PRODUCT SPECIFICATIONS

Thermo Scientific Niton XL5 XRF Analyzer

# Small size, big power

## Fast, accurate, versatile XRF analysis

When versatility, low limits of detection (LODs) and high sample throughput are critical, industrial businesses rely on the Thermo Scientific™ Niton™ XL5 handheld XRF analyzer. Providing customers with solutions designed to meet their most demanding applications, the Niton XL5 maximizes performance and productivity.

#### **Applications**

- Verification of metals and alloys in manufacturing operations
- Non-destructive field inspections for positive material identification
- Point-and-shoot sorting at scrap recycling operations
- Measurement of single or multi-layer coat weight and coating thickness in surface treatment control
- Precious metal assay of bullion and jewelry
- Real-time geochemical analysis for mining exploration
- On-site heavy metal screening of polluted soils
- Screening for hazardous substances in consumer goods
- Custom applications on demand

#### **Analytical performance**

Designed to return lab quality results, the Niton XL5's low limits of detection allow operators to scan a broad range of materials for diverse applications. Identify pure metals and alloys, obtain geochemical data, screen for heavy metals or determine plating and coating thickness. From metals to mining, and everything in between, the Niton XL5 is ready to work.

#### **Rapid results**

Powered by a 5W x-ray tube, the Niton XL5 generates fast and accurate results. A dynamic current adjustment ensures optimum sensitivity for each measurement. Results are displayed in real time, enabling you to make faster decisions.

#### Size and weight

Make light work of heavy industrial tasks utilizing the Niton XL5. Weighing an industry leading 2.8 pounds (1.3 kilograms), the Niton XL5 is the lightest handheld XRF analyzer available for elemental determination and alloy identification. It's small footprint and featherweight design reduce operator fatigue while increasing productivity.

#### Design

Tight spots are no match for the Niton XL5. Discover expanded field use with improved compact geometry and ergonomics. Reaching tight welds, corners and joints, are no longer defined as awkward test spots for the Niton XL5.





The Niton XL5 in use, analyzing a tight weld in an oil refinery.

#### **Functionality**

Vivid new icons and an application interface ease navigation and configuration. Utilize swipe and touchscreen functionality, even with a gloved hand. Optional directional keys provide added usability. A micro and macro camera enable precise sample positioning and collect images for better record keeping. WiFi accessibility also automatically transmits data from your device to PC.



Dimensions 0.54 x 8.10 x 2.67 in (242.56 x 208.17 x 67.9 min)  K-Play Source X-Pay Tible Ag anode (6-60-KM, C-600LA, KW max) Dynamically adulatable current for optimal sensitivity on overy analysis  Defector Proprietary large area of inf defector  Spot Size Standard: dimm collimation Optional: dimm small-spot collimation Analytical Plange My Utilitra (will light element defection)  Calibration Modes General Media: Producis Media; Coatings, Mining, Soils, Electronic Alloys, Plastics, Industrial Lead in Plant, Sportrall Pringerprint, Teat All'*  Default alloy librarios based on SAE, ASI, ASTM, AA-DIN, GB standards Users may create, come and edit libraries  Ubrarios Default alloy librarios based on SAE, ASI, ASTM, AA-DIN, GB standards Users may create, come and edit libraries  System Check Bullin - standardization via automatic system check  Pl Planting P54 (splash and dist proof) Planting Environment Improved the standard dist proof)  Operating Environment Improved the standard dist proof)  Disparding Environment Improved the standard of the standard	<b>Product Specifications</b>	
X Ray Source X Ray Tube: Ag anobe (6 50kV. 0 500uA, 5W mox) Dynamically edulinated current for optimal sensitivity on every analysis Propinions y and part and will delector Spot Size Standard, 8mm colimation Optimals: 3mm annal-spot colimation Optimals: 3mm annal-spot colimation Analytical Range Mg U Little too light indement obtaction) Calibration Modes General Motals, Procious Motals, Coatings, Mining, Soils, Electronic Alloys, Plastics, Industrial Load in Paint, Spectral Engreprint, Testalfy, Libraries Default elloy libraries besed on SAE, ASI, ASTM, AA,DIN, GB standards System Chock Builtin el atlandratization via automatic system chock P Rating IP54 (splash and dust proof) Operating Environment Temperature: D'15 to 50°C (external fan recommended when ambient temperature is greater than 39°C) Humidity. 710's to 90°F relative humidity non-condensing Display Tilling, color, resistive locultacreen display Power 12'U Intium-inol battery, or 12'V DC, 3A, 3.8W power supply Macro Camera Integrated CCD micro camera for locating and recording measurement positions Integrated CCD micro camera for locating and recording measurement positions Integrated Positioning System Integrated CCD micro camera for locating and recording measurement positions Integrated Positioning System Integrated System integrated internal GPS (via Bluetooth) GPS data included with amagine information GPS data increase information in ages are saved) Details firstly GPS data included with a single information GPS data includ	Weight	2.8 lbs with battery (1.3 kg)
Dynamically adjustable current for optimal sensitivity on every analysis  Proprietary large area drift detector  Spot Size  Standard: Smm collimation Optional: Smm small spot collimation Analytical Range  Mg U (ultra low light cloment detection) Galbration Modes  General Metals, Predicisis Metals, Coatings, Mining, Soils, Electronic Alloys, Plastics, Industrial Lead in Paint, Spotral Fingerprint, TestAll**  Ubraries  Default align Unaries based on SAE, AIST, ASTM, AA, DIN, GB standards Users may create, done and edit libraries  System Check  Bull-in standardization via automatic system check  Predicing Environment  Temperature: 0°C to 50°C (external fan recommended when ambient temperature is greater than 33°C) Hundidy: 10°S to 90°S relative humidity non-condoming Display  Tilling, color, resistive touchariserand sisplay  Prover  12V lithium-ion battery, or 12V DC, 3A, 3,8% power supply  Macro Camera  Integrated CCD macro camera for capturing overview images of parts and tagging measurement locations  Micro Camera  Unlegrated CCD macro camera for locating and recording measurement positione  Underson Camera  Unlegrated CCD macro camera for positiving overview images of parts and tagging measurement locations  Micro Camera  Unlegrated CCD macro camera for locating and recording measurement positione  Underson Camera  Unlegrated CCD macro camera for locating and recording measurement positione  Underson Camera  Unlegrated CCD macro camera for locating and recording measurement positione  Unless Storage  Storage Storage storage stemato (JPS) (via Bluedoth)  GPS data included with sample information  Bluetooth  Support Software  Storage Storage storage stemato barrood reader  Data Entry  Data Storage  Storage Storage stematos barrood reader  Data Entry  User Storage  Storage Storage stematos barrood reader  Data Entry  Data Storage  Data Entry  Data Storage  Storage Storage stematos barrood reader  Data Colorida Accessories  Turnscreage stematos stematos barrood stematos, Jupanoso, Gorman, Korean, Fronch, Turkish,	Dimensions	9.54 x 8.19 x 2.67 in (242.56 x 208.17 x 67.9 mm)
Spot Size Standard: 8mm collination Optionals 3mm small-spot collination Analytical Range My U (utra low light element detection) Calibration Modes General Metals, Precious Metals, Coatings, Mining, Soils, Electronic Alloys, Plastics, Industrial Lead in Paint, Spectral Fingerprint, Teakali <sup>111</sup> Libraries Default alloy libraries based on SAE, AlSI, ASTM, AA-DIN, GB standards Users may create, Johns and drill binaries System Chack Bult-in standardization via automatic system chack P Rating IP94 (splash and dust proof) Operating Privironment Temperature: O'C to 50°C (seternal flar recommended when ambient temperature is greater than 33°C) Humidlity: 10% to 90% relative humidlity non condensing Display Tilling, color, resistive touchscreen display Power 12V Ilthium-ion battery, or 12V DC, 3A, 3.5W power supply Macro Camera Integrated OCD macro camera for locating and recording measurement positions Micro Camera Integrated OCD micro camera for locating and recording measurement positions Billetooth Supports print functionality, seternal GPS connectivity and barcode reader  Memory / Data Storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system memory / 16 GB industrial grade storage S12 MB internal system systems of the systems of the syst	X-Ray Source	
Optional: Smm small-spot collimation Analytical Riange Mg-U (ultra low light element detection) Calibration Modes Ceneral Medias, Precious Atlas, Coarlings, Mining, Solis, Electronic Alloys, Plastics, Industrial Lead in Paint, Spectral Fingerprint, TeatAl™  Default alloy libraries based on SAE, AISI, ASTM, AA, DIN, GBI standards Users may create, clohe and dell bibraries System Check Bull: in standardization via automatic system check P Rating IPS4 (splash and dust proof) Operating Environment IPS4 (splash and dust proof) Operating System Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations Integrated CCD micro camera for capturing and recording measurement positions Integrated CCD micro camera for locating and recording measurement positions Integrated CCD micro camera for locating and recording measurement positions	Detector	Proprietary large area drift detector
General Matals, Precious Metals, Coatings, Mining, Solls, Electronic Alloys, Plastics, Industrial Lead in Paint, Spectral Pingerprint, TestAll <sup>mat</sup> Libraries Default alloy libraries based on SAE, AISI, ASTM, AA,DIN, GB standards  System Check Bulli-In standardization via automatic system check  P Rating IP54 (splash and dust proof)  Operating Environment Temperature: 0°C to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when ambient temperature is greater than 33°C)  Humidity: 10% to 50°C (external fan recommended when	Spot Size	
Spectral Fingeriphit, TestAll PM   Default alloy libraries based on SAE, AISI, ASTM, AA,DIN, GB standards   Users may create, clone and edit libraries	Analytical Range	Mg-U (ultra low light element detection)
Users may create, clone and edit libraries  Pystem Check Bulti-in standardization via automatic system check  P Rating IP54 (splash and dust proof)  Operating Environment IP54 (splash and dust proof)  Operating Environment Temperature: 0°C to 50°C (external fan recommended when ambient temperature is greater than 33°C) Humidity. 10% to 90% relative humidity non-condensing  Display Tilting, color, resistive touchscreen display  Power 12V Iltinum-ion battery, or 12V DC, 3A, 3.6W power supply  Macro Camera Integrated CCD micro camera for capturing overview images of parts and tagging measurement locations  Micro Camera Integrated CCD micro camera for locating and recording measurement positions  Global Positioning System Internal GPS and optional external GPS (via Bluetooth)  GPS data included with sample information  Bluetooth Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage Stale included with sample information  Data Entry Optional external system memory / 16 GB inclustrial grade storage  Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Doutscreen keyboard  User customizable data entry Optional wireless remote barcode reader  Data Transfer WFI, USB  Operating System Linux  Support Software NitonConnect PC software  Scourity Password-protected user security  Languages English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Locking shielded carrying case  Two (2) Iltinum-ion battery packs  One (1) 110/220 VAC battery charger/ AC dalptor  Check samples  Safety lanyard  PC connection cable (USB)  Thermo Scientific Minit test stand  Thermo Scientific Minit set stan	Calibration Modes	
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Humidity: 10% to 90% relative humidity non-condensing  Display  Tilling, color, resistive touchscreen display  Power  12V lithium-ion battery, or 12V DC, 3A, 3,6W power supply  Macro Camera  Integrated CCD macro camera for locating and recording measurement positions  Integrated CCD micro camera for locating and recording measurement positions  Internal GPS and optional external GPS (via Bluetooth)  GPS data included with sample information  Bluetooth  Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage  512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry  Touchscreen keyboard  User customizable data entry Optional wireless remote barcode reader  Data Transfer  WiFi, USB  Operating System  Linux  Support Software  NitonConnect PC software  Security  Password-protected user security  Languages  English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Locking shielded carrying case  Touchs samples Safety lanyard  PC connection cable (USB)  Optional Accessories  Them Scientific™ portable test stand Thermo Scientific™ bottwork stand off Thermo Scientific™ hottwork stand off Thermo Scientific™ hottwork stand off Thermo Scientific™ hottwork stand off Thermo Scientific™ bottwork stand off	IP Rating	IP54 (splash and dust proof)
Power 12½ lithium-ion battery, or 12½ DC, 3A, 3.6W power supply  Macro Camera Integrated CCD macro camera for capturing overview images of parts and tagging measurement locations  Micro Camera Integrated CCD micro camera for locating and recording measurement positions  Global Positioning System Internal GPS and optional external GPS (via Bluetooth) GPS data included with sample information  Bluetooth Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage 512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry User customizable data entry Optional wireless remote barcode reader  Data Transfer WiF, USB  Operating System Linux  Support Software NitonConnect PC software  Security Password-protected user security  Languages English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Salety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt hotster	Operating Environment	
Macro Camera Integrated CCD macro camera for capturing overview images of parts and tagging measurement locations  Micro Camera Integrated CCD micro camera for locating and recording measurement positions  Internal GPS and optional external GPS (via Bluetooth) GPS data included with sample information  Bluetooth Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage 512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader  WiFi, USB  Operating System Linux  Support Software Nitononect PC software  Security Password-protected user security  Languages English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Salety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ both cater shield Thermo Scientific™ soil guard Belt holster	Display	Tilting, color, resistive touchscreen display
Micro Camera  Integrated CCD micro camera for locating and recording measurement positions  Global Positioning System  Internal GPS and optional external GPS (via Bluetooth) GPS data included with sample information  Bluetooth  Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage  512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry  Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader  Data Transfer  WiFi, USB  Operating System  Linux  Support Software  NitonConnect PC software  Security  Password-protected user security  Languages  English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ backscatter shield Thermo Scientific™ botwork stand off Thermo Scientific™ botwork s	Power	12V lithium-ion battery, or 12V DC, 3A, 3.6W power supply
Internal GPS and optional external GPS (via Bluetooth) GPS data included with sample information  Bluetooth Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage 512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader  Data Transfer WiFi, USB Operating System Linux Support Software NitonConnect PC software  Security Password-protected user security  Languages English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories Thermo Scientific™ portable test stand Thermo Scientific™ portable test stand Thermo Scientific™ winit test stand Thermo Scientific™ hotwork stand off Thermo Scientific™ botiscacture risheld Elet holster	Macro Camera	Integrated CCD macro camera for capturing overview images of parts and tagging measurement locations
Biluetooth Supports print functionality, external GPS connectivity and barcode reader  Memory / Data Storage 512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader  Data Transfer WiFi, USB  Operating System Linux  Support Software NitonConnect PC software  Security Password-protected user security  Languages English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ mini test stand Thermo Scientific™ mini test stand Thermo Scientific™ soil guard Belt holster  Compliance Cerpolation Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Micro Camera	Integrated CCD micro camera for locating and recording measurement positions
Memory / Data Storage  512 MB internal system memory / 16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry  Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader  Data Transfer  WiFi, USB  Operating System  Linux  Support Software  NitonConnect PC software  Security  Password-protected user security  Languages  English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ mini test stand Thermo Scientific™ soil guard Belt holster  Compliance  Compliance  Compliance Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Global Positioning System	
Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)  Data Entry  Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader  Data Transfer  WFI, USB  Operating System  Linux  Support Software  NitonConnect PC software  Security  Password-protected user security  Languages  English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ backscatter shield Thermo Scientific™ backscatter shield Thermo Scientific™ boltwork stand off Thermo Scientific™ soil guard Belt holster  Compliance  Compliance  Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1;2010	Bluetooth	Supports print functionality, external GPS connectivity and barcode reader
User customizable data entry Optional wireless remote barcode reader  Data Transfer WiFi, USB  Operating System Linux  Support Software NitonConnect PC software  Security Password-protected user security  Languages English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ backscatter shield Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt holster  Compliance Cer. RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Memory / Data Storage	, , , , , , , , , , , , , , , , , , , ,
Operating System       Linux         Support Software       NitonConnect PC software         Security       Password-protected user security         Languages       English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian         Standard Accessories       Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)         Optional Accessories       Thermo Scientific™ portable test stand Thermo Scientific™ backscatter shield Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt holster         Compliance       Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Data Entry	User customizable data entry
Support Software  NitonConnect PC software  Security  Password-protected user security  Languages  English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ mini test stand Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt holster  Compliance  Compliance  Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Data Transfer	WiFi, USB
English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian  Standard Accessories  Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ mini test stand Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt holster  Compliance  Compliance  Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Operating System	Linux
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Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard PC connection cable (USB)  Optional Accessories  Thermo Scientific™ portable test stand Thermo Scientific™ mini test stand Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt holster  Compliance  Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Security	Password-protected user security
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Thermo Scientific™ mini test stand Thermo Scientific™ backscatter shield Thermo Scientific™ hotwork stand off Thermo Scientific™ soil guard Belt holster  Compliance  Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Standard Accessories	Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Safety lanyard
	Optional Accessories	Thermo Scientific™ mini test stand  Thermo Scientific™ backscatter shield  Thermo Scientific™ hotwork stand off  Thermo Scientific™ soil guard
Licensing / Registration Varies by region. Contact your local distributor.	Compliance	Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010
	Licensing / Registration	Varies by region. Contact your local distributor.

<sup>1.</sup> The Thermo Scientific Miton MIton XL5 XRF analyzer weighs 2.8 lbs (1.3 kg). The Niton XL5 is the smallest and lightest handheld XRF analyzer leveraging x-ray tube technology.

### Learn more at thermofisher.com/XL5

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