WOODPECKER
PRODUCT CATALOGUE

BEYOND THE BOUND OF
DENTAL SUPPLIES

24

CONTENTS
PRODUCT CATALOGUE

1 ROTARY MOTORS

1. ENDO GOLD
2. ENDO PACE

ENDOGOLD

SPEED
100 rpm to
1000 rpm

CUSTOMIZE
Up to 9 Modes

TORQUE
Up to 5 N/cm

ALL-ANGLE
O-LED screen

WIRELESS
Hand piece

FILE BREAKAGE
Preventing

ENDOPACE

BRUSHLESS
Endo Motor

CAN BE
CONNECTED
To Apex Loctaor

AUTO APICAL
1. Reverse/Stop
2. Slow down
3. Auto start/stop

SPEED
100 rpm to
1500 rpm

6:1
MINI CONTRA
ANGLE

TORQUE
0.4 N/cm to
4.2 N/cm

CUSTOMISED
RECIPROCATING
ANGLE

ATR
MODE

CUSTOMIZE
MODE
Up to 9 Modes

ROTATABLE
Contra angle

2
APEX LOCATORS

1. APEX BLUE
2. APEX GOLD PLUS III
3. APEX GOLD V
4. AI-PEX

APEX BLUE

ACCURACY
97%

BATTERY
750 mA

HD
SCREEN

EDITION
4th Generation

APEX GOLD III

DUAL
FUNCTION

ACCURACY
97%

BATTERY
750 mA

HD
SCREEN

EDITION 4
6th Generation

APEX GOLD V

DUAL FUNCTION

ELIMINATE INTERFERENCE by Data Processing (DSP)

ACCURACY 97%

BATTERY 750 mA

HD SCREEN

EDITION 5 6th Generation

AI PEX

ROTATABLE
Hence

MAGNETIC
Adsorpion

CONNECT
Tp Endo Motor

APEX LOCATOR
With Pulp Tester

ANTI-INTERFIERENCE
Multi frequency and
DSP technology

SOUND
Recognition

LCD TOUCH
3.8 inch screen

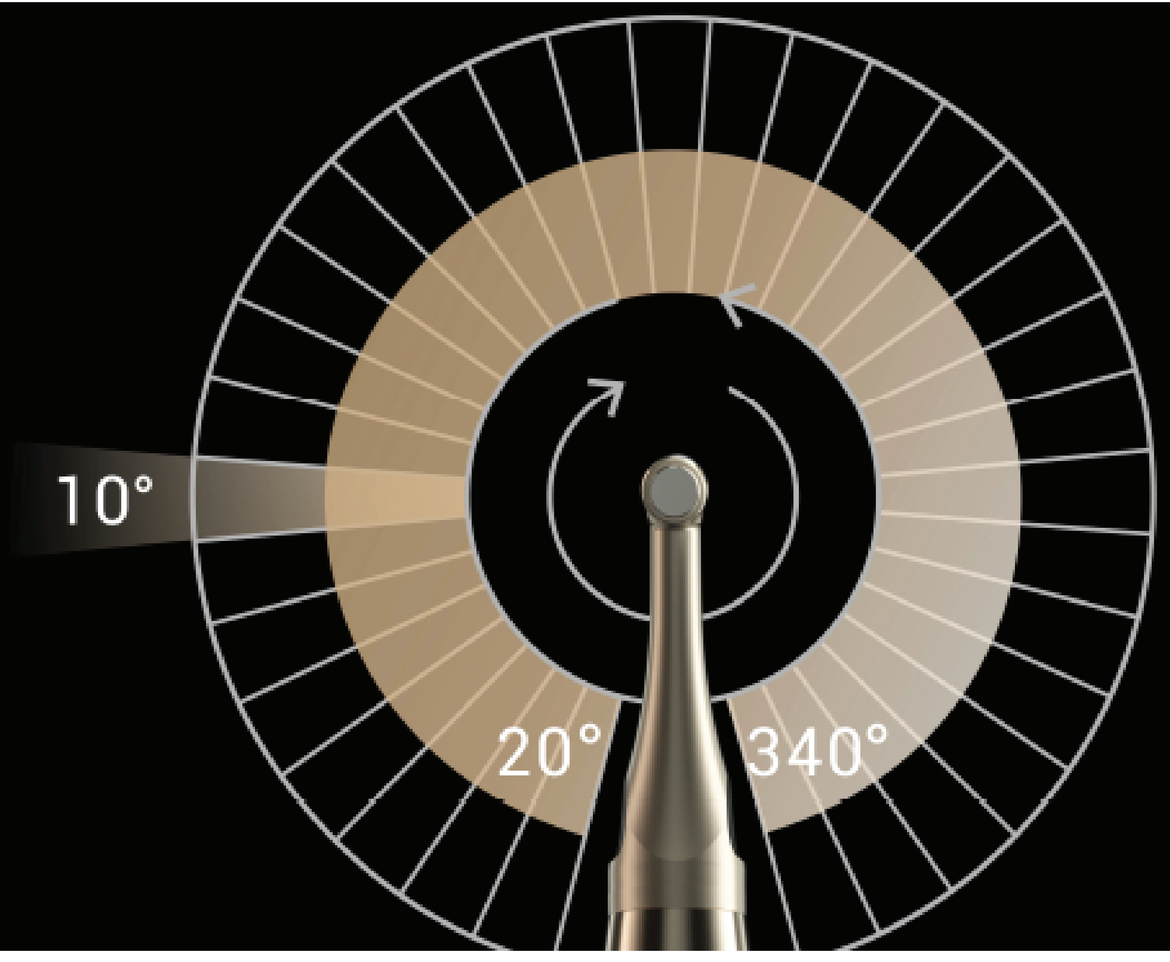
BATTERY
3.7V / 2000mAh

U.S CHIP
with DSP processing
module

AUTO
calibration after
startup

3 DUAL FUNCTION MOTOR

1. MOTOPEX
2. AI MOTOR
3. YOSHI AI MOTOR



MOTOPEX

APICAL SLOW DOWN & Auto Reverse

SILENT Endo Motor

ROTATABLE Contra angle

MINI HEAD 6:1

LONG LIFE More Durable

AUTO Start / Stop

LITHIUM BATTERY 2000 mAh

1st BRUSHLESS Endo Motor

BUILT IN Apex Locator

AI MOTOR

AUTO Start / Stop

MINI HEAD 6:1

BRUSHLESS Endo Motor

SILENT Endo Motor

LONG LIFE More Durable

ROTATABLE Contra angle

WIRELESS Charging

APICAL SLOW DOWN & Auto Reverse

LITHIUM BATTERY 2000 mAh

BUILT IN Apex Locator

YOSHI
AI-MOTOR

SPEED
100 rpm to
2500 rpm

LITHIUM BATTERY
2000 mAh

BYPASS
Safe ledge

BRUSHLESS
Endo Motor

WIRELESS
Charging

360°
ROTATABLE
Contra angle

CUSTOMIZED
20 - 400 Degrees
with interval 10 Degrees

BUILT IN
Apex Locator

MINI
HEAD

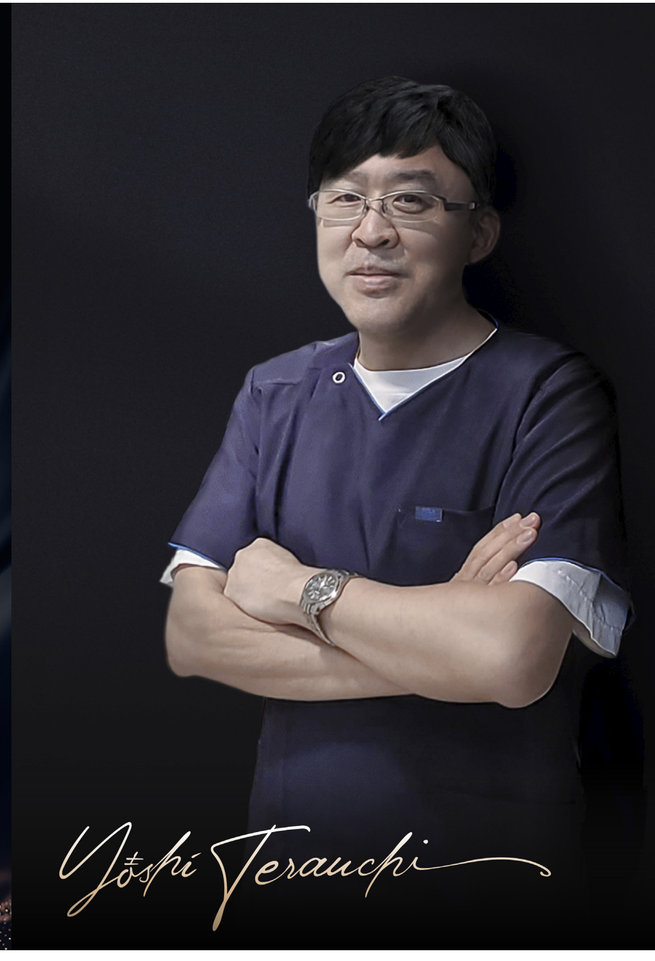
LONG LIFE
More Durable

SILENT
Endo Motor

CONTRA ANGLE
6:1

"Comes With Two Contra Angles"

Special Contra angle helps in vertical strokes



4 OBTURATION SYSTEM

1. FI-G & FI-P

OBTURATION GUN & PEN

NEWEST VERSION

HEATING TIME
GUN 15 SECONDS
PEN 0.2 SECONDS

4 WORKING TEMPERATURES

EASY TO CLEAN

PANASONIC BATTERY

0.35 PRE-BEND TIP

HIGH PRECISION TEMPERATURE CONTROL

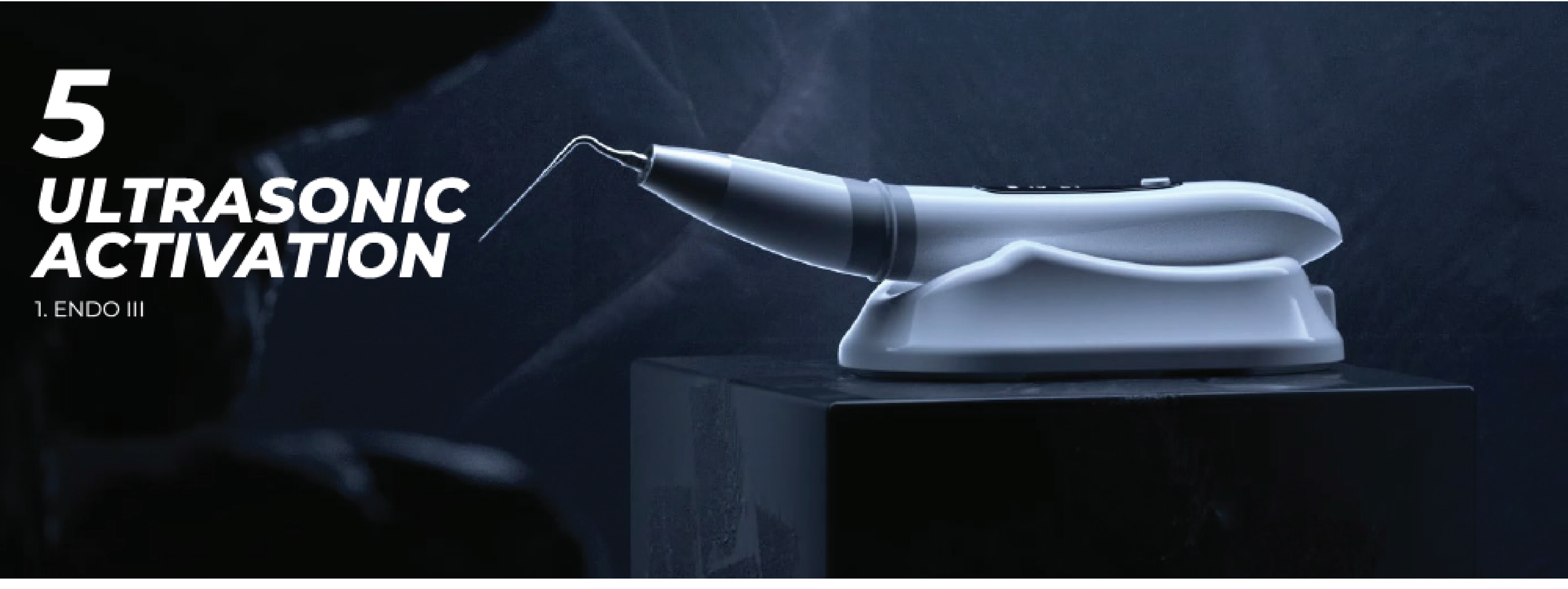
ENHANCED METAL PUSHER

4 HOURS OF ENDURANCE

ROTATABLE INJECTION NEEDLE

5 ULTRASONIC ACTIVATION

1. ENDO III



ENDO III

DUAL-MODE SETTINGS
Hot Standby
Irrigation Mode

THREE POWER LEVELS

LCD SCREEN
+Ring Switch
Button

FOUR TIME MODES

WIRELESS CONTROL

6 ULTRASONIC SCALERS

1. K-LED
2. A-LED & P-LED
3. E-LED
4. U6
5. U600

UDS K-LED

LED

PERIO MODE

HANDPIECE Autoclavable at 134 C

5 SCALING TIPS Included

FREQUENCY 29,000Hz

UDS A-LED

LED

PERIO MODE & ENDO MODES

HANDPIECE Autoclavable at 134 C

5 SCALING TIPS + 1 activation of irrigation tip

FREQUENCY 29,000Hz

UDS P-LED

MODE
PERIO MODE & ENDO MODES

LED

HANDPIECE Autoclavable at 134 C

5 SCALING TIPS + 1 activation of irrigation tip

FREQUENCY 29,000Hz

UDS E-LED
PORTABLE SCALER

LED

MODE
PERIO MODE & ENDO MODES

HANDPIECE Autoclavable at 134 C

5 SCALING TIPS + 1 activation of irrigation tip

FREQUENCY 29,000Hz

U6

CERAMIC SHELL
of Handpiece

MODES
Scaling, Perio, Endo

5 SCALING TIPS
+ 1 Irrigation tip included

FREQUENCY
30,000 Hz

LED

AUTOMSTIC
ADJUST POWER
SMART and intelligent

ULTRASENSETIVE
Water proof touch

INTELLIGENT
DEGENERATIVE
Feedback

FUNCTIONS
Implant maintenance
and Cavity preparation

AMPLITUDE TIP
20 - 90um
No pain

U600

THE **MONSTER** *OF ALL* **SCALERS**

IMPLANT MAINTENENCE, CAVITY PREPARATION
AND MINIMAL DAMNIFICATION

WATER BOTTLES
700 ml

AMPLITUDE TIP
20 - 90um
No pain

ULTRASENSETIVE
Water proof touch

TECHNOLOGY
OF THE SINE WAVE

AUTOMATIC
ADJUST POWER
Intelligent Degenerative
Feedback

CERAMIC SHELL
For led handpiece

FREQUENCY
30,000 Hz

TIP ACCESSORIES
2 Scaling tips, 3 Perio
tips, 2 Endo tips

TIPS: CROWN & POST REMOVAL

G7
Crown Removal.

G8
Post Removal.

TIPS: PERIO (P)

P1
Removal of subgingival deposits.

TIPS: VENEERS PREPARATION

G33
Veneer preparation - diamond coated

TIPS: SCALING (G)

G1

Removal of supragingival deposits in all quadrants.

G3

Removal of supragingival deposits in all quadrants, including the interproximal and sulcus areas.

G5

Removal of gross supragingival deposits

G6

Removal of gross supragingival deposits - Flat end tip

TIPS: CAVITY PREPARATION

SBR

Removal of caries from left to right 45 degrees - diamond coated

SB1

Removal of caries on occlusal surface and dental neck - diamond coated (85µ)

G20

Preparation of supragingival shoulder - diamond coated (120µm grit)

G21

Preparation of supragingival & subgingival shoulders - diamond coated

TIPS: ENDODONTICS (E)

E1
120 degree U-file holder

E2
95 degree U-file holder

E3
Melting gutta-percha

E3D
Enlarging root canal

E4
Remove fillings in Retreatment (22mm)

E4D
Remove fillings in Retreatment (legnth of diamond-coated is 15mm).

E5
Remove fillings in Retreatment (16mm).

E5D
Remove fillings in Retreatment (legnth of diamond-coated is 10mm).

E6
Broken file removal (in apical third).

E8
Dental bur holder.

E10

Polish root canal (Retrograde prep.) legnth of slender tip is 4.5mm.

E10D

Polish root canal (Retrograde prep.) legnth of diamond tip is 3.3mm

E11

Polish root canal (Retrograde prep.) legnth of slender tip is 3.5mm.

E11D

Polish root canal (Retrograde prep.) legnth of diamond tip is 2.2mm.

E14

Broken file removal (legnth of slender tip is 22mm).

E14D

For the retreatment and removal of hard material with irrigation.

E15

Used to remove root canal fillings and broken instruments in the coronal third with irrigation.

E15D

Remove fillings in Retreatment (legnth of diamond-coated is 10mm)

E60

Irrigation

E62

Irrigation

E70

E71

Smoth tip 30#, 4.2% Taper, 18mm

E72

Smoth tip 30#, 3.6% Taper, 21mm

E74

Smoth tip 25#, 3.3% Taper, 21mm

E87 (katana S)

Extremely sharp cone-shaped tip: 0.1 mm diameter tip with %1 taper - can

E88 (katana V)

Create 90˚ semicircular grooved space - can be precurved.

E89 (katana H)

Create 90˚ semicircular grooved space - can be precurved.

7 LIGHT CURES

1. RTA
2. LED-D
3. LED-F
4. I-LED
5. I-LED MAX
6. I-LED II

RTA

The most ECONOMIC
LIGHT CURE *in the market.*

POWER
900 TO 1000 watts

LED-D

FULL CHARGE
Can be Used
Over 400 Times

THREE MODES
Full, Ramping,
Puls

BATTERY
Replaceable

LED-F

BUILT IN
Fan that
reduces heat

AUTOMATIC
Memory to avoid
setting frequently

ECONOMIC DESIGN
Comfortable

THREE MODES
Low, Normal,
High

LIGHT METER
Attached

I-LED

"Curing 2 mm
Resin in 1 sec"

Suitable for ***Ortho brackets,***
Porcelain veneers
& **Post-core adhesives.**

TWO MODES
Normal, High with max
light intensity of
2300 mw/cm²

KMC

I-LED MAX

MORE FOCUS
Light output

LIGHT ANGLE
Reduced
by 55%

360°
CURING

TURBO
Mode up to
2300 mw/cm²

LIGHT CURES

I-LED II

WIDE SPECTRUM
Upgraded

MODE
THREE MODES
Normal, High, Turbo

INTENSITY
Up tp 3000 mw/cm²

LIGHT INTENSITY
High

MORE FOCUS
Light output

METAL TIP
with lense Diameter
10 mm wide

Comes with ***MAGNETIC*** point cure lens
for veneers cementation

8

HIGHSPEED CONTRA-ANGLES

1. ANTEAUS
2.KINGKONG

(GERMAN - JAPANESE)

ANTEAUS

CUTTING FORCE 94.6 %

TORQUE Up to 7.5 gf.cm

KINGKONG

(GERMAN - JAPANESE)

ANTI-DROP CONTA-ANGLE Up to 1 m distance

PUSH BUTTON CONTRA-ANGLE

9 LASER

1. LX 16 PLUS

KMC

LASER

LX 16 PLUS

WIRELESS
Foot control

TOUCH SCREEN
5 inch Full view

SOFTWARE
Soft (25 programs)
(12 customized memory)

COMES WITH:

(Fiber optical tips / whitening tip / TMJ therapy tip / Biostimulation tip / 3 laser protective glasses)

Effectively prevention of cross-infection (The fiber-optical tips and stainless handpiece sleeve can be autoclaved).

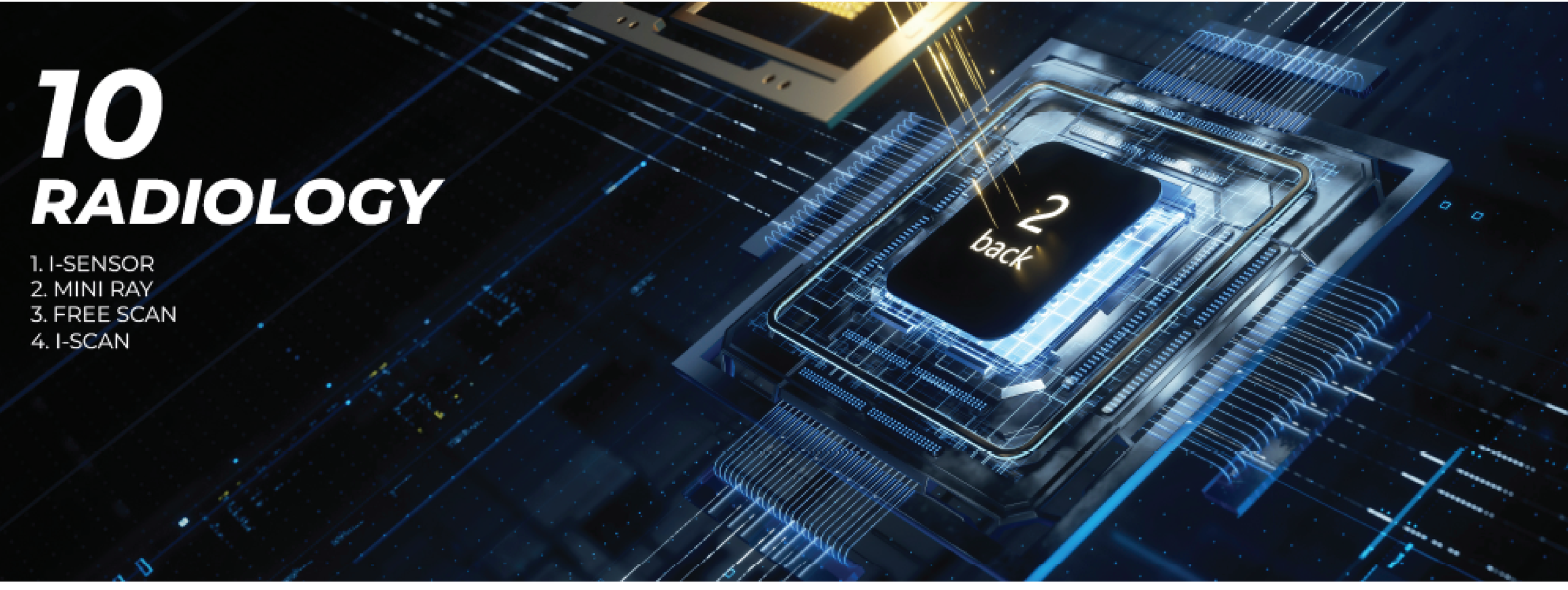
BATTERY
2600 mAh x2
(for one week on single charge)

WAVE LENGTHS &
OPTICAL POWER
450 nm / Pmax = 3W
650 nm / Pmax = 200W
976 nm / Pmax = 5W

HANDLE
Metal for flexible movement

10 RADIOLOGY

1. I-SENSOR
2. MINI RAY
3. FREE SCAN
4. I-SCAN



I- SENSOR

THIN SENSOR
Can be immersed
in disnfectant

WATER AND
DUST PROOF
Rated at IP68

SUBTLE
ROOTAPEX
Bifuracation can
be found

BENDING TESTS
+80000 (Durable
and reliable)

ERGONOMICALLY
OPTIMIZED
Cut corners

APS CMOS
TECHNOLOGY
High resolution

AVOID CROSS
INFECTION
4.5mm

THE ORETICAL
RESOLUTION
25 LP/MM

SIZES
1.5 ,1 Golden size
and 2

FACILITATING
DATA SHARING
Connect with
many clients

MINI RAY

WEIGHT
2.2 Kg

DIGITAL SCREEN
2.8 HD with
sensetive buttons

RADIATION
LEAKAGE
<0.05mGy/h

140W OUTPUT
POWER

LITHIUM BATTERY
2500mAH *3s

USA CHIP
High frequency

EXPOSURE TIMES
60,000 +

RADIATION
PROTECTION
Double

70 Kv
VOLTAGE TUBE
For x-ray
penetration

2mA TUBE
CURRENT
For millisecond
level exposure

FREE SCAN

IMAGING PLATES
Ultrathin

COMPACT SIZE
0.046 m~

ACCURATE SCAN
25 μm

AUTO LOCK
120 seconds

MULTI MODE

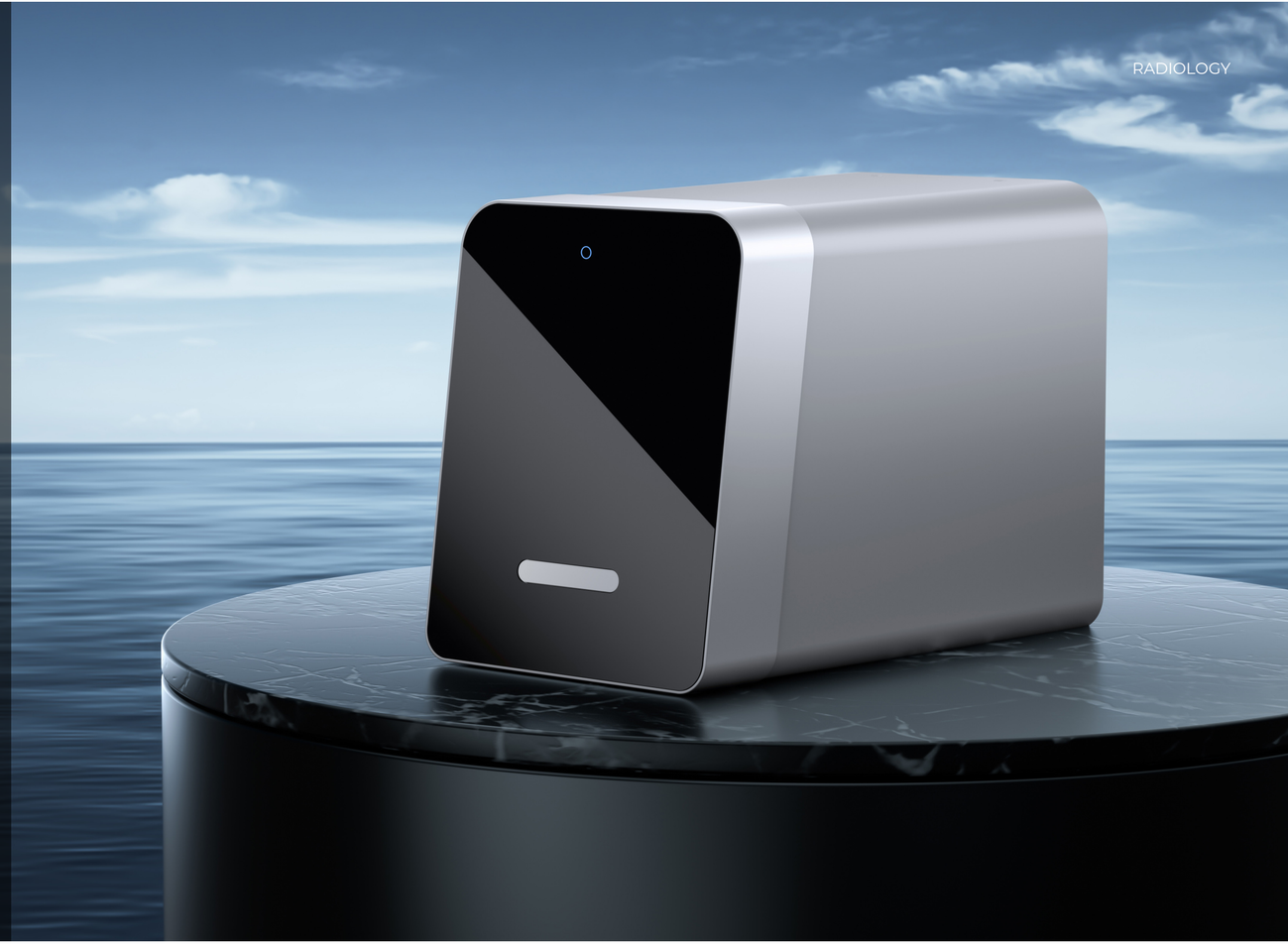
ACCURATE SCAN
25 μm

FPGA CHIP
Accelerates data

INTELLIGENT
REAL TIME DOSE
ANALYSIS

EASY TO USE
One button
start scanning

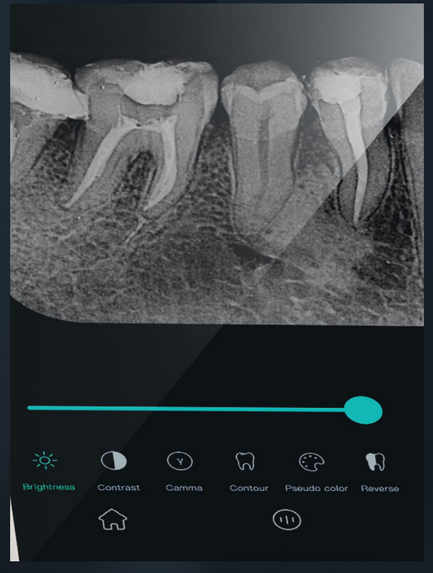
GREYSCALE
DETAIL
17 LP/MM + 65535



KMC

RADIOLOGY

I- SCAN



POWERFUL SOFTWARE One click installation

POWERFUL ALGORITHM

SCAN AND SEE

0.4 mm iMAGING PLATE Softer

HIGH RESOLUTION captive Touch screen 7 inch 800*1280

POWERFUL PROCESSING 8 core CPU

PLATE Ultra thin and flexible

TAKES NO SPACE Softer Covering 0.13m

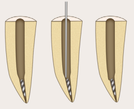
EASY VIEWING Ultimate terminal viewing

8 FILES

1. Broken File Removal kits: (BFRT)
2. Terauchi file removal kit (TFRK)

KMC

How To Use ›››



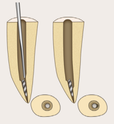
Step 1 Canal enlargement to the broken file and flaring of the canal

Use the No.3 Gates Glidden bur to enlarge the canal to the broken file and brush it against the outer wall to flare the canal when the canal curvature is less than 15 degrees.
Use the No. 60/.02 taper NiTi file to enlarge the canal to the broken file and brush it against the outer wall to flare the canal when the canal curvature is greater than 15 degrees.

Step 2 Creating a 90-degree semicircular space

Use **ED88 (Katana-H)** and **ED89 (Katana-V)** to create thin space between the inner wall and the broken file. Direct the flat surface of the tip to the broken file from the inner wall and activate ultrasonics as it is placed in the space. The depth of the space should be at least one third of the length of the broken file. When the curvature is greater than 30 degrees, a drop of medical-grade silicone oil is placed in the canal to facilitate lubrication and loosening of the broken file. The depth of the space on this condition should be at least half the length of the broken file.

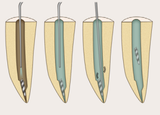
*Note: Activate ultrasonics as the tip is placed in the space for half a second, and deactivate ultrasonics as the tip is withdrawn from the space. Use the power setting as low as practical and increase the power only when it is not cutting any dentin. This procedure is crucial to prevent the secondary fracture of the broken file and breakage of the tip.



Step 3 Extending the peripheral space from 90 degrees up to 180 degrees

Use **ED87 (TFRK-S)** to extend the 90-degree semicircular space to 180 degrees until the broken file is seen "dancing" (moving from the original space to another) under magnification. In clinical practice, the tip is used in pecking and pulsing motions to prevent the accident. Do not press the tip against the canal and activate ultrasonics because the tip will break due to cyclic fatigue. In order to laterally extend the space, the tip must be used in an up/down motion to cut dentin, not sideways.

*Note: A longer/larger broken file requires a more preparation time. If the broken file is seen moving to another place and returning to the original place, the preparation is not considered done and needs to continue until it is seen "dancing".



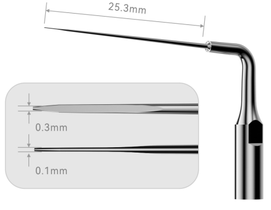
Step 4

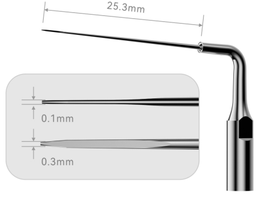
After preparation is completed, use **the ultrasonic tip used when the broken file was made to "dance"** to make ultrasonic removal attempts. First, 17% EDTA is filled in the canal when the canal curvature is 30 degrees or less than 30 degrees, or vegetable oil such as soybean oil when the canal curvature is greater than 30 degrees. Place the ultrasonic tip into the space created on the inner wall and activate ultrasonics in a short vertical stroke within the prepared space until it is seen coming out of the canal.

ED87 TFRK-S

The tip is characterized by an extremely sharp cone-shaped head: 0.1 mm diameter and 0.01 taper. (can be pre-curved according to the degrees of the root canal curvature)

- Feature1: Extend the grooved space until the broken file is seen dancing after the creation of the 90-degree semicircular space on the inner wall with either Katana-V or Katana-H
- Feature 2: Remove the broken file
- Feature 3: Create a thin space for the introduction of the hand gutta-percha removal instrument and remove gutta-percha root filling





ED88 Katana-V

ED89 Katana-H

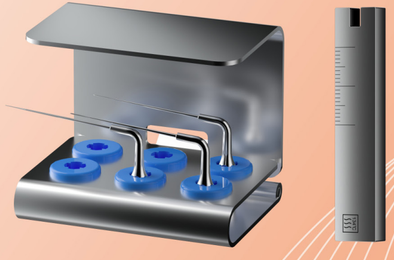
The ultrasonic tips are designed with an extremely thin sword-shaped head. Activate ultrasonics with the flat surface directed to the broken file from the inner wall of the canal (can be pre-curved according to the degrees of the root canal curvature)

- Feature: Create a 90-degree semicircular grooved space

Please use the minimum power level in the Endo Mode of the ultrasonic scaler

Broken File Removal Tips × Dr. Yoshi Terauchi

RETRIEVAL WITH EASE

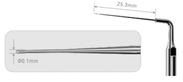


Yoshi Terauchi

TFRK-Straight (TFRK-S or E87)

TFRK-S is characterized by an extremely sharp cone-shaped tip: 0.1 mm diameter tip with 1% taper that can be pre-curved to be adapted to the canal curvature.

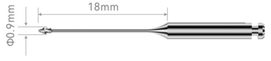
- Feature 1: Extend the grooved space to a 180°semicircular ditch until the broken file is seen dancing after the 90° semicircular space created on the inner wall with the Katana V/H.
- Feature 2: Remove the broken file
- Feature 3: Create a thin space between the canal wall and gutta-percha root fillings for the introduction of the TFRK-GPR
- Feature 4: Remove necrotic pulp tissues and debris from an isthmus or a thin space



TFRK-S (E87)

Modified Gates Glidden Drill #3 (MGG #3)

The pilot tip of the Gate Glidden Drill #3 is cut off so that the root canal to the broken file can be enlarged to at least 0.45 mm as the tip diameter of the MGG #3 is 0.45 mm. It is used at 2500 rpm clockwise with a brushing motion against the outer wall to create a funnel shape.



Brownie Polishing Point (TFRK-P)

A silicone rubber-based tool used with a straight handpiece. It is designed for sharpening ultrasonic tips to the desired shape and can also be used for polishing to enhance sharpness.

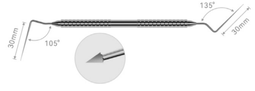
TFRK-Straight (TFRK-S or E87)

TFRK-S is characterized by an extremely sharp cone-shaped tip: 0.1 mm diameter tip with 1% taper that can be pre-curved to be adapted to the canal curvature.

- Feature 1: Extend the grooved space to a 180°semicircular ditch until the broken file is seen dancing after the 90° semicircular space created on the inner wall with the Katana V/H.
- Feature 2: Remove the broken file
- Feature 3: Create a thin space between the canal wall and gutta-percha root fillings for the introduction of the TFRK-GPR
- Feature 4: Remove necrotic pulp tissues and debris from an isthmus or a thin space

TFRK-Gutta-Percha Removal Hand Instrument (TFRK-GPR)

Made of stainless steel, 4% taper
Can be pre-curved to fit the canal curvature
With delta cones (max. diameter: 0.35mm) on both end
Used for the removal of filling material remnants and for the removal of necrotic pulp tissues or debris in a narrow space. Smaller size pyramidal tip can make it very easy to scrape gutta-percha root fillings from the canal wall.



TFRK-Micro-Trephine bur (TFRK-MT)

Inner diameter of the MT is Φ0.5mm whereas the outer diameter of the MT is 0.8 mm.
TFRK-MT can be used when the canal curvature is <15°and the coronal diameter of the broken file is 0.45 mm. The inner depth of the MT is 1 mm to expose a 1 mm-portion of the broken file. Spin the MT at 600 rpm counterclockwise in a short in/out motion to expose the coronal 1 mm-portion of the broken file after the canal enlargement with the MGG #3 rotating at 2500 rpm to the broken file. If the canal curvature is >15°, a size # 60/02 taper flexible NiTi rotary file should be used to enlarge the canal to the broken file.

TFRK-Micro-Explorer (TFRK-ME)

Made of stainless steel, a sharp 0.1mm-tip-diameter explorer, double ended, 6% taper, smooth-surfaced.The TFRK-ME has extremely fine spear-shaped tips with a smooth surface for bypassing ledged canals and exploring the canal for broken files or other impediments. This instrument can be bent to meet the canal curvature so that the TFRK tips can be precurved the same way as it is before use. When there is a ledge formed coronal to the separated file in the canal, the TFRK-ME can be used to locate the original canal and the ledge can be reduced by using it with several push-pull strokes.

TFRK-Katana Vertical (TFRK-Katana V or E88)
TFRK- KatanaHorizontal (TFRK-Katana H or E89)

TFRK-Katana V/H is designed with an extremely thin sword-shaped tip to create a 90-degree semicircular ditch on the inner wall of the broken file. They can be pre-curved to be adapted to the canal curvature. Activate ultrasonics with the flat surface directed to the broken file from the inner wall of the canal.

- Feature: Create a 90°semicircular grooved space

TFRK-Katana V (E88) TFRK-Katana H (E89)

TFRK-Loop (TFRK-L: Yoshi Loop)

Used to retrieve the broken file after loosening it in preparation with ultrasonics when the broken file is longer than 4.5 mm or the broken file did not come out with ultrasonics in 10 seconds at removal attempts. The loop size is adjusted to the diameter of the broken file with an endodontic explorer and bent to 45 degrees to facilitate the placement of the loop over the broken file. The loop cannula is replaceable. The damaged loop can be quickly and easily replaced with a new loop. There are two sizes of the loop wire: 0.12 mm and 0.08 mm, suitable for different clinical situations with varying root canal diameters and resistance.
The maximum diameter of the microtube holding the loop is 0.5 mm and it has a 23 mm length. The microtube can be pre-curved to facilitate its placement into the root canal.

Martensitic-phased NiTi Rotary Instrument
K-Endo (K6 N60 2% L25)

60%, 2% taper, NiTi file in the martensitic phase at 37℃
If the coronal diameter of the broken file is >0.45 mm or the canal curvature is >15°, use this rotary instrument to enlarge the canal to the broken file at 500 rpm counterclockwise.

12 PIEZO SURGERY

1. ULTRA SURGERY
2. SURGIC TOUCH

ULTRA SURGERY

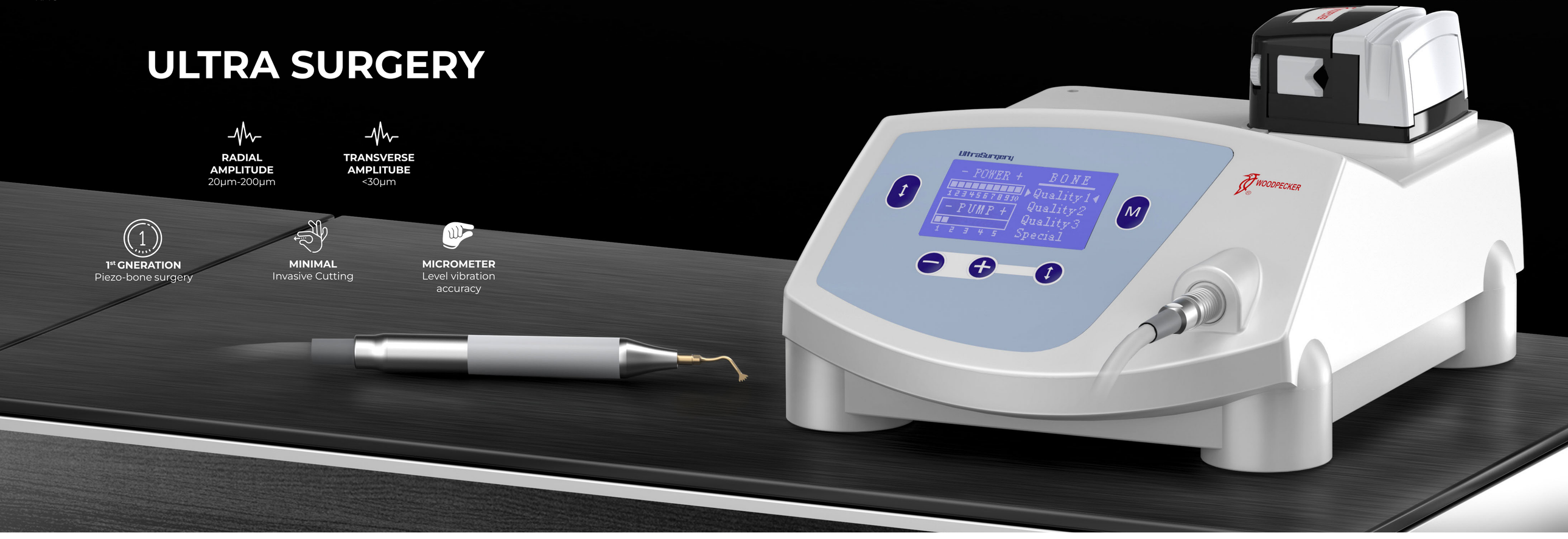
RADIAL AMPLITUDE
20μm-200μm

TRANSVERSE AMPLITUBE
<30μm

1st GNERATION
Piezo-bone surgery

MINIMAL
Invasive Cutting

MICROMETER
Level vibration accuracy



KMC

SURGIC TOUCH

MULTI FUNCTION FOOT PEDAL

7-INCH WATER PROOF TOUCH SCREEN

TIPS KIT

4 WORKING MODES

14 TIPS

3rd GNERATION
Piezo-bone surgery

WEIGHT OF MAIN UNIT
2.8 kg

DEVICE INTERMITTENT OPERATION
60s on, 10s Off

SURGICAL INCISION
3.5_{mm}, 0.5_{mm}

MICRON CUTTING AMPLITUBE
20µm to 100µm

ULTRA SURGERY

11 IMPLANT

1. IMPLANTER

KMC

IMPLANT

IMPLANTER

TORQUE
6.2 Ncm Motor

FOC CONTROL
Blends low speed
with low speed

PARAMETER
Preset easier use

AUTOCLAVED
Motor & Cable

MULTIFUNCTION
Foot pedal

MUTE
Adopt mute motor
from swiss

TOUCH SCREEN
Large Color

MUTE
Peristaltic Pump

Advanced FOC controlling technique which blends low speed with high speed performance

Specification	
Rotation Speed Range	300 - 40,000rpm
Torque Range/Gear 20:1	5N. cm - 80N cm
Max Pump Output	110ml/min
Motor Weight	23.4mm*L91mm
Motor Weight	140g
Power Supply	Ac220v 50/60 Hz

BEYOND THE BOUND OF
DENTAL SUPPLIES

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