

OCTAX polarAIDE™

Automatic assessment of oocyte quality and beyond

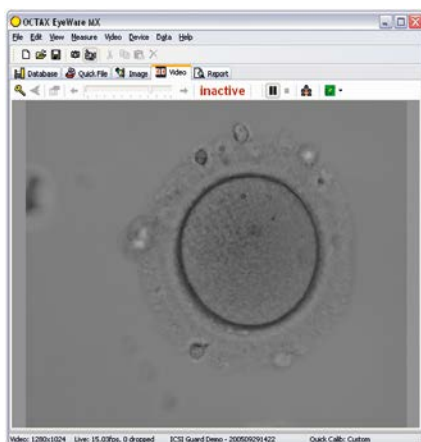
OCTAX polarAIDE™ is the next generation integrated polarization microscopy system based on OCTAX ICSI Guard™ technology*.

Take advantage of OCTAX's modular high end technology for evaluating your oocytes: OCTAX polarAIDE™ is available as stand-alone system, as an upgrade to OCTAX ICSI Guard™ or as an add-on to OCTAX Laser Shot™ systems.

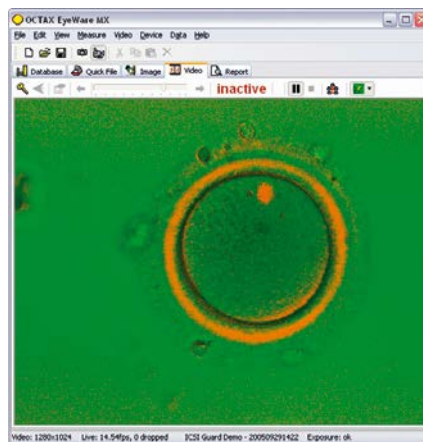
All functions are handled by one easy-to-use software: OCTAX EyeWare™ is the unique platform for the control of all OCTAX products: laser, polarization microscopy, image processing, data storage and motorized stage.

Main Features

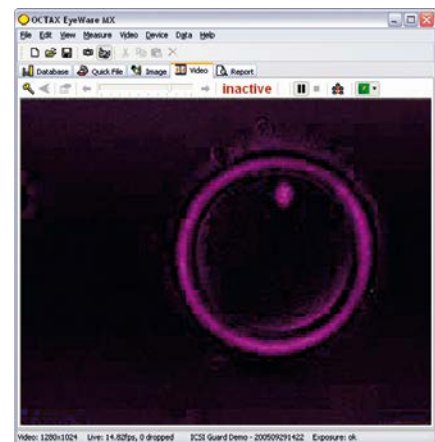
- Quantification of the birefringence of the zona pellucida
- Automatic scoring of the developmental potential of oocytes in seconds
- Orientation-independent live imaging of the meiotic spindle
- Simultaneous view of oocyte morphology and spindle
- Self-calibrating, no active calibration required
- One button instant on/off function for convenient use
- Spindle imaging under normal light intensity (bright field)
- Full OCTAX Laser Shot™ and Fertilase® compatibility, i.e. one camera, one software and one database for laser control, spindle visualization and image processing
- Support of all OCTAX EyeWare™ features (image acquisition and archival, video and time lapse video recording, biometric measurements etc.)



Metaphase II oocyte, polarAIDE™ in bright field optics.



Metaphase II oocyte, polarAIDE™ active, combined mode using red/green processed image. Red area indicates high birefringence.



Metaphase II oocyte, polarAIDE™ active scoring mode. Pink area indicates high birefringence. Colour-coded numerical score for oocyte quality is displayed automatically.

System Components

- Circular polarizer and GIF filter
- Liquid crystal analysis slider
- High resolution OCTAX USB 2.0 digital camera
- OCTAX polarAIDE™ software

polarAIDE™ is currently available for

- Nikon Ti, TE2000, TE200/300, Diaphot 200/300
- Olympus IX 50/70 and IX 51/71
- Zeiss Axio Observer, Axiovert 200, 135, 100
- Leica DMIRB, DMI 4000, DMI 6000
- other microscopes on request

For operating OCTAX polarAIDE™, oocytes have to be placed in glass bottom dishes instead of plastic dishes. A heated stage is mandatory to maintain optimum temperature. OCTAX polarAIDE™ supports high resolution live video display (1280x1024 pixel) on selected computer hardware.

* Patents pending. polarAIDE™ is currently not available in U.S.A.