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ZEISS will present ZEISS MultiSEM 505, its new scanning electron microscope (SEM) at the Annual Neuroscience meeting. As the first SEM in the world, the system features 61 beams working in parallel, and offers an unrivaled capture speed of 1220 megapixels per second at a pixel size of 4 nm. This high acquisition speed is used for imaging neural tissue in brain research. It is designed for continual operation and fitted with the intuitive ZEN software.

ZEISS MultiSEM uses 61 beams simultaneously, making it possible to acquire 61 images in parallel. Thus large areas can now be imaged very quickly and acquisition times are reduced from years to weeks.

The first users of this microscopes are the laboratories of Jeffrey Lichtman, Harvard University in Cambridge and Winfried Denk, Max Planck Institute of Neurobiology. Both are using microscopy to investigate structure and function of the brain.

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