Analysis and Testing Equipment

IEDX 4500A uses intelligent vacuum system to stimulate Na, Mg, Al, Si, P, S, CI and other light elements with good effect, and uses XRF technology to accurately analyze high-content K, Ca, Ti, V, Cr, Mn, Fe, Ni, Mo, Zr, Ba and other key elements. Truly provide services for the product quality control of mineral, metal processing and inorganic non-metallic material production enterprises, greatly improve the detection efficiency and save the detection cost.

Application field

Mining, environmental protection, metallurgy, nonferrous metals, iron and steel, geology, coal, glass, petroleum, chemical, refractory materials, mechanical processing, energy and other industries.

Feature

- High efficiency ultra-thin window X-ray tube, the index reaches the international advanced level.
- The latest digital multi-channel technology makes the test faster, the counting rate reaches 100000CPS, the accuracy is higher, and the effect is better in the alloy detection. The Fast-SDD detector has good energy linearity, energy resolution and energy spectrum characteristics, and high peak-to-back ratio.
- The low energy X-ray excites the elements to be measured, and has a good effect on Si, P and other light elements.
- Intelligent vacuum system, shield the influence of air, greatly expand the test range of automatic spectrum stabilizer to ensure the consistency of instrument work.
- Electronic line unit with high signal-to-noise ratio.
- For different samples, the automatic switching of collimator and filter eliminates the tedious spectral decomposition technology brought by manual operation, decomposes the spectral peak, makes the test results of the measured elements have the same analysis accuracy, and significantly supposes the absorption and enhancement effects between elements.
- The liquid display makes the important parameters of the instrument (tube pressure, tube flow, vacuum degree) clear at a glance.
- Automatic cover opening.

Specifications

Measuring element range	Sodium (Na) ~ Uranium (U)
Element content analysis range	ppm ~ 99.99(different materials, different analysis range)
Simultaneous analysis of elements	dozens of elements can be measured at one time
Injection method	23-bit mechanical arm automatic injection, the order can be set
Collimator and wave plate	8 sets of collimator, 5 sets of filter, so that specific elements to obtain the best analysis signal
Measurement object status	powder, solid, liquid
Input voltage	AC 110V/220V
Ambient temperature	15℃ -30 ℃
Ambient humidity	35%~70%

Standard configuration

High efficiency ultra-thin window X-ray tube
Fast-SDD detector
Digital multichannel technology
Test accessories for the steel industry
Optical path enhancement system
High signal-to-noise ratio electronic line unit
Built-in high-definition camera
Automatic switching collimator and filter
Automatic spectrum stabilizer
Triple security protection mode
Independent matrix effect correction models
Multivariable nonlinear regression program
Reliable overall steel frame construction
90mm x 70mm status display LCD screen
Vacuum pump
Automatic sampling System (23-bit)