



TEM Upgrade ZEISS EM109/900



For many years now you are working reliable with your ZEISS transmission electron microscope (TEM). It is easy to use and notable for its image quality. Because of the unique electron optics – your TEM is still state of the art in image quality and contrast.

For a reliable use over the next years we developed a complete new TEM electronics. All electronically modules have been new developed so as power supplies, high tension control, vacuum control, stage control etc.

The communication between the electronics and the TEM control software is working via USB. This is allowing the use of most modern computer technology – we support up to MS Windows 8. The operation is done by a modern control panel.

The new TEM electronics can be operated in combination with all common CCD camera systems which have previously been available for your TEM. The whole conversion and training takes place at your facility within a couple of days. If you would like to combine the upgrade with the renovating of your rooms, we also can do the conversion in our company.

For more information:
www.tem-upgrade.com



Features

- **entire replacement of the existing control electronics and vacuum control**
- **modern, modular rack construction**
 - high precision, temperature stable control of the lenses and correcting coils
 - comprehensive safety monitoring
 - space-saving storing under the table top
- **intuitive handling with an illuminated control panel**
 - display of all relevant conditions
 - ergonomic controller to adjust the lenses
 - trackball for stage control
- **clearly control of all functions with TEM-control-software**
 - magnification-dependent saving of all parameters
 - set-up assistance "Wizard"
 - position-memory for stage control
 - comprehensive automatic functions for easy use
 - calibration mode for easy adjustment of all column parameters
 - monitoring functions for the control electronics
- **new functions realized**
 - 4 different high voltages
 - several additional diffraction modi
 - energy-saving-mode ("standby")
 - complete, magnification dependent compensation of the stage control
- **conversion of the table top**



illuminated control panel



complete new electronics



optional CCD-camera