



*The art of innovation*



**TEM-100**

TEM-100 compact transmission electron microscope for the widespread use of biomedical research, research in nano science and technology fields, as well as for the training of higher education specialists.



**TEM-100**

The microscope may operate in the following modes: low magnification; large increases in the ground or contrasting modes of operation; microdiffraction mainly or contrasting modes. The microscope is designed for indoor or partially conditioned air conditioned at a temperature of  $(293 \pm 278)^\circ \text{K}$  and relative humidity  $(65 \pm 15)\%$  at a temperature of  $(293 \pm 278)^\circ \text{K}$ . Power supply - single phase is 220 V, frequency 50 Hz.

## TEM-100

### Advantages TEM-100:

- high quality electron microscopic images;
- easy control the device using the computer;
- existence high contrast mode for biomedical objects;
- original design vacuum camera;
- easy and reliable vacuum system;
- output electron microscopic images on the screen using CCD-camera and image editing with special programs.

### Technical Specification:

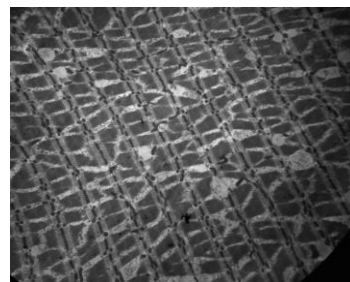
Parameters	Basic Mode	Contrast Mode
Resolution on points, nm	0,4	0,5
The range of the electron-optical increases	50...600000	50...430000
The range of the diffraction length chamber, mm	200...2000	280...2800
The accelerating voltage, kV	25...100	
with the adjustment steps, kV	0,05; 1; 5	
Power supply (1 phase), V	220	
Frequency, Hz	50/60	

### Management system

The microscope is controlled by a computer. Software in Windows operating environment allows you to manage the device and display an image while operating the CCD-camera. Controls allow work on the device with minimal distraction of the operator on the monitor screen. Boards can move that allows the operator more convenient to place them on the table.

### Photographic system

- vacuum camera with recording on a flat film measuring  $90 \times 120$  mm or  $80 \times 100$  mm;
- automatic photographic exposure meters;
- on the film indicated the experiment number and an increase in the length or the camera (for more information about the image is stored in the database of the computer);
- the ability to install the lower image display system on the screen with the CCD-camera.



Research in medicine: rat muscle tissue

More information! Please contact us [info@microptik.eu](mailto:info@microptik.eu)