



S1 TITAN

Module	S1 TITAN Model 800	S1 TITAN Model 600	S1 TITAN Model 500S	S1 TITAN Model 500	S1 TITAN Model 300
Detector	CUBE™ SDD Typical resolution: < 145eV		SDD detector Typical resolution: < 179eV	SDD detector Typical resolution: < 179eV	SiPIN diode detector Typical resolution: < 195eV
Detector Shield™	Included				
Color CMOS Camera	Included	Optional	Not Available	Not Available	Optional
Excitation Source	Rh target X-ray tube, 4W. 6-50kV, 5-200µA Swiss- limited to 5 - 100µA	Rh target X-ray tube, 2W. 15-50kV, 5-100µA	Rh target X-ray tube, 2W. 15-40kV, 5-100µA	Rh target X-ray tube, 2W. 15-40kV, 5-100µA	Rh target X-ray tube, 2W. 15-50kV, 5-100µA
Spot size	5mm standard, 8 or 3mm optional	5mm			
Filter	Five (5) position automatic filter changer		No filter	Fixed filter	Five (5) position automatic filter changer
Elemental Range	Mg - U			Ti - U	Cl - U
Sample Temperature	Default to 150°C (302°F) with Ultralene® window. Up to 350°C (662°F) with Kapton® window. (max. 5 sec measurement, min. 60 sec cool down).			to 350°C (662°F) with Kapton® window. (max. 5 sec measurement, min. 60 sec cool down).	
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); Altitude: ≤ 2,500 meters (8,200 ft.) Splash/dust resistant enclosure				
Power	Li-Ion battery (7.2V nominal); Battery Charger; AC Adapter (9V DC @ 3A)				
Display	9.4 cm (3.7 inch); LCD (TFT active matrix); 640 x 480 pixels; 64k color; resistive touchscreen				
Software	Bruker S1 proprietary software				
PC Operating System PC Software	Windows® 7 or Windows® 10 Microsoft® Excel or Bruker proprietary software for report generation and spectrum viewing				
Data Storage	512MB Internal; external USB data storage				
Data Transfer	USB 2.0, 802.11g/n 2.4GHz connectivity				
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, cTUVus				

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