



ACCUR

High Performance Motorized Stages for Microscopy



Nanjing Tansi Technology Co., Ltd

<http://www.tansi.com.cn>

+86 25 85432178, 85432278



ACCUR ADVANCED MICROSCOPE AUTOMATION

- Ø ACCUR motorized microscopy stages are designed for customized automatic operation, large demands on image analysis, remote control of microscope as well as other optical inspection applications. ACCUR motorized microscopy stages can be adapted to fit most modern microscopy and it's a good choice for Automation Retro-fitting.
- Ø ACCUR motorized microscopy stages are driven by quiet and precision stepper motor. High accuracy ball screws provide smooth and maintenance free motion. Ground recirculating ball ensure zero backlash. Crossed roller bearings are used to make sure the precise positioning of stages, smooth motion as well as good repeatability.
- Ø Stages are made by cast aluminum which provides high rigidity and excellent dimensional stability. Wide range of specimen holders and wide range for movements enable customers to set samples of any shape and of any weight. Inspection of large area sample is available, which will satisfy most customers demanding.
- Ø Adjustable Limit Switches provide the flexibility to reduce the travel range of the stage to match your application and to avoid damaging collisions with your microscope. Some types of limit Switches are adjustable, which means can adjust the travel range of the stage.
- Ø Multi-function controller provides the precision driving of motorized focus and stepper motor. Advanced Controller and computer are controlled via RS232 port.
- Ø ACCUR controller has been specifically designed for control by ACCUR software and remote control handle to ensure motorized focus and movement of specimen holder. Controlled by software ensure the specimen holder move and locate accurately by set parameters. Besides, customers can still control by manual so they are able to find their most comfortable way.
- Ø DLL is provided for customers to invoke.



CONTROLLER

Power Input: AC220V, 50/60Hz, 30VA
Computer Interface: RS232
Controller Dimensions: length300*width120*depth230 (mm)
Controller Weight: 2.8Kg
A pulse can be separated to: 64bits or 128bits



REMOTE CONTROL HANDLE



Control the X,Y axis movement of specimen holder. Adjust the movement speed by changing the angle of inclination.
Customer can optionally order the handle which controls the focus of Z axis. Rotating handle provides fast focus. Fine-tuning button enables precision focus and it allows to focus quickly or slowly.

MOTORIZED STAGE



ACCUR1000

Suited for ZEISS/LEICA/NIKON/OLYMPUS upright microscopes or other customized devices.

Dimensions: W310*D215*H63 (mm)

X/Y travel range: X100*Y75 (mm)

X、 Y resolution: 0.2um

Repeatability: X、 Y better than $\pm 2\mu\text{m}$

Stepper motor: Power 5.7W、 rotational inertia 27gcm²

Operation mode: manual、 remote control handle、 computer-controlled



ACCUR2000

Suited for ZEISS/LEICA/NIKON/OLYMPUS inverted microscopes or other customized devices.

Dimensions: W360*D271*H95 (mm)

X/Y travel range: X120*Y80 (mm)

X、 Y resolution: 0.2um

Repeatability: X、 Y better than $\pm 2\mu\text{m}$

Stepper motor: Power 5.7W、 Rotational inertia 27gcm²

Operation mode: manual、 remote control handle、 computer-controlled

Z-axis Motorized Focus Unit (OPTIONAL)

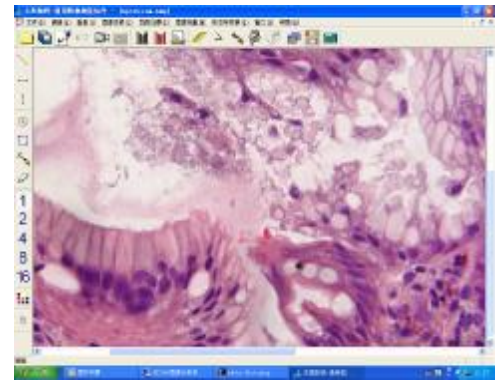
No need any adjustments of original motorized focus control, the new type motorized focus control can be easily fitted to z-axis focus wheel of modern microscopy. Motorized focus control is driven by precision stepper motor, Step size is as small as 0.02 μm (it depends on the specifications of microscope focus mechanism). In cooperation of motorized focus software, motorized focus can be achieved. The function of motorized focus can make job more easily when customer needs to take or analyze many pictures by using ACCUR motorized stages.

ACCUR Stage Software

X,Y axis and focus unit are driven by motor. The movement of X,Y and Z can be controlled by computer. The control software is integrated the functions of image process, geometric measurement, stage control, focus control, image montage and other functions.

- ü In support of digital cameras and other image input devices
- ü In capable to capture live color image with high resolution
- ü sophisticated image editing capabilities, enable to adjust brightness and contrast, have the process functions of image copy, crop, rotation and so on. Overlay the ruler, script, symbol to the image
- ü Images can be saved as BMP or JPG files

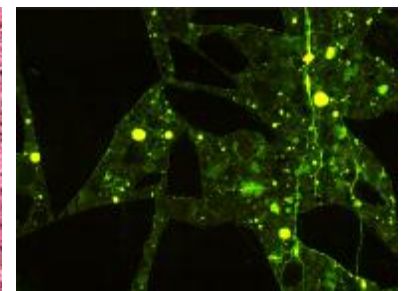
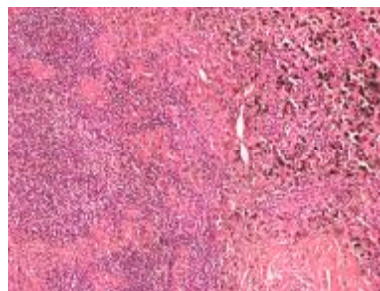
- ü The measured data can be marked on image or can be uploaded to EXCEL
- ü Function of superposition ruler
- ü Control of motorized stage, enable to set the values of X/Y step size and scanning track, capture sequence images automatically. 4x4 image montage
- ü Control the focus of microscope by using ACCUR Stage software. And also has the automation function of focus



- ü ACCUR Stage Software has the GUI independently, and the stage can be controlled by the third party image software.

Applications

- ü Capture of multi-visual field sequence pictures in the field of life sciences and material sciences, etc
- ü Microscopy automation and remote control.
- ü By using ACCUR professional image mosaic software, high magnification images with big visual field are available. Usually it can be used in the application of biological specimen section, the inspection of concrete cracks, the Cleanliness inspection of car parts.
- ü Be applied in the Optical Tweezers system



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