# DM2300

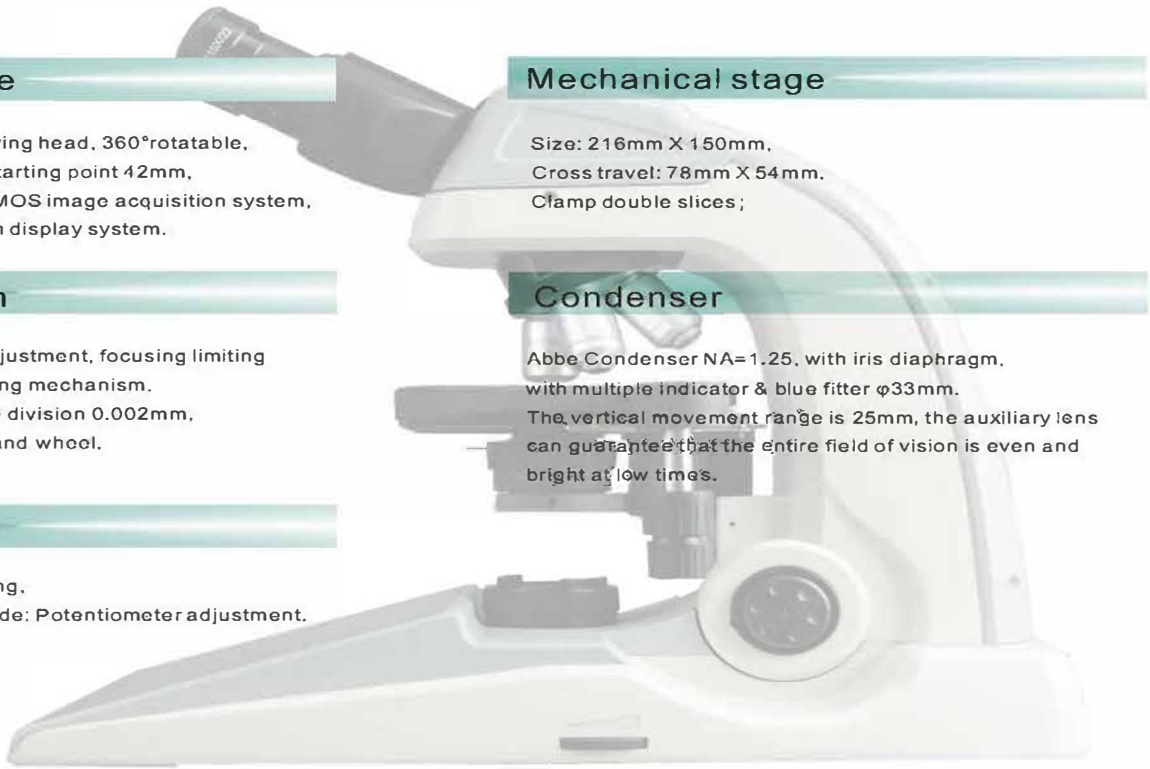
*Teaching • Clinic • Laboratory*  *Easy • Space-saving • Real integration*

# *Digital Biological Microscope*



## Specifications

| Model | DM2300 |
|---|---|
| Optical System | Infinite optical system |
| Viewing Head | Seidentopf built-in digital binocular head inclined at 30°,Interpupilary 48-75mm,USB 2.0 port |
| Eyepiece | WF10X22,diopter adjustable |
| Objective | Plan objective 4X,10X, 40X,100X |
| | Optional Achromatic objective 20X, 60X |
| Nosepiece | Backward quadruple nosepiece,Accurate and reliable location |
| Mechanical moving stage | Cross Travel 78(X)mm x 54(Y)mm , Rectangular 216 x 150mm, clamp double slices |
| Coaxial focusing system | Coarse fine adjustment:22mm.fine division 0.002mm |
| Condenser | Abbe condenser with Iris diaphragm & with multiple indicator & blue fitter |
| Illumination | 5W LED illumination,brightness adjustable |
| Image sensor | 16 million pixel science CMOS, Pixel 1.335 NM |
| Display | 9.7 inches IPS retina screen display, resolution 2048*1536 |
| Operating System | Win 10 system |
| Communication, Storage | USB external interface and SD card interface, built-in WIFI wireless module, Gigabit LAN interface,HDMI synchronized to the projector or related high-definition display equipment |



### Observation tube

Seidentopf binocular viewing head, 360°rotatable,
Adjustable height of the starting point 42mm,
Built in scientific grade CMOS image acquisition system,
Seamless connection with display system.

### Mechanical stage

Size: 216mm X 150mm,
Cross travel: 78mm X 54mm,
Clamp double slices;

### Focusing system

Coaxial coarse and fine adjustment, focusing limiting device and a torqueadjusting mechanism.
Coarse stroke : 22mm. fine division 0.002mm,
The low position coaxial hand wheel.

### Condenser

Abbe Condenser NA=1.25, with iris diaphragm, with multiple indicator & blue fitter φ33mm.
The vertical movement range is 25mm, the auxiliary lens can guarantee that the entire field of vision is even and bright at low times.

### Illuminator

5W LED illumination lighting,
Brightness adjustment mode: Potentiometer adjustment.

## *More functionality*

### Dark field microscopy



Bright field/dark field condenser, used for the low magnification ( below 40X ) dark field observation needs)



Professional field condenser (dry), black background, more bright:




Professional field condenser (oil),black background, more bright, more suited to the high NA value of the dark field observation

### Polarizing microscopy



Polarizer is placed in the barrel, between the mirror body, partial mirror " card "on the condenser, 360 degree rotation: ordinary beam can be changed into a polarized light, suitable for anisotropic crystal material microstructure analysis

### Phase contrast microscopy

By using phase contrast device (objective, condenser, centering telescope) for matching microscopic observation , especially for in low contrast specimens analyzed.

- CF phase contrast objective
  Centering telescope (10X40X100X)
- Phase plate condenser
  Bright field microscopic observation
  Phase contrast microscopy
- Rotary table type mufti-functional condenser
  Bright field microscopic observation
  Dark field microscopy
  Phase contrast microscopy







## System Dimension Drawing

