

Comprehensive Manual

We also provide a detailed User Guide that serves as a handbook of procedures for microelectrode users. Tutorials written by MDS Analytical Technologies staff and scientific consultants provide a useful guide to the operation of the instrument and are informative references for several electrophysiological techniques.

More Information

The Axoclamp 900A* main unit comes standard with:

- One Remote BUZZ Box: works for both channels
- One Clamp-1U model cell
- Two HL-U electrode holders
- One Axoclamp 900A Commander software CD
- Two USB 2.0 cables
- Two headstage baseplates
- Theory and Operation User Guide (printed)

* Two HS-9A headstages (e.g., HS-9A x0.1, HS-9A x1 or HS-9A x10) must be ordered with the Axoclamp 900A.

Software Control

Instead of the usual front panel knobs and switches, the Axoclamp 900A amplifier is controlled by the Axoclamp 900A Commander, a program that runs on a Windows PC computer and communicates with the amplifier via a USB interface. This control interface reports resistance, voltage, and current measurements and provides automation of Bridge Balance, Pipette Offset, and Pipette Capacitance Neutralization. In addition it has "smart" features that protect cells from potentially damaging signal oscillations and automate mode changes based on internal signal thresholds or externally-applied signals. Amplifier settings such as gain, filter frequency, recording mode and input/output scale factors are automatically telegraphed to the pCLAMP 10 data acquisition software via the USB connection.

Optional SoftPanel

Although the Axoclamp 900A amplifier is a computer-controlled amplifier, the mouse and/or keyboard is not the only means of controlling the instrument. The optional SoftPanel was designed for those who prefer the more conventional feel to amplifier control of knobs and buttons. By way of a USB connection, the SoftPanel controller physically replicates all essential amplifier functions by acting as a hardware extension of the Axoclamp 900A Commander software. SoftPanel knobs replicate continuous mouse controls ("gliders"), while buttons replicate single-click mouse controls.

