

The X and Z of Scrap Processing

SciAps



The X

The world's lightest, smallest, fastest, high precision family of X-ray guns. Weighing barely 3 lbs, they're lightning fast, and can be used all day long without fatigue.

The Z

The ONLY high precision laser-based gun, works on all alloy types! Avoid the radiation and the regulatory hassles that may come with X-ray.

ONE BOX

Analyze every element,
sort every alloy with
the best precision
across the board.



The X and Z share accessories and user interface. Sort your "Lights" and ferrous lightning fast and accurately with the Z, your stainless, high temps and red metals with the X. Both X and Z back-up the other.



Meet The X

The lightest, fastest family of X-ray guns in industry.

The X and Z models deliver price and performance flexibility. Everything from basic stainless and MLC's sorting, to precise, high-throughput sorting of high temps, super alloys, brasses/bronzes, and wide array of aluminum alloys.

All models are upgradeable, anytime!

NEW! Turbocharge it!

Upgrade the X-200 or X-300 with SciAps latest innovation

the high brightness X-ray tube. Measure 0.2% Mg in 2 seconds, 0.02% Si in 5 sec. Comparable performance for P, S and Al.



X-300

The High Performer

It's the fastest, most precise alloy analyzer you'll ever use. Works great on stainless, high temps, superalloys, red metals, specialty alloys. It rivals our LIBS analyzer (the Z) on most Al alloys.



X-200, X-100

The Workhorses.

Comparable performance to other high end brands at a better price. The X-100 excludes Mg, Al, Si, P and S but you can upgrade any time.



X-50

The Basic Sorter

The inexpensive yet performance solution for stainless, high temps, red metals. Sort aluminum by 2000's, 7000's, 3000's and mixed low coppers.

New

Check out the SciAps AI App

It's totally unique to X-ray.

It's a dedicated X-ray App for fast, precise sorting of aluminum alloys. Sorts nearly every Al alloy in 2 sec, including those with 0.2% Mg content or higher. Available with any turbocharged X-200 or X-300. Sort Al almost as fast as our LIBS!



Meet The Z

The most advanced laser-based alloy analyzer available

The Z uses LIBS – laser induced breakdown spectroscopy. LIBS is similar to spark OES except it uses a pulse laser source instead of an electric spark. Like OES, LIBS delivers very accurate chemistry provided it's operated in an argon purge environment. For basic sorting, an air-burn Z is a lower cost option. Add argon purge capability any time.



Typical Reasons Users Choose Laser over X-ray?



CARBON! The Z is the only handheld analyzer on the planet that measures carbon

Aluminum. The Z sorts similar aluminum grades with both high speed and high precision. Especially those that differ by low concentrations of Mg, contain Li, or have beryllium contamination.

You must measure the elements Li, Be, B, C in alloys, or < 0.1% Mg. Examples beryllium coppers, lithium containing aluminums, cast irons with Mg restrictions, low silicon in steels.

Eliminate X-ray regulations, badges, and inspections. The Z analyzes all your alloys and can replace X-ray.

Key Advantages of the Z

Powerful Laser

Laser performance is determined by laser energy. With 6 mJ/pulse, the Z has the most powerful laser in the business.

No Grinding

Blast Through Surface Dirt. Dirty surfaces confound other LIBS, but not the Z. The Z fires 50 laser shots per second at the surface to burn off dirt and contamination prior to analysis.

Argon Purge

The Z is the ONLY LIBS with on-board argon purge (patented). Precision improves by 10x with argon purge, ask any spark OES user.

Don't want argon?

For basic sorting, air burn may be good enough especially with the Z's energetic laser. With the Z, you can start with air-burn, and upgrade to argon purge anytime. Why lose the flexibility of air-burn or argon? The Z is the only LIBS unit that offers both.

Eliminate "bad burns" forever.

SciAps Z's are standard with on-board camera and laser targeting. Makes turnings, irregular shaped materials easy to test.



Reliable grade ID requires good chemistry...
Good chemistry requires argon and a high energy laser



Z's built-in camera view



Z's quartz shield

Still Not Convinced? ➡

Still Not Convinced?

Consider the top 5 reasons for choosing a SciAps "gun" over any other brand.

Service is a customer loyalty program not a profit center.

REASON

1



X - High Speed Shutter A novel high speed shutter - only opens during testing. The shutter eliminates the single biggest cause of broken detectors - stray fingers, tools or pieces of metal striking the detector between tests.



Z - Quartz Blast Shield Good news! The Z has no detectors or tubes to break. Poke away at the aperture, you can't damage the quartz blast shield. In fact our LIBS service costs are far lower than our already low X-ray service costs.

Defending your Investment by Design

End those budget busting broken detectors. Our X-ray service costs are less than half of any other brand. Laser is even lower because we make our own lasers and spectrometers.

Share it, Sync it, & Print it

REASONS

2

3

4



Share it.

Our Mobile App automatically shares test results to your Android phone via Bluetooth. Email or text results instantly.



Sync it.

Eliminate tedious data download/export forever. The SciAps SYNCH App instantly shares test results with any computer in your facility or any location globally. All you need is an internet connection. Monitor your sorter's testing from any location globally, in real time.

Print it.

Print results label to belt mounted printer. Print data or pdf test reports to any Wifi or Bluetooth printer. Lose the cables!

Defy Obsolescence

REASON

5

The SciAps 90+ guarantee

Start out with a lower-priced model such as the X-50, X-100 or Z-50. Upgrade your model to a higher performing version, get 90% or more of what you paid as credit. Your analyzer fleet adapts to market or alloy sorting changes without obsolescence.

sciaps.com

SciAps Inc.
2 Constitution Way
Woburn, MA 01801
+1 339.927.9455