

MCS 3000A

FANTA SURGICAL MICROSCOPE



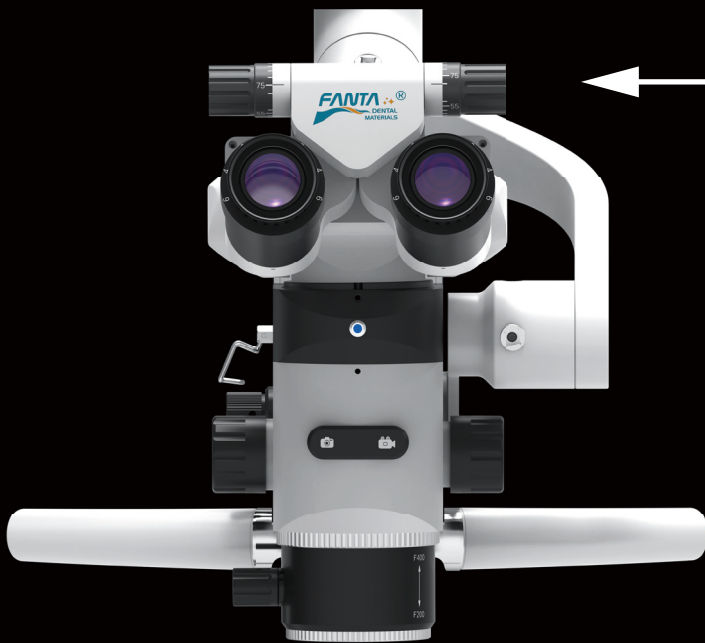
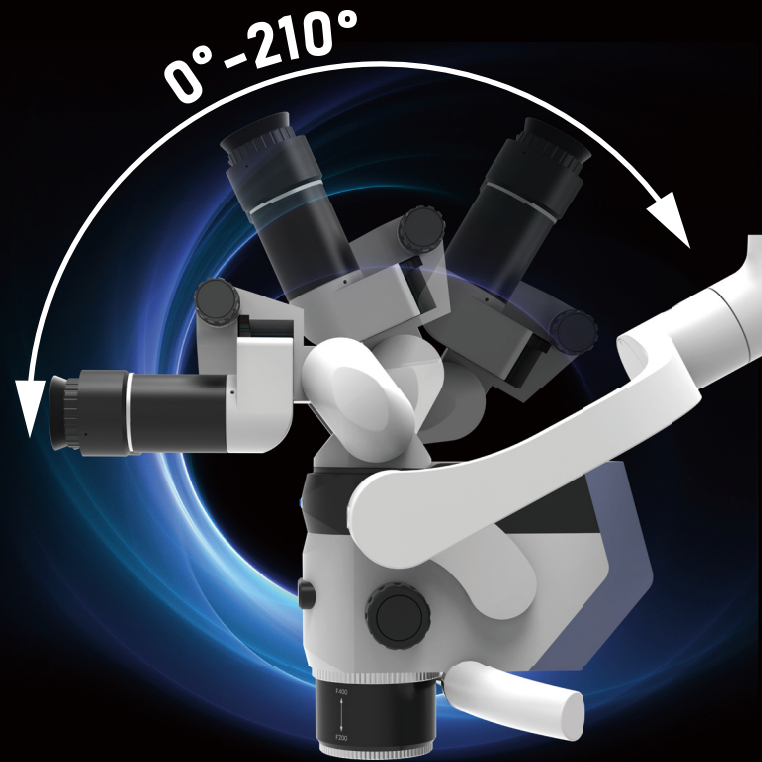
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FANTastic one stop micro-endodontic solution

① Foldable eyepiece barrel

The variable angle eyepiece barrel with a range of **0°-210°** is designed according to ergonomics, providing a comfortable working position for doctors.

The elongated binocular eyepiece barrel reduces the forward leaning of the operator and increases the space for operations under the microscope.



55mm to 75mm

② Pupil distance adjustment

With a brand new design, the pupil distance can be adjusted from **55mm to 75mm**, and the pupil distance can be accurately adjusted through the two knobs at both ends.

③ Adjustment handles

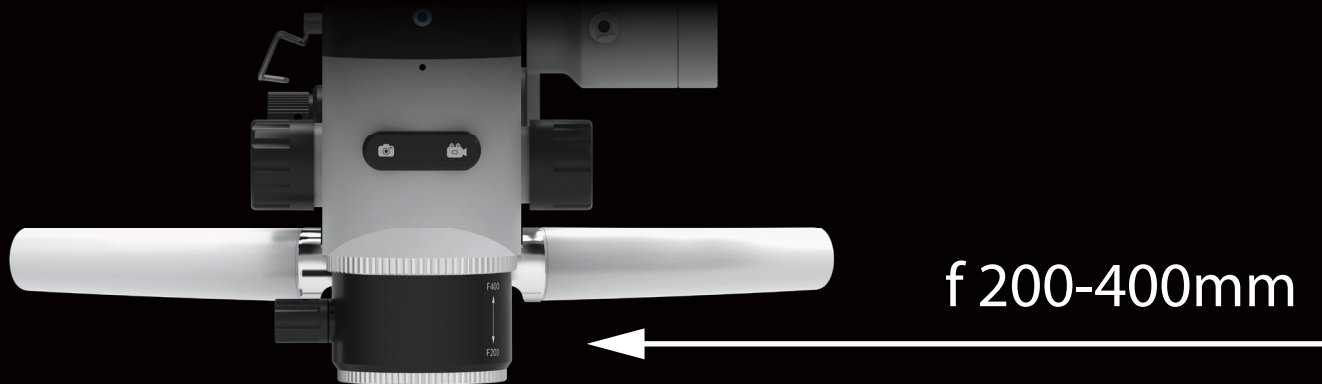
The two sides are equipped with high-quality LC control handles, which are fully adapted to the usage habits of doctors.

**1920*1080
30FPS**



④ Built-in high-definition imaging system

Based on SONY's high-end image sensor, with a maximum resolution of 1920*1080. it supports 60FPS frame rate display and video recording.

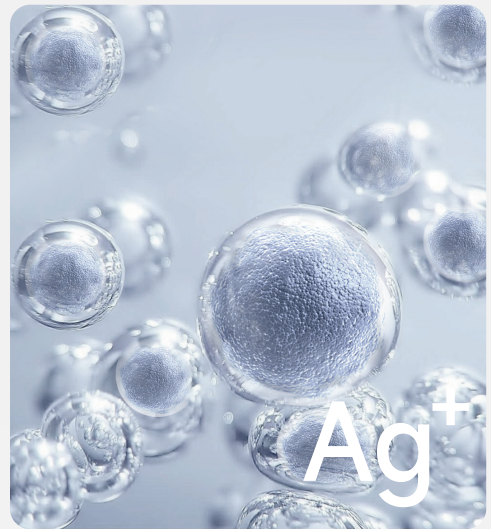


⑤ Fine focus objective lens

With a zoom range of 200–400mm, it can meet the operation space of 200mm and is suitable for more clinical operations.

WIDE-RANGE ZOOM OBJECTIVE LENS

The maximum zoom range allows doctors to easily and quickly switch focus planes during treatment, maintaining clarity under the microscope and providing a larger operating space. Within the zoom range of F=200–400mm, the height of the main lens can be freely adjusted, and clear images under the microscope can be obtained through focusing, which can meet the different clinical operation space requirements. At the same time, it allows every doctor who uses the microscope to find a comfortable sitting position by moving the microscope up and down.



Nano silver ion antibacterial coating

The entire body of the microscope is coated with a permanent nano silver ion coating for added protection, which can further maintain the hygiene of the microscope surface and reduce the attachment of pathogens, meeting the requirements of outpatient infection control.

Principle of nano silver ion sterilization:

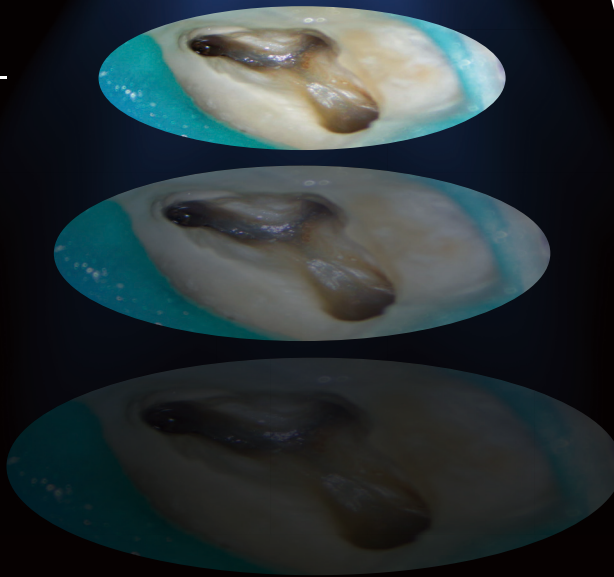
- i. Positively charged silver ions adsorb to negatively charged microbial cells upon contact.
- ii. Silver ions pierce the outer surface of cells, damaging their DNA and inhibiting protein formation, causing the cells to be unable to metabolize and reproduce, leading to their death, thus achieving sterilization.
- iii. After the cells lose their activity, the silver ions continue to have antibacterial effects, with sustained antibacterial efficacy, without toxicity or side effects.

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FIXED MAGNIFICATION

5.0X ———
↕
8.0X
↕
12.8X ———



ULTRA-LONG WORKING DISTANCE

—————
↕
200mm ultra-large
zoom range
↕
—————

THERE ARE ALSO 5 LEVELS OF MAGNIFICATION AVAILABLE.

3 Steps

THREE-LEVEL ZOOM
5X/8X/12.8X

5 Steps

FIVE-LEVEL ZOOM
3.2X/5X/8X/12.8X/20X

Low magnification: wide field of view, high brightness, seeing the overall situation (positioning view)

Medium magnification: most operations are completed at this magnification (application)

High magnification: observation of fine anatomical structures.

MICROSCOPE SPECIFICATIONS

Eyepiece magnification	10X/22B(Aperture:22mm)
Eyepiece barrel angle of view	0~210° Variable
Eyepiece diopter adjustment range	±7D
Pupil distance adjustment range	55mm~75mm
Magnification	3 Steps: 5X/8X/12.8X 5 Steps: 3.2X/5X/8X/12.8X/20X
Diameter of FOV	3 Steps:44mm/27.5mm/17mm 5 Steps:68mm/44mm/27.5mm/17mm/11mm
Objective focal length	F200~F400
Fine focus of objective Length	0~16mm
Diameter of illumination spot	85mm
Minimum object illumination (F250)	≥80,000 lx
Filter	Orange

ELECTRICAL SPECIFICATIONS

Input voltage	100-240V~,50/60HZ
Input power	≤50VA
Illumination source	Medical-grade white light LED
Light source lifespan	≥60,000h
Fuse	220V:T1.0AL 250V 110V:T2.0AL 125V

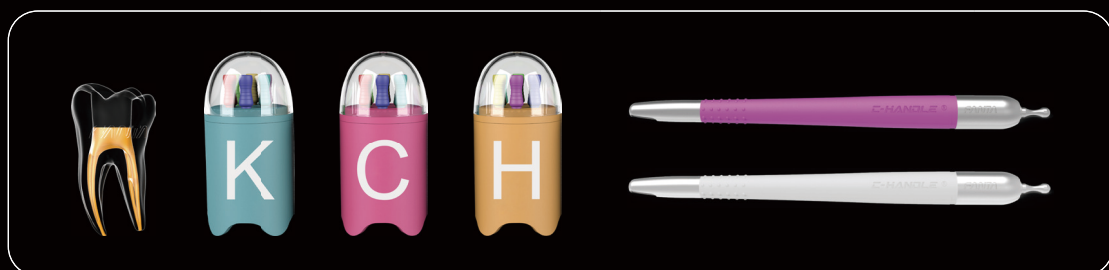
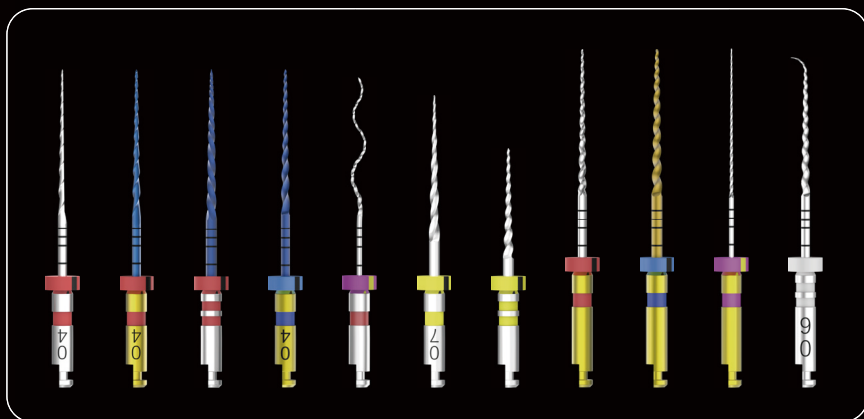
STAND SPECIFICATIONS

Horizontal arm rotation radius	460mm(360° rotation)
Spring arm rotation radius	700mm, ±160°rotation up/down movement of±250mm
Longest arm reach	1330mm

IMAGING SPECIFICATIONS

Installation method	Fully built-in
Maximum resolution	1920x1080
Frame rate	30fps@1920x1080
Output interface	standard HDMI
Control method	body buttons
Storage media.	64GB TF card

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