



# FLUO-UP950 Research Grade Fluorescence Microscope

Binocular / Trinocular

## Full Motorized

FLUO-UP950 Series compound Bright field research grade Microscope  
 This scientific research grade Microscope is equipped with an electric platform, autofocus, electric objective lens conversion, touch screen controller and powerful imaging software; through the precise connection between various parts, it can realize the functions of microscope observation, image acquisition and image processing, reducing repetitive operations. In addition, the microscope settings and parameter settings of the last operation can be restored to improve the stability and accuracy of microscope imaging. Microscope operation can be so fast and efficient.

- Robust metal body structure
- Adjusting the intensity on the microscope stand
- Two integrated ergonomically positioned shooting buttons on the tripod on the left and right sides
- Optical system with full Köhler illumination.
- Binocular photo tube up to 15° inclined
- Fluorescent light source at your choice:
  - **Mercury light source:** Cost-effective, wide spectral range, simple to operate, effective life of 200 hours, suitable for observation needs of almost all dyes.
  - **Metal halide lamp:** It is brighter, a broad-spectrum light source, and has a use time of up to 2,000 hours. It is suitable for the observation needs of almost all dyes
  - **LED light source:** with a service life of up to 5,000 hours, cold light source, little damage to cells, and a small monochromatic spectrum range. The UP950 series can be installed with 4 LED light sources to meet the observation needs of various dyes.



## Upright Microscope

Research grade, touch screen. programming...



## Full Köhler Illumination

with adjustable Koehler field diaphragm



## Motorized Nosepiece

Motorized, Coded Sextuple Nosepiece support function of Active Light Manager - automatic adjustment of the appropriate light ratio when changing the objective



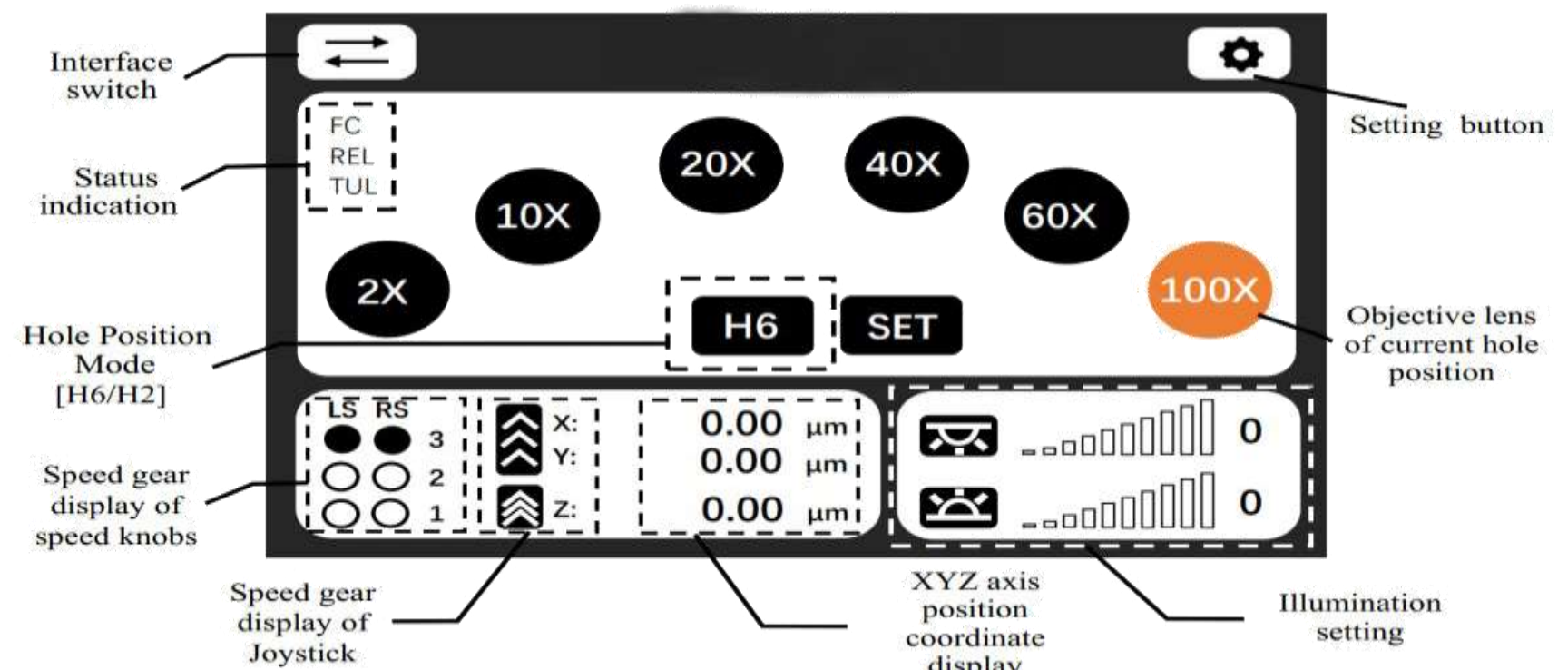
## Motorized Mechanical Stage X,Y,Z

Controlled by joystick or touch screen, which can adjust by 15mm



## Light source

Coded 10W LED illumination with adjustable constant intensity light control. ECO mod – go to stand by in case 15 min, inactivity. The control of the LED source is also integrated in the software

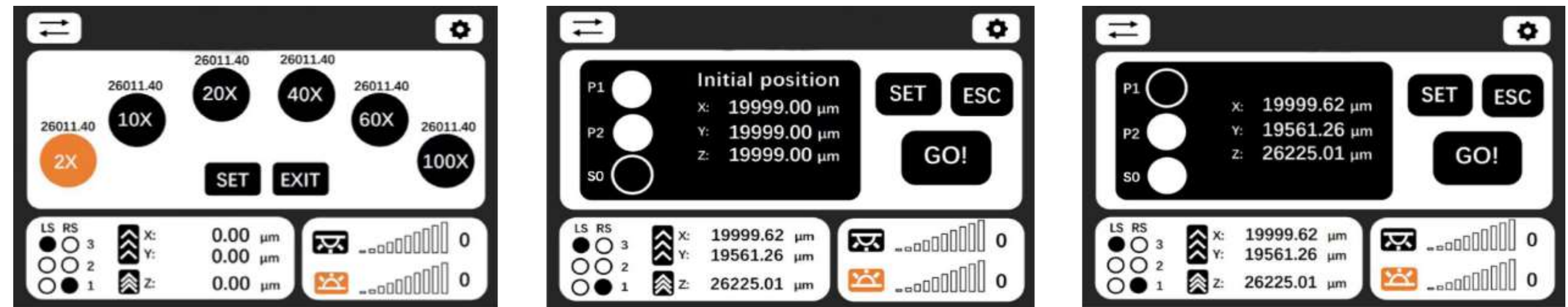






### High precision and easy to operate

The micro electric control platform provides controlled movement in three directions: X, Y, and Z. Only one USB cable is needed to connect the computer to the built-in controller of the fuselage to achieve integrated electric control; the built-in Z-axis adopts a high-precision motor screw structure to ensure nano-scale Z-axis layer cutting scanning; the imported screw adopts extrusion technology and has Features such as enhanced consistency and elimination of backlash errors; flexible platform control program can meet a variety of motion needs. The matching control joystick is powerful and easy to operate.



### Touch control screen, space saving, flexible control

The front-mounted touch control screen integrated with the microscope does not occupy the desktop space. The interface is simple, easy to operate, and programmable control simplifies repetitive observation and imaging processes. Powerful functions: three-axis coordinate display, speed gear display, objective lens electric switching, objective lens dual hole orientation switching, position memory and return, relative coordinate display, objective lens parfocal compensation, temporary upper limit setting, platform escape and recovery, display screen Day/night mode etc.



### Fluorescence filters: high precision and easy to use

In order to make the fluorescence transmittance higher, the cutoff sharper, and the detection effect better, we use outstanding sub-ripple elimination coating technology on all fluorescence color filter sets. Highly sensitive fluorescence detection exposes cells to less excitation light, while a higher signal-to-noise ratio (S/N) produces fluorescent images with bright colors and dark backgrounds



Mercury light source: cost-effective, wide spectral range, simple to operate, effective life of 200 hours, suitable for observation needs of almost all dyes



Metal halide lamp: It is brighter, a broad-spectrum light source, and has a use time of up to 2,000 hours. It is suitable for the observation needs of almost all dyes.



LED light source: with a service life of up to 5,000 hours, cold light source, little damage to cells, and a small monochromatic spectrum range. The UP950 series can be installed with 4 LED light sources to meet the observation needs of various dyes



### Turntable excitation module device

The fluorescence turntable can be equipped with 6 color filter sets, which can image multiple stained specimens at the same time. At the same time, switching the excitation module only requires one click, which is convenient and fast, improves work efficiency, and effectively reduces dye quenching



Adjustable Microscope Binocular head 0 ° to 30 °

**COLO Workstation:** Computer controlled Plus Motorized Microscope Imaging System Software  
Provides integrated control for microscopes, cameras, motorized platforms and various components, and provides functions such as motorized control, autofocus, sequence scanning, fixed-point scanning, surface fitting scanning, and full-field focusing scanning. Intuitive and simple interactive interface, fast and flexible data acquisition method, combined with COLO NOMIS basic imaging analysis software, realize functions such as measurement, synthesis and data recording. Consist module for multichannel fluorescence, manual panorama, manual extended focus,,,

Technical Specification:

Processor: Intel® CPU with 6 cores, 3 GHz clock frequency, eg Intel® Core® i5 12500 CPU

Memory: 16 GB RAM

PCI Express Connectors:

1 x PCI Express Generation 3 x16

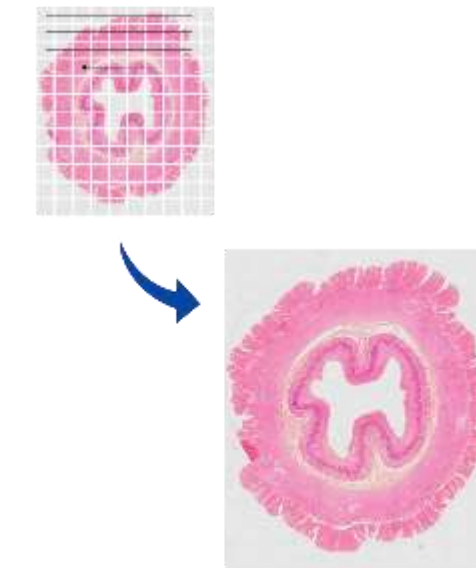
Graphics adapter: Support resolution of 1920 x 1200 pixels (minimum), 32 Bit true color, DirectX® 11.0 or higher, eg integrated Intel® UHD Graphics 630 or associated graphics card NVIDIA T 1000 8GB

Hard drive: 1 x 512 GB SSD NVMe

USB interface: 2 x USB 2.0 and 2 x USB 3.0

Monitor 27" TFT display, vertical resolution 1200 pixels

Operating system: Microsoft® Windows® 10 x64 Professional





Microscope Type	FLUO-UP950		
Optical	Infinite Optical System		
Main body			
Eyepiece	SW10x(25)		
Illumination	10W LED		
Viewing Head	Tilting trinocular Viewing Head, Eyepiece/Port: 100/0, 20/80, 0/100 Inclined at 0-35° , Interpupillary Distance 47-78mm		
C mount	1x C mount		
NIS60 Objective	S-APO PH 10X NA=0.25 WD=16		
	S-APO FL 20X NA=0.5 WD=2.7		
	S-APO FL 40X NA=0.75 WD=1.4		
	S-APO FL 100X NA=1.25 WD=0.18 oil		
Additional magnification	additional magnification 1.6x for all contrast methods		
Nosepiece	Motorized Sextuple Nosepiece		
Condenser	Universal Condenser NA0.9 for objective magnification 1-100x		
	Aplanatic-achromatic condenser, 5-position phase contrast, including 10X, 20X, 40X PH insert,		
	DIC condenser, including 20X-40X DIC insert, polarizer and analyzer		
Focusing	Motorized Coaxial Coarse and Fine Adjustment, Fine Division 1 um, Moving Range 35mm		
Stage	Motorized Stage size 305*178.5mm, XY 125*75mm, fine 0.1mm, four slice holder, XYZ control Joystick		
Excitation Bands for UP950	Motorized 6-position fluorescent filter turntable, coded		
	Coded LED FL light source (385nm, 470nm, 565nm, 625nm)		
	Line	Wavelength/ Bandwidth	Dye Examples
		Multi-band filter (ext: 385, 475, 555 and 630nm)	
	UV	435/30	DAPI, Hoechst 33342, Hoechst 33258, Alexa Fluor 350, Alexa Fluor 405, Indo-1, eBFP / BFP, eGFP (wt), True Blue
	B	514/30	FM1-43, Cy2, eGFP, NBD, MitoTracker Green, Alexa Fluor 488, BCECF, Calcein, DiO SNAFL, YO-Pro-1, Nissl, LysoSensor Green, mHoneydew, FITC/ Fluorescein, Kaede (green /red), PerCP, YoYo-1, FuraRed
	G	592/25	TRITC, 7-AAD, Cy3, tdTomato, Alexa Fluor 546, Alexa Fluor 555, DsRed, mOrange, TagRFP, SNARF, DyLight 549, Spectrum Orange
	R	709/100	Alexa Fluor 633, Alexa Fluor 647, Cy5, DRAQ5, ToTo-3, ATTO-655, MitoTracker DeepRed, APC, ATTO-647N
Camera	Sensor 2/3", resolution 5MP, pixel size 3.45 μm, USB3.0, resolution 2448*2048, 35fps@2448*2048, Dynamic range 4800:1, C mount		
Power supply	220V 50/60Hz		