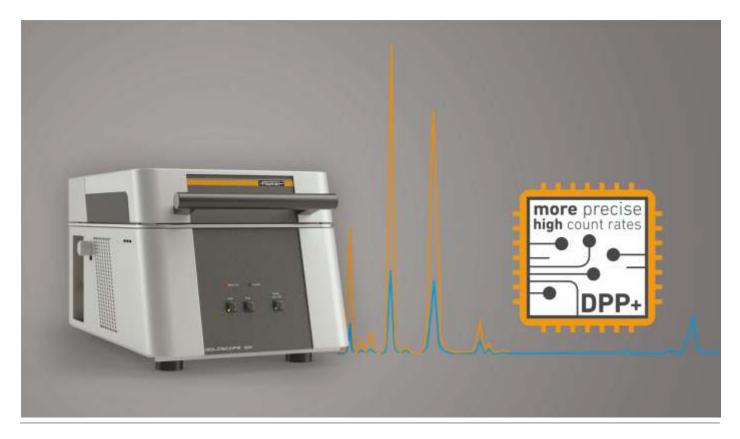


GOLDSCOPE SD® 520 / 530 / 550

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.

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 temperatu	0 °C – 50 °C re 32 °F – 122 °F	
Admissible air humidity	≤ 95 %, non-condensing			
Sample Alignment				
Sample Alignment	Digital 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 Sample Stage	Fully protected instrument with type approval according to current radiation protection legislation			
Design 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			

90/3.5

403 x 588 x 365/16 x 23.2 x 14.4

approx. 45/99

Max. sample height [mm/in]

External dimensions, Width x depth x height [mm /in]

Dimensions

Weight [kg/lb]

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 mm²: ≤ 135	
Element range	Al (13) to U (92)			
Measuring distance [mm/in]	0 – 25/0 – 1, Distance compensation with patented DCM method for sim measurements at varying distances. For particular applications or for homogeneous 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 GO LDSCOPE SD product modification and technical consultation on request			

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