A
REVOLUTION
IN METALS IDENTIFICATION AND ANALYSIS

CHEMLITE™ AND CHEMLITE™ PLUS HANDHELD LASER ANALYZERS

ChemLite™
Plus

TSI | Chem Logix™

Laser Instrument of Choice for Al Industry Leaders

TSI | **Chem Logix**™

A BETTER, HANDHELD LASER DEVICE FOR METALS ID

When you demand assurance of your metals readings, yesterday's X-ray technology doesn't measure up; it is time-consuming, unreliable for light metals analysis, expensive to service, and requires regulatory cost and hazard consideration. The ChemLite Laser Analyzer avoids all such issues and allows all users to analyze metals quickly, easily, and safely; just point and shoot for better analysis of metals and alloys in as little as 1 second, allowing you to analyze more than ever before. With laser accuracy on your side, you can make business decisions with greater confidence and maximize your crew's productivity – without stressing over regulatory burdens or safety concerns. With ChemLite laser analyzers, always count on:

LIGHTNING FAST, LASER ACCURATE

The ChemLite™ - series of laser metals analyzers revolutionize handheld alloy identification and analysis. Ideal for PMI, QC, and scrap sorting applications, ChemLite analyzers are trusted by alloy producers, cast houses and scrap operations around the world. Discover how its safe and intuitive operation empowers your entire team to measure metals fast – in as little as 1 second- and reach new levels of productivity and profitability.

ChemLite™ Plus Laser Metals Analyzer Model 4240:
Ensures correct identification of all metals and alloys more quickly and accurately for a wide range of metals analysis applications including PMI, quality control, and scrap sorting.

+ Measure a wide range of metals in just one second:
  Fe, Cu, Ni, Al, Ti, Mg, and more!

ChemLite™ Laser Aluminum Analyzer Model 4235:
Specifically designed to meet demanding performance requirements for industries in which specific alloy chemistry of aluminum and light metals is needed.

+ Measure light metals in three seconds:
  Al, Ti, and **Mg**
+ Differentiate between hard-to-distinguish aluminum alloys:
  7050 vs. 7075, 2014 vs. 2024, and 6061 vs. 6063

SUPERIOR PERFORMANCE
Excellent quantification with low limits of detection in as little as 1 second for unmatched reliability of even very close and difficult-to-define metals ID.
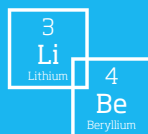
REGULATION-FREE, EYE-SAFE LASER TECHNOLOGY
Our patented ChemLite Laser Analyzers are Class 1M laser devices that are considered safe for all uses, including analysis of small and irregular pieces and turnings, without additional safety precautions or regulatory burdens common with X-ray devices.
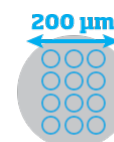
ARGON-FREE OPERATION
Sensitive analysis of metals without the need for argon purge gas. Saving you consumable costs and avoiding operation risks associated with argon use.

TRAMP DETECTION
Screen for contaminants like Beryllium and Lithium in Al-base down to 1 PPM to ensure metal and alloy purity.

LARGEST SPOT SIZE AND BUILT-IN CLEANING MODE
At 200µm, our 16x larger sampling spot size than other LIBS instruments, provides a more representative, precise measurement, and eliminates the need for complex rastering and moving parts; while a built-in cleaning mode burns away contamination to ensure accurate sampling.
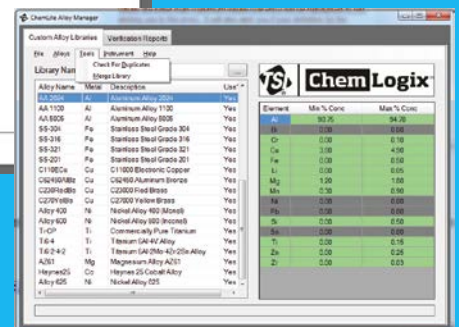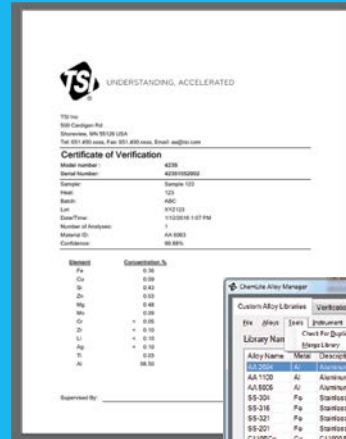
ADVANCED USER INTERFACE
A 5" color touchscreen, the largest of any handheld LIBS device, with easy-to-use navigation and workflow, makes detailed data available at a glance, including top ten alloy match list and graphical comparison to alloy definitions.

ChemLite Laser Analyzers are further set apart by their easy-to-use software that guarantees your instrument performs just as you expect under demanding conditions.
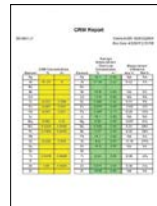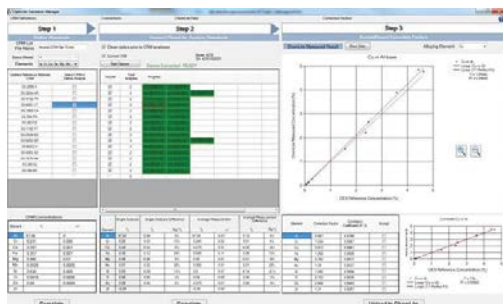
ALLOY MANAGER SOFTWARE

With the Alloy Manager Software that comes with each analyzer, users have the ability to generate reports and define custom alloy chemistries, allowing for greater customization of the instrument to better meet the needs of every operation.

OPTIONAL: FIELD STANDARDIZATION KITS

Fine tune your ChemLite™ Laser Analyzers to ensure peak-performance and accuracy with an easy-to-use, conveniently packaged standardization kit. The kit includes Standards Manager Software and Arconic Certified Reference Materials (CRMs). Intended for routine use, this accessory validates instrument operation and optimizes quantification accuracy with type standardization and/or drift correction. With ChemLite Field Standardization Kits, users can now mimic quality procedures performed on other devices, like Arc/Spark-OES.

FOR AN ON-SITE DEMONSTRATION, CONTACT A TSI® | CHEMLOGIX™ REPRESENTATIVE BY VISITING **TSI.COM/CHEMLITE** OR CALL **800-874-2811.**