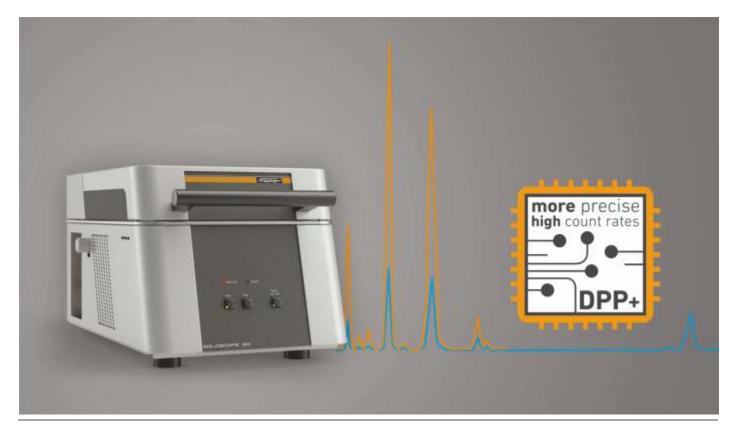


GOLDSCOPE SD® 520 / 550

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, 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		torage/Trans 0 °C – 50 °C ort temperature 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		
Computer Software		, including Gold Setup GOLDSCOPE with velry	
•	WinFTM® optimized for GOLDSCOPE SD		
Software	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev	GOLDSCOPE SD 550	
Software Standards	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev	GOLDSCOPE SD 550 EN 61326 0 3497 B 568	
Standards CE approval	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2	GOLDSCOPE SD 550 EN 61326 0 3497 B 568 3345 Type approval according to current	
Software Standards CE approval X-Ray standards	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2	GOLDSCOPE SD 550 EN 61326 3497 B 568 3345 Type approval according to current	
Software Standards CE approval X-Ray standards Approval	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2	GOLDSCOPE SD 550 EN 61326 0 3497 B 568 3345 Vpe approval according to current ion legislation	
Standards CE approval X-Ray standards Approval Sample Stage	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2 Fully protected instrument with ty radiation protect	GOLDSCOPE SD 550 EN 61326 0 3497 B 568 3345 Vipe approval according to current ion legislation Ole support	
Standards CE approval X-Ray standards Approval Sample Stage Design	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2 Fully protected instrument with ty radiation protect	GOLDSCOPE SD 550 EN 61326 D 3497 B 568 B 5	
Standards CE approval X-Ray standards Approval Sample Stage Design Max. sample weight [kg/lb] Usable sample placement	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2 Fully protected instrument with ty radiation protect Fixed samp 13/	GOLDSCOPE SD 550 EN 61326 D 3497 B 568 3345 Type approval according to current ion legislation Type support 29 320/ 12.6	
Standards CE approval X-Ray standards Approval Sample Stage Design Max. sample weight [kg/lb] Usable sample placement area [mm/in]	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2 Fully protected instrument with ty radiation protect Fixed samp 13/ 310 x 12.2 x	GOLDSCOPE SD 550 EN 61326 D 3497 B 568 3345 Type approval according to current ion legislation Type support 29 320/ 12.6	
Standards CE approval X-Ray standards Approval Sample Stage Design Max. sample weight [kg/lb] Usable sample placement area [mm/in] Max. sample height [mm/in]	WinFTM® optimized for GOLDSCOPE SD measuring applications for gold and jev GOLDSCOPE SD 520 EN 61010, DIN ISO ASTM ISO 2 Fully protected instrument with ty radiation protect Fixed samp 13/ 310 x 12.2 x	GOLDSCOPE SD 550 EN 61326 0 3497 B 568 3345 Vee approval according to current ion legislation ble support 29 320/ 12.6 3.5	

GOLDSCOPE SD®

X-Ray Source	GOLDSCOPE SD 520	GOLDSCOPE SD 550	
X-ray tube	Micro-focus tube, thermally stabilized		
High voltage, three steps	30, 40, 50 kV	10, 30, 50 kV	
Max. anode current	1 mA		
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	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. 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 20mm²: ≤ 135	Version with SDD 20mm²: ≤ 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 1.0 mm	
Order			
Order number	Please inquire	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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