OLYMPUS®

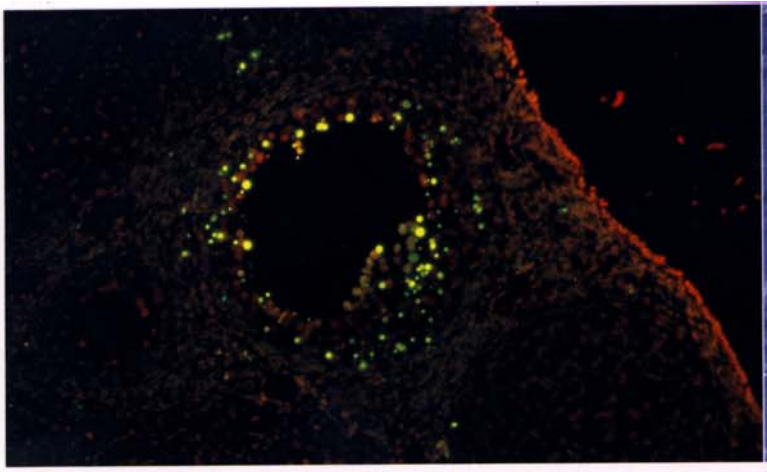
AUTOMATIC RESEARCH PHOTOMICROSCOPE

AX80

Olympus is about life. About photographic innovations that capture precious moments of life. About advanced medical technology that saves lives. About information- and industry-related products that make possible a better living. About adding to the richness and quality of life for everyone. Olympus. Quality products with a **FOCUS ON LIFE**

PROVIS

PROVIS



Mouse ovary (PI+FITC)

PtK$_2$ cell (DIC image)

Expanding the realm of leading-edge re with sophisticated automation and phot

WORLD CLASS OPTICS

Exceptional image resolution and contrast

Superior image resolution and contrast are achieved in any observation method thanks to the Olympus original UIS infinity-corrected optical system. In this system, light travels from the objective through the body tube as parallel rays to be focused by the telan lens for an aberration-free image. Attachments can be added between the objective and the telan lens without resulting in magnification alterations to the total magnification.

AUTOMATIC OPERATION

Simplified method changeover & reliable recording

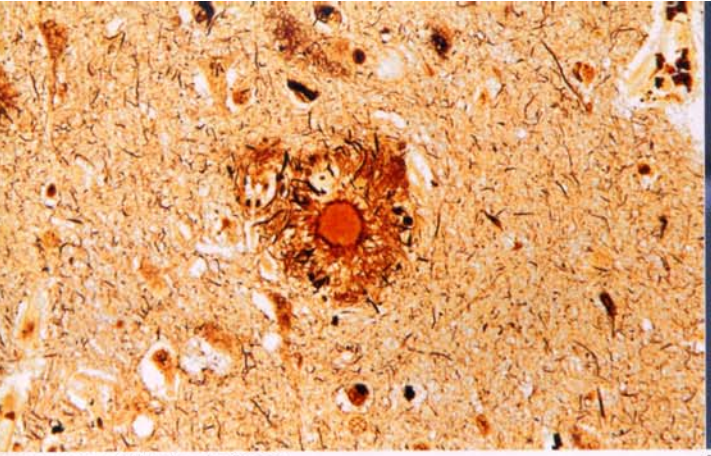
The AX80 offers an excellent level of automation thanks to the motorization of its revolving nosepiece, universal condenser, field stop for transmitted illumination and filter changeover, and its advanced auto focus and universal photo system. Optimum observation images are delivered with ease when the multicontroller is used to designate observation method and objectives. Reflected light fluorescence observation is achieved simultaneously with another observation method courtesy of motorized changeover of excitation wavelength.

AUTO FOCUS

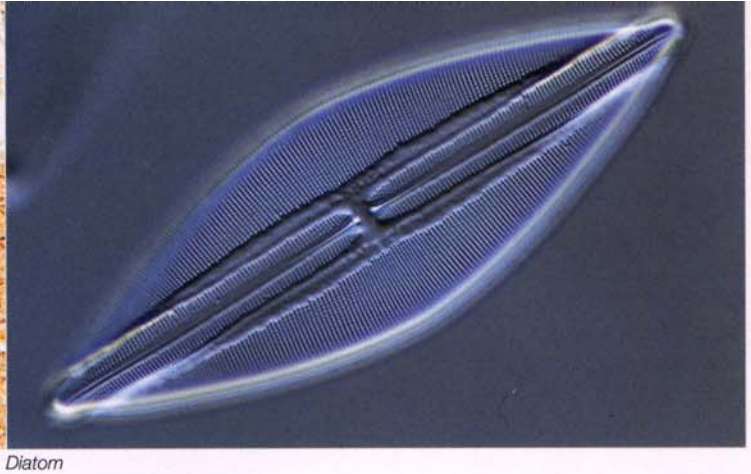
Revolutionary auto focus system

The AX80 incorporates a revolutionary auto focus system delivering precise auto focusing for objective magnification — 1.25×, 2×, 4×, 10×, 20×, 40× and 100× — in brightfield, darkfield, fluorescence*, polarizing* and Normaski DIC* observation methods. One-shot mode delivers a super-fast auto focus speed of 0.3-2 seconds for brightfield observation. The AX80 also offers the advantages of real-time mode. Focus thus remains sharp at all times regardless of objective or observation method changeovers or specimen movement.

* Require optional Memory Card.



mporal cortex of Alzheimer's disease



Diatom

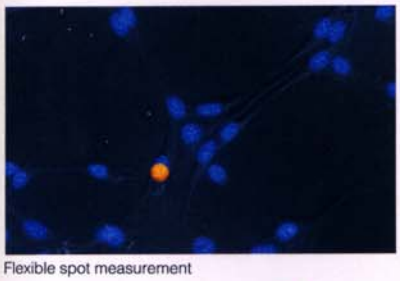
earch
/video documentation.

UNIVERSAL PHOTO SYSTEM

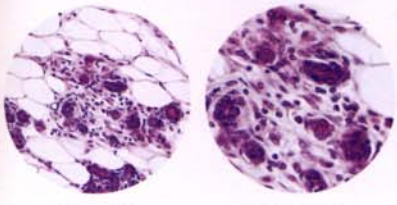
Zoom magnification & flexible spot measurement

Standard equipment for the AX80, the universal photo system incorporates advanced functions including a zoom magnification system with a 1×-2× zoom magnification change system for easy zooming and framing of a desired imaging area. A flexible spot measurement function* allows unrestricted movement of the 0.1% micro-spot and 1% spot measuring areas. The system also offers three automatic photometric modes such as Super FL mode, which provides for easy automatic exposure in fluorescence photomicrography.

* Functions within a 30% area of photo frame.



Flexible spot measurement



Zoom 1X Zoom 2X

COMPUTER CONTROL

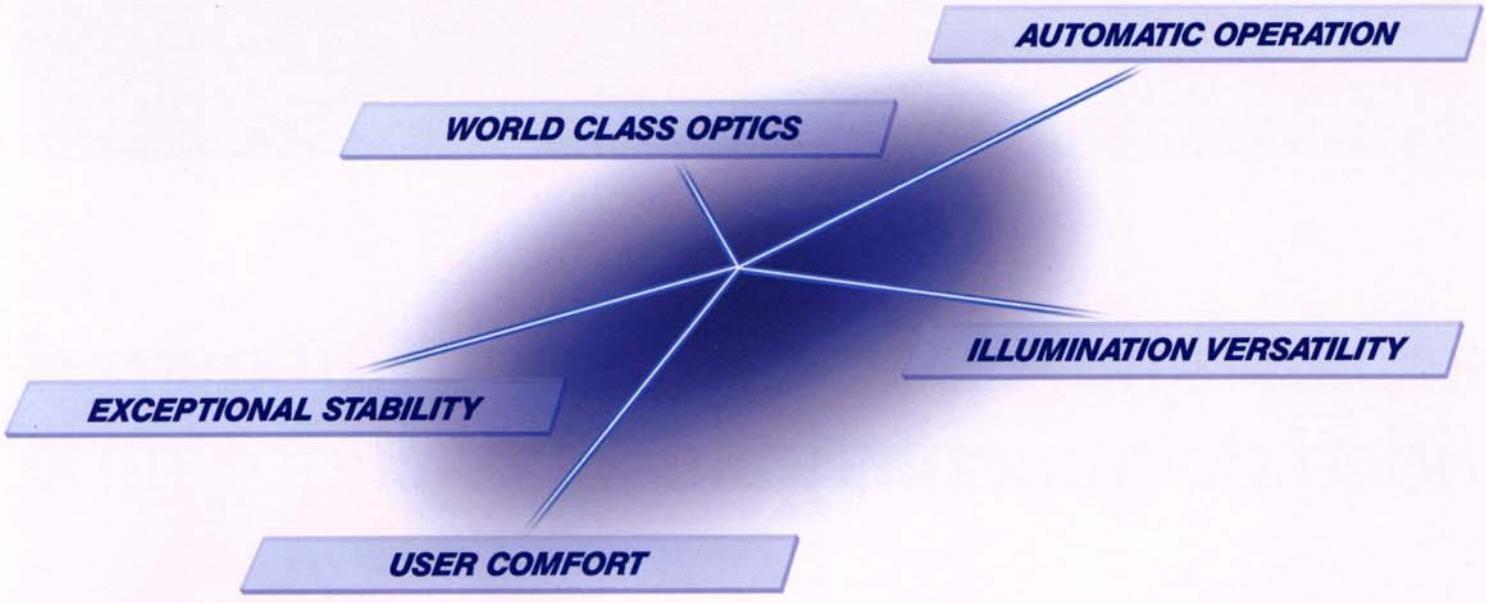
Easy computer operation for complex procedures

The AX80 provides for more complex procedures when the multi control box is linked to an external computer via an interface. A computer control system can thus be configured with ease for connected ancillary equipment used in F.I.S.H., patch clamping and other biological research applications. In addition to externally controlled observation, remote-controlled photomicrographic operation and high-speed data transmission are also possible.

EXCEPTIONAL STABILITY

Rigid Y-shape frame for stability & versatility

Exceptional versatility comes courtesy of the rigid Y-shape frame of the AX80 which supports the heaviest attachments. To reduce heat, the power supply was removed from the body of the AX80, which also boasts a heat-insulating structure. In addition to a wider work surface, the AX80 also offers vibration-resistant rigidity for optimum results of electrophysical experiments.



A powerful vision of future research from Olympus.

The PROVIS AX80 answers demands for automated microscopic procedure to bring higher standards to advanced research. Increased versatility and freedom to conduct high-level research are assured thanks to the AX80's automation of observation and photo and video documentation.

Extraordinary images are delivered by the world class UIS infinity-corrected optical system of this microscope. Olympus' top-of-the-line microscope, the AX80 offers unprecedented levels of automation and precision to fulfill the most demanding requirements of cutting-edge research.

*PROVIS stands for "PROfessional VISion."