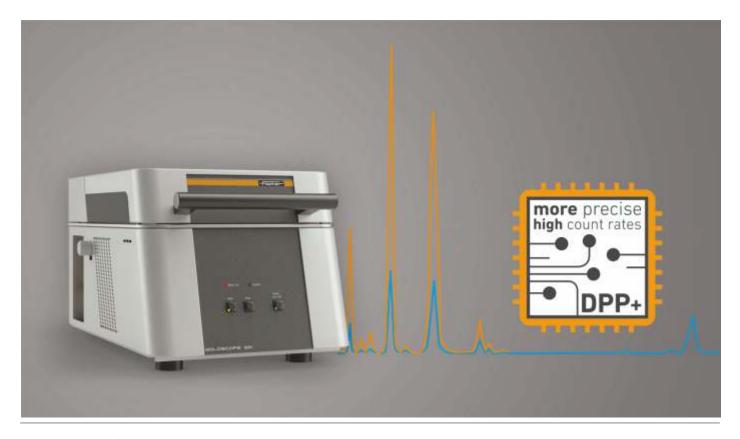


GOLDSCOPE SD® 520 / 530 / 550

Advanced high-end XRF Machine for Gold, Silver and other precious Metal Analysis. Measure even faster and more precisely with the new Digital Pulse Processor (DPP+).



All-in-One Solutions for Precious Metal Analysis

Features

- Modern Silicon Drift Detector (SDD) for high accuracy and good detection sensitivity
- High-resolution color video camera for precise determination of the measurement spot
- Fitted with the new Digital Pulse Processer (DPP+)
- Micro-focus tungsten tube with beryllium window
- Bench-top unit with upward opening hood
- Detector : New SDD detector with 20 mm: ≤ 135 Mn-Kα [eV]

Applications

- Jewelry, precious metals and dental alloys
- Precious metal analysis eg. gold, silver and platinum group elements
- Measuring coating thickness on sterling silver, rhodium finishes or gold alloys
- Determination of complex multi layer-coating systems
- Detection of PGM group elements such as Iridium, ruthenium, osmium, rhenium etc. enabling accurate precious metal analysis results

Benefits:



Acheive upto 45% reduction in absolute standard deviation with same measuring time.



Reduce your measurement time by a factor of 3 with the same absolute standard deviation.



Secure your Silicon Drift Detector (SDD) with a grid protection.

| General S | pecifica | tion |
|-----------|----------|------|
|-----------|----------|------|

| General Specification | | | | |
|--|---|---------------------------------|------------------------------------|--|
| Intended use | Energy dispersive X-ray measuring instrument (EDXRF) to analyze precious metals | | | |
| Design | GOLDSCOPE SD 520, 530, 550: Bench top unit with upwards opening hood | | | |
| Measuring direction | Bottom up | | | |
| Electrical data | | | | |
| Power supply | AC 100 – 240 V ±10 % / 50 – 60 Hz max. 120 VA, without evaluation PC | | | |
| Protection class | IP40 | | | |
| Environmental conditions | | | | |
| Operating temperature | 10 °C - 40 °C 50 °F - 104 °F | Storage/Trans port temperati | 0 °C - 50 °C ure 32 °F - 122 °F | |
| Admissible air humidity | ≤ 95 %, non-condensing | | | |
| Sample Alignment | | | | |
| Sample Alignment | High-resolution CCD color camera for optical monitoring of the measurement location along the primary beam axis, Crosshairs with a calibrated scale (ruler) and spot-indicator, Adjustable LED illumination | | | |
| Zoom factor | Digital 1x, 2x, 3x, 4x | | | |
| Evaluation unit | | | | |
| Computer | Windows® PC | | | |
| Software | WinFTM® optimized for GOLDSCOPE SD, including Gold Setup GOLDSCOPE with measuring applications for gold and jewelry | | | |
| Standards | GOLDSCOPE SD 520 | GOLDSCOPE SD 530 | GOLDSCOPE SD 550 | |
| CE approval | | EN 61010, EN 61326 | | |
| X-Ray standards | DIN ISO 3497 ASTM B 568 ISO 23345 | | | |
| Approval | Fully protected instrument with type approval according to current radiation protection legislation | | | |
| Sample Stage | | | | |
| Design | | Fixed sample support | | |
| Max. sample weight [kg/lb] | | 13/29 | | |
| Usable sample placement area [mm/in] | 310 x 320/ 12.2 x 12.6 | | | |
| Max. sample height [mm/in] | 90/3.5 | | | |
| Dimensions | | | | |
| External dimensions, Width x depth x height [mm /in] | 403 x 588 x 365/16 x 23.2 x 14.4 | | | |
| Weight [kg/lb] | approx. 45/99 | | | |
| | | | | |

GOLDSCOPE SD®

| X-Ray Source | GOLDSCOPE SD 520 | GOLDSCOPE SD 530 | GOLDSCOPE SD 550 | |
|--|--|---|--|--|
| X-ray tube | Micro-focus tube, thermally stabilized | | | |
| High voltage, three steps | 30, 40, 50 kV | 10, 30, 50 kV | 10, 30, 50 kV | |
| | | | | |
| Primary filter [µm/mils] | fixed Al 500/19.7 | 6x changeable: Ni 10/0.4 no filter Al 1000/39.4 Al 500/19.7 Al 100/3.9 Mylar® 100/3.9 | | |
| Aperture (Collimator) Ø [mm/mils] | Fixed, Standard 1.0/39 Option 0.6/24; 1.0/39 or 2.0/79 | 2x changeable: 0.6/24 2.0/79 | 4x changeable: 0.2/8; 0.6/24; 1.0/39; 2.0/79 | |
| Smallest measurement spot* Ø [mm/mils] | approx. 0.7/28* | approx. 07 /28* | approx. 0.3 /12* | |
| X-Ray Detection | * depends on the measuring distance and on the aperture, the actual measurement spot size is shown in the video image | | | |
| Detector type | Silicon Drift Detector (SDD), peltier-cooled | | | |
| Resolution fwhm for Mn-K _a [eV] | Version with SDD 20 mm²: ≤ 135 | Version with SDD 20 mm²: ≤ 135 | Version with SDD 20 mm ² : ≤ 135 | |
| Element range | Al (13) to U (92) | | | |
| Measuring distance [mm/in] | 0 – 25/0 – 1, Distance compensation with patented DCM method for simplified measurements at varying distances. For particular applications or for higher demands on accuracy an additional calibration might be necessary. | | | |
| Repeatability for gold, measurement time 60 sec | ≤ 0,5 ‰ with aperture 1.0 mm | ≤ 0,5 ‰ with aperture 2.0 mm | ≤ 0,5 ‰ with aperture 1.0 mm | |
| Order | | | | |
| Order number | Please inquire Incl. Gold Setup GOLDSCOPE with factory-calibrated measuring applications for gold and jewelry Special GOLDSCOPE SD product modification and technical consultation on request | | | |
| | | | | |
| | | | | |

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