

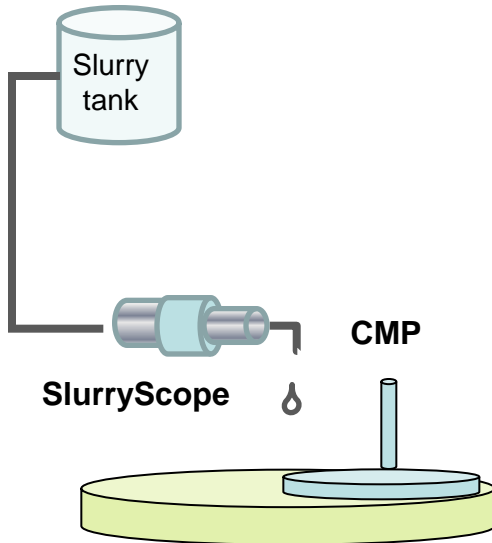
# SlurryScope

## Real-time Continuous CMP Slurry Particle Measurement

Monitoring oversized particles

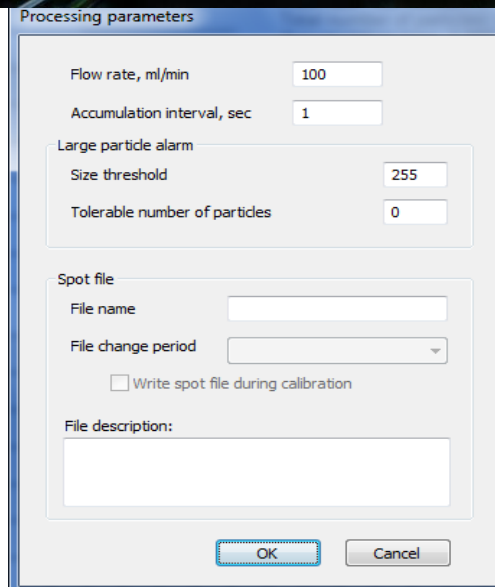
### APPLICATIONS

- Continuous in-line process control
- CMP slurry QA and contamination control
- Detection of particle agglomerates and population distribution batch-to-batch
- Filter loading and breakthrough detection
- Factory loop or point-of-use monitoring



### BENEFITS

- ✓ Improve yield and prevent wafer scratching
- ✓ No sampling - Continuous monitor of slurry flow
- ✓ Immediate alarming of control limits
- ✓ Improve CMP process control
- ✓ Correlation of LPC to wafer CMP processing
- ✓ Interface for continuous particle tracking
- ✓ User friendly GUI – for PC interface
- ✓ Slurry batch Change in LPC
- ✓ Improved control of PSD and polishing rate
- ✓ Direct measurement of the slurry eliminates dilution problems such as pH shock, dilution errors

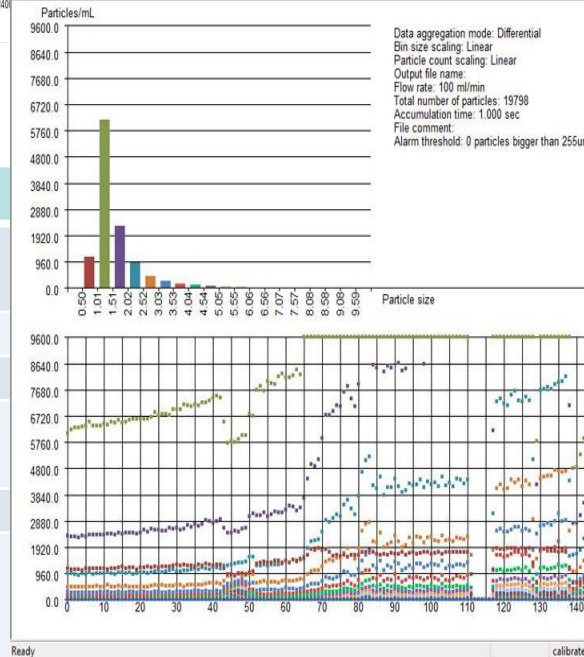
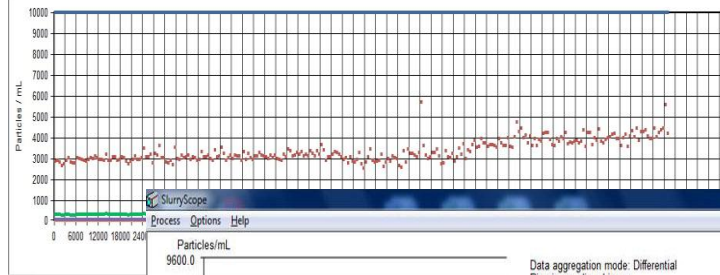
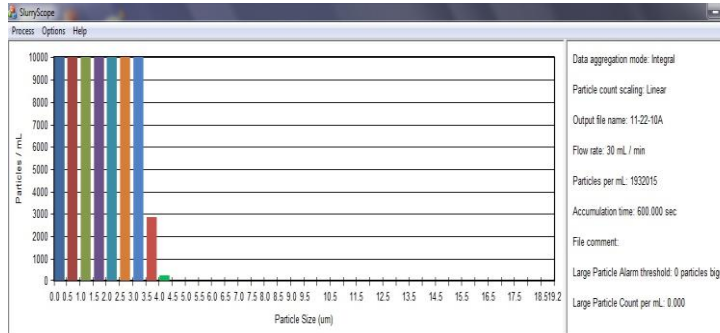


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# SLURRYSCOPE

## FEATURES

- ❖ Direct in-situ monitor of undiluted slurry flow in loop or POU
- ❖ Slurry flow monitoring to 60ml/min with time-stamp identification
- ❖ Detect large particles of 1.0 - 12.0 micron in fully concentrated slurries
- ❖ Fast analysis and response time
- ❖ High sensitivity to particle size distribution and percent solids
- ❖ Fully automated GUI control
- ❖ Auto-calibration
- ❖ Comprehensive interface for data collection, monitoring, user-defined control limits and alarming



SPECIFICATION	
Power:/Communicat ion	FireWire (IEEE 1394)
Line pressure	1 to 50 psi
Flow rate:	up to 60 ml/min
Sample temperature:	5 - 50° C
Oversize particle detection size range:	1.0 – 12.0 micron
Auto-calibration:	DI water; NIST latex
Wetted surface materials:	Teflon®, Sapphire, Chemraz®
Response time:	<0.1 sec
Environment temperature:	5-50° C
Humidity:	Non-condensing
Control and Display system:	PC controller and monitor Windows 7® based