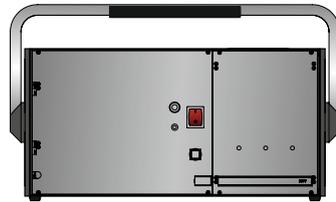


PAL-1

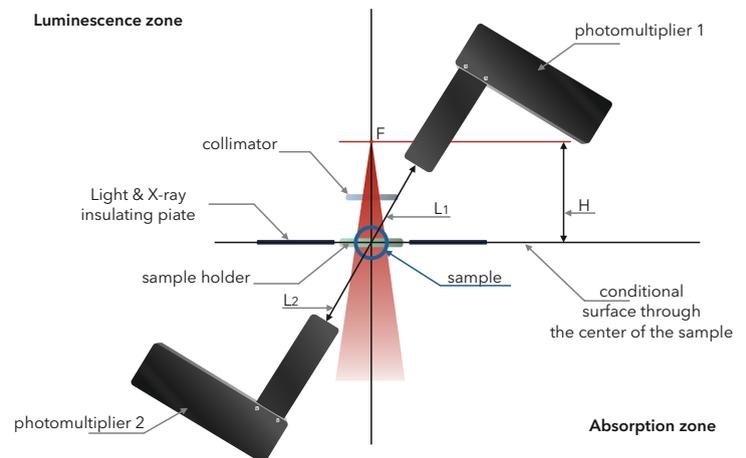
-32 + 2 mm

New product

The PAL-1 portable luminescence analyzer is designed to determine the kinetic values of the luminescence signals. These signals are obtained in X-ray luminescence sorters manufactured by Bourevestnik when processing the diamonds bearing ore and associated luminescent minerals. The analyzer performs the following functions: accumulation, archiving, analysis, and displaying the obtained data. These characteristics can be used to analyze the enrichability of diamond-bearing materials during exploration of deposits and in the process of developing specific deposits. The analyzer finds application in final concentrate sort houses and quality control departments at plants, drags, and seasonal mobile modules, as well as in the departments of chief metallurgy. In these settings, the analyzer facilitates the optimal selection of separation characteristics to be laid down in sorters.



The analyzer operates using the luminescence properties of minerals under X-ray radiation (X-ray luminescence). The luminescence of the samples is recorded from two sides: the irradiation side (referred to as the luminescence mode) and the opposite side of the samples (referred to as the absorption mode).



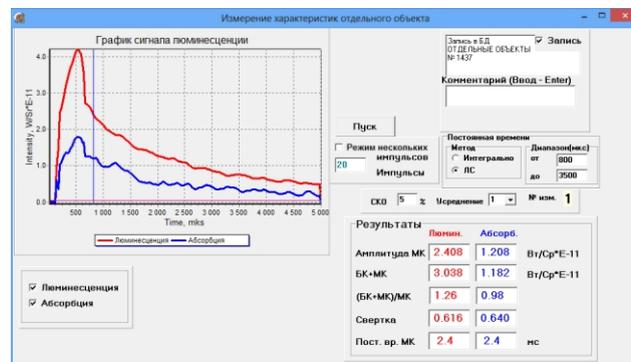
Drawing 4. X-ray optical diagram of the analyzer.

Main parameters	
Size fraction, mm	manual feed -32+2
Throughput	up to 60 samples per hour when using samples of the same class
Sampling	by particles, sorted by 5 parameters
Type of material	dry
Interface requirements	
Power consumption, kVA (single phase, 220V / 50Hz)	not more than 200
Operating temperature range	- +10°...+35°C with the relative humidity up to 80%

Dimensions (mm) and mass (kg)

Measuring unit	350x480x415	50
Control unit	445x490x290	16

Software interface



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