

# HTEK INSTRUMENT

## EDX 6000

*Direct Shooting XRF Gold Analyser*



### Simply the Best

- ⊙ Fast
- ⊙ Non-destructive
- ⊙ Precise
- ⊙ One button operation
- ⊙ Applications

Precious metal analysis  
Coating thickness measurement  
Hazardous metals Inspection: Cd, Pb, Ir, Ru  
Electroplate liquid analysis



SIMPLY THE BEST  
HTek Instrument Co.,ltd

Add: Room313,Tower C,Building 5,NO.117 Zhujiang  
Road,National New & Hi-Tech Industrial Development  
Zone Suzhou,P.R.China  
Tel: 86-512-68183293  
Fax: 86-512-68183263  
E-mail: sales@htek-instrument.com  
Web: www.htek-instrument.com



HTek Instrument Co.,ltd

## Nondestructive Precious Metals Assay and Karat ID

XRF is a widely used, proven, and accepted method of chemistry analysis and determination of purity and fineness of precious metals. XRF analysis is a multi-elemental testing alternative that is quicker and less expensive than fire assay and chemical tests. XRF provides on-the-spot analysis of your silver, platinum, and PGM metals and impurities, making it an easy way to boost customer confidence and ensure dealer reliability.

Given the current high value of gold, quantifying its fineness and purity is more critical than ever. Whether you buy gold, sell or produce jewelry, fabricate metal, or recycle scrap metal, you need a fast, highly accurate method to determine karat (gold content) for quality control and pricing.

The Htek EDX-6000 XRF analyzer is an easy-to-use, cost-effective method to obtain alloy chemistry and karat classification with one nondestructive and nonintrusive test. Additionally, an exclusive Htek EDX-6000 software feature helps identify gold-plated objects and sends an alert to the screen.

### Features and Benefits

- New designed direct angle of X-ray shooting to the sample avoid the sample shape influence to the final results of curvy samples like ring or necklace.
- The Htek EDX-6000 is designed to be compact, taking up minimal space.
- Small spot collimator for analysis; ability to switch between 0.5mm, 1mm and 3 mm diameter spots automatically. Make it easier and qualified for different applications.
- An easy-to-use analyzer providing karat and compositional analysis results with one push of a button.
- Quickly and easily create result certificates
- The Htek EDX-6000 can be networked for easy access to testing results as they are being generated.
- The analyzer is a safe and secure closed-beam system that requires minimal training.
- One-button operation provides the most friendly customer experience.

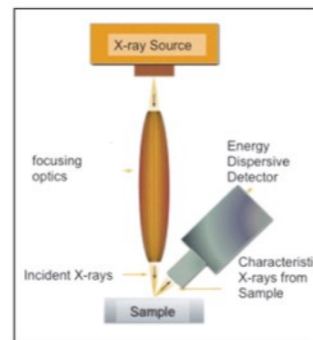


Figure 1-1 EDX-6000 X-ray Angel

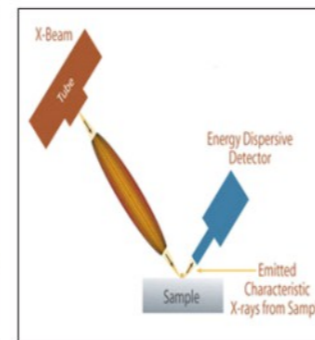


Figure 1-2 Normal X-ray Angel

### With the Htek EDX-6000 XRF Analyzer

- Price cash-for-gold pieces quickly and accurately
- Identify and characterize a wide range of alloys including silver, platinum, and others
- Identify poison elements in samples
- Manage quality control of refining and melting operations
- More options for coating thickness measurement

### Typical Applications

- Gold Karat Identification
- Coating thickness measurement
- Hazardous metals Inspection: Cd, Pb, Ir, Ru
- Electroplate liquid analysis

### The Compact Professional Precious Metals Testing Solution

The Htek EDX-6000 offers the best of both worlds. A handsome analyzer fit for the consumer showroom environment, it can also be networked for high productivity QA/QC jobs. The Htek EDX-6000 can be transported easily to any location where testing is needed.

## XRF Gold Analyser



- Integrated camera indicating sample analysis points
- Safe, closed-beam XRF system
- 50 W X-ray tube, 1000 µA current (max), plus optimized beam settings for accurate analysis

### Typical Applications

EDX-6000 has standard-less fundamental parameters and Empirical co-efficiency calibration with automatically adjustment for different precious alloys (gold, silver, platinum, palladium ). Customized result and reporting certificates, including analytical results, an image of the tested sample, the company logo, and more, can be generated via the optional PC Software with the click of a button.

Test Report													
Sample Name	Gold Piece												
Test Time(s)	30(s)												
Test Date	2014/1/1 17:01												
Gold	75.005(%)					Karat			18Karat				
Element	Au	Ag	Ni	Cu	Zn	Ru	Rh	Pd	Cd	In	Sn	W	Re
Content	75.005	14.860	2.04	4.010	4.000	0	0	0	0	0	0	0	0
	Os	Ir	Pb	Fe	Co	Ti	Cr	Ge	Mn				
	0	0	0	0	0	0	0	0	0				
Spectrum Photo													

### Htek EDX-6000 6000 Test performance

Htek EDX-6000 accuracy for Au in certified gold alloy standards    Htek EDX-6000 accuracy for Pt in certified gold alloy standards

