

Assisted hatching is not recommended for routine use in all IVF patients.
Caution: Federal law restricts this device to sale by or on the order of a physician or practitioner trained and certified in its use.



ZILOS-tk[®]



The Most Portable and Flexible Zona Laser Drilling System

Zona Infrared Laser Optical System

ZILOS-tk® Offers Precise, Cons

Unmatched Portability and Flexibility

Combine the flexible and compact design of the ZILOS-tk® laser objective with a state-of-the-art notebook computer system and you are ready to take the ZILOS-tk® on the road. Simply pack the ZILOS-tk® in its protective case and slip the camera and notebook computer into a laptop case. And the ability of the laser objective to attach to **all inverted microscopes, both new and older models**, removes any worry about microscope compatibility at remote sites. Whether you are going cross-town or cross-country, there is no other system that can compare with the portability and flexibility of the ZILOS-tk®.



The Unique ZILOS-tk® Meets Your Laser Technology Needs

The ZILOS-tk® offers safe and precise computerized laser delivery for assisted hatching. The hardware and software features of the ZILOS-tk® work together seamlessly to provide a sophisticated yet easy-to-use laser system for the ART facility.

No Alignment Hassles

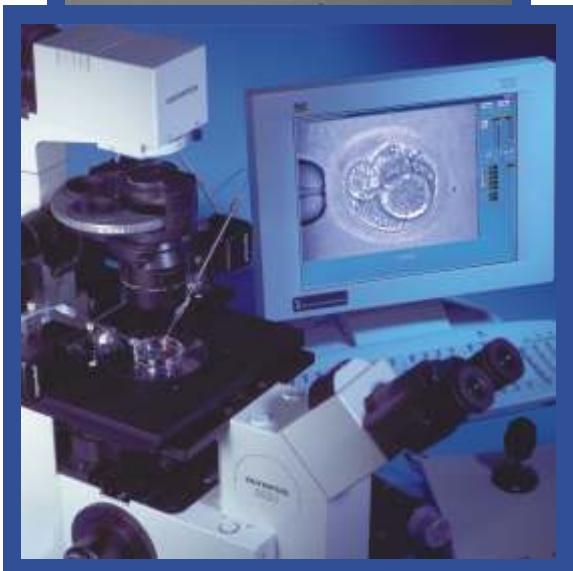
The ZILOS-tk® laser is aligned once at the factory and locked into place, so you never have to worry about alignment accuracy or perform tedious alignment procedures. Simply click the mouse to align the computer generated target with laser spot and you are ready to go.

Use Any Inverted Microscope

Quickly installs on any inverted microscope, even older models, and allows easy access to other installed objectives.

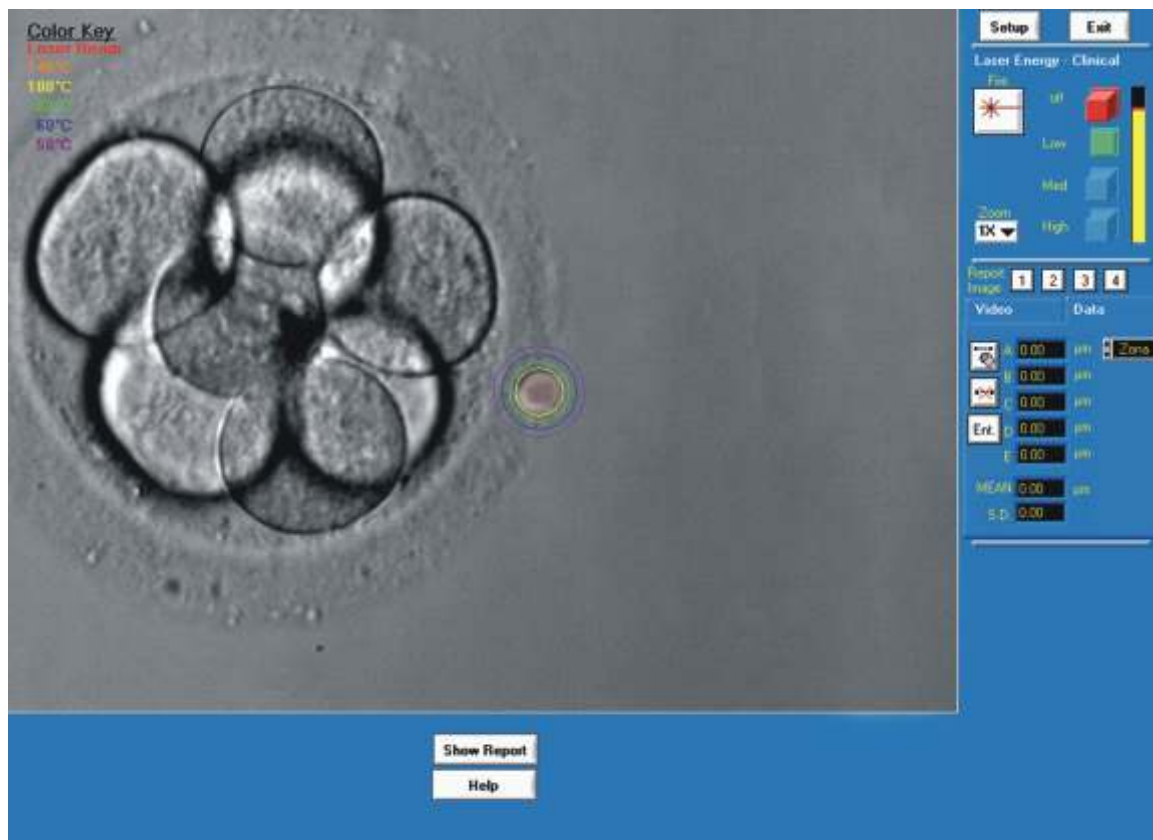
Installs on Turret, Leaves Ports Free

Leaves both the fluorescent light port and filter cube port open for normal use (SpindleView™ compatible). No components are required to be removed to use fluorescence.



Consistent, and Safe Zona Drilling

Easy-to-Use System with Powerful Capabilities



The screenshot displays the ZILOS-tk software interface. On the left, a grayscale microscopic image shows a zona with several overlapping circular Isotherm Rings. A color key in the top-left corner indicates temperature ranges: 100°C (red), 80°C (yellow), and 50°C (green). The right side of the interface features a control panel with the following elements:

- Setup Access:** A 'Setup' button at the top right of the control panel.
- Laser Pulse Selection:** A 'Laser Energy - Clinical' section with a 'Fire' button and a color-coded pulse selection bar (Low, Med, High).
- Laser Fire Button:** A red 'Fire' button.
- Image Zoom:** A 'Zoom' section with 'TX' and 'High' buttons.
- Report Images:** A 'Report Image' section with buttons for '1', '2', '3', and '4'.
- Video Controls:** A 'Video' section with a play button and a 'Zone' dropdown menu.
- Measurement Tools:** A 'Data' section with fields for 'A', 'B', 'C', 'E', 'MEAN', and 'S.D.', each with a numerical value and a unit (µm).
- Image Capture:** A 'Show Report' and 'Help' button at the bottom of the main window.

- Laser is integrated into specially designed 50x objective that functions in both visible and infrared wavelengths.
- High-power, Class 1, 1480 nm laser with pulse durations as low as 1 microsecond
- Choice of computer-generated drilling targets, including patent-pending Isotherm Rings™ to visualize heat conduction and hole size for safe zona ablation
- Select the laser mode that is best for your application - Clinical Mode with three user-defined, one-touch laser pulse settings, or Validation Mode with adjustable laser pulse and power settings
- Fire laser by mouse or foot switch remote
- Laser activation, image capture, and measurement controls available from main window for easy access - no need to constantly open dialog boxes
- Two-way data import / export, plus unlimited capture and storage of images
- Easy installation, simple set-up, and intuitive software

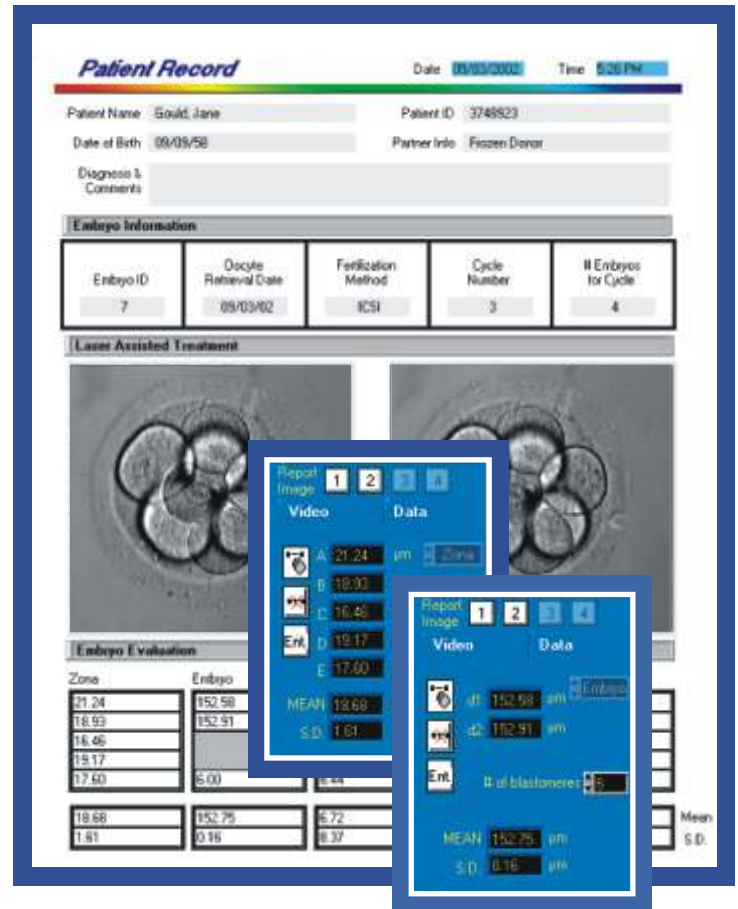
On-Screen Measures

Make on-screen measurements of zona thickness, embryo diameter, pronuclei diameters, and drill hole size. One user-defined ruler is also available.

Measurements, calculated means, and standard deviations are transferred to the report at the touch of a button.

Comprehensive Reports

- Create comprehensive reports combining general information, measurements and pre- and post-treatment images
- Reports saved in jpg format for easy import into other applications
- Import field data. Export report data in ASCII (txt and mer) format. Compatible with Infertility Database Systems, RecDate and others
- Option to replace Embryo Evaluation report data with two additional images
- Save unlimited individual images in jpg, bmp, or tif format



ZILOS-tk® Components

Standard ZILOS-tk® configuration includes:

- Integrated Class 1, 1480 nm laser-objective and turret adapters for installation on all models of inverted microscopes
- Laser controller box
- Analog or digital camera, with de-magnifier lens
- Choice of high speed, customized desktop system with flat panel monitor or laptop system
- Proprietary laser software

Optional Components

- Remote foot switch for firing laser
- Micromanipulators (shown at right with Eppendorf® NK2)



Call or write today for more information or to arrange an on-site demonstration!



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