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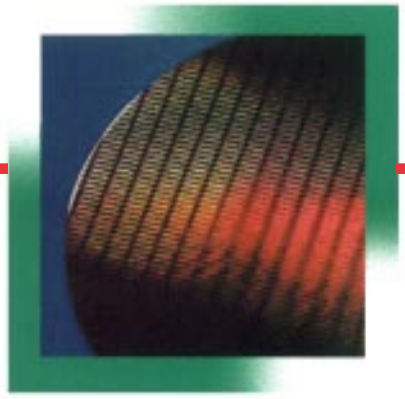

NEW PRODUCT INTRODUCTION

SEMICONDUCTOR

- **0.15 nm Resolution***
  - Highest Resolution
  - Superior Overlay Performance
- **2.55 m/sec Velocity***
  - Highest Velocity Tracking
  - Maximum System Throughput
- **0.1 nsec Data Age Uncertainty**
  - Unmatched Dynamic Accuracy
  - Synchronization of All Axes
- **4 Axes per Board**
  - Reduced Backplane Space

** Two-pass plane mirror interferometer configuration.*

ZYGO CORPORATION'S

ZMI 4004™ measurement board

The ZMI 4004 measurement board is a major new addition to Zygo Corporation's industry leading family of Displacement Measuring Interferometer products. Displacement Measuring Interferometers are critical to insuring accurate dynamic stage positioning during the lithography process. The ZMI 4004 enables next generation lithography tools to achieve significantly improved overlay and higher throughputs.

The ZMI 4004 electronics are part of a total Displacement Measuring Interferometer solution which includes the model 7712 laser and a wide range of interferometers.
A ZMI 4004 system insures the highest resolution and velocity while providing superior dynamic accuracy and data age uncertainty.

Zygo Corporation is the technology and applications support leader in Displacement Measuring Interferometry with products advanced enough to meet your next-generation stage metrology requirements, ***today***.

Better Technology.
Better Metrology.

zygo®

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Product Specifications

ZMI 4004 Measurement Board

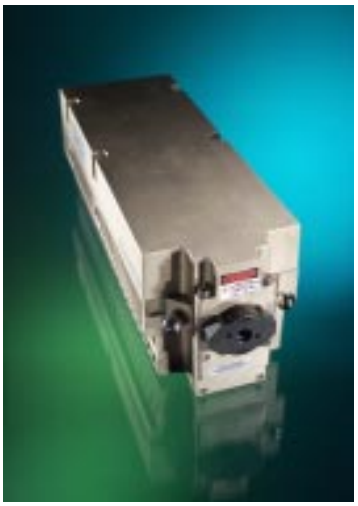
Board Features

Resolution	
1-pass*	0.31 nm
2-pass**	0.15
Velocity	
1-pass*	5.1 m/sec
2-pass**	2.55
Data Age Uncertainty	± 0.1 nsec
Data Rate	10 MHz
Data Format	Parallel VME High Speed Serial
Axes per Board	4
Electronics Format	6U VME

7712 Laser Head

Laser Head Features

Output Power	>1.35 mW
Split Frequency	20 MHz
Beam Diameter ($1/e^2$)	3, 4.6, or 7.5 mm
Lifetime	>50,000 hrs
Vacuum Wavelength Stability (1 hour)	0.5 ppb (3 σ)
Heat Dissipation	<2 Watts
Integral Liquid Cooled	
Kinematic Mounting Interface	



* Linear interferometer with retroreflector target

** Plane mirror interferometer

US and Foreign patents pending.

Better Technology. Better Metrology.

ZYGO CORPORATION
LAUREL BROOK ROAD
MIDDLEFIELD, CT 06455
VOICE: 860 347-8506
FAX: 860 346-4188

WWW.ZYGO.COM
EMAIL: inquire@zygo.com

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