

HTEK INSTRUMENT

SDD XRF Analyser - EDX 8000 *Bench Top EDXRF Spectrometer*



Simply the Best

- © Non-destructive elemental analysis of Na through U
- © Fast and accurate analysis of minor and trace elements
- © High resolution detector down to 123eV
- © Robust design, easy to operate
- © Silicon Drift Detector (SDD) enables extremely high count rate applications, suitable for most challenging analytical requirements



SIMPLY THE BEST
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XRF Spectrometer



EDX 8000

The assay lab that gives you completely non-destructive results in second

Jewelers, recyclers, and refiners of precious metals and alloys require elemental analytical capabilities that fit their challenging business conditions. Affordability is always key. Small operators have comparatively little cash for equipment. Larger concerns face constant pressure to keep costs low and profits high. However, affordability must still buy good performance. Percentages of gold, silver, and other precious metal alloys must be determined quickly and accurately, so that advantageous deals can be struck.

Now there is a proven, on-site solution providing laboratory-class results that are affordable, fast, and easy.

Features and Benefits

- > Large sample chamber with the best performance Silicon Drift Detector
- > Outstanding sensitivity leads to up to a factor 3 improved precision – the basis for high accuracy when analyzing minor to major element concentrations.
- > World's fastest XRF analyze – highest accuracy within the shortest measurement time, excellent precision
- > High-count throughput detection system result in significantly (typically a factor 3) lower limits of detection for a wide range of elements.
- > Easier, faster, more accurate than nitric acid test methods.
- > Faster, more comprehensive analysis than fire assay, with comparable accuracy.
- > Measure the content of all gold and precious metals without manually changing the calibration.
- > Precisely determine the presence and concentration of other trace alloying elements and dangerous heavy elements, which could impact valuation and future refining needs.



Specifications

Sample chamber size: 410mm*330mm*140mm
Instrument Size: 500mm*500mm*390mm
Detector: High performance SDD(FSDD optional)CPS readout: 30,000-100,000
Digital Multi-Channel Analyser: 4096 channels
Tube: Powerful 50 Watts air cooling X-ray tube
Maximum voltage: 50Kv.
Maximum current: 1000uA.
Measure time: 30 seconds for final report. 3 seconds gold karat identification.
Element Range: From Magnesium to Uranium
Built-in CCD camera
Power supply: 220-240 V, 50/60 Hz

Test performance for 9-karat gold. Measurement Time 15 Seconds

No.	1	2	3	4	5	6	7	8
Au(%)	37.42	37.39	37.41	37.42	37.43	37.42	37.42	37.42
Ag(%)	25.58	25.62	25.56	25.61	25.61	25.61	25.61	25.59
Cu(%)	36.99	36.98	37.01	36.96	36.95	36.96	36.97	36.98

No.	9	10	Max	Min	SD	RSD	Average	Certified Value
Au(%)	37.42	37.42	37.43	37.39	0.01(%)	0.03(%)	37.42(%)	37.40(%)
Ag(%)	25.59	25.60	25.62	25.56	0.02(%)	0.08(%)	25.60(%)	25.63(%)
Cu(%)	36.98	36.97	37.01	36.95	0.02(%)	0.05(%)	36.97(%)	36.96(%)

