our customer service, and our team of experts, office staff, and partners are always ready to provide support and assistance.
- With consistent practice and gradual adjustments, you will enjoy the precise view and more comfortable working experience that a fully customised magnifier offers!



# Why Xpedit Loupes?

Protect Your Career from Cumulative Trauma. Don't let hours of bending and static postures cut your journey short. Our solution helps prevent the micro-traumas in muscles, joints, and ligaments, safeguarding you from chronic pain and extending your career.

Xpedit Ergo loupes are the first custom-designed, truly ergonomic loupes that work with the body's biomechanical design rather than against it. In other words, Ergo loupes help you do your best work while maintaining the posture your body was designed for.







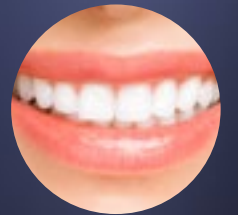
## FireFly

Cordless Headlight



# 55,000 LUX

The Firefly provides stronger light intensity to enable work with higher magnifications.



CRI>90%

## Lightweight

Optimised weight distribution, ergonomically designed to rest lightly on loupes







## Cordless

Freedom of movement increases comfort and efficiency.

## Compatible

Can be mounted on most loupe models.

## User-Friendly Controls

Simple operation with tap controls for ON/OFF and light intensity.



## 600mAh

High-capacity lithium battery for extended battery life.



### Touching Area

- Touch once for the brightest setting.
- Touch twice for medium brightness.
- Touch three times for the lowest brightness.
- Touch four times to turn off the power.

## Swift Battery Replacement

Enabled by a magnetic mount.



## Angle Adjustment

The headlamp can be adjusted up and down.







## Parameters

Intensity	55K LUX / 35K LUX		
Weight	27 g		
Run Time	2 hrs		
Charge Time	1.25hrs		
Batteries	3 pcs		
Colour Temperature	5,750K		
Yellow filter	External		
Colour	35K LUX	<div> <div></div> Silver </div>	
	55K LUX	<div> <div></div> Blue <div></div> Gold <div></div> Dark grey </div>	



# FlexiLight

## Wired Headlamp

### Bright & Natural LED Lighting

5000K colour temperature for daylight-like illumination

### Adjustable Lamp Head

Customizable angle for precise lighting

### Lightweight & Portable

Compact design with neck-hanging power system

### 5-Level Brightness Control

Easy adjustment for different lighting needs

### Long Battery Life

Up to 6 hours of continuous use

### Quick Charging

Fully charges in approximately 4 hours

### Durable & Reliable

Supports 500+ charge cycles

### Basic parameters

Input Power: 90V - 250V AC, 50Hz - 60Hz
Colour Temperature: 5000K ± 500K (daylight colour)
Battery Life: Approximately 6 hours
Charging Time: Approximately 4 hours



# CARBON X LOUPES

*Designed for Neck and Shoulder Relief*



## Ergonomic Design

Removes the need to bend over



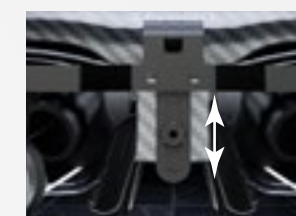
## No Customisation Needed

Freely Adjustable



## Adjustable Pupil Height

Ensures a Shadow-Free View



## Easy Flip-Up for Unobstructed View

Improved Doctor-Patient Communication



## Easy Attachment of Prescription Lenses

Quick and Reliable  
Clip-On lens housing  
included to enable  
addition of prescription  
lense



## Headlight Mount Available

Optional Wired or Wireless Headlight

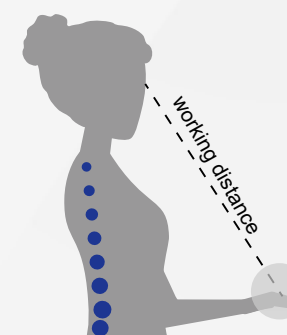


## Soft Silicone Nose Pads for Comfort



## The lenses use SCHOTT glass with anti-fog and anti-mould coating technology

### Recommended Working Distances for Magnifying Glasses at Different Heights



Height(cm)	Recommended Working Distance(mm)
150-155	350
155-165	400
165-175	450
175-185	500
>185	550

Recommended working distances may vary and are for reference only.

Model	Magnification	Working Distance	Pupillary Distance Adjustment	Depth Of Field	Field Of View	Weight
X3.5	3.5X	280-380mm	50-80mm	100mm	70-90mm	75g
X4.5	4.5X	360-460mm		100mm	50-80mm	80g
X5.5	5.5X	440-540mm		90mm	50-75mm	88g
X6.5	6.5X	500-600mm		80mm	45-70mm	87g





# CarbonFore

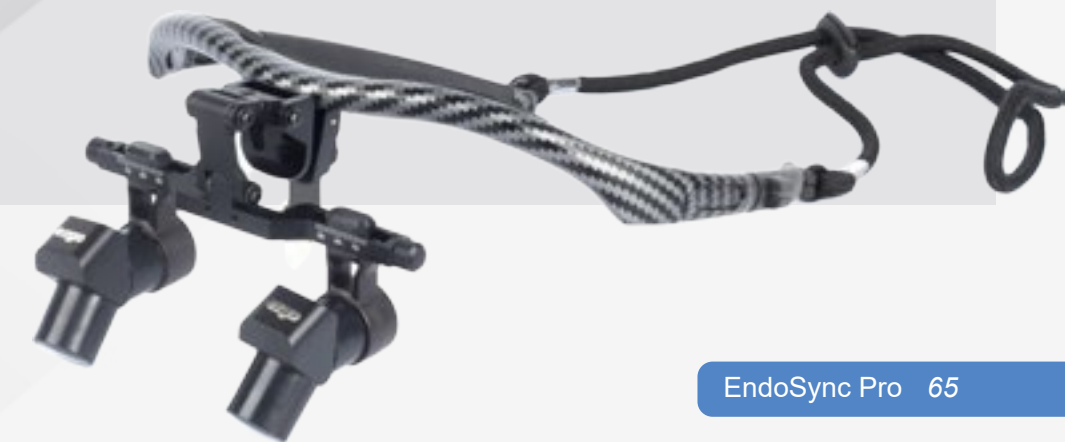
No More Stress on the Nose Bridge  
Compatible with Your Glasses

*Unique Forehead Frame Design  
for Stress-Free Comfort*



## Unique Forehead Frame Design for Stress-Free Comfort

The Xpedent CarbonFore Loupes are revolutionising comfort and functionality for dental professionals. Designed with a unique forehead frame, these loupes transfer the weight away from your nose, eliminating pressure and providing unparalleled comfort during long procedures—all while allowing you to wear your own glasses.







**CarbonFore  
Keplerian Ergo Loupes**

Improve Your Posture

Enhance Your Well-Being

Model	Magnification	Working Distance	Pupillary Distance Adjustment	Depth Of Field	Field Of View	Weight
FE3.5	3.5X	280-380mm	50-80mm	100mm	70-90mm	79g
FE4.5	4.5X	360-460mm		100mm	50-80mm	81g
FE5.5	5.5X	440-540mm		90mm	50-75mm	87g
FE6.5	6.5X	500-600mm		80mm	45-70mm	85g

# Why Choose CarbonFore Loupes?

## No Stress for the Nose

Crafted with an ultra-light alloy structure, the CarbonFore Loupes minimise weight and eliminate nose pressure, ensuring unparalleled comfort during even the longest procedures. Experience the freedom of a loupe that feels almost weightless yet delivers top-tier performance.

## Unique Forehead Frame Design

Unlike traditional loupes, the CarbonFore Loupes feature a specially engineered forehead frame that redistributes the weight evenly across your forehead. This innovation minimises strain on your nose, ensuring a stress-free and comfortable experience even during extended use.







## Why Choose CarbonFore Loupes?

### Works with Your Glasses

Designed for ultimate compatibility, the CarbonFore Loupes clip securely onto your own prescription glasses, allowing you to enjoy both optical precision and the familiarity of your own lenses.

### Ergonomic and Flexible

The Flip-Up Function provides easy transitions between magnified and natural vision, ensuring unobstructed patient interaction and a seamless workflow.

## Why Choose CarbonFore Loupes?

### Magnification Options

Available in four sizes—3.5x, 4.5x, 5.5x, and 6.5x—the CarbonFore Loupes offer the perfect magnification level for every dental procedure.

### Advanced Optics

Featuring Schott Glass and Achromatic Optical Path Design, these loupes deliver crisp, high-contrast images with exceptional depth of field and true color fidelity, enabling precise visualisation.

### Ultra-Lightweight Construction

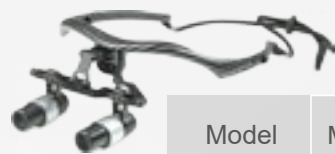
Crafted from ultra-light alloy, the CarbonFore Loupes combine a sleek metallic look with outstanding durability and minimal weight for maximum comfort.





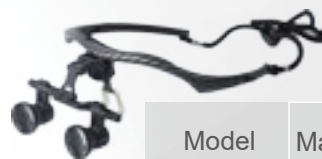
### Experience Stress-Free Dentistry

The Xpedent CarbonFore Loupes redefine comfort and performance with their innovative forehead frame design and ergonomic features. Say goodbye to nose strain and hello to a stress-free, efficient, and precise dental experience.



#### CarbonFore Keplerian Loupes

Model	Magnification	Working Distance	Depth Of Field	Field Of View	Weight
F4.0	4.0X	280-380mm	200mm	150-170mm	84g
F5.0	5.0X	360-460mm		130-150mm	86g
F6.0	6.0X	500-600mm		110-130mm	94g



#### CarbonFore Galilean Loupes

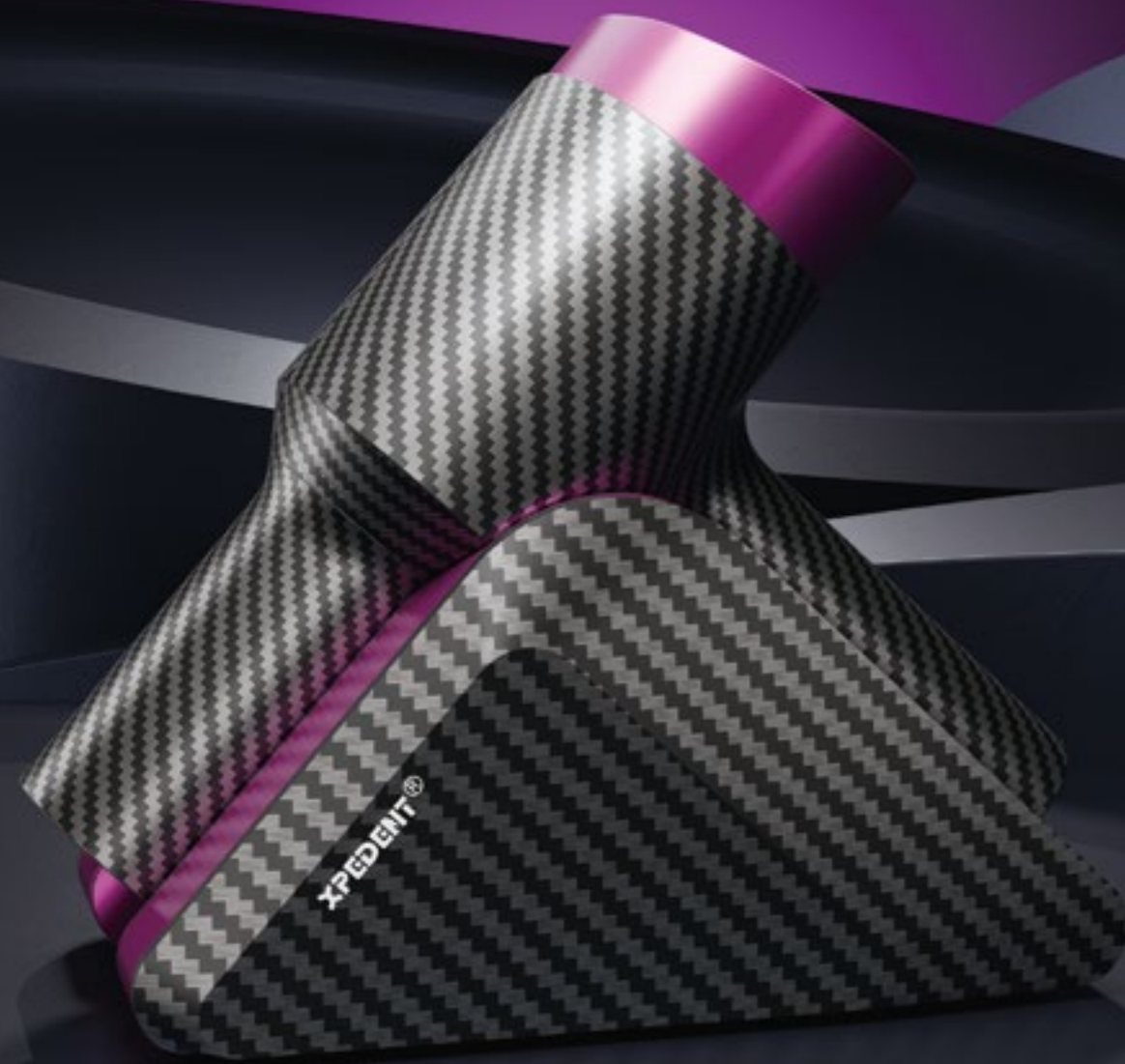
Model	Magnification	Working Distance	Pupillary Distance Adjustment	Depth Of Field	Field Of View	Weight
F2.5	2.5X	300-580mm	50-80mm	200mm	150-170mm	71g
F3.0	3.0X			200mm	130-150mm	77g
F3.5	3.5X			200mm	110-130mm	81g



### Reduces Eye Fatigue from Long Surgeries

Independent Adjustment of Left and Right Interpupillary Distance  
Easy Image Alignment





# Evoray<sup>®</sup>

Portable X-ray

Complying with the CE safety standard  
Making the shooting safer



The distance from the focus to the end face of the beam limiter is 20 cm, and the radiation leakage from the body surface is < 0.05 mGy/h, complying with the CE safety standard, making the shooting safer



The radiation leakage from the body surface is < 0.05 mGy/h (CE safety standard)

Oil tank and beam limiter use 99.9% pure lead shielding to maximize the protection against radiation leakage



## Efficient Handling of Different Radiological Situations

**70** kV

**2** mA

**140** W

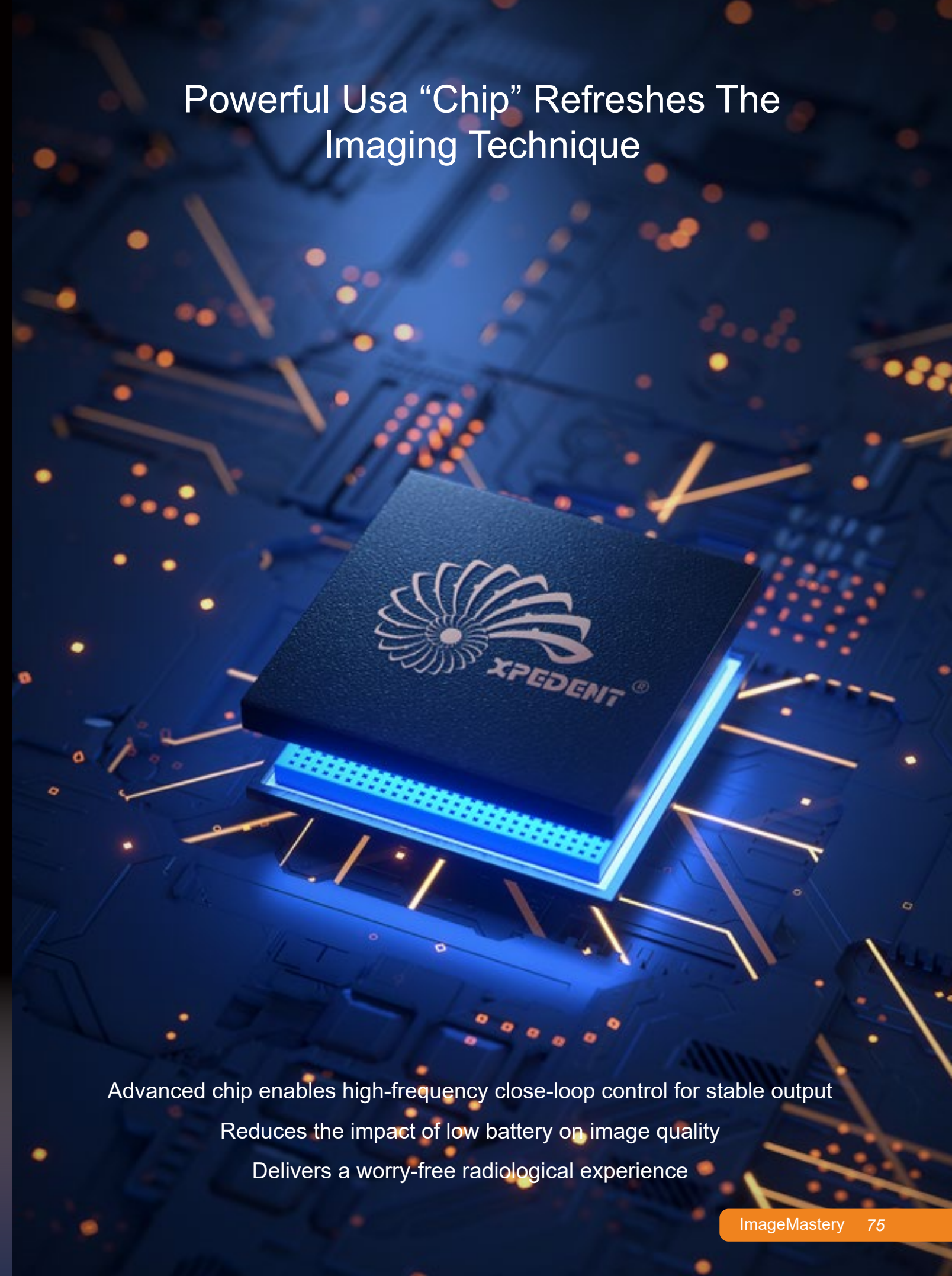


70 kV tube voltage for excellent X-ray penetration

2 mA tube current for millisecond-level exposure to avoid shadow (blurred Image capture by unsteady radiological)

140W output power to meet diverse clinical needs

## Powerful Usa “Chip” Refreshes The Imaging Technique



Advanced chip enables high-frequency close-loop control for stable output

Reduces the impact of low battery on image quality

Delivers a worry-free radiological experience



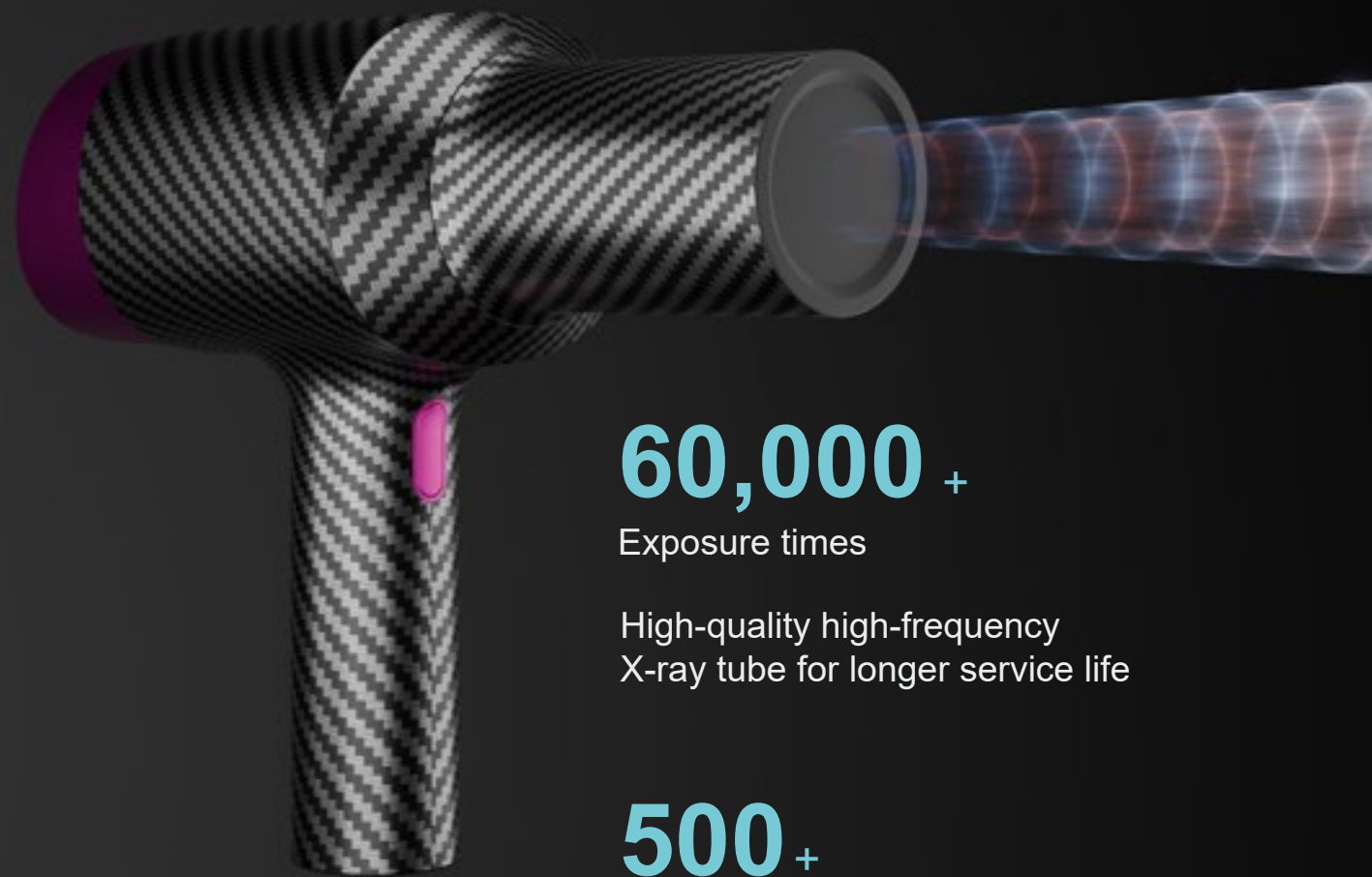
# Get Accurate X-Ray Images Every Time with Sensitive Sensor

USA angle sensor for real-time display of holding angle  
Radiological angle can be calibrated as per patient posture  
Optimal radiological angle ensures optimum imaging quality



# Durable and Dependable

Long-lasting Battery for Uninterrupted Performance



**60,000 +**

Exposure times

High-quality high-frequency X-ray tube for longer service life

**500 +**

Shots on a full charge

**2 h**

Fast full charge

**2500 mAh**

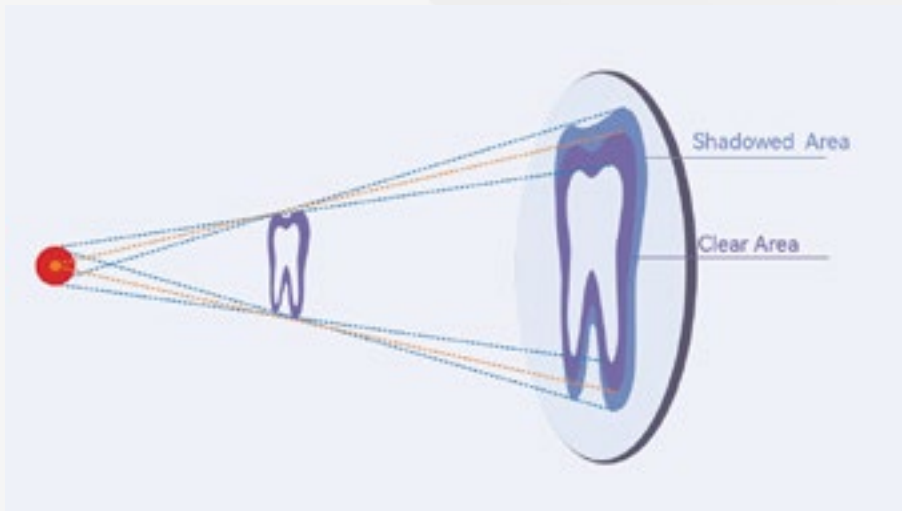
2500 mAh x 3S high-capacity lithium battery

# Attention to the Tiniest Details

0.4 mm focus for more focused X-ray release  
Helps to present clearer high-resolution images



Illustration of the difference between large and small focus imaging:



# Clear Large Screen Easy to Use

2.8"HD digital screen  
Intuitive User interface  
Ultra-sensitive buttons  
Compact and light weight design for easy one-hand shooting!





# 5+2+2

## Wide range of radiological applications



2 target groups:  
Child/Adult



2 device options:  
Sensor/ Film

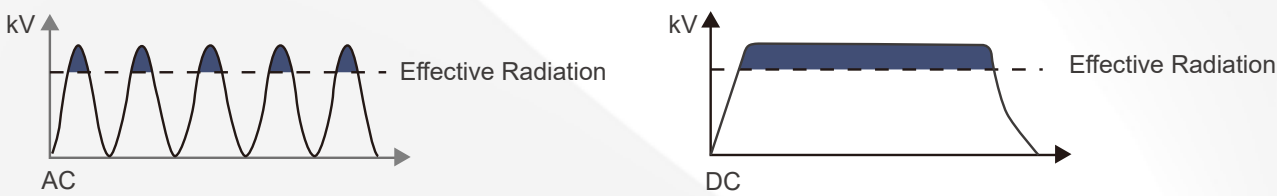


5 tooth position options:  
Incisor  
canine  
premolar  
molar  
bite-wing



## Embracing a new high-energy era

In comparison to traditional power frequency AC machines, the Evoray is a high-frequency DC machine with superior performance, producing more stable X-rays



## Parameters

Tube voltage: 70kV
Tube current: 2mA
DC high frequency
Battery capacity: 2500mAh*3S
Size: 338×112×247mm
Weight: 2.2Kg
Colour





ERGODENTIX



Professional

Ergo Chair



Microscope Master Chair

The Microscope Master Chair is designed according to the principles of bionics, featuring a saddle-shaped seat. When seated, its unique structure encourages the back to maintain a natural upright position, promoting lumbar health. The design also provides ample space for the thighs to move freely, creating a sensation reminiscent of riding a galloping horse.



Ergo Chair-02



Ergo Chair-03



Ergo Chair-04

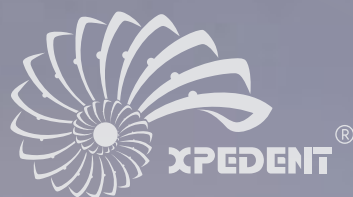


Ergo Chair-05

Parameter

Part name	Microscope Master chair	Ergo Chair -02	Ergo Chair -03	Ergo Chair -04	Ergo Chair -05
Gas lift specifications	160 mm	160 mm	160 mm	160 mm	160 mm
Minimum distance from the ground for the seat cushion	660 mm	660 mm	600 mm	610 mm	630 mm
The highest distance from the ground for the seat cushion	790 mm	790 mm	710 mm	800 mm	810 mm
Aluminum base diameter	Φ600 mm	Φ600 mm	Φ480 mm	Φ600 mm	Φ600 mm
Wheel diameter	Φ65mm	Φ65mm	Φ40mm	Φ65mm	Φ65mm
Chair gross weight	18.2 kg	16.45 kg	13.55 kg	11.20 kg	12.24 kg
Package size	630 x 590 x 480mm				





# MotoSync MiNi<sup>®</sup>

2 in 1 Brushless Endo Motor

World's smallest cordless endo motor with an integrated apex locator

MiNi



# Compact Size Mighty Performance

108<sub>g</sub>

Precision in the palm of your hand: elevate your endodontic experience today

This compact and lightweight design offers users portability and convenience, facilitating easier carrying and usage



## Flexible Placement

Can be placed horizontally or vertically, allowing users to place it as they please. Enhances the product's practicality, enabling users to use it more freely and comfortably



## Efficient Root Canal Preparation

Powerful brushless motor

Ultra-mini 6:1 contra-angle handpiece

Motor life is ten times that of a brushed DC motor

Smooth rotation ultra-quiet







## 2 in 1 Endo Motor

With built-in apex locator

Accurate preparation: measuring and expanding simultaneously.

More efficient root canal preparation

# MotoSync MiNi<sup>®</sup>



## High-performance Brushless Motor

Brushless motor life is ten times that of a brushed motor.

Low wear, low heat, longer lifespan.

Strong power and quick response,  
enhancing root canal treatment efficiency.

## Intelligent System

Automatic start and stop  
Automatic reverse or stop  
Automatic deceleration  
ensures safe and efficient root canal treatment

**Brushless  
Endo Motor**

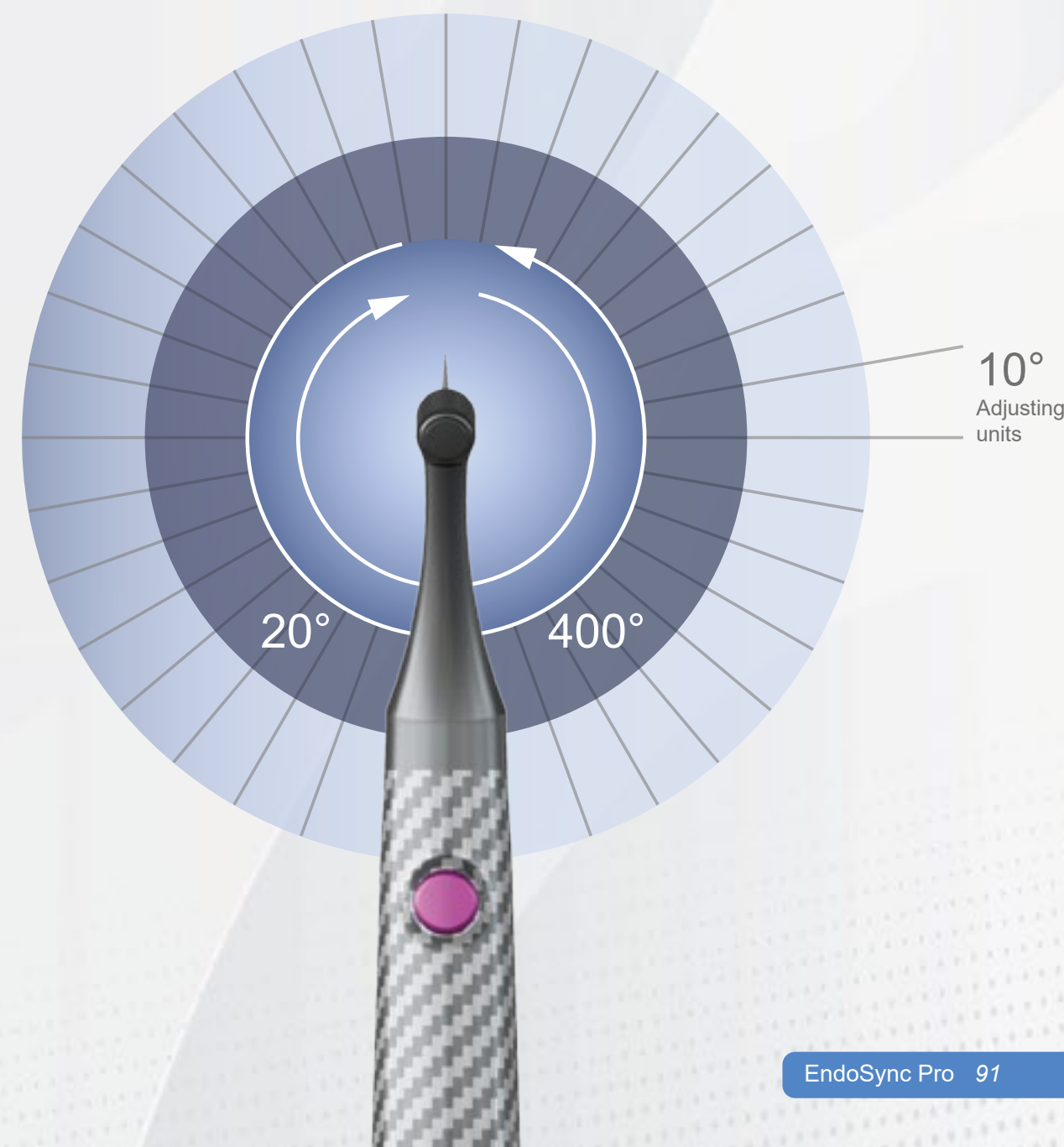
MotoSync MiNi<sup>®</sup>

## Precise Adjustment

Adjustment range of forward and reverse rotation angles: 20° to 400°

Precise rotation angles reduce the risk of instrument separation, increasing preparation efficiency

Adjustable reciprocating rotation angle: 10°







**Brushless  
Endo Motor**

## 6:1 Ultra-mini Contra-angle Handpiece

Smaller size, clearer treatment visibility.

12.5% reduction in head diameter size.

18% reduction in head height size.

More flexible operation.

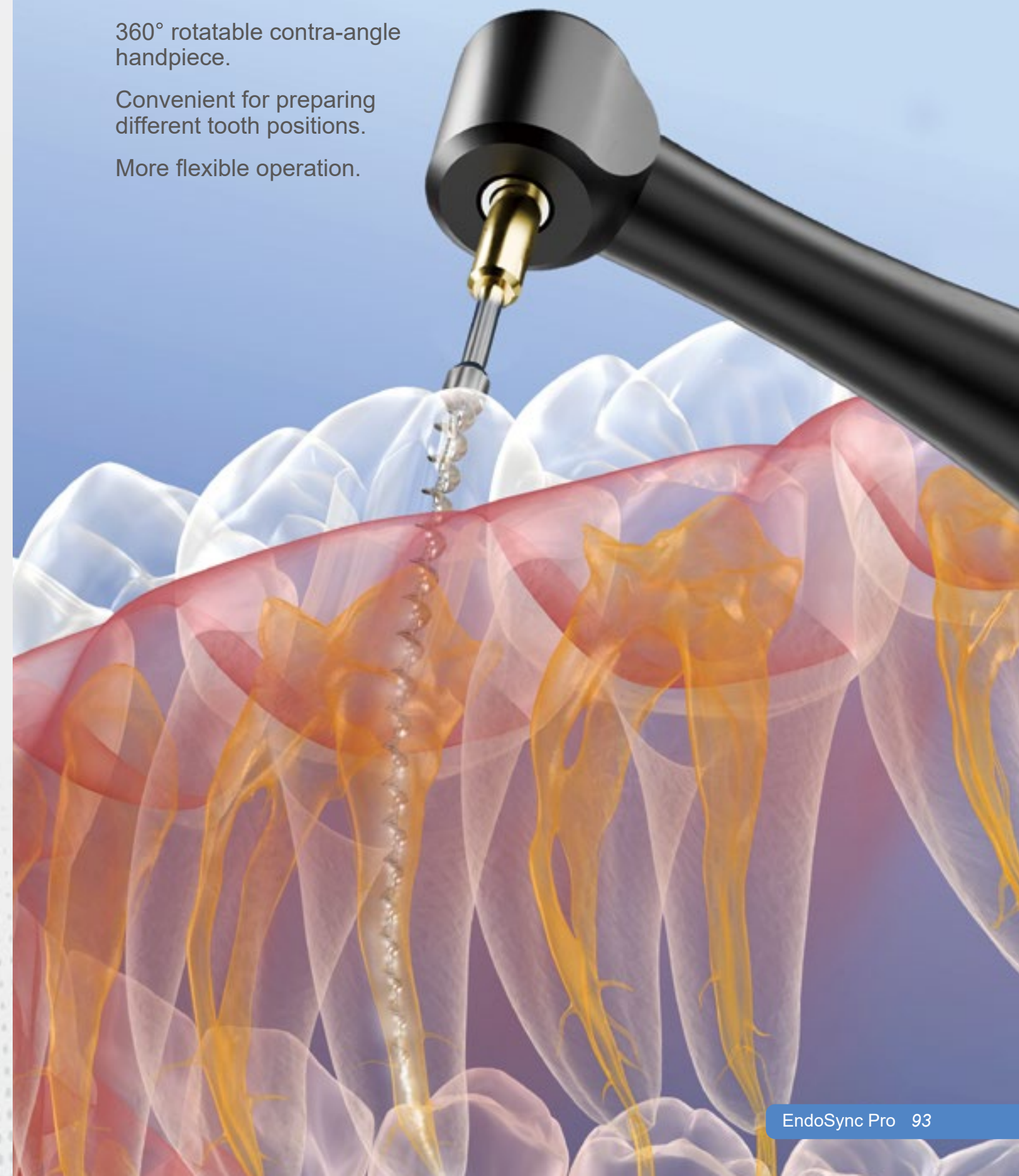
Stable output.

## Optimised Design

360° rotatable contra-angle  
handpiece.

Convenient for preparing  
different tooth positions.

More flexible operation.



# The Innovative Design

## Torque Adaptation Technology (TAT)

Combines the best aspects of both rotating and cyclical-reciprocating technologies



Reciprocation motion when set torque is exceeded.

TAT is a mode that combines rotational and reciprocating motions designed to enhance root canal preparation by improving efficiency and reducing the risk of instrument separation. This mode switches between continuous rotation and back-and-forth movement, adapting to the canal's anatomy and the file's resistance. This dual-motion approach optimizes cutting efficiency and minimizes procedural complications.

# Unveiling Precision Path Technology (PPT)

## PPT's Role in Minimising File Breakage

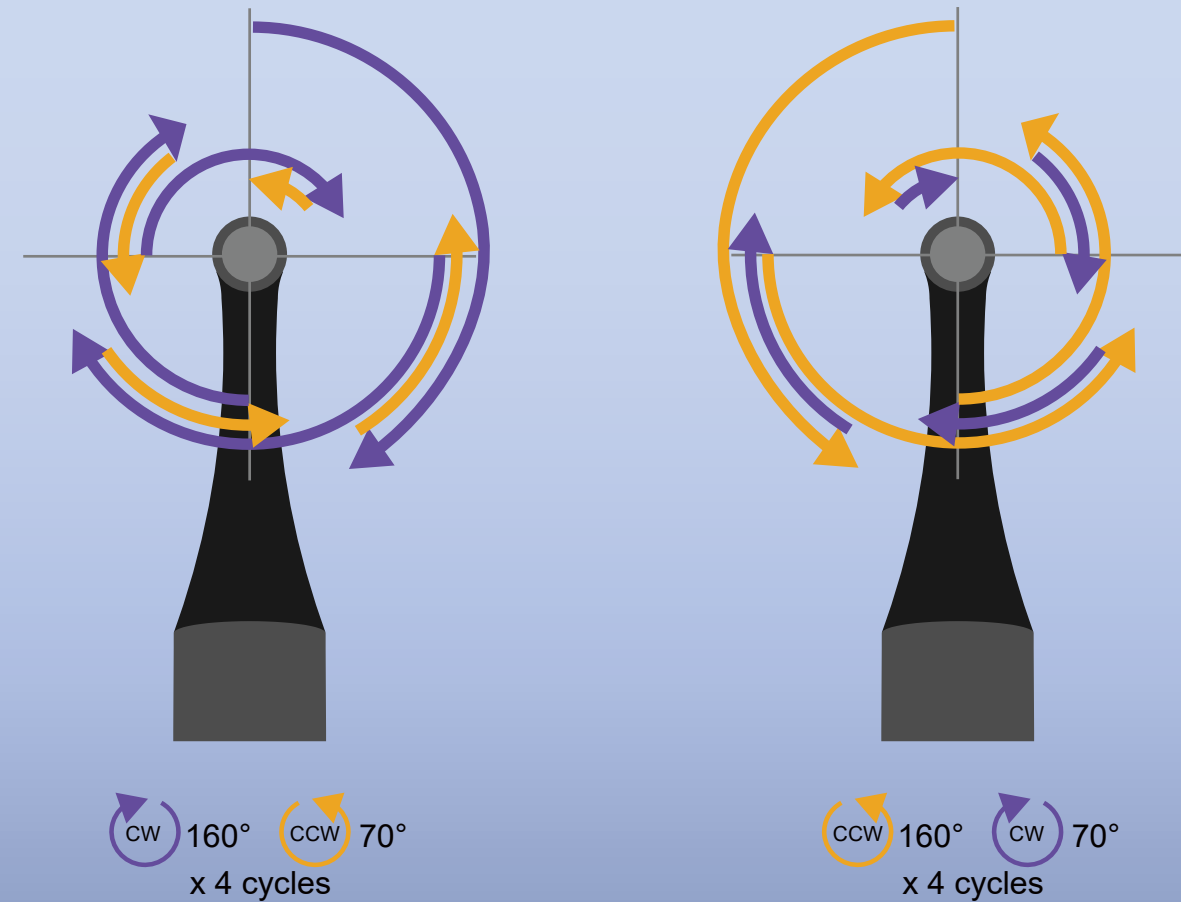
PPT significantly lowers the risk of file fractures with its innovative reciprocating action. Achieving patency with a #10 scout file becomes feasible. The challenging task of patency through manual filing is now accomplishable with an endo motor!

## Preserving Root Canal Anatomy

PPT enables treatments that retain the natural shape of the root canal, even in situations involving curved or narrow canals.

## Rotational Dynamics

Its smart motion lessens the likelihood of file jamming and aids in preventing file breakage within the canal when jamming does occur.

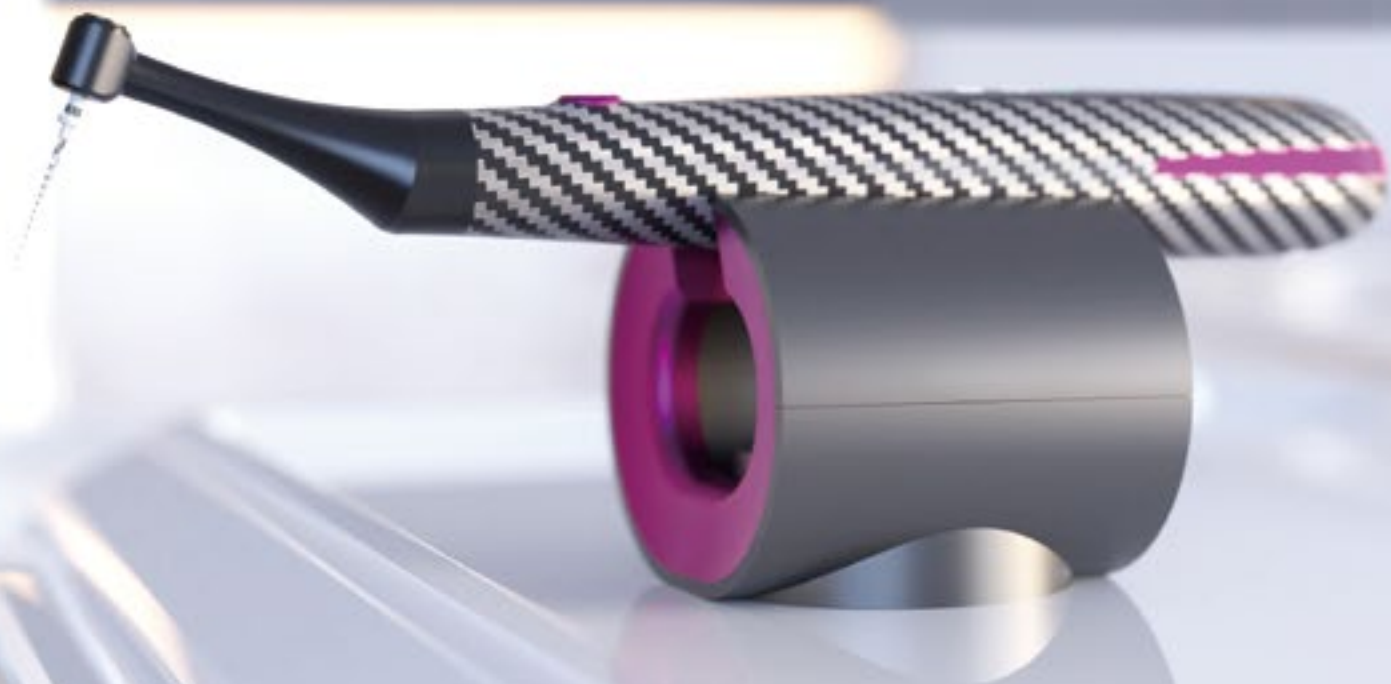
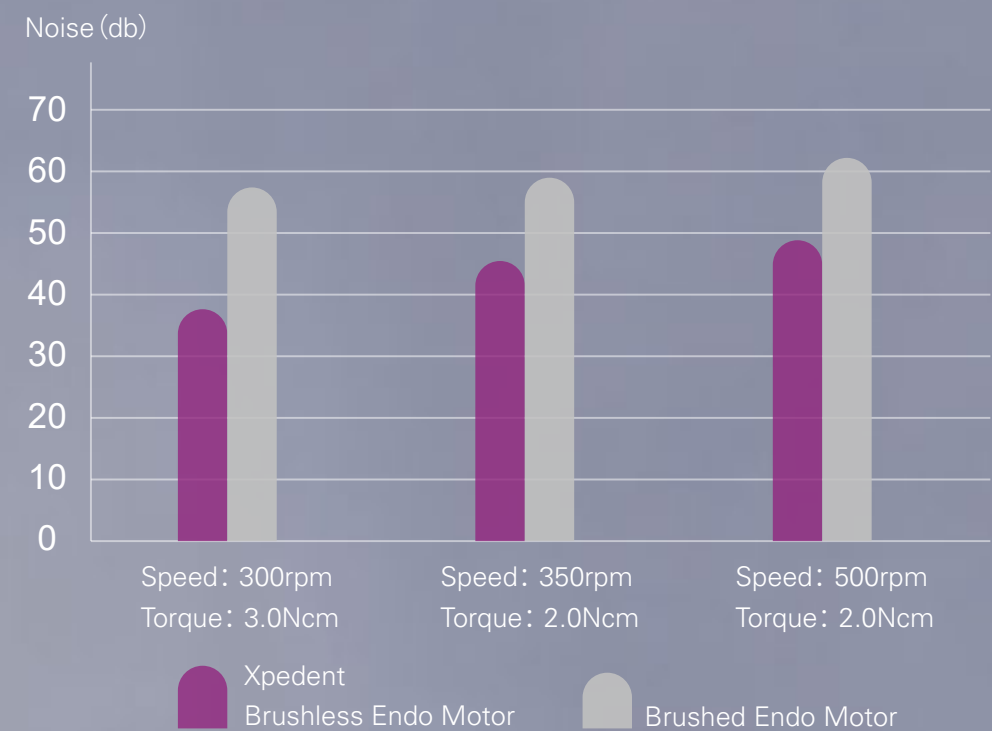




# Comfortable Experience

Smoother, lower noise, less vibration.

More comfortable for the patient during treatment



# Wireless Handpiece

Free from the constraints of trailing wires

## Parameter

Screen	TFT colour screen
Torque	0.4~5.0N.CM
Speed	50rpm~2500rpm
Battery capacity	1000mAh
Weight	108g





# MotoSync Pro<sup>®</sup>

## Two-in-One Brushless Endo Motor



**When Technology Meets Precision**  
The future of dental treatment will be revolutionised

### The innovative Torque Adaptation Technology (TAT)

It combines the best aspects of both rotating and cyclical-reciprocating technologies



Continuous rotation



Reciprocating by 90° when the set torque is exceeded

TAT is a mode that combines rotational and reciprocating motions designed to enhance root canal preparation by improving efficiency and reducing the risk of instrument separation. This mode switches between continuous rotation and back-and-forth movement, adapting to the canal's anatomy and the file's resistance. This dual-motion approach optimizes cutting efficiency and minimizes procedural complications.

### Next-Generation Reciprocation Precision Path Technology (PPT)

#### PPT's Role in Minimising File Breakage

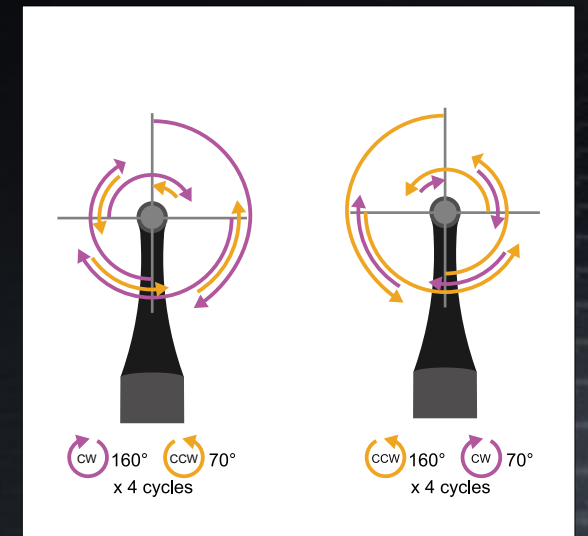
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#### Intelligent System

360° rotatable contra-angle handpiece  
Convenient for preparing different tooth positions  
More flexible operation

#### Optimised Design

Automatic start and stop  
Automatic reverse or stop  
Automatic deceleration  
Ensure safe and efficient of root canal treatment





## Comfortable Experience

Smoother Operation, Lower Noise, Less Vibration  
More comfortable for the patient during treatment

Screen	TFT colour screen
Torque	0.4~5.0N.CM
Speed	50rpm~2500rpm
Battery capacity	2000mAh
Weight	150g



## Precise Adjustment

Adjustment Range of Forward and Reverse Rotation  
Angles: 20° to 400°

Precise rotation angles reduce the risk of instrument separation, increasing preparation efficiency.

Adjustable Reciprocating Rotation Angle: 10°



## Advanced Manufacturing Technology

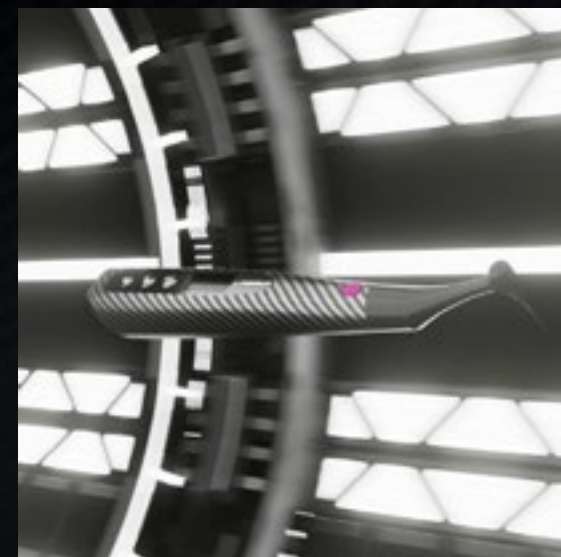
Using our precision Japanese five and seven-axis Swiss-style CNC technologies along with more than 20 years of experience in precision machining, we are committed to perfection in every detail ensuring that products achieve excellent quality



## Precision Manufacturing

The tolerance of machined parts is 0.005mm achieving the limits of precision machining.

Achieving this precision is the result of years of honing our skills along with continuous technological innovation.



## Technology Accumulation And Innovation

With over 10 years of experience in brushless motor control technology accumulation, our motor control systems are more stable, responsive, and superior in performance

Technological innovation and strict quality control ensure that each product is the best in the industry



## Efficient Root Canal Preparation

Powerful Brushless Motor

Ultra-mini 6:1 Contra-angle Handpiece

The motor life is ten times that of a brushed DC motor, with smooth rotation and ultra-quiet operation



## Two-in-One Endo Motor

With Built-in Apex Locator

Accurate preparation, measuring, and expanding simultaneously lead to more efficient root canal preparation



## High-performance Brushless Motor

Brushless motor life is ten times Brushed motor life

Low wear Low heat Longer lifespan

Strong power and quick response

Enhancing root canal treatment efficiency





**MotoSync®**

## Brushless Endo Motor

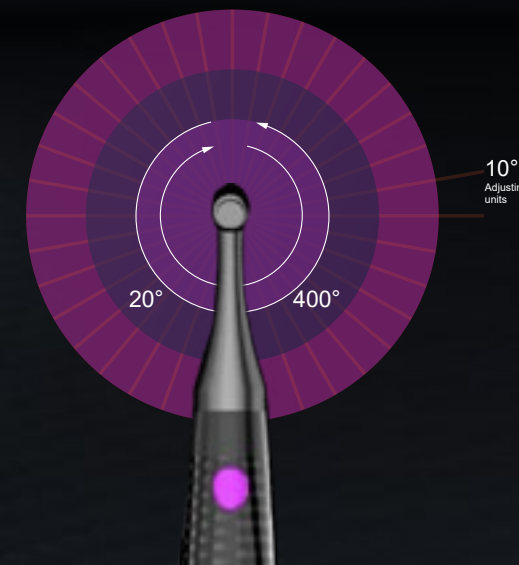
*When technology meets precision  
The future of dental treatment Will be revolutionised*



### Comfortable Experience

Smoother Lower Noise Less Vibration  
More comfortable for the patient during treatment

Screen	TFT colour screen
Torque	0.4~5.0N.CM
Speed	50rpm~2000rpm
Battery capacity	2000mAh
Weight	150g



### Precise Adjustment

Adjustment Range of Forward and Reverse Rotation  
Angles: 20° to 400°

Precise rotation angles reduce the risk of instrument separation, increasing preparation efficiency.

Adjustable Reciprocating Rotation Angle: 10°

### 6:1 Ultra-MiniContra-Angle Handpiece

Smaller Size

12.5% reduction in head diameter

18% reduction in head height

More Flexible Operation

Clearer Treatment Visibility

Stable Output



**6:1**



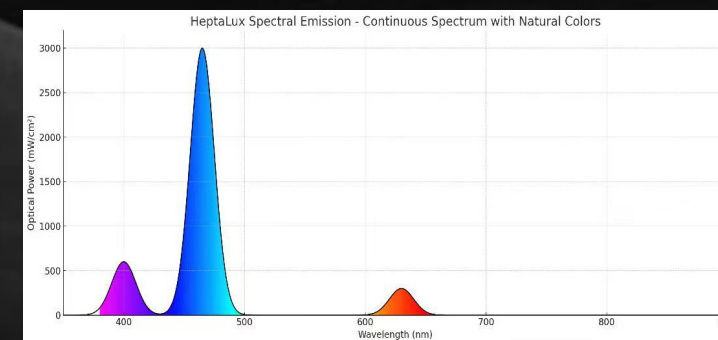


# HeptaLux

## Curing Light

## Pink Hyperspectral LED

- Reduce resin shrinkage, lower the risk of microleakage and secondary caries, and alleviate post-operative sensitivity for patients.
- Enhances the degree of polymerisation, making restorations harder and more wear-resistant.
- Features powerful penetration capabilities; curing depth of up to 8.6 mm.



# Compact yet powerful

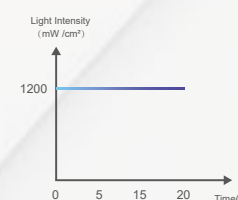
- Full metal body
- Ergonomic streamlined design
- Lightweight and sturdy, impact-resistant and durable



## 8 modes create clinical flexibility

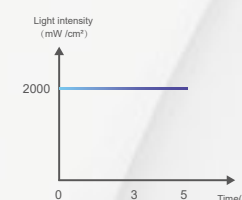
The HeptaLux has powerful and flexible capabilities, covering a variety of clinical needs.

Modes include Standard, High-Intensity, Super, Orthodontic, Gradual, Pulse, Detection, and Transillumination(Transill).



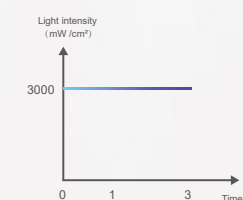
### Normal Mode

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



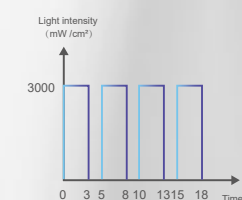
### High Mode

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



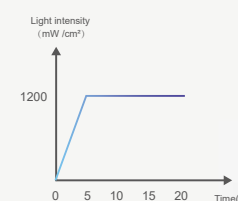
### Super Mode

Time settings: 1s, 3s  
2700-3000 mW/cm² ultra-high light intensity enables 1-second curing of 2 mm resin



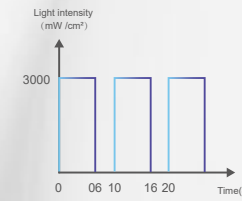
### Ortho Mode

Time settings: 3s × 5, 3s × 10  
2700-3000 mW/cm² high light intensity with strong penetrability, especially suitable for orthodontic bracket bonding



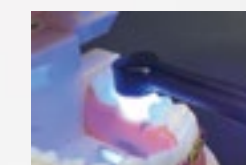
### Soft Mode

Light intensity is gradually increased from 0 to 1200 mW/cm². This reduces the shrinkage rate of the resin and lowers the risk of microleakage.  
Time setting: 5s, 10s, 15s, 20s



### Pulse Mode

The LED light operates in a cycle of 0.8 seconds of illumination followed by a 0.2-second pause, effectively reducing heat generation during treatment.  
Time settings: 5s, 10s, 15s, 20s



### Check Mode

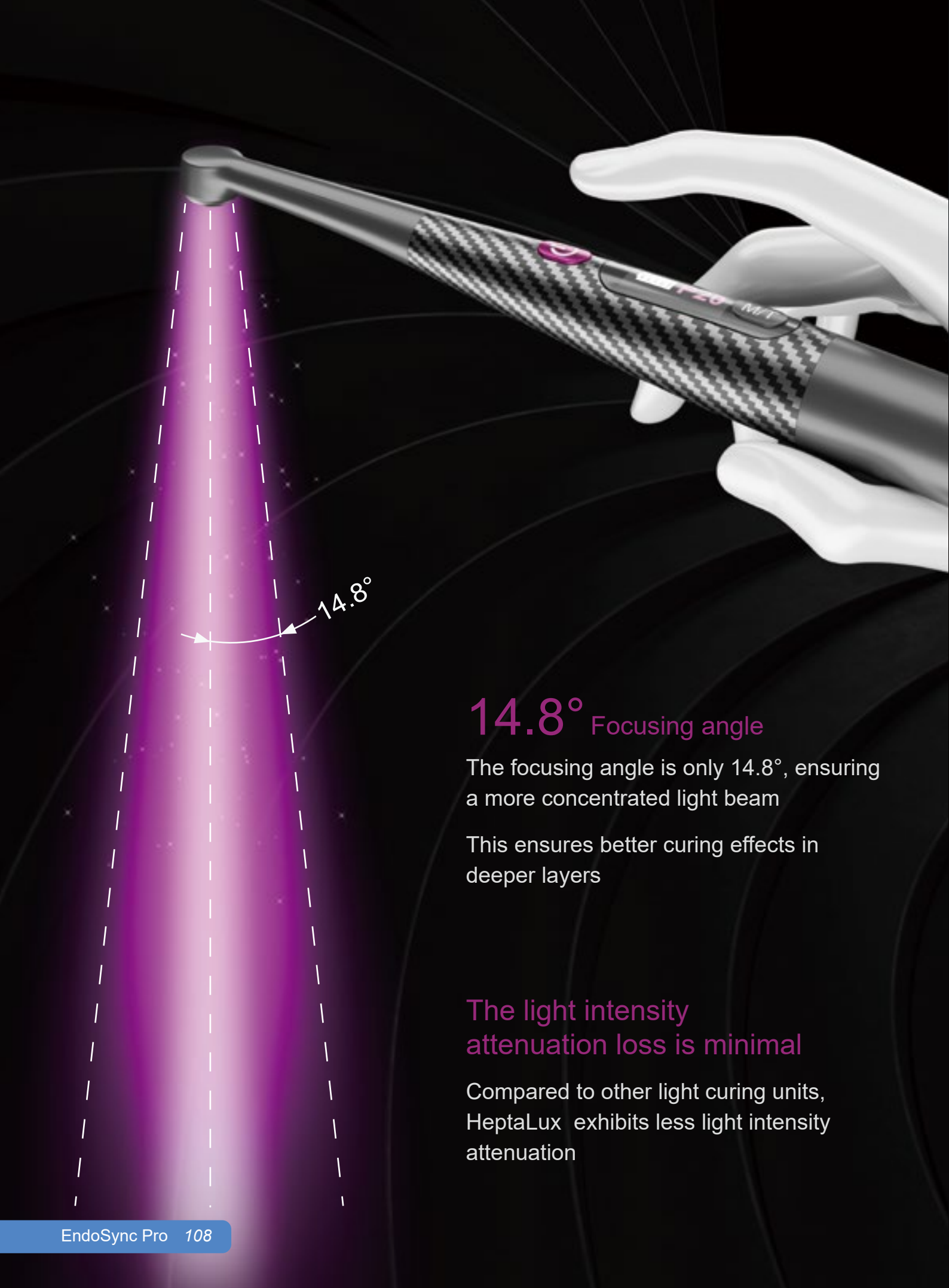
In this mode, a single purple light is emitted. When wearing special glasses, caries appear as distinct orange-red spots.  
Applications: Caries detection, calculus detection



### Transill Mode

In this mode, white light is emitted for transillumination to aid in the diagnosis of proximal caries and hidden cracks. Transillumination light helps to inspect more details of oral lesions. Compared to X-ray examinations, transillumination light minimises risks as much as possible, especially for pediatric patients





## 14.8° Focusing angle

The focusing angle is only 14.8°, ensuring a more concentrated light beam

This ensures better curing effects in deeper layers

## The light intensity attenuation loss is minimal

Compared to other light curing units, HeptaLux exhibits less light intensity attenuation



## The maximum light intensity reaches 3200mW/cm<sup>2</sup>

- With a 10W LED core, the light output energy is stronger, and the emission angle is reduced
- This achieves a maximum light intensity of 3200 mW/cm<sup>2</sup>, ensuring sufficient curing depth and shortening required time
- Resin curing efficiency is thereby enhanced

# Light intensity measurement

- The base allows for light intensity measurement at any time
- Ensuring accurate light intensity for efficient resin Polymerisation
- Providing a comfortable treatment experience for both you and the patient



# Simplified dual-button operation

Equipped with a TFT colour screen that clearly displays modes, time, and battery level, enhancing clinical efficacy





# Wireless charging

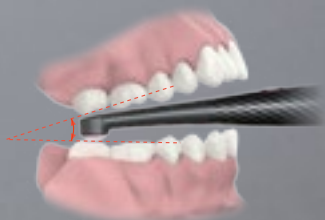
Grab and use, place and charge

2000mAh large capacity battery, meeting clinical needs



# 360 ° rotating head for flexible response to clinical needs

Lightweight and thin device head, easily reaching the posterior teeth, suitable for patients with small mouth openings, providing more comfortable treatment



HeptaLux:  
11° illumination angle



Ordinary light guide rod:  
> 40° illumination angle





# Apex Locator

Smart Accurate Reliable

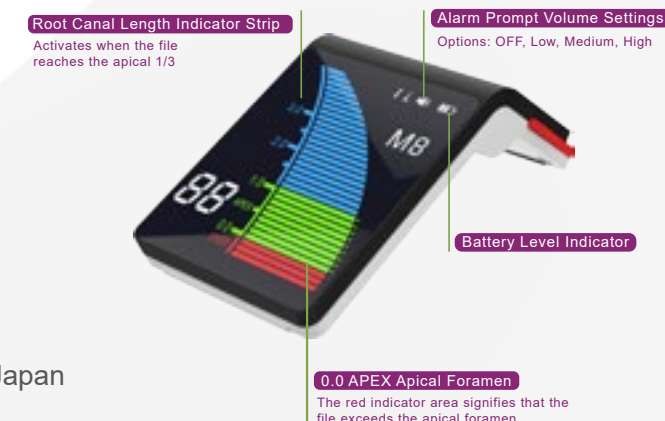
## Eliminate Interference

- Inherits multi-frequency apex positioning technology
- Integrates a DSP data processing system
- Combined with clinical big data fitting, ensuring accurate measurements even in the presence of residual pulp and blood in the root canal

## New Digital Circuit

### Enhanced Information Processing Speed

- Utilises high-precision components imported from Japan
- Provides high-resolution signals without distortion
- Features automatic calibration during 0.5 seconds of booting



## Clear View and Sound

### Accurate and Intuitive Measurement Trajectory

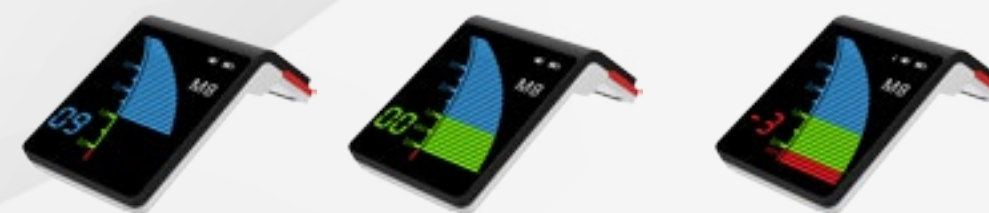
- Effectively prevents perforation
- Intermittent low-frequency beeps prompt when the file is less than 2mm from the apical foramen
- Sound gradually increases as the file approaches the apical foramen
- Continuous high-frequency beeps indicate the file has reached the preset apex position
- Sound level can be adjusted for easy distinction, making measurement simpler

## Apical Stop Setting

### Apical Stop Alarm Function

- Adjustable alarm position according to clinical needs
- Flexible settings provide timely reminders to measure distance
- Display repositioned to 0.5mm from the apical foramen

## File Position Display in the Root Canal



When the file reaches the apical 1/3, the root canal length indicator strip 2 activates with intermittent low-frequency "beep" sounds

Continuous high-frequency "beep" sounds indicate the tip of the file has reached the preset apex stop. "00" signifies the file has reached the apical foramen

If the file tip exceeds the apex position and enters the red area, it indicates the file has exceeded the apical foramen



# Scan Master<sup>®</sup>

## Intraoral Scanner



### Scan Speed

You can complete a full-arch scan in just 20 seconds, enjoying an incredibly responsive image feed throughout the process—superior to traditional wired scanners available on the market



**20** seconds  
Full-arch scan



**1** min  
Archs and bite



### AI-powered Enhancement

Offline machine learning algorithms accelerate your scanning process and create models with enhanced accuracy



### Patient Engagement

Utilise this powerful tool to engage with your patients. Track their records throughout your practice, present treatment options and prospects, and grow your business with new opportunities at exceptional cost-effectiveness

## Product Features

### Advanced Scanning Technology

- 20 Seconds Full-Arch Scanning
- AI-Powered Enhancement
- Pristine Accuracy
- True-to-Life Colour

The gyroscope inside the scanner allows you to view scanned images from different angles by simply rotating the scanner, eliminating the need to touch the screen

### Future-Proof Ecosystem

- Cloud Storage
- Online 3D Viewer

### User-Friendly Design

- Multifunction button
- Controls entire digital workflow
- Prevents cross contamination as no need to touch screen or use a mouse
- Safety is always our top priority

## PRODUCT INFORMATION

Technology	Staring Scanning with Coded Structure Light
Camera Number	x 3
Scan Field	18x16mm
Scan Depth	0~15 mm (Adjustable up to 20mm)
Accuracy	≤15μm
Precision	≤10μm
True Color	Full HD
Anti Fog System	Intelligent Heating
Full Arch Scanning Time	1 min
Handpiece Enclosure	Aviation Aluminum Alloy
Handpiece Dimension	216 x 40 x 36 mm
Handpiece Weight	228g
Tip Types	3 types (N/M/D)
Number of Tips included	x 5 (Autoclavable)
Tip Autoclave Cycle	20 times
Calibrator	Automatic
Scanning Control	Button
Data Interface	USB3.0
Cable Length (m)	2m
Power Supply Type	AC/DC Medical Power Adapter
Supply Voltage (V)	100-240V/50-60Hz
Supply Current (A)	0.7-1.5A
Storage Temperature (°C)	-10°C- 55°C

## SOFTWARE

Types of Scanning	Orthodontics, Implant, Restoration
Image Store	Yes
3D Data Preview	Yes
Output Files	STL, PLY, PTY (encrypted for user)
Cloud Service	Yes
Cloud Service Price	5GB/free
Direct Compatibility with Dental CAD	Exocad*
Main Image Processing Tools	Trim/Edit/Recover/Lock, etc.
Margin Line Drawing	Yes
Occlusal Match	Yes
Undercut	Yes
Data Comparison	Yes
AI Technology	Auto Tissue Remove, Overlap Correct, etc.
Software License	Free
Software Upgrade	Free
Data directly to other platforms with API	Available

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## PC REQUIREMENTS

CPU	Intel i7-8700(3.2GHz) and above
RAM	DDR2400 16G and above
Hard disk	Solid state drive 120G and above
Graphics card	NVIDIA GTX1060 (6G) and above
Computer operating System	Windows10*64 bit
Display	Resolution 1920×1080 and above



# Digital Intraoral X-ray Sensor



The Xpedent Intraoral Sensor family, built on advanced APS CMOS technology and incorporating leading innovations such as smart Automatic Exposure Detection (AED), direct-deposited CSI scintillator, and an ergonomic design, provides optimal digital imaging for your daily practice

## Key Features

- APS CMOS Technology
- Smart AED: Compatible with a variety of X-ray sources
- Direct Deposition CSI: Lower dose imaging
- USB 2.0 Direct Connection
- Slim Design: Rounded corners and thumb position
- IP68 Rating: High reliability







## Cost-Effective and Environmentally Friendly

### No consumables

More economical and environmentally friendly

### 100,000+

100,000+ Exposures:  
Maintain imaging quality  
without loss

### Free

Free Licensed Software:  
Use forever without cost

### 95%

95% Compatibility:  
With X-ray units

## 100,000+

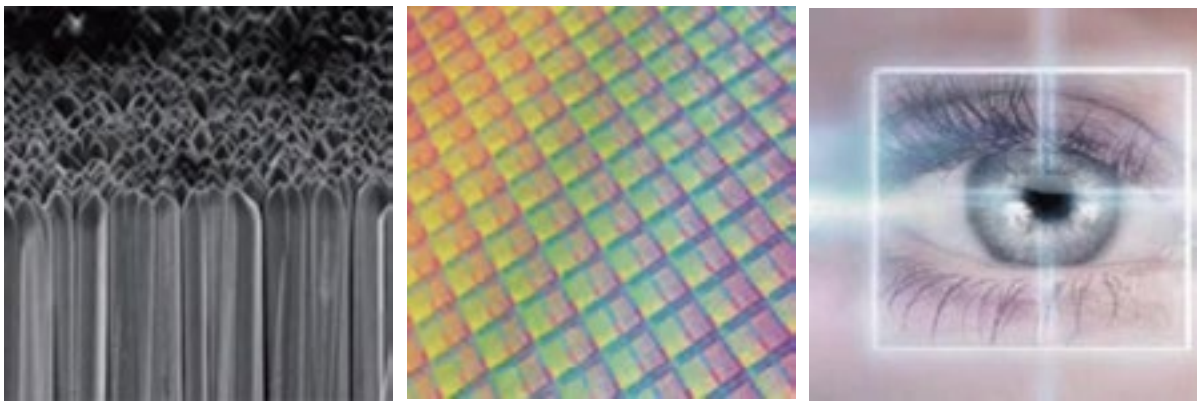
- 100,000+ Exposures: Ensures performance under various working conditions
- Durable Design: Shock-resistant and waterproof casing securely protects the sensor



Silica-based chips

Silica-Based Chips: Utilising silica-based chips instead of traditional cesium iodide to prevent image blurring and performance deterioration

Dynamic Range of 16 Bits: Produces high-quality images for accurate diagnosis



5µm Needle-Like CSI:  
Direct deposition process

Low Noise APS  
CMOS Image Sensor

Smart AED:  
Automatic exposure detection

Products	CLARO 1	CLARO 1.5	CLARO 2
Mechanical Dimensions (mm³)	25.03 × 38.53 × 4.5	29.2 × 43.5 × 4.5	31.62 × 45.0 × 4.5
Active Area (mm²)	20 × 30	24 × 33	26 × 36
Pixel Matrix	(1.5 M) 1000 × 1500	(1.89M) 1200×1650	(2.34 M) 1300 × 1800
Sensor Technology	APS CMOS		
Scintillator	Directly deposited CsI:TI		
Length of Cable (m)	Standard 3m		
Pixel Pitch (µm)	20		
Spatial Resolution (lp/mm)	Theoretical: 25 lp/mm		
Gray Level	16 bit, 65535 grade		
Exposure Mode	Smart AED		
Ingress Protection	IP68 for soak disinfection		
Additional	Supports TWAIN protocol		
Operation System	Windows 7 and above, 32 / 64 bit		





**2 IN 1**

*Alumina  
Sandblasting with  
Water*

## Chair-Side Micro Etching Master Pro<sup>®</sup> CB-M

*Application: Used for restorative aesthetics or bonding orthodontic brackets*

## Introduction



handle only

**40g**

### **Clog-Free Operation**

*The unique nozzle design prevents blockages, significantly enhancing work efficiency. It effectively inhibits the diffusion of sand powder and prevents water vapour from being reabsorbed*



### **Alloy Tungsten Carbide Nozzles**

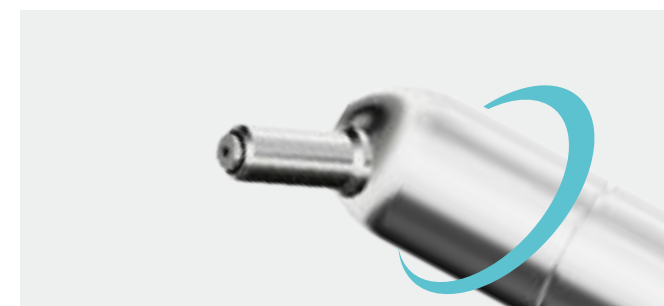
*Designed for longer life and resistance to wear*



### **One-Click Cleaning**

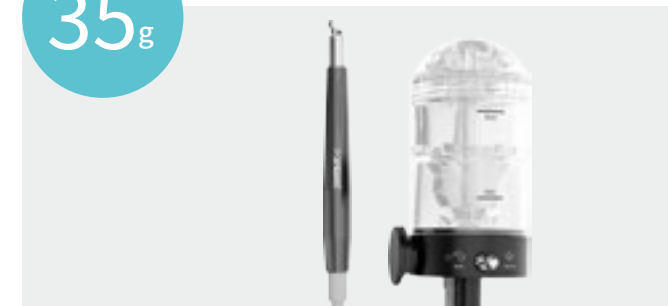
*The one-click cleaning feature simplifies the cleaning process, saving maintenance time and costs*

**35g**



### **Precision Sandblasting**

*The nozzle can be rotated 360°, allowing for easy spraying from any angle. It is detachable for easy cleaning and maintenance*



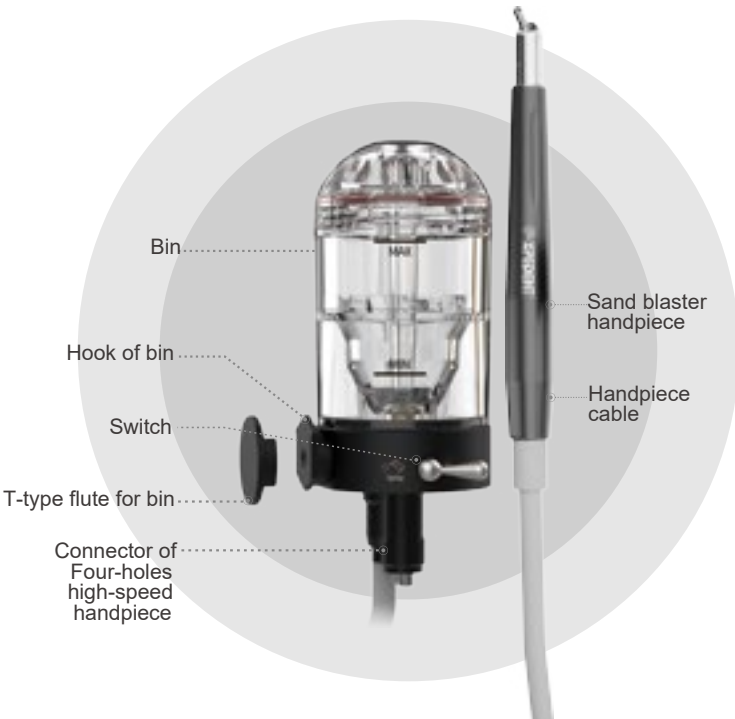
### **Large Sand Bin**

*Capable of holding 35 grams of sand at once, ensuring a uniform sand production rate to meet clinical requirements*

Dental Air Polisher

**Efficient Cleaning:** The easy one-click cleaning feature saves time and reduces maintenance. The patented sand-bin maintains a sand production rate that meets clinical requirements.

**Simple Installation:** No separate external pipe is needed; it connects directly to the dental chair's four-hole high-speed interface. This saves space and is convenient for disassembly—no separate equipment cart is required.



Comparison with Best-Selling Products on the Market

	XPEDENT	other Product
Picture		
lightweight	40g	175g
Ergonomic Design	★★★★★	★★★★
Small Caliber Nozzle	0.6mm	0.7mm
Backflow and Blockage	★★★★★	★★★★
Handpiece Head Diameter	1.8cm	2.0cm

Connection Method

Utilises a standard 4-hole connector, with optional 2-hole and Kavo quick couplers available in two specifications. This allows for direct connection to the dental chair, providing a convenient and efficient operating experience



Compatibility



- Suitable for different dental chairs with easy installation and no additional space required for disassembly
- Easy installation
- No space required for easy disassembly
- No separate equipment cart required



2 in 1



**AluSparkle®** Aluminium Oxide Abrasive Powder

No water absorption, no blocking, highly efficient  
Perfect for working on the surface of crowns, inserts and orthodontic fasteners  
27-micron sand for Immediate Dentin Sealing to improve bond strength for indirect restorations, crowns, inlays and onlays  
50-micron sand for ceramic and porcelain restoration, such as porcelain veneers or inlays  
90-micron sand for metal and zirconia restorations such as orthodontic brackets, implant bases, zirconia restorations



**AIR FLY®**  
Prophy Powder

Effective for the removal of plaque from teeth. For oral cleaning purposes only; do not ingest or swallow

Specifications

Connector	4hole
Input Water Pressure	≥50ml/min
Sand Amount	≤9g/min
Blasting Hole	(0.60+0.05)mm
Powder Range	27-90µm
Operating Air Pressure	0.4MPa
Water Jet Capacity	0.2MPa

Effects of Air Polisher



← Before  
Air Polishing

← After  
Biofilm Disclosing

← After  
Air Polishing



# Micro Etching Master<sup>®</sup>

## Dental Sandblaster

2 in1 Sand and water blasting at the same time



Used to restorative aesthetics or bonding of orthodontic brackets

### Without blocking

Effectively inhibit the diffusion of sand powder and prevent water vapor from reabsorbing without blocking  
the unique sand design prevents clogging, giving greater efficiency



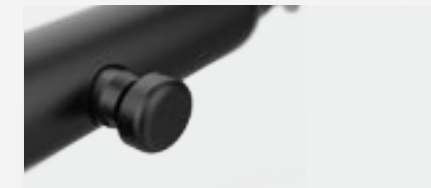
### Precision Sandblasting

Nozzle can be Rotated 360° Easy to spray from any angle, Detachable for easy cleaning and maintenance



### Press the Button Easily

Precise control of blasting volume Effectively avoids outflow of internal residual sand



### Internationality Common Interface

All types of dental chairs four holes are available



### Alloy Tungsten Carbide Nozzles

Longer life, not easy to wear



**AluSparkle<sup>®</sup>**  
Aluminum Oxide  
Abrasive Powder

No water absorption, no blocking, highly efficient  
Perfect for working on the surface of crowns, inserts and orthodontic fasteners  
27-micron sand for Immediate Dentin Sealing to improve bond strength for indirect restorations, crowns, inlays and onlays  
50-micron sand for ceramic and porcelain restoration, such as porcelain veneers or inlays  
90-micron sand for metal and zirconia restorations such as orthodontic brackets, implant bases, zirconia restorations



**AIR FLY<sup>®</sup>**  
Prophy Powder

Used with Air Polisher for the removal of plaque from teeth  
To be used for oral cleaning only. Please do not ingest or swallow

### Specification Comes with two bottles

Connector	4hole
Input water pressure	≥50ml/min
Sand amount	≤9g/min
Blasting hole	(0.60+0.05)mm
Use powder range	27-90μm
Operation air pressure	0.4MPa
Water jet capacity	0.2MPa

### Effects of Air Polisher







# AIR-FLY

## Prophy Powder



Flavor		Lemon	Lemon	Lemon
Model		AF-1	AF-2	AF-4
Composition		Sodium bicarbonate	Erythritol	Glycine
Net weight		300g	120g	200g
Particle size		60µm	14µm	27µm
Teeth	Stains and early calculus	✓	✓	✗
	Enamel	✓	✓	✓
	Enamel white spots	✗	✓	✓
	Pits and fissures	✗	✓	✗
	Dentine	✗	✓	✓
Soft tissues	Gingiva	✗	✓	✓
	Tongue and palate	✗	✓	✓
Restorations	Hybrid composite	✗	✓	✓
	Glass ionomer	✗	✓	✓
Implants	and peri-implant tissues	✗	✓	✓
Orthodontics	Brackets and appliances	✗	✓	✓

Cola, Mint and Neutral favoer could be supplied, depending on quantity.  
Removal of biofilm stains and surface preparations on natural teeth  
Removal of biofilm and stains on natural teeth, restorations and implants

## British Brand European Quality

# AluSparkle<sup>®</sup>

## Aluminum Oxide Abrasive Powder



- No water absorption, no blocking, high efficiency
- Perfect for working on the surface of tooth crown, inserts and orthodontic fasteners
- **27-micron** sand for Immediate denture Sealing after the tooth surface, such as polymer resin type restoration, dentin
- **50-micron** sand for ceramic and porcelain restoration, such as porcelain veneers or inlays
- **90-micron** sand for metal and zirconia restorations such as orthodontic brackets, implant bases, zirconia restorations



# PX-A

## Dental Scaler and Air Polisher

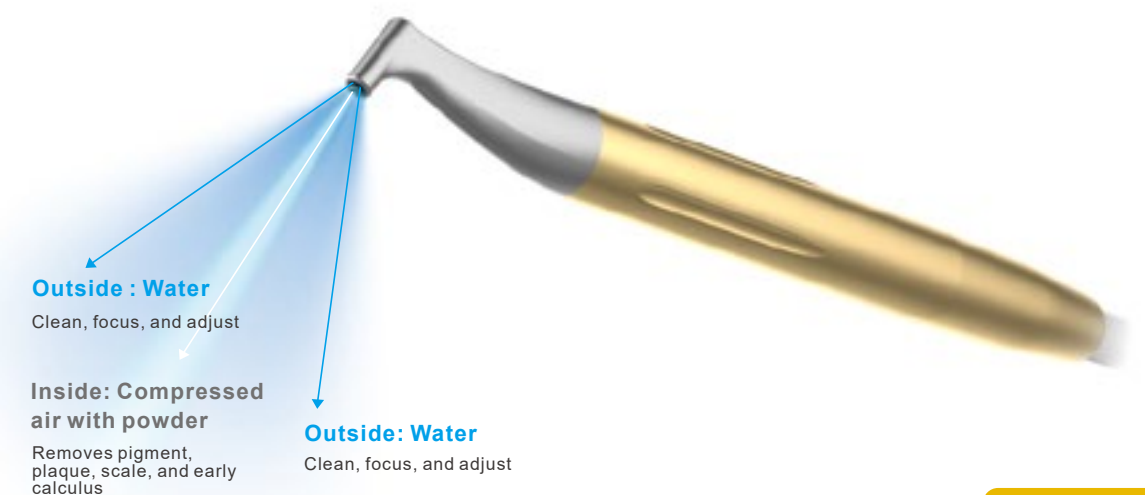


### Introduction



### Sandblasting, periodontal treatment, endodontic treatment, and implant cleaning: Four in One

The nozzle is progressively tapered and sandblasted more intensively.  
The internal piping can withstand a pressure of 0.6 MPa, sufficient to remove stubborn deposits.



## The two-stage sandblaster handpiece design reduces intermediate links and prevents sand powder from accumulating and caking

- High precision design gives comfortable grip and accurate flow
- Prevents moisture permeating the powder
- Sandblasting with water reduces dust pollution



### Anti-blocking

Gas-water separation

## Gas-water separator: Filter system

- Easily replaced filter keeps the air dry
- Multi stage filtration excludes water from powder bin
- Design reduces cloggin



### Anti-blocking

The outlet is moved back

## 360° rotation

- Patented handpiece design allows for 360-degree unobstructed rotation
- Easy operation; water and air can be adjusted freely



### 360° rotation

Easy to operate the nozzle

## Funnel-shaped sand bin

Funnel-shaped sand bin



Powder easily inserted and replaced



### Stability

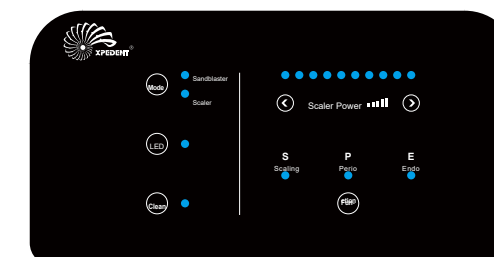
Funnel-shaped sand bin

## One-click Cleanup

- Maintenance is more convenient because of one-click cleanup



- All-in-one touch panel for easy cleaning
- Interface design is simple, friendly, and attractive



## Advantages

### Effectively protects the surface of teeth

The powder has low hardness so avoids damage to dentin during scaling

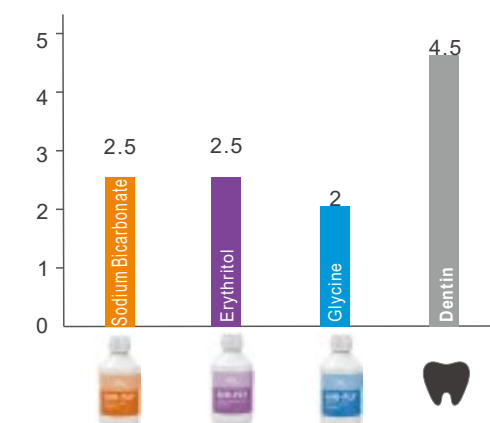
### More effective at removing plaque

Powder-blasting can access and clean inaccessible areas such as orthodontic brackets and occlusal surfaces

### Reducing the plaque and pigment

Teeth cleaned by powder-blasting are more resilient to buildup of plaque or unwanted pigments

Comparison of hardness of powders and dentin



## Operation of sandblasting



Recommended angle: 30°-60°



Recommended distance: 3-5 mm



Comfortable Ultrasonic Periodontal Treatment Device

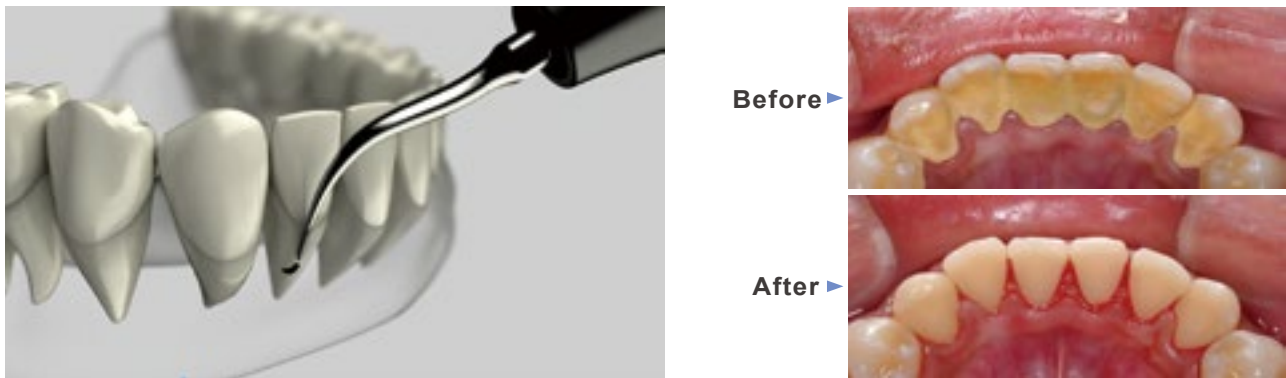
Intelligent Tip Identification

- Automated tracing technology identifies tip in use
- Perfect match for more than 60 tip styles, meeting numerous clinical needs
- Patented handpiece design does not get hot during extended use



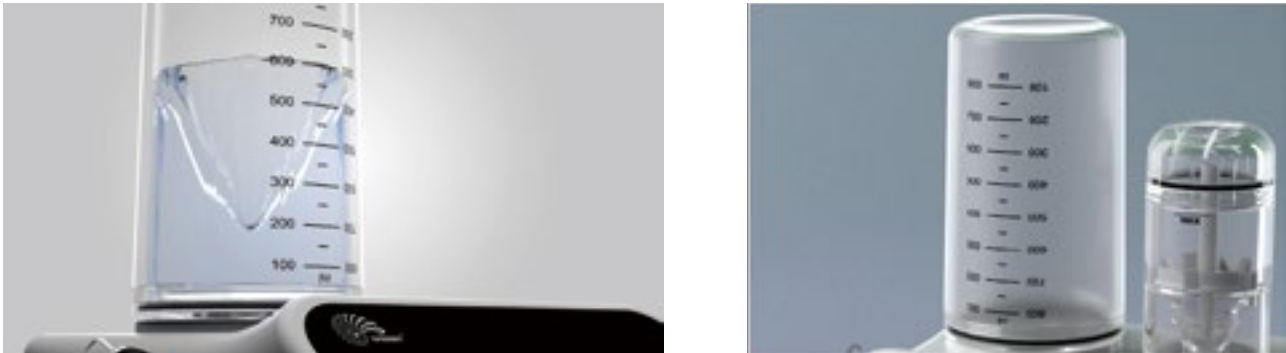
Comfortable periodontal treatment for subgingival and supragingival areas

- Root canal irrigation, removal of broken needles, removal of calcifications, apical resection, and inverted root canal filling
- Ultrasonic cavity removal, veneer inlay finishing, tooth preparation, and edge polishing
- Implant cleaning, removal of crowns, and veneer inlays



Water supply

Additives may be used in the built-in water supply



Luxury configuration

Standard configuration

Machine	1	Pedal	1
Water bottle	1	Torque wrench	1
Sand bin	1	Endodontic wrench	1
Ultrasonic handpiece	1	Tips	11
Sandblaster handpiece	1	Files	4
Power line	1	Autoclave box	1

Accessories for maintenance

6×4 mm Pipe	2	T-junction 6	2
6×4 mm Pipe	1	Cleaner for sandblaster handpiece	1
4×2.5 mm Pipe	1	Protective tube	2
Filter	2	O-ring	10
T-junction 8-6	2		

Tips specification

P50L	P50R	P52	P53L	P53R	P56	TICP	TG4	E1	15#	20#
2+2	2+2	2+2	1+1	1+1	1+1	1+1	+2	1+1	2+2	2+2

# Shel-P

## Ultrasonic Endodontic Expert



### Product features

**Clean, Reliable, and Sensitive Touch Screen:** The tempered glass material is waterproof and durable.

**LED Handpiece:** Provides a clear working vision.

**Inductive Rotary Water Switch:** Detachable with an automatic washing function, making it easy to clean.

**Sine Wave Drive:** Avoids instant stimulation, ensuring a comfortable and gentle experience.

**Intelligent Negative Feedback System:** Maintains constant power output to achieve continuous and stable treatment effects.

**Two Methods of Water Supply:** Changing supply methods has never been easier.

### Standard Tips



### Optional Tips



### LED Hand-piece



### Function



Repair the pathway, explore the calcified root canal, and remove any attached pulp stones.



Place MTA bioceramics.



Apical Surgery: Involves inverted apical preparation and the placement of inverted filling materials.



Ultrasonic vibration pressure for dental applications.



Activate sodium hypochlorite.



Remove broken instruments from the root canal, including root canal posts, silver points, fractured metal, and other debris.



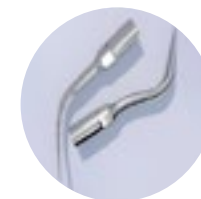
# Xpedent tips

Multifunction Ultrasonic Tips For All Applications



## SCALING

Scaling is precise work. Proper instrument selection is essential to achieving complete periodontal cleaning. Our wide variety of tips give you the freedom to choose the exact instrument for the situation.



## PERIODONTICS

Perio tips are thin and designed for root planing and maintenance to provide the best access to furcation and curved roots.



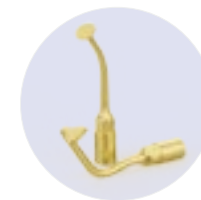
## ENDODONTICS

Endodontic tips can be used in many areas in endodontics. They are excellent for the removal of posts, removing dentin in pulp chambers, finding and widening orifices, preparing canals, removing broken instruments and cleaning prepared canals.



## CAVITY PREPARATION

These tips are diamond coated and can be used to prepare a cavity in the tooth before carrying out further dental work.



## SURGERY TIPS

Surgery tips are designed for a wide range of bone surgery applications, including sinus lifting and implantation procedures.

### Principle of Operation.

For piezo style tips, including all Xpedent tips except those to use with NSK® and Kavo Soniflex® compatible air scalers, power is generated by piezoelectric crystals. For aircalers power is generated by compressed air. This creates a sinusoidal motion with the greatest power (amplitude) at the end of the tip followed by a weaker area, then a stronger area in accordance with a sine wave. The effect of the tip is therefore very dependent upon the part of the tip in contact with the tooth. Contact with the side of the tip in the second strong power band, 2-3 mm from the end, creates the most effective action. The ideal power setting will depend on the tip used and the condition of the area to be treated. Endo and Perio work requires longer and thinner tips than scaling, so lower powers are appropriate. Always start with a low power and increase gradually to maximise effectiveness and minimise patient discomfort.

### Orientation and Application.

To create a combination of patient comfort and efficient scaling it is important to use the side of the tip at the second power band and at a very shallow angle to the tooth. Too great an angle will bring the point of the tip in contact with the tooth and lead to patient discomfort.

Unlike hand scaling, ultrasonic scaling requires only a very gentle touch to the tooth surface; the ultrasonics provide all the power so the dental practitioner only needs to guide the tip very gently around the area to be treated. The removal of hard deposits can be expedited by applying the end of the tip where the vibrations are strongest; this will cause calculus to break away from the tooth. Once this is done, resume gentle motions. Too much force, or over-use of the tip end, will cause discomfort.

Xpedent tips (suitable for use with EMS® scaler machines).

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Xpedent tips (suitable for use with SATELEC® scaler machines).

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Xpedent tips (suitable for use with SIRONA® scaler machines).

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Xpedent tips (suitable for use with KAVO® scaler machines).

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Xpedent tips (suitable for use with AMDENT® scaler machines).

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Xpedent tips (suitable for use with MECTRON® scaler machines).

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Xpedent tips (suitable for use with EMS® surgery machines).

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SCALING

Used to remove light and medium supragingival calculus and bacterial plaque.

G1

GS1

GN1

GD1

GM1

Flat edge is used to remove heavy supragingival calculus.

G2

GS2

GN2

GD2

Used to remove calculus and bacterial plaque from supragingival interdental areas.

G3

GS3

GN3

GD3

GM3

Used to remove all supragingival calculus and bacterial plaque.

G4

GS4

GN4

GD4

GM4

Used to remove all supragingival calculus and bacterial plaque.

G5

GS5

GN5

GD5

GM5

Used to remove heavy supragingival calculus.

G6

GN6

GD6

GM6

PERIO

Used to remove subgingival calculus.

P1

PS1

PN1

PD1

PM1

Curved to the left, for treating furcations, interdental calculus and very narrow spaces.

P2L

PN2L

PD2L

Curved to the left and diamond coated, for treating furcations, interdental calculus and very narrow spaces.

P2LD

PD2LD

Curved to the right, for treating furcations, interdental calculus and very narrow spaces.

P2R

PN2R

PD2R

Curved to the right and diamond coated, for treating furcations, interdental calculus and very narrow spaces.

P2RD

PD2RD

Used to remove subgingival calculus.

P3

PS3

PN3

PD3

PM3

Diamond coated, used to smooth the surface of root during periodontal flap surgery.

P3D

PS3D

PN3D

PD3D

Used to remove subgingival calculus.

P4

PS4

PN4

PD4

Diamond coated, a powerful tool for the removal of calcification, this tip can be used for widening calcified roots in the coronal third.

P4D

PN4D

PD4D

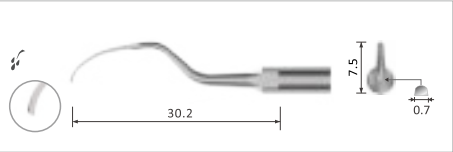
Xpedent tips suitable for use with EMS® scaling devices  
Xpedent tips suitable for use with SIRONA® scaling devices  
Xpedent tips suitable for use with SATELEC® scaling devices  
Xpedent tips suitable for use with NSK® scaling devices  
Xpedent tips suitable for use with MECTRON® scaling devices

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Xpedent tips 146

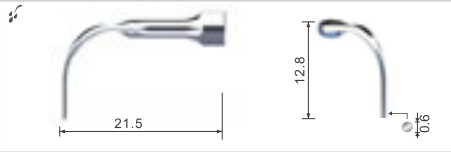
Xpedent tips 147





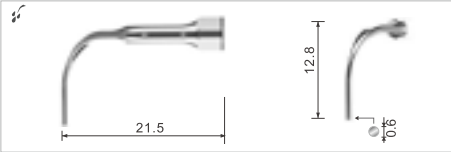
**Anterior Periodontics.** Enables treatment of the incisor-canine block. The guide edge is oriented parallel to the pocket. Enables work in the periodontal pocket without injury to the ligament.

eH3 (P5)  
sH3



Curved to the left, used to remove subgingival calculus.

P6L  
PD6L



Curved to the right, used to remove subgingival calculus.

P6R  
PD6R

ENDO



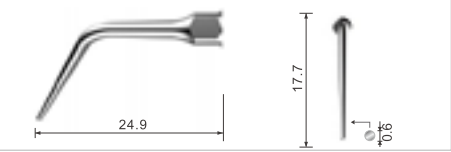
120° angle holder for use with Xpident U files with a shank diameter of 0.57mm, this tip is usually used for anterior root canal cleaning.

E1  
ED1



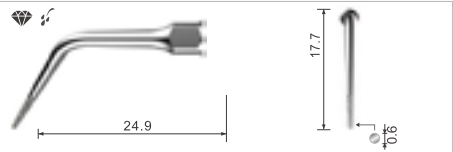
95° angle holder for use with Xpident U files with a shank diameter of 0.57mm, this tip is usually used for anterior root canal cleaning.

E2  
ED2



With cooling spray disabled, this tip is used for lateral thermal condensation of gutta percha.

E3  
ED3



Diamond coated, used to remove calcification and bad filling material from pulp cavity and overhang pulp chamber.

E3D  
ED3D



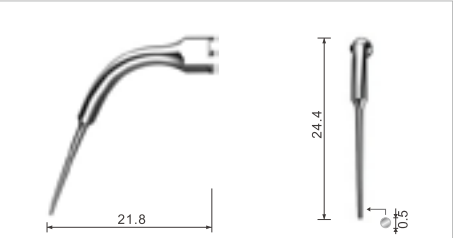
Quickly removes obstructions and broken instruments in the mid and upper thirds of large and straight canals.

E4  
ED4



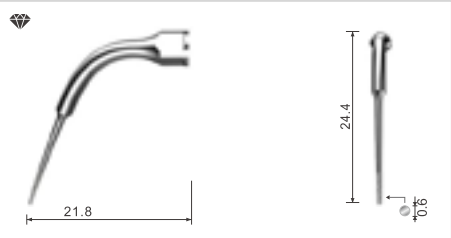
Diamond coated, for retreatments or extremely hard materials.

E4D  
ED4D



Useful for quickly eliminating calculus and temporary cements.

E5  
ED5



Diamond Coated, for enhanced cutting and abrasion. Especially useful for removing very hard materials on the canal wall.

E5D  
ED5D

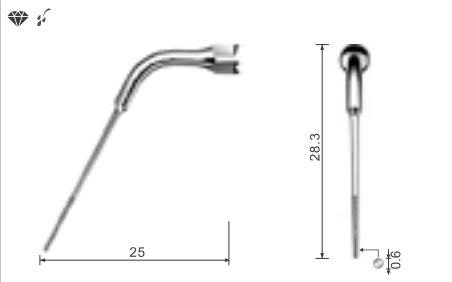


Quickly removes obstructions and broken instruments in the mid and upper thirds of large and straight canals.

E14  
ED14

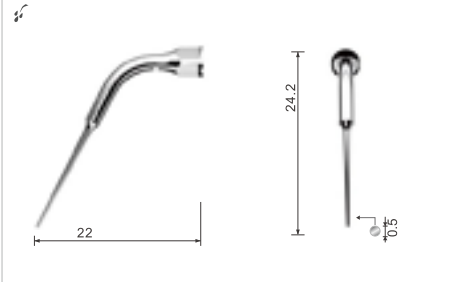
Xpident tips suitable for use with EMS® scaling devices  
Xpident tips suitable for use with SIRONA® scaling devices  
Xpident tips suitable for use with SATELEC® scaling devices  
Xpident tips suitable for use with NSK® scaling devices  
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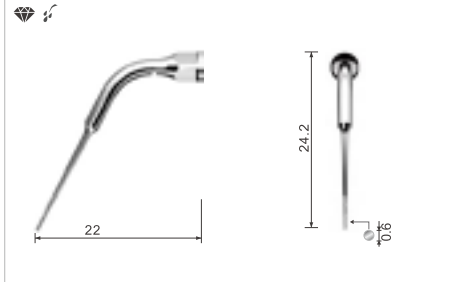
Diamond coated for retreatments or extremely hard materials.

E14D  
ED14D



Useful for quickly eliminating calculus and temporary cements.

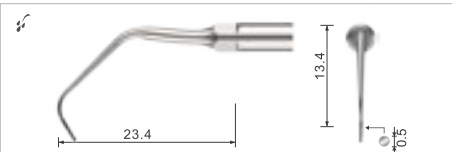
E15  
ED15



Diamond coated, for enhanced cutting and abrasion. Especially useful for removing very hard materials on the canal wall.

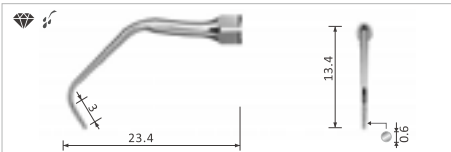
E15D  
ED15D

RETRO



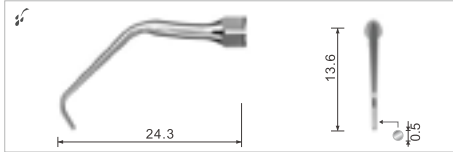
Used for gentle treatment of the root canal of anterior teeth.

E10  
ED10



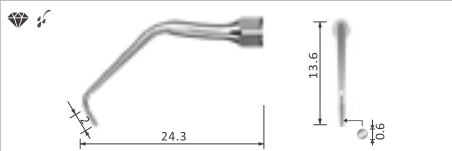
Diamond coated, used for efficient apical polishing of anterior teeth.

E10D  
ED10D



Used for gentle treatment in the root canal of anterior teeth.

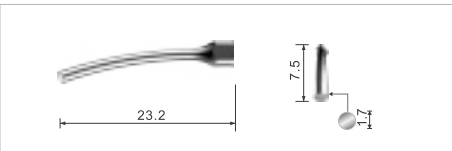
E11  
ED11



Diamond coated, with enhanced cutting and abrasive power; especially useful for removing very hard materials on the canal wall and lateral cutting.

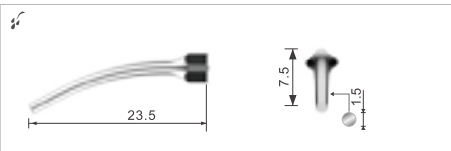
E11D  
ED11D

CROWN REMOVAL



Used to remove bridges, crowns and posts by fracturing the cement.

G7  
GD7



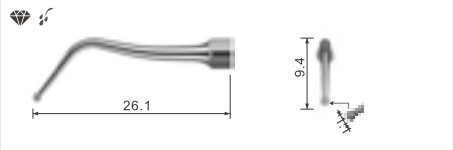
Used to remove bridges, crowns and posts by fracturing the cement.

G8

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Xpident tips suitable for use with SIRONA® scaling devices  
Xpident tips suitable for use with SATELEC® scaling devices  
Xpident tips suitable for use with NSK® scaling devices  
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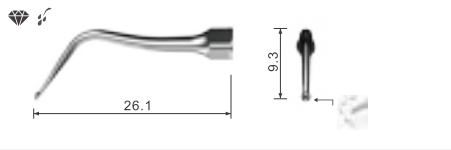
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CAVITY PREPARATION



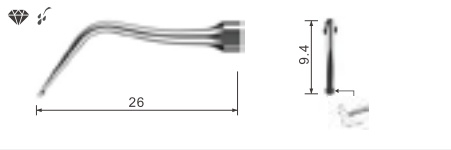
Ball diamond tip, for preparation of occlusal surfaces and cervical ridges.

SB1 SBS1 SBN1  
SBD1



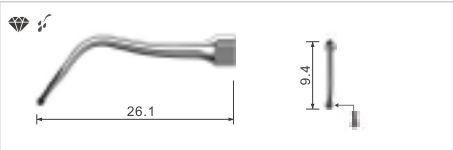
Semi-spherical diamond tip, for finishing cervical interproximal areas without causing lesions to adjacent teeth.

SB2 SBS2 SBN2  
SBD2



Semi-spherical diamond tip, for finishing cervical interproximal areas without causing lesions to adjacent teeth.

SB3 SBS3 SBN3  
SBD3



Semi-spherical diamond tip set 45° to the left. Allows the dentist to remove carious areas of a tooth without damaging the adjacent teeth.

SBL SBSL SBNL  
SBDL



Semi-spherical diamond tip set 45° to the right. Allows the dentist to remove carious areas of a tooth without damaging the adjacent teeth.

SBR SBSR SBNR  
SBDR

FG-BUR HOLDER



FG-bur holder used to expand the root canal and grind teeth.

E8 EN8  
ED8



FG-bur holder used to expand the root canal and grind teeth.

E9 EN9  
ED9

IMPLANT CLEANING



**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks. Replacement

eICP SET srlCP SET nICP SET  
sICP SET



**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

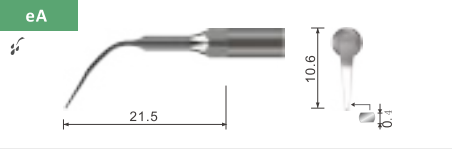
ICPpeek ICPpeek ICPpeek  
ICPpeek

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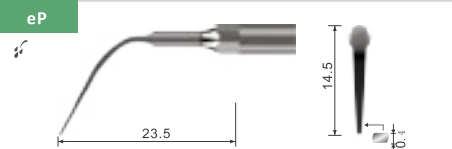
Xpedent tips (suitable for use with EMS® scaler machines).  
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SCALING

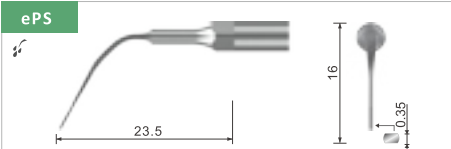


**Universal.** Accurate removal of solid supragingival calculus in all quadrants.

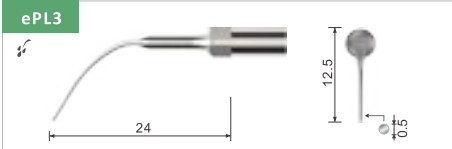
PERIO



**Perio.** The eP instrument is well suited for the precise removal of stubborn subgingival and supragingival calculus and concretions in all quadrants.



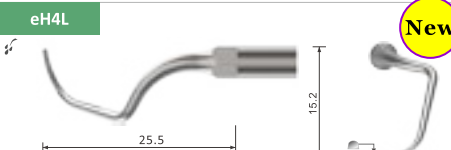
**PerioSlim.** The fast and minimally-invasive ePS instrument is ideal for calculus removal in deep periodontal pockets in all quadrants.



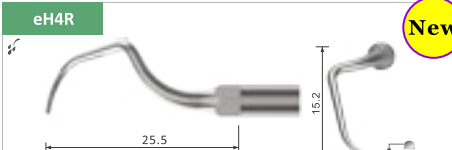
**Perio Cleaning.** For cleaning and disinfecting periodontal pockets, it is especially suitable for follow-up and recall visits for periodontal maintenance patients.



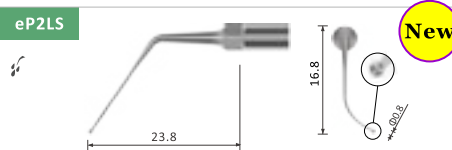
**Anterior Periodontics.** Enables treatment of the incisor-canine block. The guide edge is oriented parallel to the pocket. Enables work in the periodontal pocket without injury to the ligament.



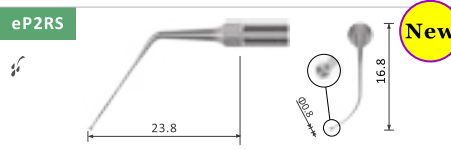
**Premolar and Molar.** Left-curve. First instrument for treating all the surfaces and the furcations.  
**Maxillary.** Buccal and distal surfaces of sector 2, pivots at 13, then the buccal and mesial surfaces of sector 1.  
**Mandibular.** Buccal and distal surfaces of sector 4, pivots at 43, then lingual and mesial surfaces of sector 3.



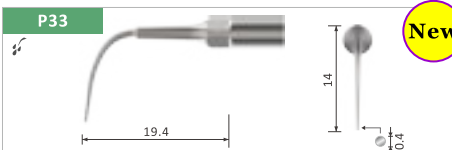
**Premolar and Molar.** Right-curve. Second instrument, use after sH4L.  
**Maxillary.** Palatine and mesial surfaces of sector 2, pivots at 13, then buccal and distal surfaces of sector 1.  
**Mandibular.** Lingual and mesial surfaces of sector 4, pivots at 43, then buccal and distal surfaces of sector 3.



**Perio.** Left curved instrument with a small ball > 0.8 mm diameter on the instrument tips for periodontal debridement of furcations and concavities



**Perio.** Right curved instrument with a small ball > 0.8 mm diameter on the instrument tips for periodontal debridement of furcations and concavities



**Perio.** Used to remove dental calculus deep in the periodontal pocket and clean the periodontal pocket.

ENDO



**Access Long Canals.** The ROGP tip is used to access areas not reached by other tips. Particularly effective for retreatments, especially in long oval canals, where most other tips would not fit. Excellent for Gutta-Percha removal.



**Access Long Canals - 90°.** The ROGP tip is used to access areas not reached by other tips. Particularly effective for retreatments, especially in long oval canals, where most other tips would not fit. Excellent for Gutta-Percha removal.



CONDENSATION

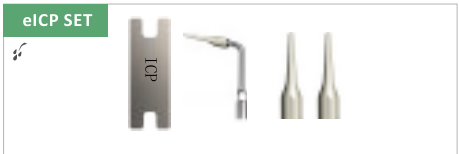


**Condensation.** For cementing ceramic inlays, onlays and veneers. The eC20 SET contains 1 eC20 and 2 spare peeks.



**Replacement.** C20peeks are autoclavable and reusable.

IMPLANT CLEANING

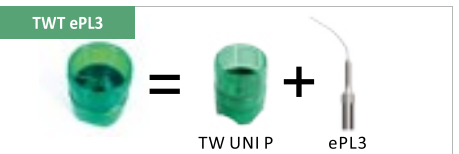
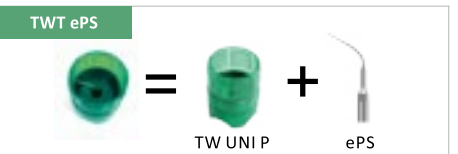
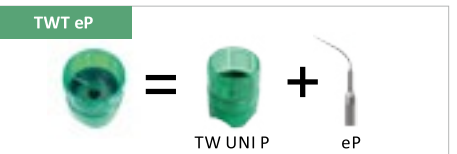
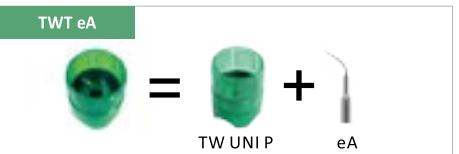


**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.



**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

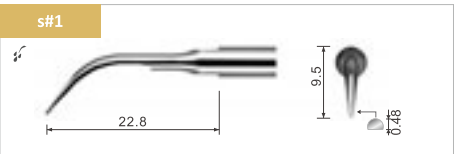
SETS (TORQUE WRENCH INCL. SCALER TIP)



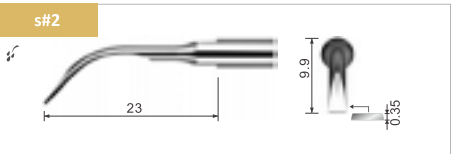
Xpedent tips (suitable for use with SATELEC® scaler machines).

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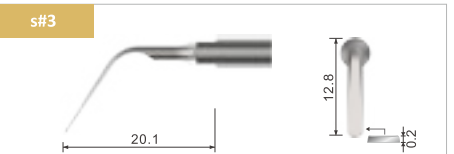
SCALING



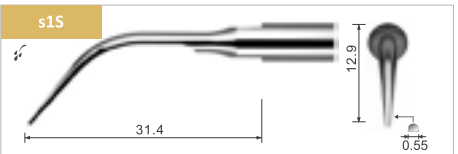
**Universal.** Simple supragingival scaling and tartar removal without damage to the enamel.



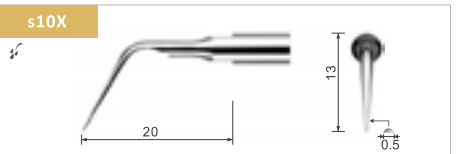
**Calculus.** Apply the flat part to the tooth to remove major calculus deposits.



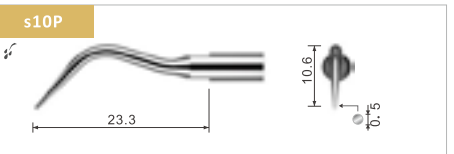
**Stain Removal.** Rounded leading edge is effective for the removal of marks or stains such as tobacco or tea.



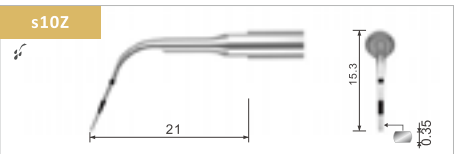
**Slim.** Supra and subgingival scaling. Particularly effective for interproximal spaces.



**Interproximal.** Its flat active part makes it suitable for the interproximal spaces and supragingival scaling. Its anatomical design enables fast and efficient use.



**Shallow.** Slim round instrument suitable for scaling shallow pockets less than 2-3mm deep.

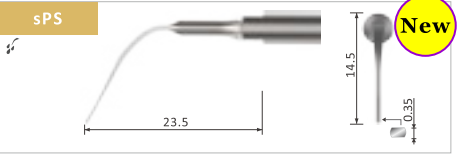


**Subgingival.** Medium pockets (< 4mm). Removal of biofilm and soft deposits, enables observation of pocket depth using the 3mm scale.

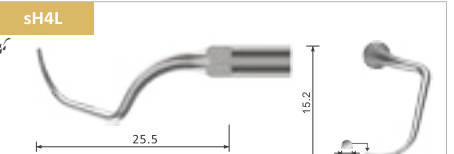
PERIO



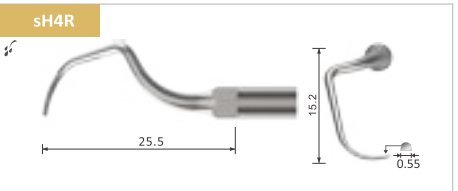
**Anterior Periodontics.** Enables treatment of the incisor-canine block. The guide edge is oriented parallel to the pocket. Enables work in the periodontal pocket without injury to the ligament.



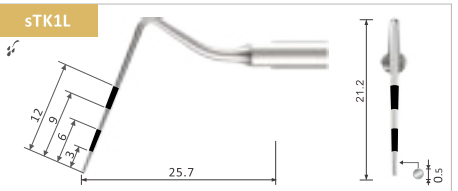
**PerioSlim.** The fast and minimally-invasive sPS instrument is ideal for calculus removal in deep periodontal pockets in all quadrants.



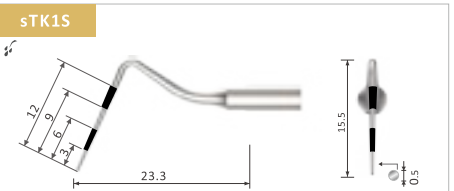
**Premolar and Molar.** Left-curve. First instrument for treating all the surfaces and the furcations.  
**Maxillary.** Buccal and distal surfaces of sector 2, pivots at 13, then the buccal and mesial surfaces of sector 1.  
**Mandibular.** Buccal and distal surfaces of sector 4, pivots at 43, then lingual and mesial surfaces of sector 3.



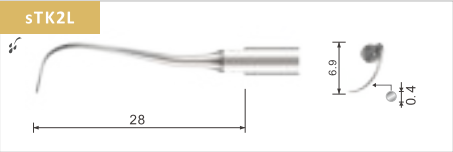
**Premolar and Molar.** Right-curve. Second instrument, use after sH4L.  
**Maxillary.** Palatine and mesial surfaces of sector 2, pivots at 13, then buccal and distal surfaces of sector 1.  
**Mandibular.** Lingual and mesial surfaces of sector 4, pivots at 43, then buccal and distal surfaces of sector 3.



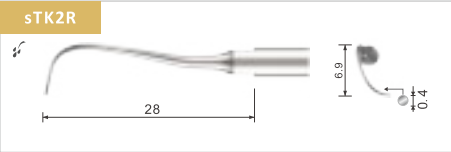
**Extended Probe.** Ideal for examining and maintenance of medium to deep pockets (> 4mm). A diagnosis aid used during the debridement and irrigation of pockets.



**Probe.** Recommended for examining shallow and medium pockets (< 4mm) and for the maintenance of simple cases. sTK1S tip is graduated every 3mm.

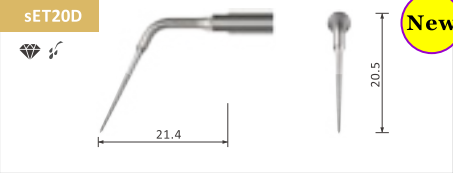


**Left-Oriented Maintenance.** Recommended for the maintenance of moderate to deep pockets and furcations. Equivalent to the Nabers probe.

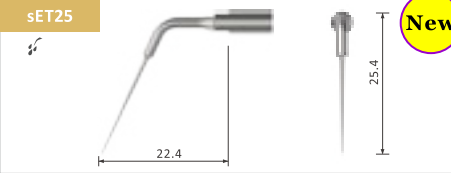


**Right-Oriented Maintenance.** Recommended for the maintenance of moderate to deep pockets and furcations. Equivalent to the Nabers probe.

## ENDO



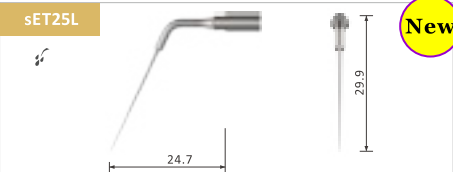
**Diamond Coated Retreatment.** Used for the removal of hard materials in the 1st coronal third, 30 µm diamonds, length 20mm, taper 5%.



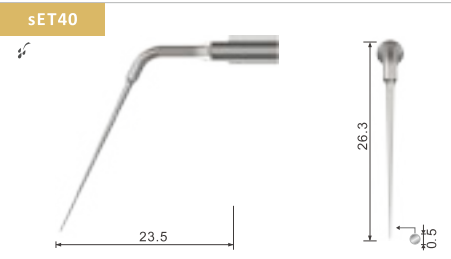
**Retreatment.** Preferred to use in the middle and apical thirds for retreatment and the extraction of broken instruments, Titanium-alloy, length 20mm, taper 3%.



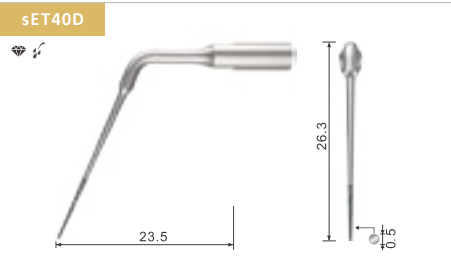
**Retreatment Short.** Used in coronal third and the isthmuses, Titanium-alloy, length 15mm, taper 4%.



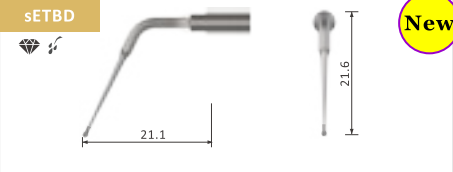
**Retreatment Long.** Used in the apical third and long straight canals for retreatment, Titanium-alloy, length 25mm, taper 3%.



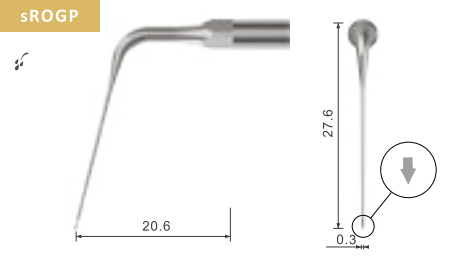
**Instrument Removal.** Used in the middle third of wide, straight canals, the sET40 is a rapid solution for removal of broken instruments.



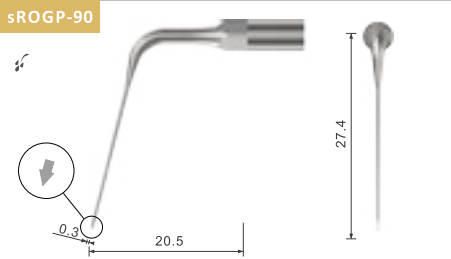
**Diamond.** A diamond-coated steel tip for retreatment of very hard material in the middle third. Length 40mm, 30 µm diamonds, taper 4%.



**Calicification Locator.** Used for searching for canals and locating calified canals, diamond coated ball, length 20mm, taper 5 %.

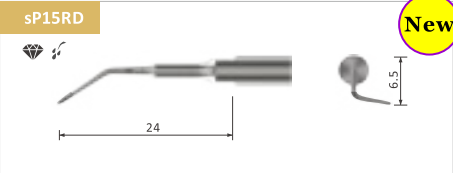


**Access Long Canals.** The ROGP tip is used to access areas not reached by other tips. Particularly effective for retreatments, especially in long oval canals, where most other tips would not fit. Excellent for Gutta-Percha removal.

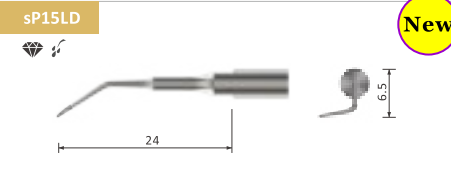


**Access Long Canals - 90°.** The ROGP tip is used to access areas not reached by other tips. Particularly effective for retreatments, especially in long oval canals, where most other tips would not fit. Excellent for Gutta-Percha removal.

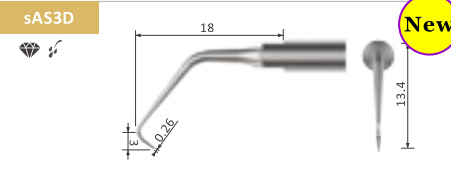
## RETRO



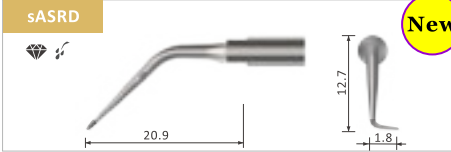
**Retro Surgery Tip - Right.** Used for preparation of premolars and molar canals, length 5mm, 30 µm diamonds, taper 7%.



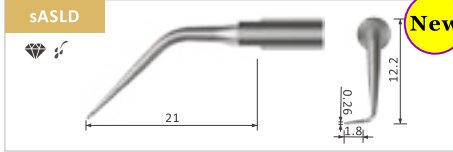
**Retro Surgery Tip - Left.** Used for preparation of premolars and molar canals, length 5mm, 30 µm diamonds, taper 7%.



**Universal Retro Surgery Tip.** Used with minimum power and low pressure for apical surgery of anterior teeth, length 3mm, 30 µm diamonds, taper 9%.



**Retro Surgery Tip - Right.** Used with low pressure for apical surgery of molars and premolars, length 3mm, 30 µm diamonds, taper 10%.



**Retro Surgery Tip - Left.** Used with low pressure for apical surgery of molars and premolars, length 3mm, 30 µm diamonds, taper 10%.

## CONDENSATION



**Condensation.** For cementing ceramic inlays, onlays and veneers. The sC20 SET contains 1 sC20 and 2 C20peaks.



**Replacement.** C20peaks are autoclavable and reusable.

## IMPLANT CLEANING



**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.



**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.





**Xpedit tips (suitable for use with NSK® scaler machines).**  
The Xpedit brand belongs to a third party which has no connection with the original equipment manufacturer or its representatives.

**Xpedit tips suitable for use with VARIOS®**

**SCALING**

nG1

**Universal.** Removal of supragingival and marginal calculus, removal of calculus from narrow interdental regions.

nG4

**Scaling.** Removal of supragingival and marginal calculus.

nG6

**Slim.** Removal of supragingival and marginal gingival calculus and removal of calculus from interproximal spaces.

nG8

**Universal Slim.** Removal of supra and marginal gingival calculus; particularly effective in interdental spaces.

nG16

**Interproximal.** Removal of calculus from interproximal areas.

**CONDENSATION**

nC20 SET

**Condensation.** For cementing ceramic inlays, onlays and veneers. The nC20 SET contains 1 nC20 and 2 C20peaks.

C20peek

**Replacement.** C20peaks are autoclavable and reusable.

**IMPLANT CLEANING**

nICP SET

**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.

ICPpeek

**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

VARIOS® is a registered trade mark of the company Nakanishi INC. Corporation.

**Xpedit tips suitable for use with TI-MAX®**

**SCALING**

nS1

**Universal.** Removal of marginal gingival and supragingival calculus.

nS2

**Perio.** Removal of supragingival calculus.

nS3

**Sickle.** Removal of supragingival calculus.

**PERIO**

nS20

**Root Planing.** Long straight tip for the removal of subgingival calculus and biofilm.

NK4

**Universal slim tip.**

NK5

A root cleaning tip, straight application.

NK6

A root cleaning tip, with a left curve.

NK7

A root cleaning tip, with a right curve.

**IMPLANT CLEANING**

nICP SET

**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.

ICPpeek

**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

TW UNIP



**Universal**  
Plastic Torque Wrench

TW UNIP



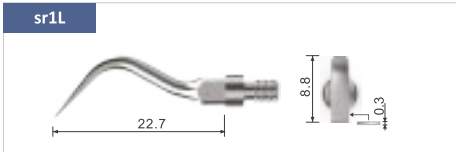
**Universal**  
Plastic Torque Wrench

TI-Max® is a registered trade mark of the company Nakanishi INC. Corporation.

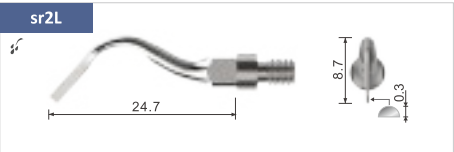
Xpedent tips (suitable for use with SIRONA® scaler machines).

The Xpedent brand belongs to a third party which has no connection with the original equipment manufacturer or its representatives.

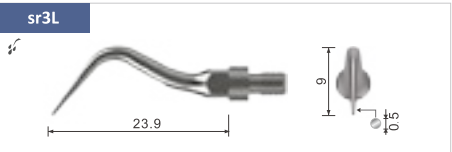
SCALING



**General.** A flat tipped instrument for initial lingual and buccal scaling.



**Versatile.** A versatile instrument used for lingual, buccal and approximal scaling.

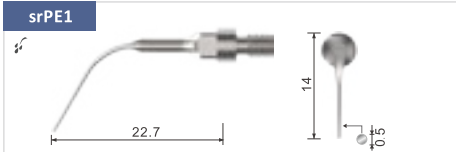


**Interdental.** A universal instrument which can be used for subgingival scaling at interdental sites.

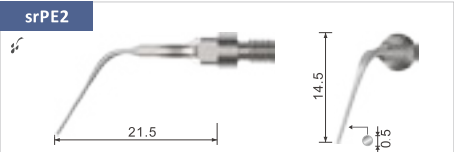


**Universal.** A fine instrument, ideal for supragingival and subgingival tooth surfaces and interdental areas.

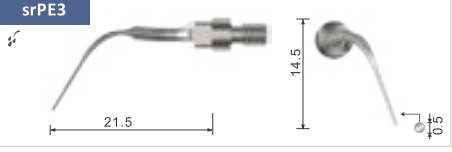
PERIO



**Perio.** For rinsing and root cleaning in deep gum pockets.

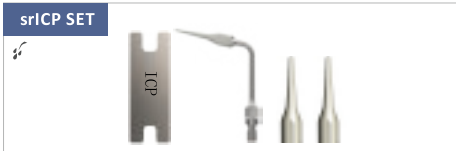


**Perio.** Curved to the right, for root cleaning in deep gum pockets in the posterior region.



**Perio.** Curved to the left, for root cleaning in deep gum pockets in the posterior region.

IMPLANT CLEANING



**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.



**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

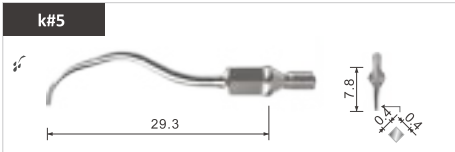


Xpedent tips (suitable for use with KAVO® scaler machines).

The Xpedent brand belongs to a third party which has no connection with the original equipment manufacturer or its representatives.

Xpedent tips suitable for use with Sonicflex®

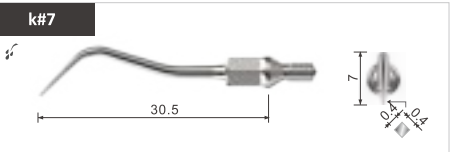
SCALING



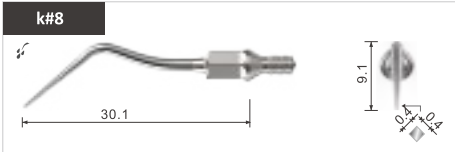
**General.** For calculus removal from all tooth surfaces.



**Fine.** Fine instrument for smaller areas and those which are difficult to access.



**Subgingival.** Instrument used for subgingival scaling.

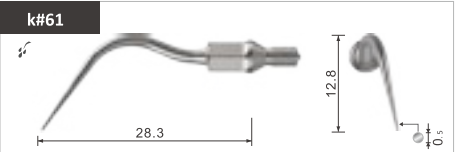


**Subgingival.** For the removal of subgingival calculus.

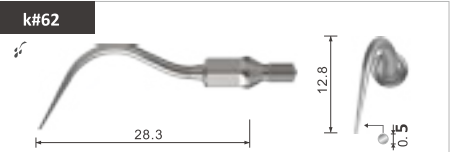
PERIO



**Perio.** A long straight tip with rounded surfaces, the k#60 is used for gentle pocket cleaning during periodontal treatment. Used in the anterior region, it is effective on smooth surfaces and at cleaning pockets up to 9 mm deep.



**Perio Left.** Curved to the left, for buccal access in the first and third quadrants to central incisor. Gentle but effective cleansing in pockets up to 9 mm deep, then cleansing of front teeth. Lingual access to premolars and molars in the second and fourth quadrants.



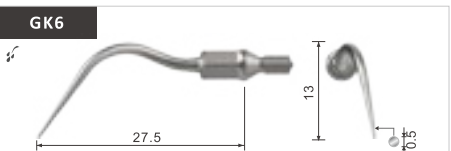
**Perio Right.** Curved to the right, for buccal access in the first and third quadrants to central incisor. Gentle but effective cleansing in pockets up to 9 mm deep, then cleansing of front teeth. Lingual access to premolars and molars in the second and fourth quadrants.



**PerioSlim.** The fast and minimally-invasive kPS instrument is ideal for calculus removal in deep periodontal pockets in all quadrants.



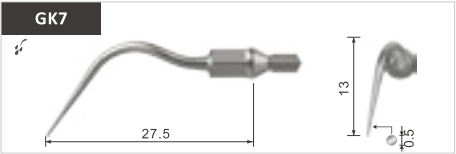
Used for supragingival, subgingival and interdental calculus removal.



Curved to the left, used for supragingival, subgingival and interdental calculus removal.

Sonicflex® is a registered trade mark of the company KAVO DENTAL GMBH  
Kavo® is a registered trade mark of KAVO Dental Corporation



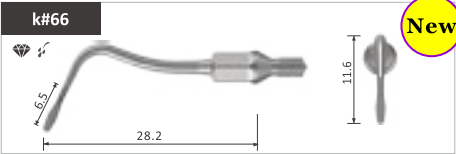


Curved to the right, used for supragingival, subgingival and interdental calculus removal.

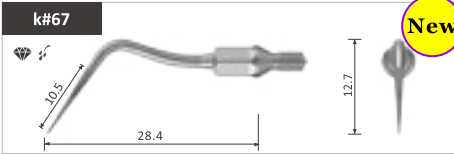


**FG-bur Holder.** FG-bur holder used to expand the root canal and grind teeth.

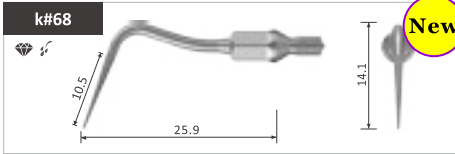
## ENDO



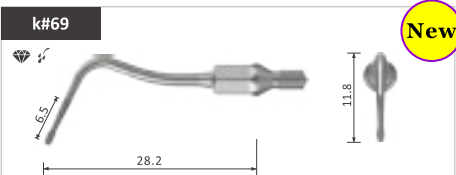
**Access Shaping.** Big bud shaped diamond coated tip for shaping the access cavity.



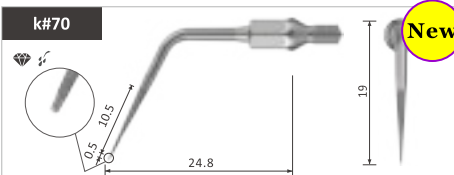
**Canal Expansion.** Diamond coated 125° conical tip. Used for widening canals.



**Canal Expansion.** Diamond coated 112° conical tip. Used for widening canals.

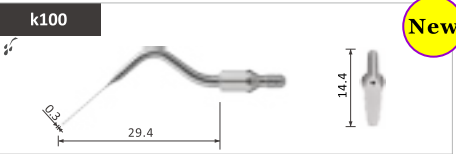


**Canal Preparation.** Small bud shaped diamond coated tip for removal of unwanted materials.

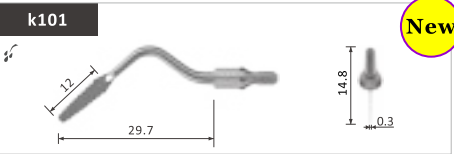


**Long Canal Preparation.** Long diamond coated 117° conical tip. Tip end not diamond coated for long and wide canals.

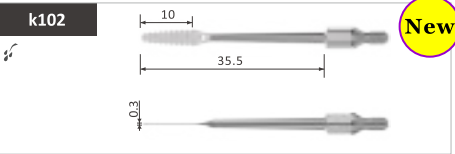
## SURGERY



**Minimally Invasive Surgery - Sagittal.** Used for tooth detachment and extraction, fine bone cutting and splitting the alveolar crest. Easy to handle and gentle on soft tissues. Cutting depth of 10.7mm

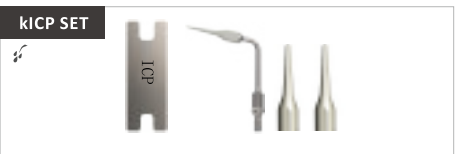


**Minimally Invasive Surgery - Axial.** Used for tooth detachment and extraction, fine bone cutting and splitting the alveolar crest. Easy to handle and gentle on soft tissues. Cutting depth of 10.7mm



**Minimally Invasive Surgery - Straight.** Used for tooth detachment and extraction, fine bone cutting and splitting the alveolar crest. Easy to handle and gentle on soft tissues. Cutting depth of 10.7mm

## IMPLANT CLEANING



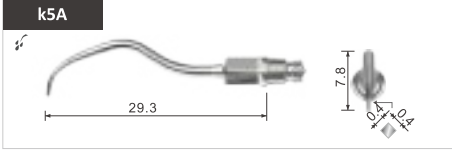
**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.



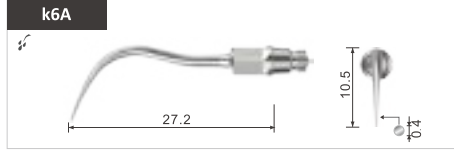
**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

## Xpedent tips suitable for use with Sonicflex quick®

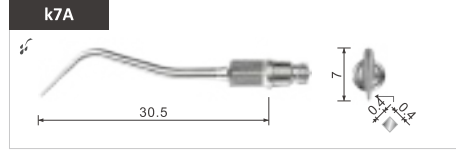
### SCALING



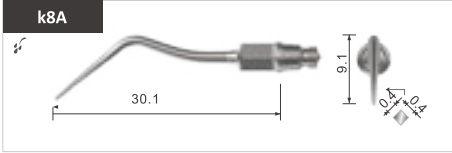
**General.** For calculus removal from all tooth surfaces.



**Fine.** Fine instrument for smaller areas and those which are difficult to access.

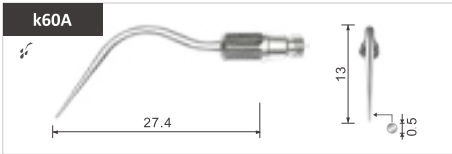


**Subgingival.** Instrument used for subgingival scaling.



**Subgingival.** For the removal of subgingival calculus.

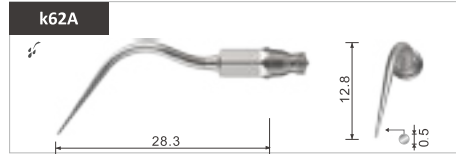
### PERIO



**Perio.** A long straight tip with rounded surfaces, the k60A is used for gentle pocket cleaning during periodontal treatment. Used in the anterior region, it is effective on smooth surfaces and at cleaning pockets up to 9 mm deep.



**Perio Left.** Curved to the left, for buccal access in the first and third quadrants to central incisor. Gentle but effective cleansing in pockets up to 9 mm deep, then cleansing of front teeth. Lingual access to premolars and molars in the second and fourth quadrants.

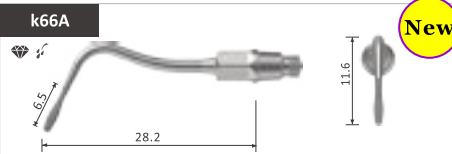


**Perio Right.** Curved to the right, for buccal access in the first and third quadrants to central incisor. Gentle but effective cleansing in pockets up to 9 mm deep, then cleansing of front teeth. Lingual access to premolars and molars in the second and fourth quadrants.

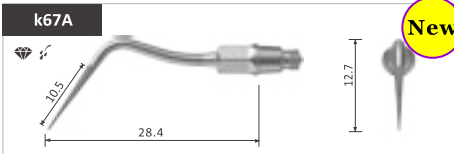


**PerioSlim.** The fast and minimally-invasive kPSA instrument is ideal for calculus removal in deep periodontal pockets in all quadrants.

### ENDO



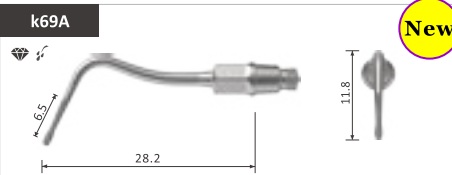
**Access Shaping.** Big bud shaped diamond coated tip for shaping the access cavity.



**Canal Expansion.** Diamond coated 125° conical tip. Used for widening canals.



**Canal Expansion.** Diamond coated 112° conical tip. Used for widening canals.



**Canal Preparation.** Small bud shaped diamond coated tip for removal of unwanted materials.



**Long Canal Preparation.** Long diamond coated 117° conical tip. Tip end not diamond coated for long and wide canals.

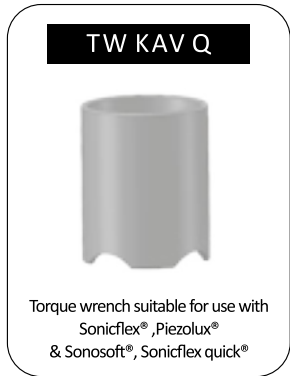
IMPLANT CLEANING



**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.



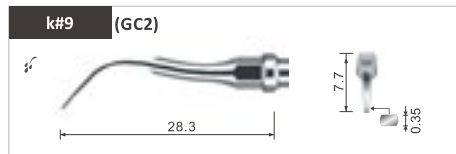
**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.



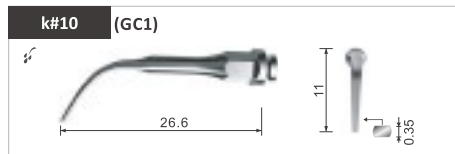
Torque wrench suitable for use with Sonicflex®, Piezolux® & Sonosoft®, Sonicflex quick®

Sonicflex®, Piezolux® & Sonosoft®, Sonicflex quick® are registered trade marks of the company KAVO DENTAL GMBH

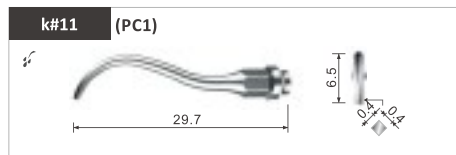
Xpedent tips suitable for use with Piezolux® & Sonosoft®  
SCALING & PERIO



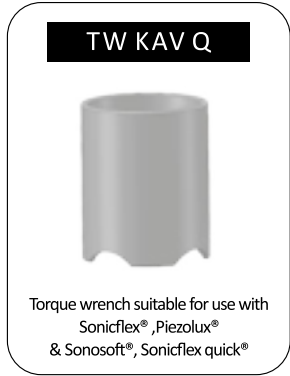
**Sickle.** Used to remove calculus and bacterial plaque from supragingival interdental calculus.



**Perio.** Used to remove calculus and bacterial plaque from supragingival interdental calculus.

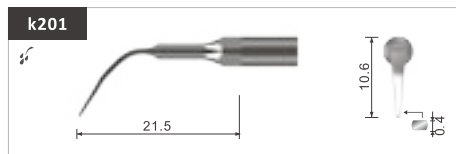


**Universal.** Used to remove subgingival calculus.

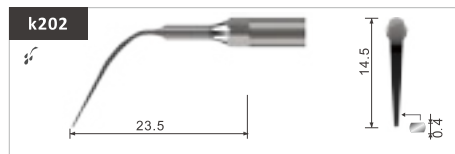


Torque wrench suitable for use with Sonicflex®, Piezolux® & Sonosoft®, Sonicflex quick®

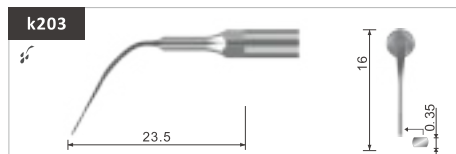
Xpedent tips suitable for use with Piezoled® & Piezosoft®



**Universal.** Accurate removal of solid supragingival calculus in all quadrants.



**Perio.** Well suited for the precise removal of stubborn subgingival and supragingival calculus and concretions in all quadrants.



**PerioSlim.** Fast and minimally-invasive, ideal for calculus in deep periodontal pockets in all quadrants.



**File Holder 120°.** Use with Xpedent U files with a shank diameter of 0.57mm, this tip is usually used for anterior root canal cleaning.



Torque wrench suitable for use with KAVO Piezoled® & Piezosoft®

Sonicflex®, Piezolux® & Sonosoft®, Piezoled® & Piezosoft®, Sonicflex quick® are registered trade marks of the company KAVO DENTAL GMBH

Xpedent tips (suitable for use with AMDENT® scaler machines).

The Xpedent brand belongs to a third party which has no connection with the original equipment manufacturer or its representatives.

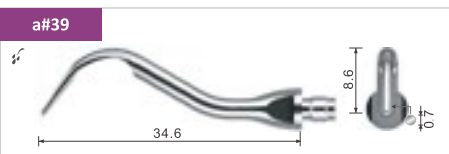
SCALING & PERIO



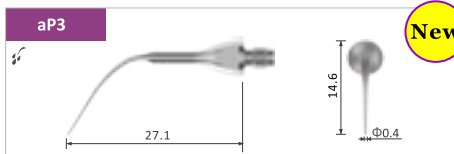
**Universal.** Tip for subgingival scaling, furcations, supragingival fine scaling and spot removal.



**Perio.** Primarily for lingual and buccal subgingival scaling and furcations. Also used for supragingival fine scaling and spot removal.

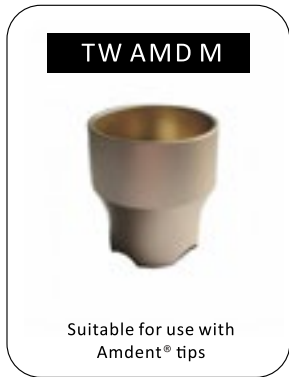


**Heavy Calculus Removal.** Can be used for lingual and buccal supragingival scaling.



**Perio.** Used to remove subgingival calculus.

Amdent® is a registered trade mark of LM Instruments Oy



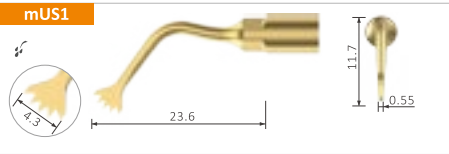
TW AMD M

Suitable for use with Amdent® tips

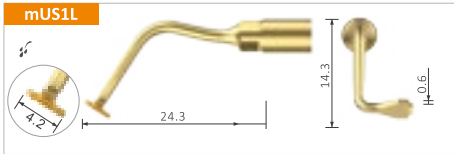
Xpedent tips (suitable for use with MECTRON® surgery machines).

The Xpedent brand belongs to a third party which has no connection with the original equipment manufacturer or its representatives.

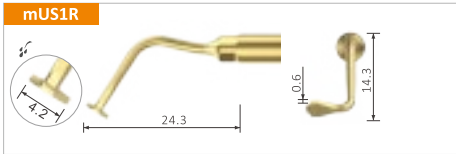
BONE CUTTING



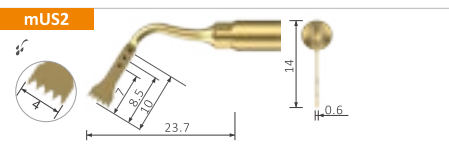
**Bone Saw.** Osteotomy of large bone sections during maxillofacial surgery.



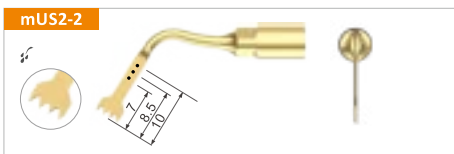
**Angled Micro-Saw 0.6mm.** All the osteotomy techniques in maxilla and mandible; bone block grafting, horizontal osteotomy - left angle.



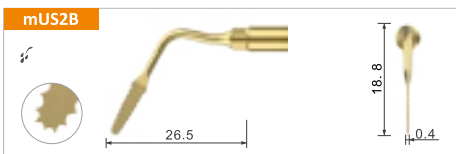
**Angled Micro-Saw 0.6mm.** All the osteotomy techniques in maxilla and mandible; bone block grafting, horizontal osteotomy - right angle.



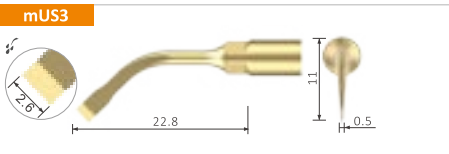
**Precision Saw.** Used for cutting bone, with great precision and efficiency. Five sharp teeth.



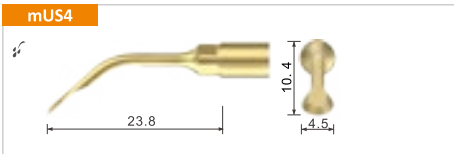
**Precision Saw.** Used for cutting bone, with great precision and efficiency. Four sharp teeth.



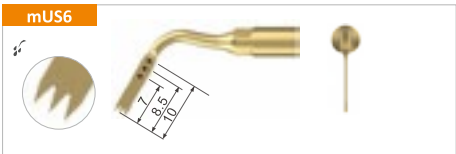
**Saw Tooth.** Used for cutting bone, with great precision and efficiency.



**Basic Scalpel.** Osteotome of great precision in anatomically thin structures (for example ridge expansion, interdental corticotomies, nontraumatic nasal spina).



**Osteoplasty Scalpel.** Universal osteoplasty, periodontal osteotomy, crown lengthening, bone chip harvesting, inflammatory tissue removal (cysts, etc.).

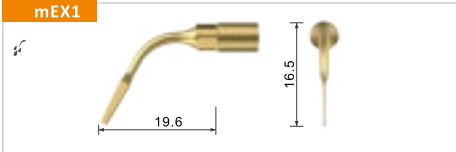


**Special Micro-Saw (3 teeth).** Very thin and small osteotomy and corticotomy technique for orthodontic microsurgery, root fraction technique for dental extraction maneuver.

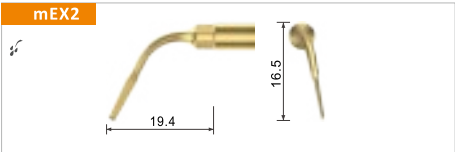




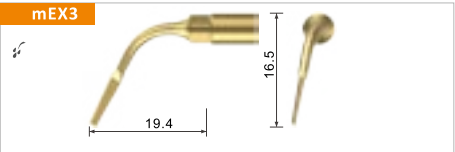
EXTRACTION



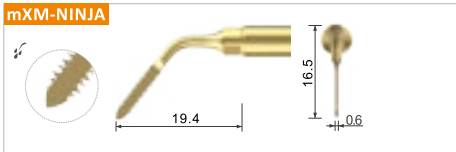
**Extraction Scalpel.** Root osteoplasty to cut off the ankylosis, root fraction techniques.



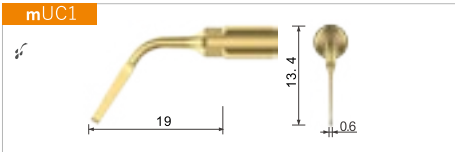
**Angled Extraction Scalpel.** Root osteoplasty in the posterior regions.



**Angled Micro-Saw 0.6mm.** Root osteoplasty in the posterior regions.

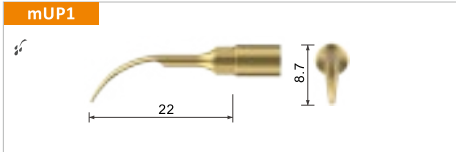


**Tooth Sectioning.** Saw-tooth tip particularly efficient for hemisections and root amputations.

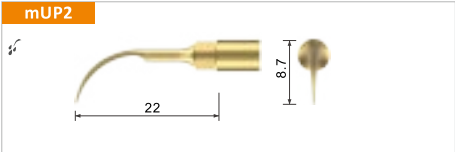


**Extraction Scalpel.** Root osteoplasty to cut off the ankylosis, root fraction techniques.

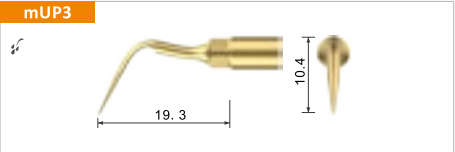
SCALING



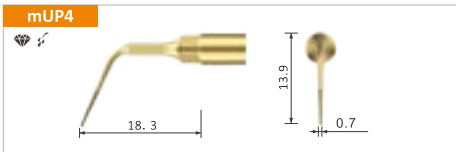
**Gentle Scaling.** Root scaling.



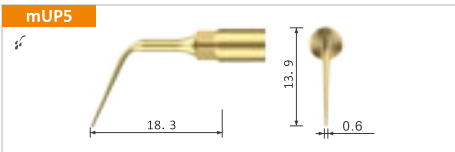
**Periodontal Scaler.** Scaling and inflammatory tissue removal, fractured root apex extraction.



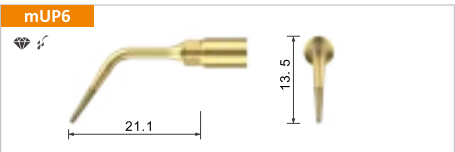
**Angled Curette.** Angled curette root scaling.



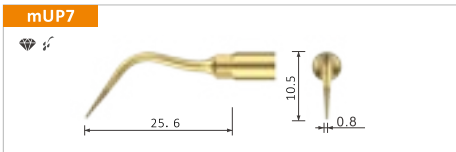
**Scaling and Microdebridement.** Root debridement and root planing during resective and regenerative periodontal surgery.



**Root Surface Micro-Smoothing.** Root planing.



**Micro-Root Preparation.** Root preparation in periodontal surgery.



**Micro-Osteoplasty.** Interproximal osteoplasty and root planing.

IMPLANT CLEANING



**Implant Cleaning.** The ICP tip is used for sub- and supragingival cleaning of implants and restorations. The replaceable peek makes the action safe and gentle. The set contains 1 ICP, 1 ICP wrench and 2 spare peeks.



**Replacement.** ICPpeeks are autoclavable and reusable. Replacing the ICPpeek is simple using the wrench included in ICP SET.

New

Suitable for use with Mectron® tips

Mectron® is a registered trade mark of Mectron s.p.a.

Xpedent tips (suitable for use with EMS® surgery machines).

The Xpedent brand belongs to a third party which has no connection with the original equipment manufacturer or ist representatives.

Xpedent tips (suitable for use with SATELEC® surgery machines).

The Xpedent brand belongs to a third party which has no connection with the original equipment manufacturer or its representatives.

Piezo1 Piezo2

BONE SURGERY



**Cortical Bone Saw.** Saw intended for cutting of cortical bone in surgical orthodontics, pre-implant surgery, and bone distraction.

E-BS1 BS1 V-BS1



**Left Cortical Bone Saw.** Left-oriented bone saw used for cutting the ramus cortical bone.

E-BS2L BS2L V-BS2L



**Right Cortical Bone Saw.** Right-oriented bone saw used for cutting the ramus cortical bone.

E-BS2R BS2R V-BS2R



**Circular Scalpel.** Circular scalpel at 130° for osteoplasty and harvesting of bone particles or chips.

E-BS4 BS4 V-BS4



**Flat Scalpel.** For fine osteotomies. All high-precision osteotomy techniques such as crest expansion, osteotomy line, distraction, approach of the vestibular bone flap in the presence of a thick cortex in sinus surgery.

E-BS5 BS5 V-BS5



**Curved Scalpel.** Effective for substantial osseous reshaping. It is used to perform osteoplasties and reshaping of the bone not assuring the tooth support. It can also be used to mark a prosthetic reference point on enamel, where osteoplasty will begin.

E-BS6 BS6 V-BS6



**Special Micro-Saw.** Osteotomy technique in maxilla and mandible, ridge expansion, corticotomy technique and bone block grafting.

E-BS6F

IMPLANTATION



**Diamond Bone Perforation.** Conical surgery tip with diamond layer for bone perforation. Recommended for pilot osteotomy in extraction sites and to check the alignment of the axis of PIN IM1 preparations.

XS-IM1 V-IM1



**Bone Perforation.** Preparation of the implant bed, especially bone perforation. Particularly effective for pilot osteotomy in the anterior and posterior (maxillary) region or to check the alignment of the axis of the preparations 2 PIN 2-2.4.

XS-IM2A V-IM2A



**Bone Perforation.** To enlarge or to finalise the implant site preparation; insert with double irrigation to avoid overheating (in the maxilla).

XS-IM3A V-IM3A

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SATELEC® is a registered trade mark of ACTEON Group



SINUS LIFTING



**Sinus Bone Window Osteotomy.** Diamond-coated tip for vestibular bone window cut and attenuation of sharp angles.

E-SL1SL1V-SL1



**Micrometric Osteoplasty.** Diamond-coated ball tip for smoothing the vestibular bone window and precise osteoplasty.

E-SL2SL2V-SL2



**Sinus Membrane Separator.** Non-cutting tip served for schneiderian membrane elevation on the window's edges.

E-SL3SL3V-SL3



**Sinus Membrane Elevator.** Non-cutting 90° angled spatula allows the sinus membrane to be lifted deep inside the sinus. Diameter of the spatula: 4mm

E-SL4SL4V-SL4



**Non-Cutting Spatula.** Non-cutting spatula used for schneiderian membrane elevation inside the sinus and for disengagement of anatomical structures.

E-SL5SL5V-SL5

EXTRACTION



**Root Osteoplasty.** Used for syndesmotomy and periradicular osteotomy.

E-LC1LC1V-LC1



**Extraction Scalpel.** Used for cutting ligaments with minimal trauma when pulling out firm and solid teeth.

E-LC1/90LC1/90V-LC1/90



**Slim Scalpel.** Slim tip, particularly slim, allows for access to the tight spaces between the root and the alveolar bone.

E-LC2LC2V-LC2



**Angled Scalpel.** Left-oriented at 45°, tip facilitates access to the posterior areas.

E-LC2LLC2LV-LC2L



**Angled Scalpel.** Right-oriented at 45°, tip facilitates access to the posterior areas.

E-LC2RLC2RV-LC2R



**Root Amputator.** Saw-tooth tip particularly efficient for hemisections and root amputations.

E-PirahnaPirahnaV-Pirahna

XPEDENT TORQUE WRENCHES & WRENCHES

TW UNI P

Universal  
Plastic Torque Wrench for use with EMS®, SATELEC® and NSK® scaler tips

TW SIR P

Plastic Torque Wrench suitable for use with SIRONA® tips

TW KAV Q

Metal torque wrench suitable for use with Kavo Sonicflex®, Piezolut® & Sonosoft® and Sonicflex quick®

TW KAV M

Metal torque wrench suitable for use with Kavo Piezoled® & Piezosoft®

TW MEC M

Metal torque wrench suitable for use with all surgical Mectron® tips

TW AMD M

Metal torque wrench suitable for use with all Amdent® tips

W ENDO

Endo Wrench

ICP WREN

ICP Wrench

KICP WREN

KICP Wrench

U-FILES (32mm)

UF-SET/32

U-Files (32mm)  
This set contains 1 piece each of UF-15/32, UF-20/32, UF-25/32 and UF-30/32.

UF-15/32

ø0.15mm  
10pieces/box

UF-20/32

ø0.2mm  
10pieces/box

UF-25/32

ø0.25mm  
10pieces/box

UF-30/32

ø0.3mm  
10pieces/box

**Attention:** Our U-Files work with the following file holders: E1, ES1, EN1, ED1, E2, ES2, EN2, ED2 and k222.

THREAD IDENTIFICATION

TC-1

EMS® - Surgery

TC-4

MECTRON® - Surgery  
KAVO PiezoLED® / PIEZOsoft®

TC-2

EMS®  
MECTRON®  
KAVO®-PIEZOlux® / SONOsoft®  
SATELEC®  
NSK®

TC-5

SATELEC® - Piezo1  
SATELEC® - Piezo2

TC-3

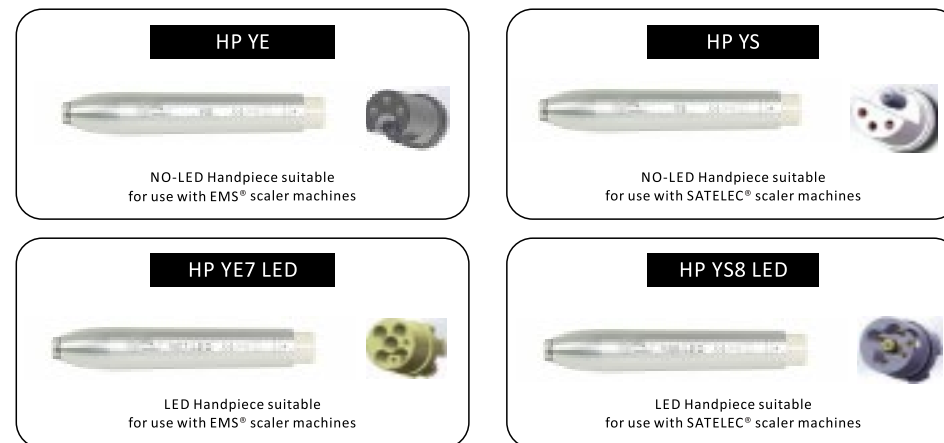
KAVO® - SONICflex®  
NSK® - Air

TC-6

SIRONA®  
AMDENT®

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EMS® is a registered trade mark of Electro Medical Systems SA  
SATELEC® is a registered trade mark of ACTEON Group  
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Kavo® is a registered trade mark of KAVO Dental Corporation  
NSK® is a registered trade mark of Nakanishi INC. Corporation  
Sonicflex®, Piezolut® & Sonosoft®, Piezoled® & Piezosoft®, Sonicflex quick® are registered trade marks of the company KAVO DENTAL GMBH

## XPEDENT SCALER HANDPIECES



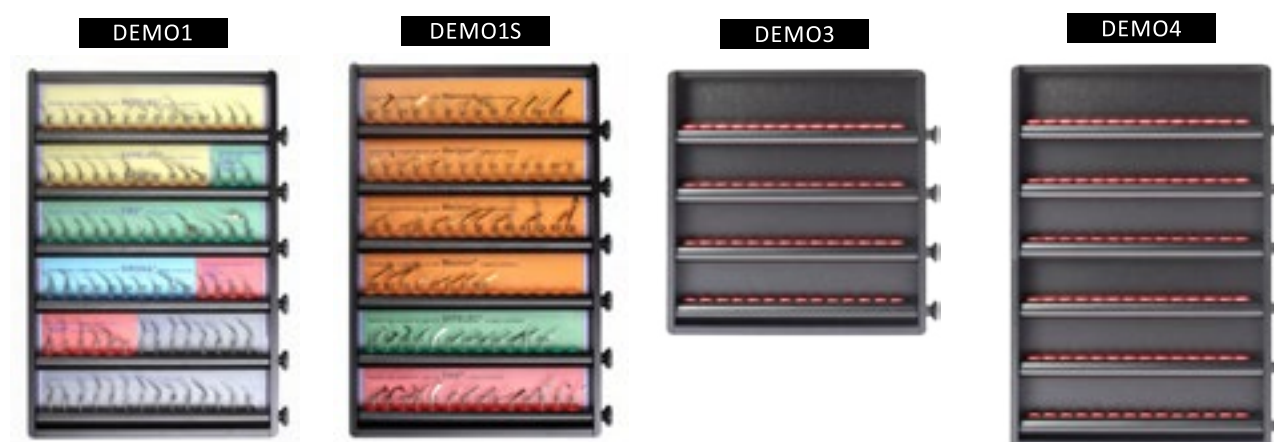
Xpedent handpieces are manufactured from aluminium, they are therefore able to withstand autoclaving without the exterior cracking problems often associated with plastic handpieces. They are suitable for use with EMS® and SATELEC® machines. LED handpieces have a different connection from non-LED.

EMS® is a registered trade mark of Electro Medical Systems SA  
SATELEC® is a registered trade mark of ACTEON Group

## AUTOCLAVABLE TIP HOLDERS



## TIP WALLETS



The tip wallets are made from black anodised aluminium. They are designed to show our tip range to best advantage. The standard wallets DEMO1 and DEMO1S contains our recommended range. Wallets can be customised for ODM or OEM use. They are recommended for both use at dental shows and by travelling sales staff.



## XP PRO BLUE

Rotary files

### Inactive Tip

Advanced tip process to avoid forming steps and iatrogenic complications;  
Suitable for curved canals

### Top Precision Auto Manufacturing

Canal shaping and cleaning

### Rubber Stopper

Be convenient to mark the place of the canal length and to identify the direction of file bending

CM wire Niti material

180% flexibility increased

Sharpness improved

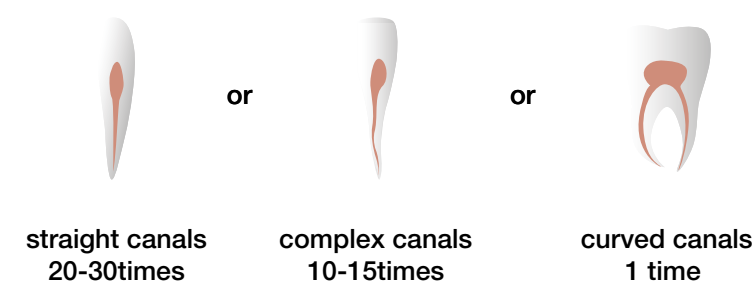
Longer service life

Superior resistance to cyclic fatigue



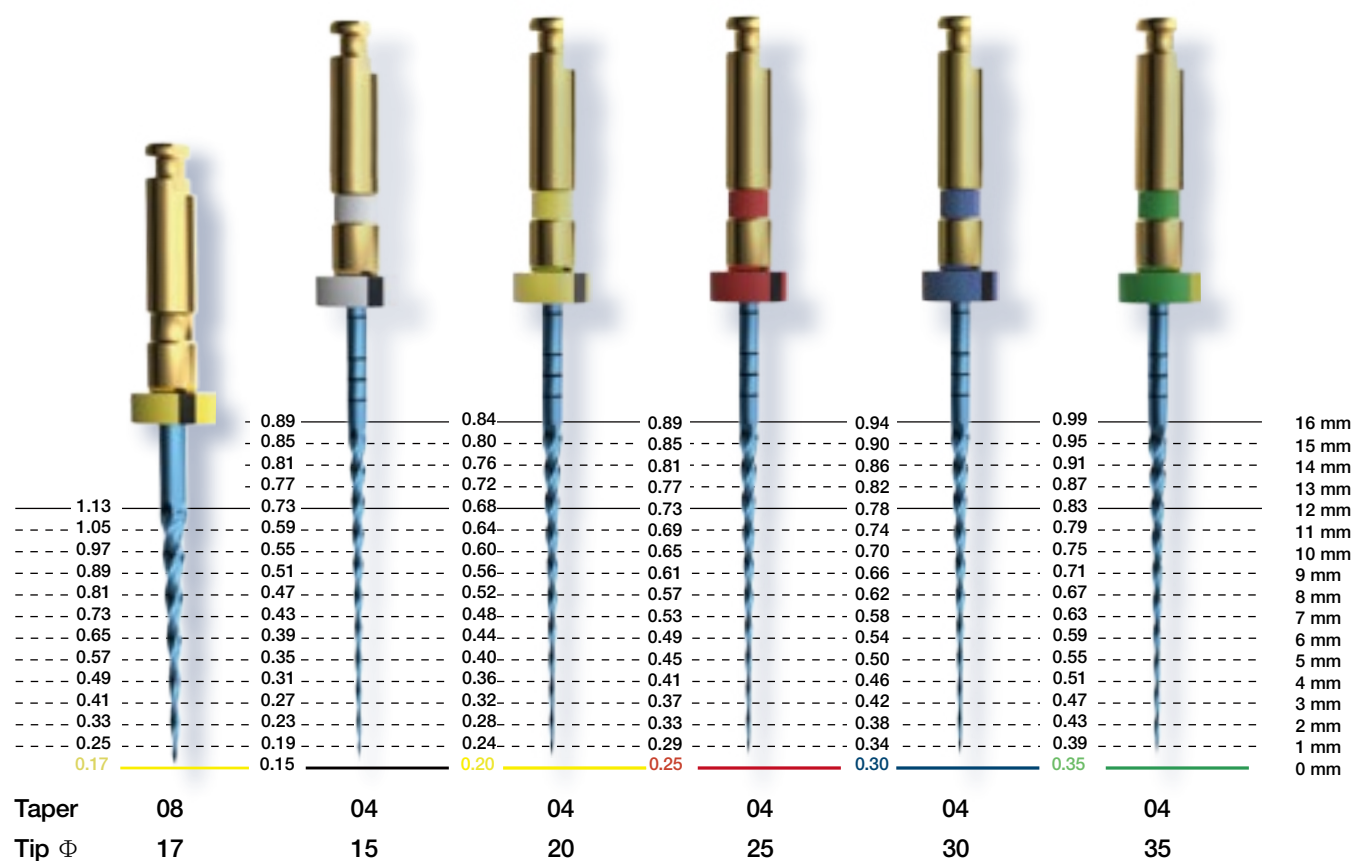
90%



















Root canal treatment



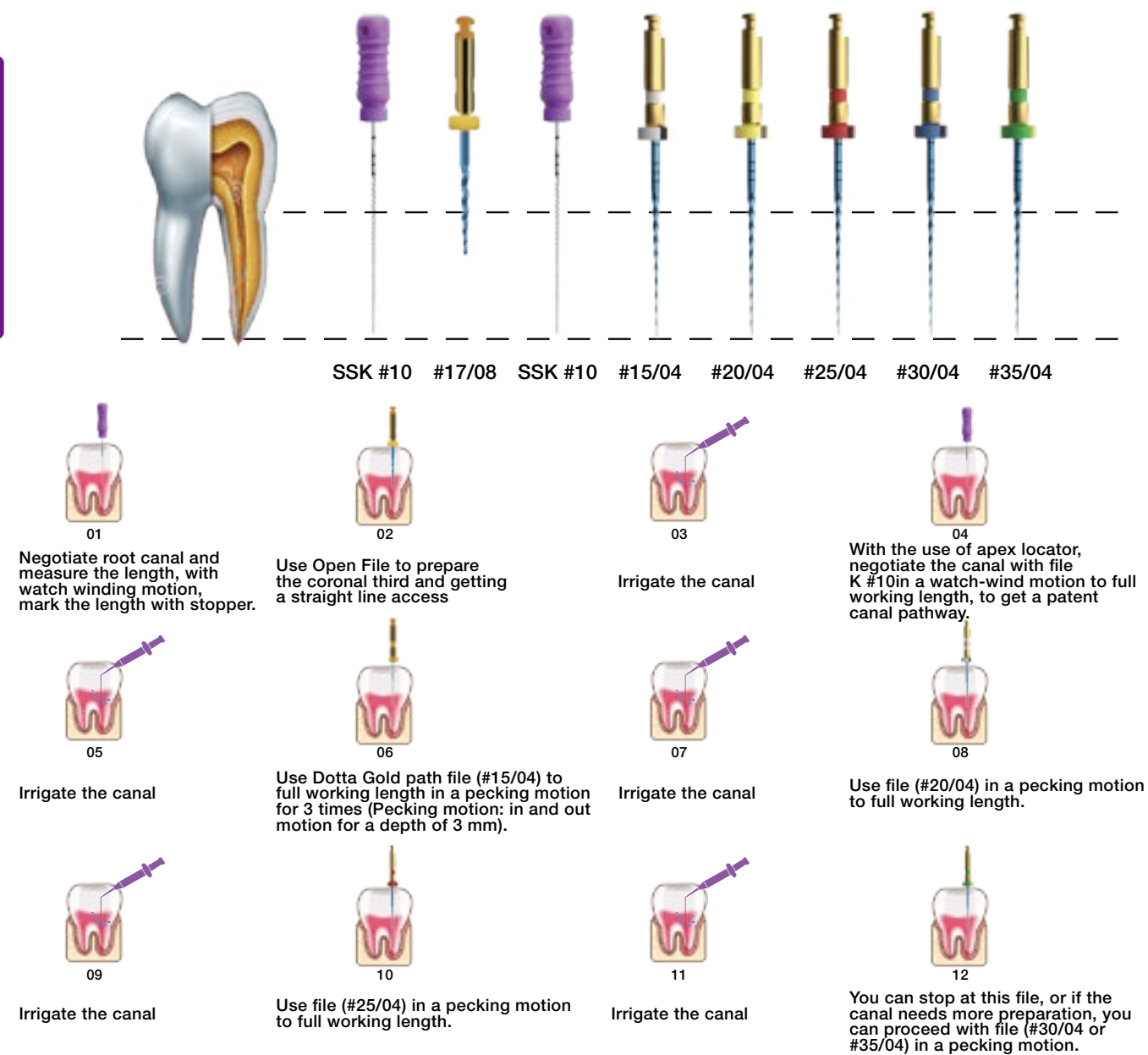


## Basic Sequence



	Color	Tip Size	Taper (%)	Taper Indicator	Cross-Section	Length (mm)	Suggested Speed/ Torque
XP PRO BLUE		17	8			19	350 rpm 2 N-cm
		15	4			21/25/31	
		20	4				
		25	4				
		30	4				
		35	4				

## Guide diagram



## Products Code

	17/08	15/04	20/04	25/04	30/04	35/04
ISO color	●	○	●	●	●	●
Taper	8%	4%	4%	4%	4%	4%
Tip Size	#17	#15	#20	#25	#30	#35
Speed	300	350	350	350	350	350
Torque	3	1.5	2	1.5	2	1.5
21mm	DB170821	DB150421	DB200421	DB250421	DB300421	DB350421
25mm	DB170825	DB150425	DB200425	DB250425	DB300425	DB350425
31mm	DB170831	DB150431	DB200431	DB250431	DB300431	DB350431



# Gutta Percha Points

CE 1639

## FEATURE & BENEFIT

### Various tapers & sizes

It is applicable to various shapes of root canals

### Length marked

Checking working length is available as a supportive option

### Suitable with various technics

CWC, lateral, One cone

### Excellent radiopacity

### Long shelf life: 4 years

## LENGTH MARKED



## APPLICATION

Permanent root canal filling

## SIZE & SPECIFICATION

- 02 Taper 8~140
- 04,06 Taper 15~80
- 08 Taper 15~40
- Non Standard
  - Non-Standard XF, FF, MF, F, FM, M, ML, L, XL
  - Japanese Type JF-S, JF-M, JF-L, JS, JM, JL, JL-M, JX-L
  - DE Trey Type XX-F, X-F, Fine, Medium
  - Protaper Size (F1 - F5)

## ORDER INFORMATION

Size	Taper(Point)			
	02 (120)	04 (60)	06 (60)	08 (60)
8	•			
10	•			
15	•	•	•	•
20	•	•	•	•
25	•	•	•	•
30	•	•	•	•
35	•	•	•	•
40	•	•	•	•
45	•	•	•	
50	•	•	•	
55	•	•	•	
60	•	•	•	
70	•	•	•	
80	•	•	•	
90	•			
100	•			
110	•			
120	•			
130	•			
140	•			





# Absorbent Paper Points

Sterilized Absorbent Paper Points



## FEATURE & BENEFIT

### Various tapers & sizes

It is applicable to various shapes of root canals

### Length marked

Checking working length is available as a supportive option

### Suitable with various technics

CWC, lateral, One cone

### Excellent radiopacity

### Long shelf life: 4 years

## APPLICATION

Drying root canals before obturation  
Cleaning root canals

## LENGTH MARKED



## SIZE & SPECIFICATION

- 02 Taper 8~140
- 04,06 Taper 15~80
- 08 Taper 15~40
- Non Standard
  - Non-Standard XX-Fine, X-Fine, Fine, MediumCoarse, X-Coarse
  - Protaper Size F1-F5

## ORDER INFORMATION

Size	Taper(Point)			
	02 (120)	04 (60)	06 (60)	08 (60)
8	•			
10	•			
15	•	•	•	•
20	•	•	•	•
25	•	•	•	•
30	•	•	•	•
35	•	•	•	•
40	•	•	•	•
45	•	•	•	
50	•	•	•	
55	•	•	•	
60	•	•	•	
70	•	•	•	
80	•	•	•	
90	•			
100	•			
110	•			
120	•			
130	•			
140	•			



### Follow up



xpedent\_international



Xpedent International



Xpedent



jenny@xpedent.com

**[www.xpedent-intl.com](http://www.xpedent-intl.com)**



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BN3 7GA  
England 06128867



#### **Sales Office**

##### **Xpedent Austria GmbH**

Millennium Park 9  
6890 Lustenau  
Austria



#### **Manufacturer**

##### **Guilin Yikeshi Medical Instrument Co., Ltd**

D08 Building, High Tech  
Industrial Park, Chaoyang  
Road Qixing District Guilin,  
541004 China