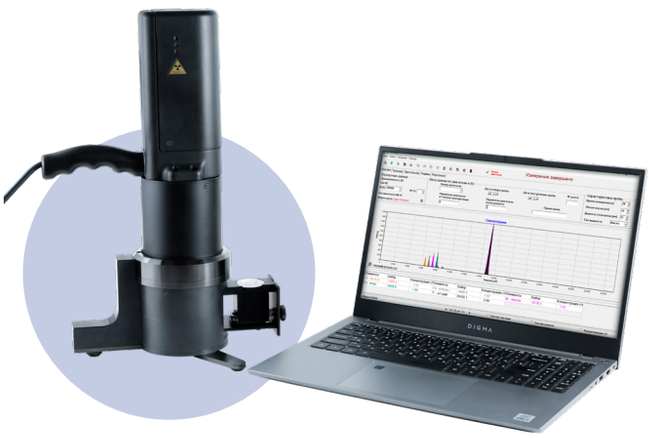
HIGH-QUALITY EQUIPMENT FOR QUANTITATIVE ANALYSIS

X-RAY FLUORESCENCE ANALYZERS OF SUBSTANCES AND MATERIALS

Prizma Series

ADC PRIZMA-M

Determination of the mass fraction of chemical elements in metals and alloys, in service oils and liquids, in drinking, natural and waste water, in soils, in the air of the working area and in gas and dust streams, including after deposition on the filter.



ADC PRIZMA

Diagnostics of the technical condition of engines by analyzing the composition and content of wear products in oils, lubricants and service fluids, determining the grade of alloy particles, wear products.

PRIZMA-M(AU)

High-precision determination of the content of gold, silver, platinum, rhodium, iridium, ruthenium, palladium and alloying elements in jewelry and other precious metal alloys. The accuracy of the analysis is up to 0.1% of the mass fraction.

Elements	Content, %
Cu (copper)	33,5
Ag (silver)	8,0
Au (gold)	58,5

* An example of the measurement results of a jewelry alloy

TECHNICAL SPECIFICATIONS

Characteristic	**ADC PRIZMA-M**	**ADC PRIZMA**	**PRIZMA-M (Au)**
Range of atomic numbers of the chemical elements to be determined	from Na to Am	from Ca to Am	
Number of chemical elements to be determined, including simultaneous detection	80	74	
Detectable chemical elements	Na, Mg, Al, Si, P, S, Cl, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Rb, Sr, Y, Zr,Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Cs, Ba, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Tl, Pb, Bi, Po, At, Ac, Fr, Ra, Ac, Th, Pa, U, Np, Pu, Am		
Measurement range of the mass fraction of elements in METALS AND ALLOYS	0.001 to 100 %	0.5 to 100 %	
Measuring range of the mass fraction of elements DEPOSITED ON FILTERS	from 0.1 to 11000 million^{-1}	$0{,}1 \cdot 10^{-4}$ to $250 \cdot 10^{-4}$ %	
Limits of permissible relative measurement error of elements mass fraction	0.1 to 25%, depending on the concentration		the absolute error in jewelry alloy analysis does not exceed 0.1%
Operating mode establishment time	not more than 5 min		
Measurement time	5 to 240 sec	30 to 120 sec	10 to 600 sec
Weight	not more than 5 kg	of the sensor: not more than 3 kg of the spectrometer: not more than 1 kg	
Operating temperature range	+5 to +45°C	-20 to +40°C	
Overall dimensions (LxWxH)	not more than 120×200×280 mm	of the sensor: not more than 350×Ø 100 mm of the spectrometer: not more than 172×120×47 mm	
Assigned lifetime	5 years		

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