



New 2020 S1 TITAN

Module	S1 TITAN Model 800	S1 TITAN Model 500S	S1 TITAN Model 500
Detector	Graphene window SDD, 20mm ² active area Typical resolution <145eV at 450kcps		
Detector Shield™	Included		
Color CMOS Camera	Optional		
Excitation Source	Rh target X-ray tube, 4W. 6-50kV, 5-200µA	Rh target X-ray tube, 2W. 15-29kV, 5-100µA	Rh target X-ray tube, 2W. 15-40kV, 5-100µA
Spot size	8mm standard, 5 or 3mm optional	8mm	
Filter	Five (5) position automatic filter changer	No filter	Fixed filter
Elemental Range	Mg - U		Ti - 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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