

LYKOS with DTS CLINICAL SOFTWARE SPECS

The LYKOS with DTS software is for use with the LYKOS with DTS Clinical laser system.

Laser Settings

- Auto Labels:** Create unlimited auto-generated labels using standard text and programmable fields including entered patient and embryo data, laser specific data and system data
- Image Capture:** Set Save Location
Set Image Type (JPG or TIF)
Set Save Mode (Manual or Auto and file naming conventions)
Enable Auto Capture on Laser Fire
Enable Image File Name Label and Watermark
- Laser Settings:** Enable laser and remote laser fire
Set Target Type (Circle, Arrow, Isotherm Rings)
Set custom Isotherm temperature ring and associated color
Set Blanking type
Set Fire Animation (None, Pulse, Ping)
Select Audio Feedback sound
Set Pulse Resolution (Validation Mode)
Enable Multipulse
Set Clinical Pulse settings (High, Medium, Low)
- Overlay Settings:** Enable and configure Crosshairs
Enable on-screen Scale
- Time Lapse:** Set Time Lapse Interval, Duration and Playback Speed
- Video Capture:** Set Save Location
Set Save Mode (Manual or Auto and file naming conventions)

Optics Settings

- Camera:** Select device
Set frames per second (FPS)
Actual frames per second (FPS)
Enable resizing of video image
Automatic adjustment of exposure
Set Black Level and Gain Raw
Set White Balance
- Objective:** Add new objectives
Copy existing objectives
Add objective name and description
Select type (laser or standard)
Calibrate X and Y magnification
Align laser target
Set or autodetect COM port (laser communication)

Patient Information

- Patient Info:** Patient ID
First Name
Last Name
Date of Birth
Physician

Embryo Information

- Embryo Info:** Embryo ID
Retrieval Date
Fertilization Method
Cycle Number
Embryos in Cycle
Note
- Measurement:** Tools allow measurement of various embryo parameters on captured images. Each measure visible as graphic overlay, including length in micron
- Embryo:** Five embryo diameter measurements. Mean & Standard Deviation. Blastomere count
- Zona:** Five zona thickness measurements. Mean & Standard Deviation
- Drill:** Five-hole size measurements. Mean & Standard Deviation
- Pronuclei:** Two diameter measurements for two separate pronuclei. Mean for each pronuclei

Images and Videos

- Images:** Save up to 4 images to report database
Save unlimited images to disk
Manual and automatic naming options
Automatically save images on laser fire
Unlimited automatic image labels may be stored and enabled
Add freehand text, circles, rectangles, lines, and image measures be to captured images
Open and view saved images within program.
- Videos:** Capture and store real time and time lapse video in .mp4 format
Ability to set maximum recording length
Manual and automatic naming options
Open and play saved videos within program

Laser Modes

- Clinical:** Select Low, Medium or High laser energy (as entered under Laser Settings)
15 second timer appears
Press fire button or use foot switch to fire laser
Dynamic Targeting System
- Validation:** Adjust Power % using entered value
Adjust Pulse (μ m) using entered value or slider control
Fire laser by mouse or foot switch
Dynamic Targeting System
- Multipulse:** Adjust Power % using entered value
Adjust Pulses/Sec using entered value
Adjust Total Duration (sec) using entered value
Adjust Pulse Duration (μ m) using entered value
Enable and disable button
600 second firing limit
Laser fires by foot switch only
Halt function to immediately stop laser from firing even if foot switch is pressed

Dynamic Targeting System

- Modes:** Clinical; Validation
- Laser Paths:** Single Shot
Line/Curve
Freehand
Multipoint
Rectangle
Circular Arc
- Quality Control:** Automated Initialization and Validation routines
Built-in Reporting

Reports & Database

- Reports:** Ability to design unlimited, custom reports
Single page or multipage
Include any saved data and system fields (e.g., date and time) Include saved Report Images
Format text font, size and color
Header and footer report sections for repeating information on each page
- Database:** Selection and filtering panel for ASCII output of data
Built in database maintenance for back up, restoring optimization
- Support** Ability to Save Support Package in the event of error
Includes Event Log and Applications settings
Optionally includes Report template and Database