

Feature	LYKOS (Ver. 5.10)	LYKOS – DTS (Version L 6.4)	ZILOS-tk
Wavelength	1460 nm	1460 nm	1460 nm
Power @ Focus	300 mW	300 mW	300 mW
Min. Laser Pulse Duration	1 microsecond	1 microsecond	1 microsecond
Max. Laser Pulse Duration	3000 microseconds (3.0 milliseconds)	3000 microseconds (3.0 milliseconds)	3000 microseconds (3.0 milliseconds)
Physical Laser Alignment	Not needed – set and locked at factory	Auto align after manual RED-I superimposition	Not needed – set and locked at factory
Target locator visible through microscope eyepieces	Yes: Built-in RED-i target locator	Yes: Built-in RED-i target locator	No RED-I target locator
Locked Laser Technology	Yes – locked to precise optical axis to hit optimum target in field of view	Yes and laser can move at small angles around an optical axis	Yes – locked to precise optical axis to hit optimum target in field of view
Surfaces through which the Laser Passes that are Completely Protected from Environmental Contamination (dirt, dust, humidity)	Collimating Lens = Yes Dichroic Mirror = No Objective Base Lens = No Objective front Lens = No	Collimating Lens = Yes Dichroic Mirror = No Objective Base Lens = No Objective front Lens = No	Collimating Lens = Yes Dichroic Mirror = No Objective Base Lens = No Objective front Lens = No
Objective	Standard 40x, 0.60 N.A. I.R.	Standard 40x, 0.60 N.A. I.R.	Standard 40x, 0.60 N.A. I.R.
Risk of Fiber Optic Tip Occlusion by Debris	N/A	N/A	N/A
Laser Settings under Software Control	Clinical Mode, with 3 user-defined one-touch laser settings Validation Mode, with adjustable laser pulse duration and power <i>(not for use on human embryos in clinical settings)</i>	Clinical Mode, with 3 user-defined one-touch laser settings: 200, 400, 600 microseconds Validation Mode, with adjustable laser pulse duration and power; DTS features <i>(not for use on human embryos in clinical settings)</i>	Clinical Mode, with 3 user-defined one-touch laser settings Validation Mode, with adjustable laser pulse duration and power <i>(not for use on human embryos in clinical settings)</i>

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IEC Laser Class	Class 1	Class 1	Class I
Installation	Turret Mounted Leaves both the fluorescent and filter cube ports open for normal use	Turret Mounted Leaves both the fluorescent and filter cube ports open for normal use	Turret Mounted Leaves both the fluorescent and filter cube ports open for normal use
Microscope Compatibility	Most brands/models of inverted microscopes, including older models LYKOS laser objective can easily be moved from microscope to microscope, regardless of brand or model. No worry about upgrading microscopes in the future.	Most brands/models of inverted microscopes, including older models LYKOS laser objective can easily be moved from microscope to microscope, regardless of brand or model. No worry about upgrading microscopes in the future.	Most brands/models of inverted microscopes, including older models ZILOS-tk laser model can easily be moved from microscope to microscope, regardless of brand or model. No worry about upgrading microscopes in the future.
Microscope Functionality (fluorescence)	Since the laser is installed on the turret (as is a standard objective), it does not need to be removed to use the other microscope features (e.g. fluorescence). Turret freely rotates 360° for access to other objectives.	Since the laser is installed on the turret (as is a standard objective), it does not need to be removed to use the other microscope features (e.g. fluorescence). Turret freely rotates 360° for access to other objectives.	Since the laser is installed on the turret (as is a standard objective), it does not need to be removed to use the other microscope features (e.g. fluorescence). Turret freely rotates 360° for access to other objectives.
HT Oosight Use without Laser System Component Removal	Yes – special software created to run both systems at same time	Yes – special software created to run both systems at same time	Yes – special software created to run both systems at same time
Portability	Most portable unit, especially with laptop Easily installed on all microscopes	Most portable unit, especially with laptop Easily installed on all microscopes	Most portable unit, especially with laptop Easily installed on all microscopes
Camera Format & Resolution	Digital 1280 x 1024 digital resolution	Digital 1280 x 1024 digital resolution	Digital 1280 x 1024 digital resolution

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Video Refresh with Digital Camera	No noticeable delay. Seamless stream from camera to monitor. No “jerky” motion. No window size adjustments needed	No noticeable delay. Seamless stream from camera to monitor. No “jerky” motion. No window size adjustments needed	No noticeable delay. Seamless stream from camera to monitor. No “jerky” motion. No window size adjustments needed
Hands-free Remote Fire Foot Switch Included	Yes	Yes	Yes
Isotherm Rings (patented)	Yes Hardwired – cannot be altered by user Automatic adjustment based on heat conduction determined by laser power and pulse length Select which rings to view	Yes Hardwired – cannot be altered by user Automatic adjustment based on heat conduction determined by laser power and pulse length Select which rings to view	Yes Hardwired – cannot be altered by user Automatic adjustment based on heat conduction determined by laser power and pulse length Select which rings to view
Measurement Tools	Yes	Yes	Yes
Automatic Calculation of Means & SD	Yes	Yes	Yes
Ease of Measurement Tool Use	Intuitive, easy to use	Intuitive, easy to use	Intuitive, easy to use
Recall Stored Images for Measurement	Yes	Yes	Yes
Image Zoom and Pan	Yes	Yes	Yes
Laser Fire under Zoom	Yes	Yes	Yes
Pre-calibrate Additional Objectives	Yes	Yes	Yes
Built-in Report	Yes Auto Date & Time stamp. Includes choice of 2 images with measurement data or 4 images	Yes Auto Date & Time stamp. Includes choice of 2 images with measurement data or 4 images	Yes Auto Date & Time stamp. Includes choice of 2 images with measurement data or 4 images

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2-way Data Import / Export	Yes	Yes	Yes
Image Storage	Yes	Yes	Yes
Image File Formats	JPG, BMP, TIF	JPG, BMP, TIF	JPG, BMP, TIF
Objective Calibration Information Saved in Image Header	Yes (JPG & TIF) Calibration information is stored to ensure measurement accuracy on recalled images	Yes (JPG & TIF) Calibration information is stored to ensure measurement accuracy on recalled images	Yes (JPG & TIF) Calibration information is stored to ensure measurement accuracy on recalled images
Auto-Image Capture on Laser Fire	Yes	Yes	Yes
Auto Image / Video File Naming	Yes	Yes	Yes
Auto-Image Labels	Yes Select from date, time, objective info, plus any patient data input on report. User-defined location. Can set up multiple labels in multiple locations	Yes Select from date, time, objective info, plus any patient data input on report. User-defined location. Can set up multiple labels in multiple locations	Yes Select from date, time, objective info, plus any patient data input on report. User-defined location. Can set up multiple labels in multiple locations
Image Annotation Tools	Yes	Yes	Yes
Unlimited Thumbnail Capture	Yes	Yes	Yes
Video Recording – Real time	Yes	Yes	Yes
Video Recording – Time-lapse	Yes Includes ability to set user-defined capture interval, length of time to record and playback speed (frames/sec)	Yes	Yes Includes ability to set user-defined capture interval, length of time to record and playback speed (frames/sec)

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Ability to Set Max Video Record Time	Yes	Yes	Yes
Video Thumbnail Gallery	Yes	Yes	Yes
Computer Included	Yes (desktop or laptop choice)	Yes	Yes
Standard Windows Help	Yes	Yes	Yes
ISO Certification	13485: 2016	13485: 2016	13485: 2016
Patent Status	Isotherm Rings Patent 7,072,377 July 4, 2006	Isotherm Rings Patent 7,072,377 July 4, 2006	Isotherm Rings Patent 7,072,377 July 4, 2006
Movable laser with line, curve and multipoint forms	No- Fixed beam	Yes	No- Fixed beam
15 point calibration on set up feature	No	Yes	No
Advanced image capture via GO 5000 digital camera	No	Yes	No
Automatic verification tool in software for magnetic field alignment on daily basis at initialization	No	Yes	No
Target slide with grids to aid in alignment & power setting	Special order	Yes	Special order