

UPDATED M350 for ACTIVE IC TRIM

WT35X0_

An advanced new platform for high precision, high throughput wafer-level optimization of linear and mixed-signal IC devices.

- _ New Laser Sources
- _ New galvanometer scanner setup
- _ Improved laser beam mirrors
- _ Camera updates to GigE PoE
- _ Software enhancements



SPECIFICATIONS _



SYSTEM SPECIFICATIONS

Closed Loop X/Y/Z, Theta stage		
X/Y resolution	_ 0.02 μm	
X/Y accuracy	_ ± 2.0 μm	
Z travel range	_ 10 mm (0.39")	
Z resolution	_ 0.13 μm	
Z accuracy	_ ± 0.5 μm	
Theta travel	_ ± 5°	
Theta resolution	_ 1.4 µrad	
Chuck size	_ Supports 100 - 200 mm wafers	
Chuck material	_ Al, Ni or Au finish or optional Hot Chuck	

PROBING SYSTEM

Card size	_ 4.5 to 9" standard, _ 12" optional
Probe vision (optional)	 High and low viewing magnification of probe pins Automatic Probes-to-Pads-Alignment ± 4 µm accuracy

BEAM POSITIONER

Type	Galvanometer-based
	Stationary optics
Positioning accuracy	_ <1µm (3 sigma)
Positioning resolution	_ <0.06 µm
Beam field size	_ 14mm(0.55") diameter
Minimum spot size	_ 6.5-12 μm
	_ 5.5 μm optional
Depth of Focus	_ 25 µm at 6 µm spot

VIEWING / ALIGNMENT

- Dual CCD camera operation-separation hi-mag viewing integrated vision processing sub-system simplifies setup and improves reliability and throughput of automatic wafer alignment
- Proprietary LaserEye technology for precise focus adjustment and in-die/reticle alignment

WAFER HANDLER (OPTIONAL)

3-axis servo-controlled robot and pre-aligner		
Capacity	_ Up to 50 wafers _ 2 cassettes	
Control	Manual or AutomaticFor unattended opteration	
Wafer support	_ 100 mm - 200 mm wafers _ With ability to process partial wafers	
Mapping and effector (optional)	 Detectspresence, absence or corss-slotted for all wafer 	
OCR and bar code reader (optional)	_ SEMI character fond with Checksum and barcode	

TESTER

ATE-Measurement Instrumentation

- Enhanced tester interface (ETI) and stop trim I/0 integrates to industry-standard automatic test equipment (ATE)
- Integrates easily with VXI, PXI and GPIB instrumentation and custom test solutions
- Optional PSG measurement system V2000 (high precision force V, force C, multi measurement unit)

LASER SOURCES

	WT3510	WT3520
Туре	_ DPSS Nd:YVO4	_ DPSS Nd:YLF
Wavelength	_ 1064 nm	_ 1053 nm
Laser pulse width	_ 7 ns	_ 50 ns
Max. Laser energy @DUT	_ up to 10 μJ _ typical 3 μJ	_ up to 15 µJ _ Typical 5 µJ
Laser energy stability	_ <1.7% rms @ 1kHz	_ <1.5% rms @ 10kHz

SYSTEM CONTROL

- _ Industrial PC
- _ Interfaces: Ethernet, RS232, RS485, USB
- _ Windows 10 Operating System
- _ GUI based trim/test part set-up

SYSTEM COMPLICANCE

- Class 1 Laser Safety
- _ CE or UL Mark

BENEFITS

Fully integrated state-of-the-art Laser Trimmer and Wafer Prober system

Seamless integration to today's ATEs via Group's enhanced tester interface software and real-time tester interface hardware

- Proven superior laser control ensures process consistency & highest yields
- Advanced vision and motion subsystems provide dramatically improved positioning and alignment capability
- _ WaferTrim™ software improves efficiency