



FOUR INJECTION MODES:
HOLD, TRANSFER, INJECT, CLEAR

TWO INDEPENDENT
PRESSURE CHANNELS

REMOTE INTERFACE FOR
CONTINUOUS AND PULSE
PRESSURE ADJUSTMENT

QUIET, BUILT-IN COMPRESSOR



XENOWORKS™ DIGITAL MICROINJECTOR

Designed primarily for transgenic mammal workstations, the **XenoWorks Digital Microinjector** is capable of holding oocytes and early embryos immobile while simultaneously providing a separate pressure channel for pronuclear microinjection of DNA or the gentle control of embryonic stem cells as they are transferred into blastocysts. The microinjector employs two independent pressure control channels.

The hold part is a self-contained vacuum channel for gentle suspension-cell holding and can be switched on and off as needed. The responsive rotary control is used to dial the pressure up or down according to the degree of hold required.

A second channel available for delivering both high-pressure for femtoliter-volume injections, and gentle positive/negative

pressure for transfer of embryonic stem cells. Two modes of injection, Continuous or Pulse, are available on this channel. In the continuous mode, the inject pressure is applied to the micropipette tip for as long as the hand- or foot-switch is held down. In the Pulse mode, the inject pressure is applied for a precisely timed duration, which can be set in 0.1 second increments. Both injection duration and pressure are easily selectable using rotary controls on the remote interface.

Optimal ergonomics are again a prime consideration. The remote interface unit provides access to all keys and rotary controls necessary to manipulate the parameters in the two pressure channels, while the separate compressor controller can be shelf- or floor-mounted away from the microscope to eliminate vibration.

BRE110 XenoWorks Digital Microinjector (110V)
Includes: compressor module, footswitch, user-interface module, 2 micropipette holders with 2m ETFE tubing and fittings, spare tubing, connecting cables, and manual

BRE220 XenoWorks Digital Microinjector (220V)
Includes: compressor module, footswitch, user-interface module, 2 micropipette holders with 2m ETFE tubing and fittings, spare tubing, connecting cables, and manual

SUTTER INSTRUMENT

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