

• S1 TITAN

Module	S1 TITAN Model 800	S1 TITAN Model 600	S1 TITAN Model 500	S1 TITAN Model 300	S1 TITAN Model 200
Detector	CUBE™ SDD Typical resolution: < 145eV	CUBE™ SDD Typical resolution: < 145eV	SDD detector Typical resolution: < 179eV	SiPIN diode detector Typical resolution: < 195eV	SiPIN diode detector Typical resolution: < 195eV
Detector Shield™	Included				
Color CMOS Camera	Included	Optional	Not Available	Optional	Not Available
Excitation Source	Rh target X-ray tube, 4W. 6-50kV, 5-200µA Swiss- limited to 5 - 100µA	Rh target X-ray tube, 4W. 15-50kV, 5-100µA	Rh target X-ray tube, 4W. 40kV, fixed current	Rh target X-ray tube, 4W. 15-50kV, 5-100µA	Rh target X-ray tube, 4W. 45kV, fixed current
Spot size	5mm standard, 8 or 3mm optional	5mm			
Filter	Five (5) position automatic filter changer		Fixed filter	Five (5) position automatic filter changer	Fixed filter
Elemental Range	Mg - U		Ti - U	Cl - U	Ti - U
Sample Temperature	Default to 150°C (302°F) with Ultralene® window. Up to 500°C with Kapton® window and hot surface adapter.		to 500°C (932°F)		
Weight	1.5 kg (3.3 lbs) with battery				
Dimensions	25 cm x 28 cm x 9 cm (10 in x 11 in x 3.7 in) L x W x H				
Testing Modes	Assay, Grade ID, Grade Pass/Fail, Limit testing				
Operating Environment	Operating Temp: -10°C to +50°C (+14°F to 122°F); Splash and dust proof (IP54)				
Power	Li-Ion battery (7.2V nominal); Battery Charger; AC Adapter (9V DC @ 3A)				
Display	9.4 cm (3.7 inch) integrated color touchscreen LCD; TFT active matrix, transfective; 640 x 480 pixels; 65,536 colors				
Software	Bruker Elemental S1 proprietary software				
PC Operating System PC Software	Windows® XP, Windows® 7, Windows® 8 or Windows® 10 Microsoft® Excel or Bruker proprietary software for report generation and spectrum viewing				
Data Storage	8GB standard, expandable to 64GB Internal memory: 8,000 readings with spectra (maximum) USB flashdrive: 80,000 readings with spectra (minimum)				
Data Transfer	USB cable, USB flashdrive				
System Safety	Password protection; no sample (backscatter) shutoff, IR proximity sensor				
Languages	Chinese, Chinese simplified, Dutch, English, French, French Canadian, German, Indonesian, Italian, Japanese, Korean, Polish, PortugueseBR, Russian, SpanishMEX, SpanishSPN, Thai, Turkish				
Certification	CE, cTÜVus, IEC 61010-1:2010 by TÜV SÜD, EN 61326-1:2006				

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