



• S1 TITAN

Module	S1 TITAN Model 800	S1 TITAN Model 600	S1 TITAN Model 500	S1 TITAN Model 200
Detector	FAST SDD® Typical resolution: < 145eV	FAST SDD® Typical resolution: < 145eV	SDD detector Typical resolution: < 179eV	SiPIN diode detector Typical resolution: < 195eV
Detector Shield™	Included			
Color CMOS Camera	Included	Optional	Not Available	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 <90µA	
Spot size	5mm standard, 8 or 3mm optional	5mm		
Filter	Five (5) position automatic filter changer		Fixed filter	Fixed filter
Elemental Range	Mg - U		Ti - 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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