

ELVATECH PRECISION THAT  
EMPOWERS CONFIDENCE

# PROSPECTOR 2



PORTABLE XRF ANALYZER  
FOR JEWELRY

# A RELIABLE TOOL IN JEWELRY ANALYSIS

PS 2, compact handheld X-ray fluorescence analyzer designed for quick and accurate composition measurements of precious metal alloys and jewelry on the spot: in a jewelry workshop, pawn shop, or during antique appraisal.

ProSpector 2 is a powerful handheld XRF analyzer, designed by Elvatech. Due to the advanced hardware and unique software algorithms, ProSpector 2 provides ultimate speed and accuracy of the elemental analysis.

## KEY BENEFITS OF PS 2 FOR JEWELERS AND PAWN SHOPS

- ✓ **Price:** Budget model proven by time.
- ✓ **Results in Percentages and Carats:** Instant conversion of alloy composition into familiar units (% purity, carats) for easy evaluation.
- ✓ **Coating Recognition:** Automatic detection of gold plating, rhodium, and other surface treatments.
- ✓ **4.3" Touchscreen Display:** Intuitive menu and quick access to results.
- ✓ **Standalone Bench-Stand Operation:** Runs in a lab mount without the need for an external PC—ideal for extended measurements and enhanced accuracy.
- ✓ **Non-Destructive Rapid Test:** Analysis in 3–5 seconds without cutting or sampling the piece.
- ✓ **Accurate Alloy Identification:** Measures Au, Ag, Pt, Pd and alloying elements (Cu, Ni, Zn, etc.) with precision better than 0.1 ‰.
- ✓ **Compactness and Durability:** Weight ~1,4 kg, IP54 rating.
- ✓ **Extended Operation Time:** Up to 16 hours of autonomous use.



# APPLICATION SCENARIOS

## ON-SITE ASSAY VERIFICATION

Quickly confirm the fineness of a piece without sending it to an external laboratory.

## COUNTERFEIT PREVENTION

Identify non-standard alloys and masking coatings.

## SCRAP INTAKE ANALYSIS

Analyze batches of gold and silver scrap upon receipt.

## PLATING THICKNESS MEASUREMENT

Check the thickness of rhodium or gold plating on jewelry and accessories.

## QUALITY ASSURANCE

Provide clients with an official report on metal composition and purity.




### Precious Alloys

Today, 2:32 PM [no name](#)

**Gold 14.0K**  
Plating not detected

**Au: 58.60** ± 0.06%  
**Cu: 33.38** ± 0.06%  
**Ag: 8.03** ± 0.02%

< **START** >

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## TECHNICAL SPECIFICATIONS

Detector: Si-PIN-Diode Element Range: CL (Z=17) to U (Z=92)

Detection Limit: From 10 ppm

Energy Resolution:  $\leq 180$  eV

Power: Built-in battery, up to 16 hours of operation

Weight: 1.4kg (with battery)

Dimensions: 242×230×78mm

Interfaces: Bluetooth, USB

Protection: IP54

PS 2 is your professional choice for rapid, precise, and non-destructive analysis of precious metal alloys. Optimize your assay, valuation, and quality control workflows, and ensure high reputation and client trust with this advanced XRF solution.



Speed



Lightness



Accuracy



Stability

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