



# GELLER MICROANALYTICAL LABORATORY

426e BOSTON ST., TOPSFIELD, MA 01983-1216  
TEL 978 887-7000 FAX 978-887-6671

Certified to ISO-9001

Jg@gellermicro.com <http://www.gellermicro.com>

---

## dStep: Stage Control Motion Systems for JEOL 733, 840, 6000 and 8600 series instrumentation.

### Specifications:

- Provides micro-stepping motor control for the JEOL 733, 840, 6000 and 8600 series scanning electron microscopes and electron microprobes. Using a joystick or keyboard, the motors can control the X, Y and Z stage position. With micro stepping, motions at magnifications over 10,000X are smooth and appear as if they are DC or "synchronous" motors.
- The compact motor drive system optionally includes externally adjustable limit switches that allow limit protection from 1" to 8" of stage travel (depending upon stage specification).
- The computer control program is written in 32bit code for Windows98 or NT. It can be "minimized" on the toolbar. In this mode the joystick is kept active for use while other programs (such as EDS or digital imaging) are running.
- The display includes a map showing the stage travel coordinates along with stored points (unlimited amount) in a database file (Microsoft™ Access). Sample positioning is executed by typing coordinates, mouse clicking on the video display, or recalling stored point coordinates. An additional function moves the stage in programmed fixed distance increments.
- Four buttons on the joystick can be programmed to provide X and Y orientation swapping, high/low speed control, backlash remove, etc.
- dStep consists of software, joystick, and remote motor driver box. A single RS-232 (9 or 25 pin) and joystick port is required. Operating system: Windows98 or NT. Active-X controls are available for talking with other programs.



Please contact us for the appropriate configuration for your instrument. **dStep** is one of our series of computer control products for electron beam instrumentation. Other systems are **dPict32** for digital imaging, **dQant32** and **dSspec** for quantitative electron probe microanalysis, and **Auger-II** for Auger electron spectroscopy. We also provide energy-dispersive x-ray system upgrades (new pulse processors and PC based pulse height analyzers with qualitative and quantitative software).