

美好 · P A T H



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遇见 · GLORY



## AI SURGERY PRO

Global first wireless foot control piezo surgery



AI SURGERY PRO

“

超声骨刀系统是现代外科和种植手术所需的新系统，设置多种操作模式以及多种样的工作尖使手术过程更顺利，提升治疗的精准度和效率。

Piezo surgery is a new system required for modern surgery and implant surgery, which can set up various operation modes and working tips to make the operation process smoother and improve the accuracy and efficiency of treatment.

AL SURGERY PRO



# AI SURGERY PRO



## 有效定位 实现微创

### EFFECTIVE POSITIONING TO ACHIEVE MINIMALLY INVASIVE

超声骨刀机工作尖振动进度以微米计，操作握持轻便，切割轨迹不受限制。最小手术切口仅为 $3.5\text{mm} \times 0.5\text{mm}$ ，手术区域小，术后恢复快。

The vibration progress of the piezo bone surgery tips is measured in microns, the operation and grip are light, and the cutting trajectory wouldn't be limited. The minimum surgical incision is only  $3.5\text{mm} \times 0.5\text{mm}$ , which means the operation area is small, and the postoperative recovery is fast.

## 选择性切割 不伤软组织

### SELECTIVE CUTTING WITH NO DAMAGE ON SOFT TISSUE

高强度聚焦超声只对特定硬度的骨组织有破坏作用，不会破坏血管和神经组织，还能对手术伤口处起到止血作用，进一步缩小微创手术的创口，极大地提高了手术的精确性、可靠性和安全性。

High-intensity focused ultrasonic only has a destructive effect on bone tissue with a specific hardness, with no damage on blood vessels and nerve tissue, and can also stop bleeding from the wound, further reducing the minimally invasive surgical wound, and greatly improving the accuracy, reliability and safety.

## 5种不同工作模式

### 5 DIFFERENT WORKING MODES



切骨模式

Bone mode



根管模式

Endo mode



牙周模式

Perio mode



自定义模式

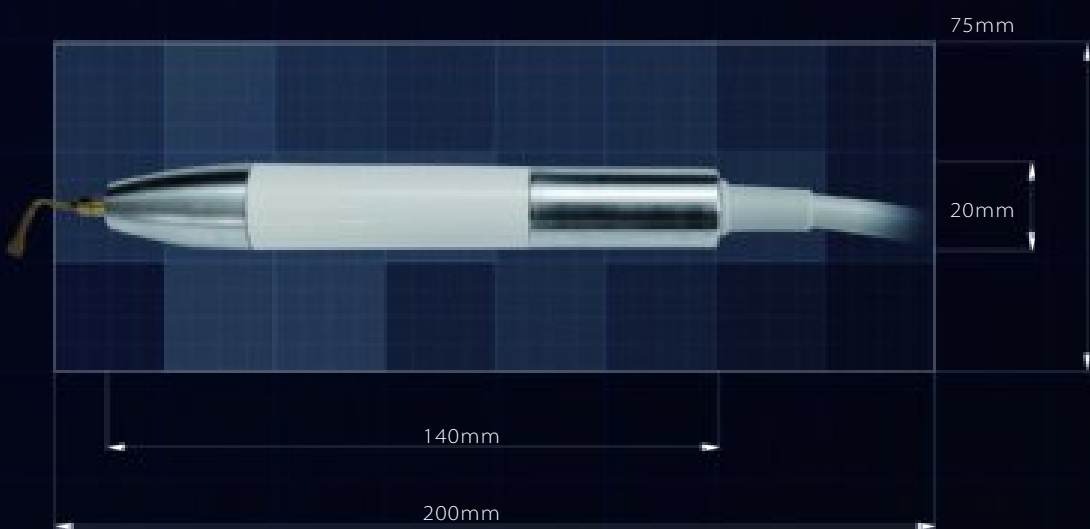
Custom mode



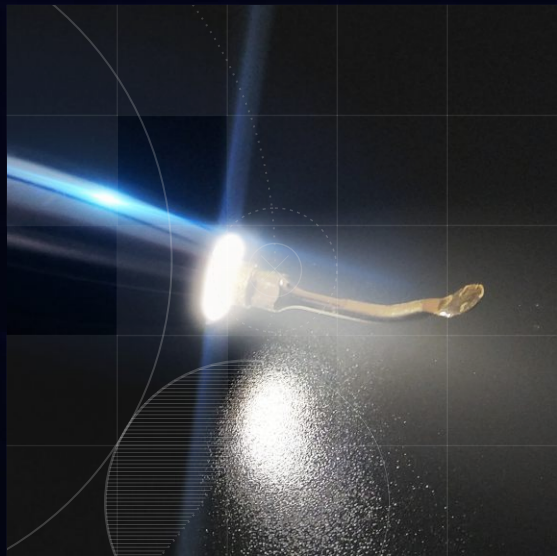
清洁模式

Clean mode

# 骨刀手柄 HANDPIECE



140mm × Ø20mm人体工程学纤细手柄设计，大大减少了手术过程中的疲劳感。  
140mm × Ø20mm Slim handle design: The ergonomic handle improves its balance, especially during long-term surgery, which greatly reduces the fatigue of hands and fingers.



恒流LED照明，手术视野清晰，减少阴影部位使可见度佳，更能提高手术的精准度和缩短治疗时间，为医生带来更完善的临床操作体验  
The surgical field of vision is clear, and the shadows are reduced for better visibility, which can improve the accuracy of surgery and shorten the treatment time, bringing doctors a more complete clinical experience.



工作尖振动幅度范围20-200 $\mu$ m，尖端与骨组织接触均匀，无跳动，切割更平稳。  
The vibration amplitude range of the working tip is 20-200 $\mu$ m, the tip and the bone tissue contact evenly, with no jumping, makes the cutting more stable.

径向振幅 / Radial amplitude
20-200 $\mu$ m
横向振幅 / Horizontal amplitude
<30 $\mu$ m

手术冲洗液雾化均匀喷洒，对手术区域进行高效清洗，同时快速冷却工作尖，为患者提供更安全的治疗保障。  
Surgical irrigation fluid is sprayed evenly to efficiently clean the surgical area, and at the same time quickly cool down the working tip, making the treatment safer.

全功率工作10分钟之后，手柄温度最高33℃。  
Handpiece temperature: After working at full power for 10 minutes, the handpiece temperature is up to 33℃

蓝牙无线脚踏

# BLUETOOTH FOOT SWITCH

功率减少  
Power Decrease

功率增加  
Power increase

调整水量(60-100ml/min)  
Adjust the water flow  
rate(60-100ml/min)



无线脚踏开关，10米范围内任意接收信号。

Wireless foot switch: signals received within 10 meters.

充电4小时，待机时长可达50小时以上。

4 Hours charging time, and standby more than 50 hours.

水量控制，功率调整，均可通过多功能脚踏完成，真正实现无菌操作，彻底解放双手。

Water flow control, Power adjust, These functions can be completed by the multi-function foot pedal, the aseptic operation is truly realized, and the hands are completely freed.

蠕动泵

# PERISTALTIC PUMP

运行安静，操作设置简单，闭合紧凑无缝，外观优雅时尚。

Running silently, Easy to operate the settings, open and close compactly, elegant design.

≤45dB



进口步进电机 精确控制转动角度，实现高精度的分配和计量，提供一致和稳定的流量。

Imported Stepper motor drive, precise control of the rotation angle, delivers flow stability and metering accuracy. Providing steady water flow.





# 7寸高清触摸彩屏

## 7" HD COLOR TOUCH SCREEN



1024x600高温画面显示，178度IPS广域视角，电容多点触摸，操作更加灵活直观，大幅提升手术效率。

High resolution up to 1024x600 Pixels gives HD pictures. 178° IPS & Multi-point touch type capacitive touchscreen offers a high sensitivity touch with no error, greatly improve surgical efficiency.

### 五大功能 —— 5 Functions

- |                            |                            |                             |                               |                             |
|----------------------------|----------------------------|-----------------------------|-------------------------------|-----------------------------|
| <b>1 骨刀模式</b><br>Bone mode | <b>2 根管模式</b><br>Endo mode | <b>3 牙周模式</b><br>Perio mode | <b>4 自定义模式</b><br>Custom mode | <b>5 清洁模式</b><br>Clean mode |
| PUK-1                      | PEK-1                      | PUK-4                       |                               |                             |
| PUK-2                      | PEK-2                      | PPK-2                       |                               |                             |
| PUK-3                      | PEK-3                      | PPK-4                       |                               |                             |
| PUK-4                      | PEK-4                      | PPK-5                       |                               |                             |
| PUK-5                      | PEK-4                      | PPK-7                       |                               |                             |
| PUK-6                      |                            |                             |                               |                             |

- |  |  |   |
|--|--|---|
| <b>6 显示脚踏连接状态</b><br>Display the status of Foot Switch | <b>7 显示手柄连接状态</b><br>Display handpiece connection status | <b>8 显示水量，点击调整水量</b><br>Display Water flow rate, and press to adjust. |
| <b>9 功率减小按键</b><br>Decrease, adjust the Power          | <b>10 功率增加按键</b><br>Increase, adjust the Power           | <b>11 显示当前功率</b><br>Display the current Power rate.                   |

技术参数

TECHNICAL PARAMETERS

产品型号 Machine model	AI Surgery Pro
防水系数 According to EN60529	IPX1
电源电压 Power-supply voltage	100~240V 50/60Hz 150VA
保险丝 Fuses	2xF10A 250V
工作频率 Working frequency	24kHz ~ 36kHz
水流量 Water Flow	60~100ml/min
出水部件 Water Applied parts	Handpiece and Tips
保护系统与APC平稳运行时间 Protection systems and tripping time of the APC	
无连接手柄时 No handpiece connected	8ms
线中断 Cord interrupted	8ms
工作尖损坏或未正确拧紧 Tips broken or not correctly tightened	<400ms
接地线保护 Protection by discharge to earth	8ms
操作环境 Operation environment	
环境温度范围 Environment temperature	+5°C ~ +40°C
相对湿度范围 Relative humidity	30% ~ 75%
大气压力范围 Atmosphere pressure	70kPa ~ 106kPa

配件清单

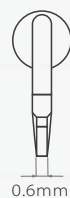
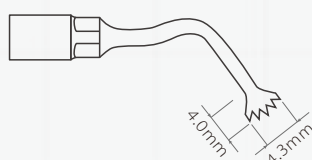
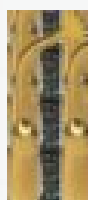
COMPONENTS LIST

		
骨刀主机   Control Device		无线蓝牙脚踏   Wireless Foot Switch
		
电源线   Power cable		脚踏充电器   Foot Switch Power Adapter
		
带线缆手柄   Handpiece with Cable		供水瓶支架   Water Bottle Bracket
		
手柄托架   Handpiece Holder	限力扳手   Torque Wrench	不锈钢消毒盒   Sterilize Box
		
不锈钢接头   Connector	软管   Tubes	工作尖套装   Tips Holder and Tips

# SURGERY TIPS

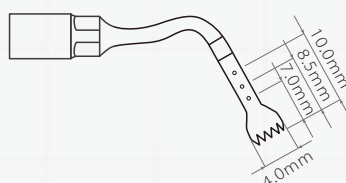
## PUK-1

骨切开术  
Osteotomy.



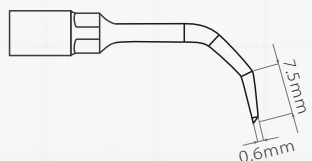
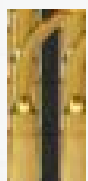
## PUK-2

骨切开术  
Osteotomy.



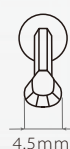
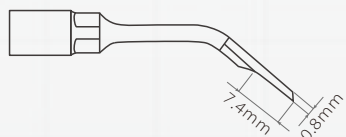
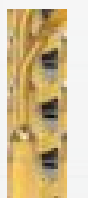
## PUK-3

骨成形和收集骨屑  
Bone remodeling and bone chip harvesting.



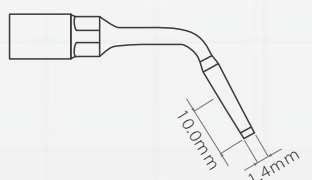
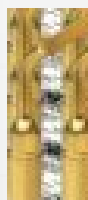
## PUK-4

骨成形和收集骨屑  
Bone remodeling and bone chip harvesting.



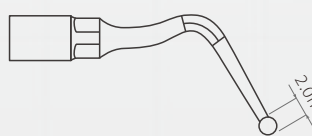
## PUK-5

韧带切除术，微创性拔除术  
Used for cutting ligaments, minimally damnification exelcymosis.



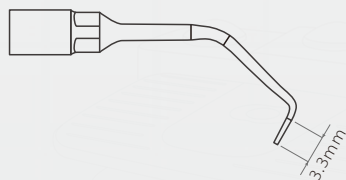
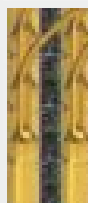
## PUK-6

接近软组织及敏感部位的非创作性骨切开(金刚砂粒大小为100 μ m)  
Non-traumatic bone cutting on thin bone region(diamond-coated)  
\*The size of diamond grit is 100 μ m



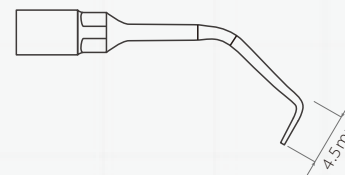
## PEK-1

根管倒退手术，高效根尖修整  
Apical root debridement(diamond-coated)  
\*The size of diamond grit is 40 μ m.



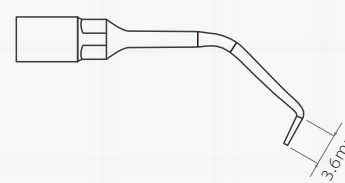
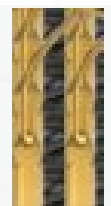
## PEK-2

根管柔和治疗  
Soft apical root debridement.



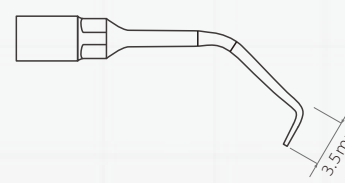
## PEK-3

根管倒退手术，高效根尖修整  
Apical root debridement(diamond-coated)  
\*The size of diamond grit is 40 μ m.



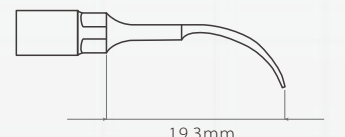
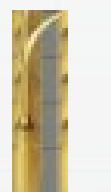
## PEK-4

根管柔和治疗  
Soft apical root debridement.



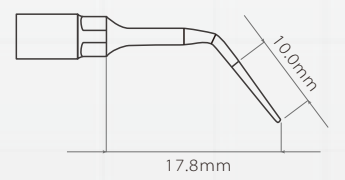
## PPK-2

折断牙根的根尖拔除，炎性组织祛除  
Root scaling



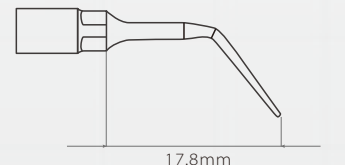
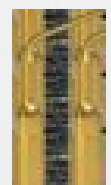
## PPK-4

根面清创、平整(金刚砂粒大小为40 μ m)  
Root surface debridement and root planning(diamond-coated)  
\*The size of diamond grit is 40 μ m.



## PPK-5

牙周治疗  
Perio treatment



## PPK-7

骨修整、根管扩大(金刚砂粒大小为40 μ m)  
Bone remodeling and root canal enlargement(diamond-coated)  
\*The size of diamond grit is 40 μ m.

