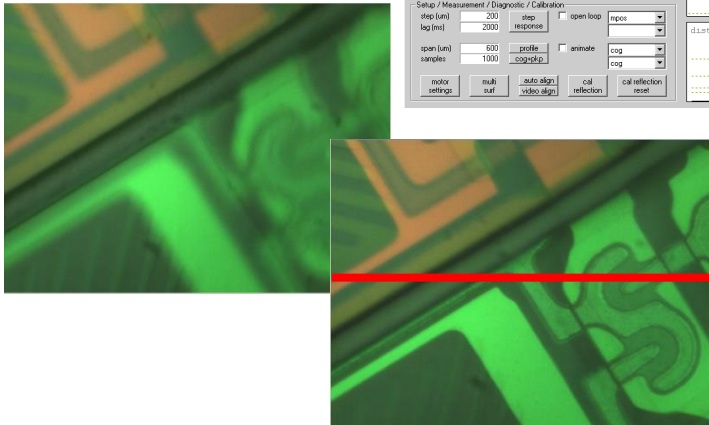
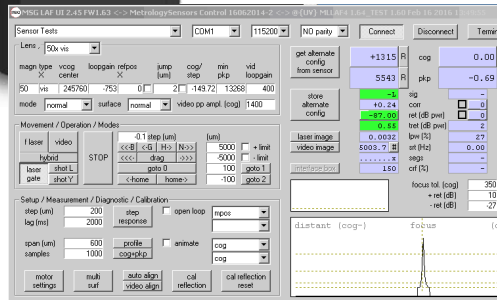


LAF5S

Advanced Laser Auto Focus & Tracking System for microscope automation



- Applicable to Plan Apo lenses 1x-100x, VIS, IR & UV
- Full laser line with segment processing
- Fast internal image sensor for minimum update latency
- Motor controller interface with analog & digital outputs for a seamless closed loop integration with third party's stepper motor, piezo, voice-coil or servo drives
- Applicable to Plan Apo lenses 1x-150x, VIS, IR & UV
- User interface with enhanced network capabilities for multi sensor operation
- Easy integration of UI functions into the customer software without software library needed

- Multi surface recognition to track focus on a determined surface in multilayer substrates
- User Interface supported optical alignment and motor setup
- Enhanced network capabilities for multi sensor operation

Specification LAF5

Lens Type	APO Plan Infinite Microscope Objectives				
Magnification	5x	10x	20x	50x	100x
Numerical aperture	0.14	0.28	0.42	0.55	0.70
Sample rate	4kHz max.				
Image sensor	250 full frames/sec. max.				
Surface detection Range	±12000µm	±4000µm	±1500µm	±300µm	±100µm
Accuracy*	Laser mode: +/-0.4 of Lens DOF				
Light Source	Safety Class III R Wavelength 660nm-670nm, 785nm				
Operation Temperature	+ 5°C to + 50°C				
Beam Shape	45 ° tilted laser line				
Weight Sensor + cable	400gr+ 140gr				
Weight Interface	400gr				
Recommended port	Beamsplitter 50/50 @670nm or				
Laser AF Cycle time			0.1s		Auto Tracking
Power	In	+12V DC sensor only, 24-48V sensor with Motor controller			
Distance Output	Analog	0- 10V			
Signal Quality Output	Analog	0- 10V			
Communication	Digital	RS232	Ethernet optional		
Laser ON/OFF	In	TTL	& via RS232		
*All data refer to measurement on plain glass					

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Table 1

Working Principle

