



• S1 TITAN

| Module | S1 TITAN Model 800 | S1 TITAN Model 600 | S1 TITAN Model 500 |
|--|---|---|--|
| Detector | FAST SDD® Typical resolution: < 145eV | FAST SDD® Typical resolution: < 145eV | SDD detector Typical resolution: < 179eV |
| Detector Shield™ | Included | Included | Included |
| Color CMOS Camera | Included | 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 <90µA |
| Spot size | 5mm standard, 8 or 3mm optional | 5mm | 5mm |
| Filter | Five (5) position automatic filter changer | | Fixed filter |
| Elemental Range | Mg - 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 or Windows® 8 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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