# Thermal Laser Stimulation

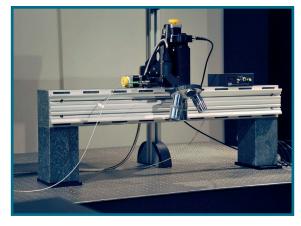




# Thermal Laser Stimulation

Thermal Laser Stimulation is a failure analysis technique allowing to localize and read out stored information in the memories of a chip (SRAM, BBRAM,...) by using a 1310 or 1420 nm laser.





### Laser

	PDM - 1310	PDM - 1420
Wavelengh	1310 nm	1420 nm
Continuous wave/ Peak Power	300 mW/1.2 W	350 mW/1.2 W
Pulse duration	from 3 ns to continuous wave	
Repetition rate	from single-shot to	o continuous wave
Spot Size	down to 1 µm <sup>(1)</sup>	
Command interface	TTL/LVTTL/ Software and DLLs	
Ouptut	single-mode fiber	
	(1) thro	ugh an ALPhANOV microscop

### Optical

Transmission typ.	>90% of transmission	
Vision	High resolution IR camera	
Lighting system	LED IR lighting system	

## Compatible with

- S-LMS laser fault injection station
- D-LMS laser fault injection station
- esDynamic software plateform

## Microscope positioning

Axes number	XYZ	
Travel range	52 mm	
Resolution	0.315 µm	
Repeatability	+/- 0.8 µm	
Max velocity	20 mm/s	