

Axio Examiner

System Solutions for Electrophysiology

Finding a suitable micromanipulation system is an essential prerequisite for complicated electrophysiological research projects. The Axio Examiner fixed-stage microscope produced by Carl Zeiss and the Siskiyou micromanipulation system form a cutting-edge combination that provides a fully integrated, first-class system solution.

Axio Examiner

Developed on the basis of real-life research projects, the new Carl Zeiss fixed-stage microscope has been perfectly tailored to the specific requirements of electrophysiological applications. An innovative reflector turret and a highly specialized optics design serve to maximize the available space to an extraordinary degree, which means there is plenty of room to position micropipettes. The contrasting methods range from simple oblique illumination to Dodt Gradient Contrast and DIC. All the options are accessible directly from the front of the stand and can be used in either VIS or IR. All in all, this is the perfect platform for Siskiyou's highly sophisticated micromanipulation systems.

Siskiyou Micromanipulation

Micromanipulation of electrode tips on the submicron scale requires the ultimate in stability, combined with user-friendly operation. Siskiyou has engineered manipulators to provide this stability, from more bearing elements in our stages to adjustable rotational stops for easy electrode replacement. Our wide variety of manual, motorized and hydraulic drive components makes it easy for you to fit the manipulators you need in the space available. Microscope translators, mounting bases, platforms and perfusion chambers are available for your specific application.



The New Class in Fixed-Stage Microscopy Meeting the Wide Variety of Manual, Motorized and Hydraulic Drive Components from Siskiyou



We make it visible.

Siskiyou

Ultimate In Stability, Combined with User-Friendly Operation



System components

- Fixed-stage microscope: Axio Examiner from Carl Zeiss
- Micromanipulation: Siskiyou

With electrophysiological experiments spanning a wide range, micromanipulation systems are required to have very dedicated characteristics. The table on the right shows an overview of the key components. You can find more detailed information at: www.siskiyou.com

AT A GLANCE – MICROMANIPULATION FROM SISKIYOU

Right manipulator	The right manipulator is the MX-7600 motorized 4-axis version, capable of submicron resolution. The angle of attack is easily adjusted. A retract/targeting feature is available for high-speed electrode replacement. Available in left or right handed versions; MXC probe clamp included.
Left manipulator	The left manipulator is the manual MX130 4-axis model. The narrow profile makes it ideal for placing multiple manipulators in one quadrant, and the high-speed thread (13 mm/turn of the coarse knob; 250 microns/turn of the fine adjuster) makes retraction easy. Available in left or right handed versions, with MXC probe clamp included. The MXC probe clamp has an adjustable rotational stop to facilitate rotation of the electrode holder up and out of the solution.
Joystick and pushbutton controllers	The joystick is a 3-axis model, while the pushbutton controller accommodates up to 4 axes. The pushbutton controller makes 0.2 micron moves – use the slowest setting and quickly “bump” the desired button. Wide speed ranges allow quick coarse positioning, then super-precise fine control.
Manipulator platform	The platform is designed specifically for Axio Examiner from Carl Zeiss. It includes a central section that accepts a wide variety of perfusion chambers, as well as “wing” sections. The heights of the wing sections can be adjusted to accommodate specific manipulator configurations. Additionally, we can provide single mounting stands for individual manipulators. Coarse, lockable rotation is designed in to these stands for positioning flexibility. All Siskiyou platforms have the stability needed for long-term recordings.

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