

QualiLab Elite®

Benchtop Plating Bath Analyzers



A Single Lab Instrument. Multiple Applications.

Packed with potential, the QualiLab Elite® benchtop plating bath analyzer boasts modular design configurations that range from a simplified, compact single-sample manual analyzer to a fully automated closed-cell system.

The QualiLab Elite is a versatile single benchtop lab instrument for all your needs. QualiLab Elite delivers the chemistry analytical performance you need to control today's rapidly evolving technologies for chip manufacturing, advanced packaging, IC substrates, printed circuit boards (PCB) and other advanced metal deposition applications.

Cyclic Voltammetric Stripping (CVS). Potentiometric titration. UV-Vis spectroscopy-based analytical techniques. In the face of ever-shrinking feature sizes and process windows, QualiLab Elite does it all.

Application-specific analytical methods—combined with the power of the QualiLab Elite system—provide accurate analysis for easy replenishment and improved yield from your plating solutions.

Key Features

- Measure up to 48 samples without operator intervention
- Analyze all additive components on the same turntable
- Ideal for Electroless Deposition and Electroplating
- Maximize yield, reliability, and profitability
- Modular configurations—Minimal external components
- Support for multilanguage operations
- Ergonomic design that maintains high precision and speed of analysis.



QualiLab Elite V10



QualiLab Elite V20



QualiLab Elite V30

Configuration Options

QualiLab Elite V10	QualiLab Elite V20	QualiLab Elite V30
Manual analysis	Automated analysis up to 12 samples	Automated analysis up to 48 samples
0-, 2-, 4-syringes	2- or 4-syringes	4-syringes
Auto prep of support electrolyte	Auto prep of support electrolyte and calibration standard	Auto prep of support electrolyte and calibration standard
Automated VMS delivery*	Automated VMS delivery*	Automated VMS delivery
UV-Vis spectroscopy*, Potentiometric titration*	UV-Vis spectroscopy*, Potentiometric titration*	UV-Vis spectroscopy*
		Automated cell rinsing and draining

* Optional

Applications

- **Electroplating:** Organic additives and inorganic bath components for Cu, Ni, Sn, SnAg, SnPb, Pd, Zn and Co
- **Electroless Deposition:** Reducing agents, complexing agents, buffering agents, background ions in Co, Cu, Ni and Pd

Analytical Techniques

- Electrochemical Analysis: LAT, MLAT, DT, RDT, QC, RC, DPA and SBP
 - CVS, CPVS
 - MPVS, Chronoamperometry, Chronopotentiometry (optional)
 - Electrode Potential

Other Features & Advantages

- Flexibility in programming of techniques and automation like DI Water Spray Cleaning, and Waste Removal
- “Get Me Expert” for easily accessible factory support and remote troubleshooting
- Embedded User Help
- Advanced reporting and data handling: Statistics, Trend Analysis, and History Management
- Communications: TCP/IP Networking, LIMS
- Built-in galvanostat for advanced electrochemistry
- Temperature controlled CVS analysis cell
- User-independent accuracy especially for MLAT analytical techniques
- Low-maintenance reference electrode

Got questions? We've got answers. Contact us.



KLA SERVICES

From tool installation and system optimization to productivity enhancements and global supply chain management, KLA Services is a trusted partner to customers around the world — delivering an unrivaled experience focused on maximizing tool performance and availability.

KLA Corporation
www.kla.com

Rev 2.2_01-07-2025