

# SciAps XRF Models

We've created the best price/performance line of alloy analyzers to suit your operation, from our 30+ years of alloy analysis experience.

## A standardized & field worthy platform

All the X models are the same basic platform.

### Camera

Built-in High Resolution Camera

### Light-weight

(3 pound), balanced, ergonomic, free standing design

### Detector protection

high speed steel shutter protects the detector between tests

### Total Connectivity

All models run on Android OS so connectivity to mobile phones, PCs and other devices is seamless, allowing for easy data logging, data sharing and reporting.



## Buy the X-300

for the most speed and highest precision available on the market today.

The main reason to buy the X-300 instead of X-200 is to sort out aluminum alloys with low % **Mg** even faster.

### Pain-free Upgrade Path

Any of the X models can be upgraded to any other X model. Never worry about changing testing requirement

## Model Specific Features & Benefits

Model	X-ray Tube	Detector, Rate*	Key Features
<b>X-300</b>	50 kV, Rh anode	20 mm <sup>2</sup> premium SDD, FAST DPP 250k cps at > 90% live	Best speed & precision for all alloys – high temps, stainless, red metals, aluminums. ● Measures key alloying light elements Mg (> 0.7% in Al base), Al, Si, S and P in 2-3 second beam 2 tests – 5-seconds total test time! ● Measures 0.4% Mg in 6063, 356, 3004 in 5 sec. beam 2, 7 seconds total test. ● If you want the premium XRF in terms of speed and precision on all alloys, ● And you want the fastest XRF available for aluminum alloys choose the X-300.
<b>X-200</b>	40 kV, Rh anode	20 mm <sup>2</sup> standard SDD, DPP. 150k cps at > 90% live	Our most popular model. ● Offers comparable speed/precision as top of the line competing brands, at a lower price point, in a smaller, lighter package. ● Best value where aluminum sorting is daily but not the major focus. ● Requires a 2nd beam test of 10-20 s for Mg at 0.8% in Al base. ● Requires 5-6 second beam 2 test time for Al, Si, S and P. ● Requires 15 - 20s to measure 0.3-0.5% Mg in grades such 6063 or 356 or 3004.
<b>X-100</b>	40 kV, Rh anode	20 mm <sup>2</sup> standard SDD, DPP 150k cps at > 90% live.	Identical to X-200 for elements titanium and higher. ● No 2nd beam calibrations, so Mg, Al, Si, P and S are NOT analyzed. ● Perfect for locations requiring the speed and precision of an SDD detector, but with no need for 2 beam, light element analysis. ● An alternative to PINs if you want 9x the speed or 3X the precision.
<b>X-50</b>	40 kV, Rh anode	7 mm <sup>2</sup> PIN Diode, Standard DPP, 15k cps, 50% live	Our most economical model, Great for sorting most SS, high temps, red metals in 3-5 seconds EXCEPT those that require analysis of Mg, Al, Si, P or S. ● Limited to sorting Al alloys into MLCs, 2000's, and 7000's

\* The combination of count rate and live time are key performance parameters when evaluating a handheld XRF analyzer. The X-series is available with a range of detector/pricing options, all upgradeable.

# Quick Comparison Guide

The table below summarizes key performance features by various models. We're also pleased to include the SciAps laser-based alloy analyzer the Z-200. The Z is the most widely used laser based system in the world, having been adopted by many major scrap processors, primary metal producers and fabricators.



Performance Feature	X-300 (XRF)	X-200 (XRF)	X-100 (XRF)	X-50 (XRF)	Z-200 (Laser)
Highest precision with fastest test times, all alloys of any brand HH XRF. Fastest on <b>Al</b> alloys of any HHXRF.					
Precision and speed comparable to or better than competing top end brands, but at lower price point.					
Fastest possible Mg measurements in Al alloys – intended for most precise, fastest <b>Al</b> alloy sorting possible with X-ray. Measure <b>Mg</b> (0.7% and higher), <b>Al, Si, S</b> and <b>P</b> in 3 second, beam 2 tests, 5 sec. total. <b>Mg</b> at 0.3 - 0.6% in 5 sec beam 2.					
Measure elements <b>Mg (0.7% and higher), Al, Si, S</b> and <b>P</b> in 10-20s beam 2 comparable to current competitive models Delta Premium, xL3t Gold+, Bruker Titan 5 but at a lower price point					
Test SS, high temps, red metals with speed, precision comparable to top end competing brands, but NOT analyze elements <b>Mg, Si, Al, P</b> and <b>S</b> .					
Basic sorting of SS, high temps and red metals.					
Only sort Al alloys by MLC's and 2000's and 7000's					
Analyze elements X-ray cannot measure: <b>Li, Be, B, C</b>					
Sort Al alloys faster and more precisely than any other technology.					
Analyze all alloys reliably, using a laser source rather than X-ray. Eliminates all X-ray radiation requirements.					



Check out our X Series **videos** for a preview of the performance up to 10 times faster than other X-ray analyzers.  
<http://tinyurl.com/zk67evr>

# SciAps

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