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About Us

Innova Bio-Meditech is one of the professional solution provider of laboratory and medical devic es. Firmly committed to our mission of "sharing innovative bio-meditech solutions with the world", we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

Innova Bio-Meditech possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Qingdao, Shanghai and Suzhou. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, INNOVA produce constantly upgraded product ranges by adding new products year after year.

The passion for science

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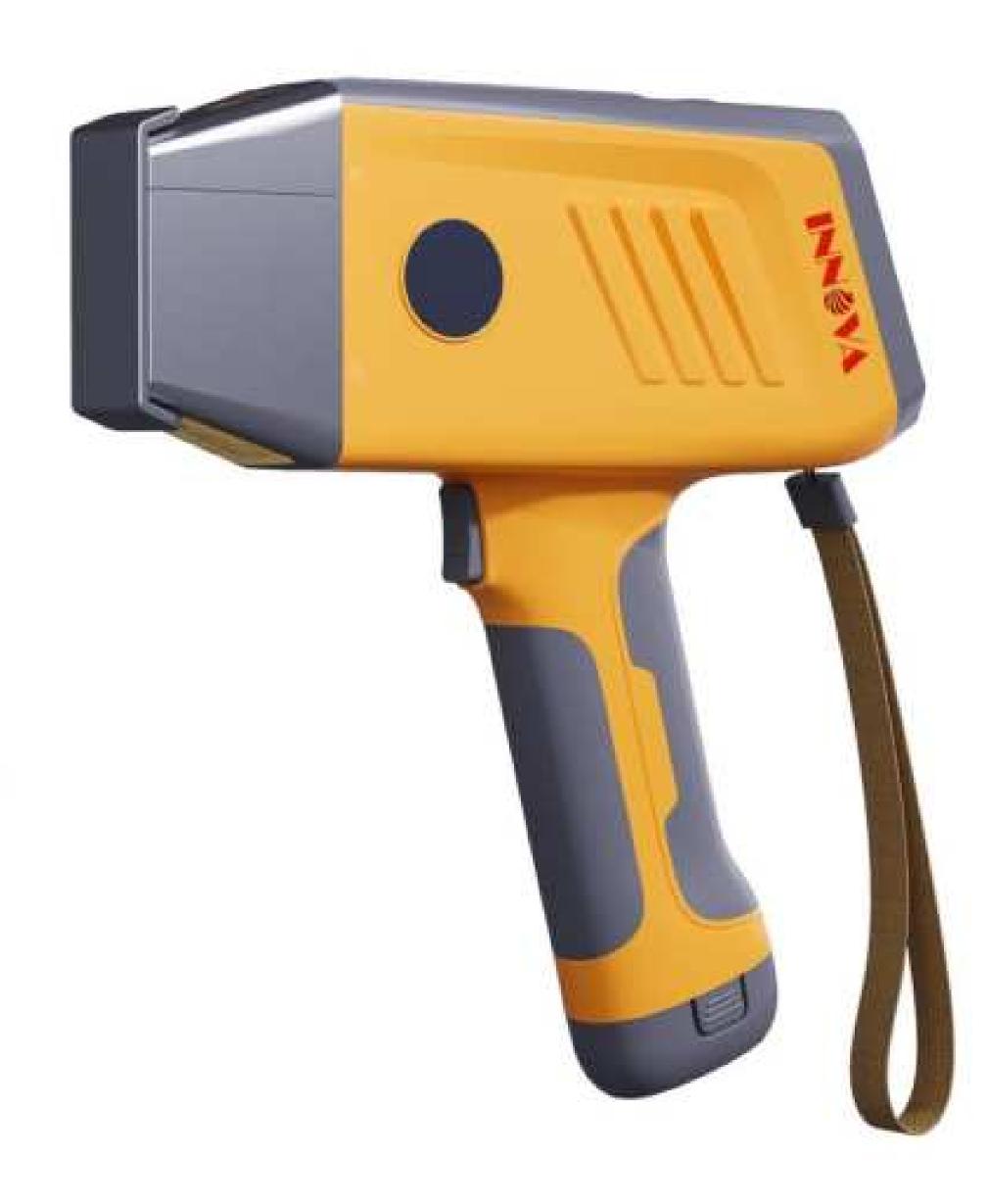
Handheld alloy analyzer

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Handheld alloy analyzer

XRF1688(Handheld gold analyzer-XRF1688 Gold)

The XRF1688 analyses common alloys in a second or less. It is small, responsive and highly accurate. The device uses patented technology (mirror system design). Temporary files generated while the system is running are automatically deleted after the unit is rebooted, allowing it to run as smoothly as a new unit for up to 10 years. One-button system testing, from start-up to testing in one step. Designed for NDT and PMI users, it detects inaccessible areas and welds. It has excellent analytical performance for low Tiv contents.



Features:

- 1. The instrument is smaller in size and lighter in weight, which is convenient to carry.
- 2. High-speed processing chip, advanced algorithms and efficient software to match, making the instrument analysis faster.
- 3. The selection of imported high-performance X-ray tube and ultra-high resolution detector, combined with digital multi-channel processing technology, making INNOVA handheld X-ray fluorescence spectrometer with ultra-high analytical accuracy.
- 4. In the measurement process, the instrument up and down on both sides of the green radiation indicator flashes, built-in technology to automatically sense the presence of samples in front of the instrument, to improve the safety and protection level of the ray.
- 5. Industrial resistance touch screen, compared with capacitive screen has more excellent backlight performance, in the field under the bright light is still clearly visible, while exempting the special environment of the field off the glove operation of the dangers.
- 6. The body of the non-slip wear-resistant streamlined design, very light, easy to carry and transport, the new high-speed digital multi-channel technology, a new brand-name library identification system, INNOVA algorithm, so that the instrument is not only faster, more accurate measurements, measurement consistency is stronger.
- 7. Intelligent battery with INNOVA bus, real-time monitoring of the battery, spare battery can directly view the remaining capacity of the battery.
- 8. The instrument does not work standby, pick up the recovery, reduce power consumption, extend the working time of the instrument.

Protection Safe Box

The device is protected by a protection safe box for waterproof, dustproof, and dropproof. The box meets the requirement in ASTM 05276-1998 (2009) and is tested in the cargo container drop method.



Specification:

Weight	Device: 1.50kg, 1.65kg With Battery
Dimension	250mm x 75mm x 270mm (L*W*H)
Excitation source	High-power high-performance X-ray microtube
Target	5 available targets for ray tubes are: gold (Au), silver (Ag),tungsten (W), tantalum (Ta), palladium (Pd) XRF1688Gold
Voltage	35kV-50kV Voltage (Changeable)
Filter	A variety of selectable filters, automatically adjusted according to different tested objects
Detector	High-resolution Si-Pin detector
Detector refrigeration temperature	Peltier effect semiconductor refrigeration system
Standard film	316 external standard films/window protection cover (internal plus version standard films available)
Power supply	1 lithium battery (7.2v\6600mAh)
Processor	High-performance ARM pulse processor
Operating system	Windows CE6.0
Data transmission	Hotspot sharing via Bluetooth and Wifi
Standard mode	INNOVA Alloy Plus 6.0
Data processing	32G large-capacity data storage card: ≥80,000 sets of data and spectrograms
Display screen	High-resolution TFT industrial-grade colored high-definition touch screen, it is ergonomic, sturdy, dust- proof, and waterproof, clearly visible under any light conditions.
Outline design	The integrated designed body is sturdy, waterproof, dustproof, antifreeze, shockproof, and can be used normally in harsh environments.
Safe operation	"One key" detection, auto-lock, detection auto-stop functions. The X-raywill automatically be turned off if there is no sample in front of thedetection window for 2 seconds. 3/2 of the shell of the device is covered with a 6061 aluminum alloy frame design, with better X-ray blockage.
Detection report	Customized detection report available as per the customers' demands
Element analysis	Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Hf, Ta, W, Pb, Bi, Zr, Nb, Mo, Cd, Sn, Sb, Re, In, Totaling 22 elementsXRF1688 Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Hf, Ta, W, Pb, Bi, Zr, Nb, Mo, Cd, Sn, Sb, Re, In, Au, Ag, Pt, Pd, Ru, Rh, Ir, Totaling 29 elementsXRF1688Gold

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XRF1688Mate/Pro

Application fields:

- Nondestructive, rapid and accurate analysis of alloy elements and alloy grade identification on the site.
- 2. Metal identification /scrap metal sorting.
- QA/QC management in metal production, processing, casting, etc.
- 4. Medicine and biological medicine.
- Identification of positive materials, oil refining and petrochemical industry Thermal power plant, hydroelectric power station, nuclear power plant.
- 6. Accurate element analysis of raw material and PMI identification so as to meetproduction needs and ensure security of equipment and materials used in the process.



Features:

- 1. Small, light and easy to carry.
- 2. High-speed processing chip, advanced algorithm and high-responsive software, resulting in even faster analysis.
- 3. High-performance X-ray tube, ultra-high resolution detector combined with digital multi-channel processing technology, yielding super-high detection resolution.
- 4. Industrial resistive touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field. At the same time, people don't need to take off gloves when they are opreating machine in some particular environment.
- 5. Intelligent battery management exerts a real-time monitoring of the residual capacity of battery and backup battery through MSBUS bus.
- 6. Automatic switch to standby mode when not used and recovery after the machine is picked up, which saves power and extends working time; XRF1688Mate/Pro will also give out alarm when ambient temperature or humidity exceeds the scope of application.
- 7. On XRF1688Mate/Pro, users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin of products and batch number).
- 8. XRF1688Mate/Pro is built with double beam technology which can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature. The brightness of the display of XRF1688Mate/Pro is automatically regulated according to environment brightness.

- 9. XRF1688Mate/Pro can be configured and maintained in a remote way via Internet.
- 10. XRF1688Mate/Pro's new algorithm optimizes the spectral resolution, so lower detection limits can be achieved, which are comparable with even large-scale lab instruments.
- 11. XRF1688Mate/Pro Ultra-short optical™ path design can significantly improve light element excitation effects, without the fall/fill condition.
- 12. XRF1688Mate/Pro has a built-in environmental sensing system covering conditions such as temperature, dust humidity and others.

Specification:

Weight	1.6Kg (With Battery)
Dimension	254 x 79 x 280 mm (L x W x H)
Excitation source	Up to 50KV/200μA, tube pressure and tube flow can be adjusted freely, Target Ag (standard), Au(optional), W(optional), Rh(optional).
Detector	BOOST Si-PIN detector for XRF1688Mate.
	SDD detector for XRF1688Pro.
Range of detection	All elements between Mg and U.
	Industrial resistive touch screen with screen size of 4.3".
Display system	Professional operating system and software.
Display System	Multiple languages including English and Chinese.
	And it automatically adjusts display brightness according to the environment brightness.
	32GB memory.
Data processing	USB, Bluetooth, wifi can connect the device to the Internet, repair and setup can be done remotely. Data can be exported as EXCEL or PDF. Users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin and batch number).
Heat dissipation	Equipped with a dedicated T-shaped radiator to dissipate the heat; no need to wait for cooling of detector.
Cafatu	Built-in double beam technology can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature.
Safety	Waterproof, dust-proof and shockproof suitcase.
	Safety Band.
Power supply system	Intelligent battery with MSBUS bus, real-time monitoring battery, spare battery can directly check the remaining capacity of the battery, the battery complies with air dangerous goods transport regulations. A single battery can work for about 8 hours

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Handheld gold analyzer

XRF1688Gold

See more details in XRF1688

XRF1688Gold Mate/Pro

Application fields:

- 1. Nondestructive, rapid and accurate analysis of precious metals(such as gold, carat gold, platinum, silver, etc).
- 2. Precious metals grade identification.
- 3. Precious metals elements and contents analyze.
- 4. Mixed metal or other alloy metal.

Usage:

- karat value, percentage content for gold:Wide karat value for gold display from 9K to 24K and %percentage content.
- 2. PT value, percentage content for platinum: Wide PT value for platinum display from PT600 to PT1000 and
- 3. S value, percentage content for silver:Wide S value for silver display from S600 to S1000 and %percentage content.
- Percentage content for other alloy.

Elements To Be Analyzed And Test Modes:

Te	st Modes Of XRF1688Gold Mate/Pro And Elements Covered
Analysis mode	Scope of elements in standard test mode can be extended if there is such a need.
XRF1688Gold Mate/Pro	can analyze Fe,Co,Ni,Cu,Zn,Re,Ru,Rh,Pd,Ag,Cd,In,Ir,Pt,Au,Pb



Features:

- 1. Small, light and easy to carry.
- 2. High-speed processing chip, advanced algorithm and high-responsive software, resulting in even faster analysis.
- 3. High-performance X-ray Tube, Ultra-high Resolution Detector combined with Digital Multi-channel Processing Technology,
- 4. Industrial resistive touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field. At the same time, people don't need to take off gloves when they are opreating machine in some particular environment.
- 5. Intelligent battery management exerts a real-time monitoring of the residual capacity of battery and backup battery through MSBUS bus.
- 6. Automatic switch to standby mode when not used and recovery after the machine is picked up, which saves power and extends working time; moreover, XRF has a gravity sensing system which shuts down instrument automatically when it accidentally fallsdown, another safety consideration; XRF will also give out alarm when ambient temperature or humidity exceeds the scope of application.
- 7. On XRF, users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin of products and batch number).
- 8. XRF is built with double beam technology which can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature. The brightness of the display of XRF is automatically regulated according to environment brightness.
- 9. XRF can be configured and maintained in a remote way via Internet.
- 10. XRF's new algorithm optimizes the spectral resolution, so lower detection limits can be achieved, which are comparable with even large-scale lab instruments.
- 11. XRF Ultra-short optical™ path design can significantly improve light element excitation effects, without the fall/fill condition.
- 12. XRF has a built-in environmental sensing system covering conditions such as temperature, dust humidity and others.

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Specification:

Weight	1.6Kg (With Battery)
Dimension	254 x 79 x 280 mm (L x W x H)
Excitation source	Up to 50KV/200μA, tube pressure and tube flow can be adjusted freely, Target Ag (standard), Au(optional), W(optional), Rh(optional).
Detector	BOOST Si-PIN detector for XRF1688GoldMate.
	SDD detector for XRF1688Gold Pro.
Range of detection	All elements between Mg and U.
	Industrial resistive touch screen with screen size of 4.3".
Display system	Professional operating system and software.
	Multiple languages including English and Chinese.
	And it automatically adjusts display brightness according to the environment brightness.
	32GB memory.
Data processing	USB, Bluetooth, wifi can connect the device to the Internet, repair and setup can be done remotely. Data can be exported as EXCEL or PDF. Users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin and batch number).
Heat dissipation	Equipped with a dedicated T-shaped radiator to dissipate the heat; no need to wait for cooling of detector.
Cafaty	Built-in double beam technology can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature.
Safety	Waterproof, dust-proof and shockproof suitcase.
	Safety Band.
Power supply system	Intelligent battery with MSBUS bus, real-time monitoring battery, spare battery can directly check the remaining capacity of the battery, the battery complies with air dangerous goods transport regulations. A single battery can work for about 8 hours

Handheld Mineral analyzer

XRF600

INNOVA handheld XRF600 analyzer is suitable for field multi-element analysis of ores. It can be used for quick and comprehensive ore study during field analysis. It has low sample requirements, but provides accurate test results. It is capable of accurately analyzing high concentration samples, thus avoiding verification tests in the laboratory. In light and compact volume, the analyzer gives a full play in simpler andeasier prospecting, exploration, and multi-element detection and analysis of various geological samples.



Features:

- 1. X-ray tube light source, multi-beam filtration technology: HP's Personal Digital Assistant (HP Palmtop) for the excellent detection range, speed and accuracy as well as upgrade potential.
- 2. Advanced and versatile X-ray data modes: Using the Compton normalization method, "internal standards" can be used for quantitative analysis without special correction.
- 3. **Basic parameter analysis:** The semi-quantitative analysis mode is suitable for testing samples composed of various elements and with uneven structural density.
- 4. Experimental correction method: Use the "calibration curve" for correction to generate a new calibration curve.
- 5. Use the high-level spectrum recognition software: The spectrum can be displayed on the screen.
- 6. Conduct spectrum comparison and analysis based on internal standards.

Main applications:

XRF600 handheld ore analyzer can be used for field analysis of a variety of ores.

It is widely applied in detection and analysis of ores, as well as slag refining analysis and archaeological research: It is applicable to all naturalores from phosphorus to uranium, slag, rock, mud and slurry, including gold ore (Au), silver ore(Ag), copper ore(Cu), ironore(Fe), tin ore(Sn), zinc ore(Zn), nickel ore(Ni), molybdenum ore(Mo), iridium ore(Ir), arsenic ore(As), lead ore(Pb), titanium ore(Ti), antimonyore(Sb), manganese ore(Mn), vanadium ore(V), iodine ore(I), sulfurore(S), potassiurm ore(K), phosphate ore(P), uranium ore(U), etc.

Test samples include solid, liquid, dust, powder, solid, fragment, filtrate, film and other tangible objects.

Protection Safe Box

The device is protected by a protection safe box for waterproof, dustproof, and dropproof. The box meets the requirement in ASTM 05276-1998 (2009) and is tested in the cargo container drop method.



Specification:

Main Configuration	1. One ore analyzer host; 2. One standard sample: 3. Two original rechargeable lithium batter ies 4. Charger and power cord; 5. One USB flash disk (32G): 6. Five reinforcedpolypropylene films, 7. One standard portable moisture-prootand shockproofbox.
Standard mode	Ore mode, optional mode: alloy analysis mode and soil analysismode.
Selfdiagnosisfunction	This product is able to automatically diagnose the hardware.software, network, and battery, and generate logs for quicktroubleshooting.
Operating system	Secure Windows CE 6.0 operating system
Test method	Basic parameter method, supporting the empirical coefficientmethod to correct the point contact or trigger control of testing.without long-time triggering in the whole test process. Or, pressand hold the trigger to test samples as requested by customers.
Filter	8 filters, for automatically switching based on test elements;
Excitation source	High-power micro straight X-ray tube, W target material, 4Whigh-power X-ray tube, tube voltage 50K V, current up to 100pA;KMX technology, higher X-ray count rate, ultra-low electronicnoise. No external standard sample is required in each test. Energy is automatically calibrated and checked during testing.

Detector	Moxtek Si-pin (6mm²)Amptek Si-pin (25mm²)
Test elements	The product can be used to analyze metal elements in ore andsoil, such as ,Ti, V Cr, Mn Fe, Co, Ni,Cu Zn, Hf Ta, W, He,Se, Au, Br, Pb, Bi, Zr, Nb, Mo, Ag, Cd, Sn, Sb, Re, Ir, Pt, Hg,Ru, Rh, Pd



XRF600 Mate/Pro

Features:

- 1. Small, light and easy to carry.
- 2. High-speed processing chip, advanced algorithm and high-responsive software, resulting in even faster analysis.
- 3. High-performance X-ray Tube, Ultra-high Resolution Detector combined with Digital Multi-channel Processing Technology,
- 4. Industrial resistive touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field. At the same time, people don't need to take off gloves when they are opreating machine in some particular environment.
- 5. Intelligent battery management exerts a real-time monitoring of the residual capacity of battery and backup battery through MSBUS bus.
- 6. Automatic switch to standby mode when not used and recovery after the machine is picked up, which saves power and extends working time; moreover, XRF has a gravity sensing system which shuts down instrument automatically when it accidentally fallsdown, another safety consideration; XRF will also give out alarm when ambient temperature or humidity exceeds the scope of application.
- 7. On XRF, users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin of products and batch number).
- 8. XRF is built with double beam technology which can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature. The brightness of the display of XRF is automatically regulated according to environment brightness.
- 9. XRF can be configured and maintained in a remote way via Internet.
- 10. XRF's new algorithm optimizes the spectral resolution, so lower detection limits can be achieved, which are comparable with even large-scale lab instruments.
- 11. XRF Ultra-short optical™ path design can significantly improve light element excitation effects, without the fall/fill condition.
- 12. XRF has a built-in environmental sensing system covering conditions such as temperature, dust humidity and others.

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Analysis of ore types:

- 1. Iron ore (hematite, titanium, iron, etc.)
- 2. Copper (chalcopyrite, cuprite, malachite etc.)
- 3. Chromium (chromium spinel, chromite, chrom bismite etc.)
- 4. Molybdenum (copper molybdenum, molybdenum, tungsten and molybdenum ore etc.)
- 5. Tungsten (tin tungsten scheelite, wolframite, etc)
- 6. Tantalum ore (tantalite columbite, pyrochlore, etc.)
- 7. Lead-zinc ore (galena, sphalerite, cerussite etc.) nickel laterite ore, copper nickel sulphide etc.
- 8. Gold in ore or alluvial gold detection

Specification:

Weight	1.6Kg(With Battery)
Dimension	254 x 79 x 280 mm (L x W x H)
Excitation source	Up to 50KV/200μA, tube pressure and tube flow can be adjusted freely, Target Ag (standard), Au(optional), W(optional), Rh(optional).
Detector	BOOST Si-PIN detector for XRF1688Mate.
	SDD detector for XRF1688Gold Pro.
Range of detection	All elements between Mg and U.
	Industrial resistive touch screen with screen size of 4.3".
Display system	Professional operating system and software.
Display System	Multiple languages including English and Chinese.
	And it automatically adjusts display brightness according to the environment brightness.
	32GB memory.
Data processing	USB, Bluetooth, wifi can connect the device to the Internet, repair and setup can be done remotely. Data can be exported as EXCEL or PDF. Users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin and batch number).
Heat dissipation	Equipped with a dedicated T-shaped radiator to dissipate the heat; no need to wait for cooling of detector.
C-f-t.	Built-in double beam technology can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature.
Safety	Waterproof, dust-proof and shockproof suitcase.
	Safety Band.
Power supply system	Intelligent battery with MSBUS bus, real-time monitoring battery, spare battery can directly check the remaining capacity of the battery, the battery complies with air dangerous goods transport regulations. A single battery can work for about 8 hours.

Handheld soil analyzer

XRF500

XRF500 handheld X-ray fluorescence analyzer integrates optoelectronics, microelectronics, semiconductors and computer technology as a new generation of handheld XRF products with independent intellectual property rights.

The XRF500 handheld XRF (handheld spectrometer) soil heavy metal analyzer uses a new large-screen high-resolution LCD and a new digital multi-channel data processor for handheld analysis of heavy metal elements in the soil.

XRF500 gives in-situ testing of pollutants and soil restoration analysis, i.e. making effective testing of heavy metal elements, including mercury, cadmium, lead, arsenic, copper, zinc, nickel, cobalt, vanadium, chromium, manganese and others, or other elements as requested by customers. The analyzer is small in volume, light in weight and able to carry away for easy testing. With excellent performance comparable to PCs, it is good at testing heavy metals with low content in soil.

Features:

- 1. Intelligent one-touch detection and intelligent judgement of mercury, cadmium, lead, arsenic, copper, zinc, nickel, cobalt, vanadium, chromium, manganese, etc. in contaminated soil or a variety of elements required by customers.
- 2. Built-in GPS, can search for satellite signals in the field at any time to determine the geographical location of the sampling point, quickly investigate large-scale soil geological contamination areas, make contamination maps, real-time monitoring of the contamination of each area, but also various types of agricultural land, residential land, commercial land, industrial land, heavy metal contamination of the environment evaluation.
- 3. It is also capable of rapidly tracking on-site pollution anomalies, effectively identifying "polluted" areas and the boundaries of polluted areas, and conducting real-time investigations.

Protection Safe Box

The device is protected by a protection safe box for waterproof, dustproof, and drop-proof. The box meets the requirement in ASTM 05276-1998 (2009) and is tested in the cargo container drop method.



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Specification:

Weight	Host: 1.50kg; With Battery: 1.65kg
Dimension	250mm x 75mm x 270mm (L*W*H)
Excitation source	High-power high-performance X-ray microtube
Target	5 available targets for ray tubes are: gold (Au), silver (Ag).tungsten (W),tantalum (Ta),palladium (Pd)
Voltage	35kV-50kV Voltage (Changeable)
Filter	A variety of selectable filters, automatically adjusted according to different tested objects
Detector	High-resolution Si-Pin detector
Detector refrigeration temperature	Peltier effect semiconductor refrigeration system
Standard film	316 external standard films/window protection cover (internal plus version standard films available)
Power supply	2 lithium battery (7.2v\6600mAh)
Processor	High-performance ARM pulse processor
Operating system	Windows CE6.0
Data transmission	USB flash disc with two-way interface (32G)
Standard mode	Alloy Plus 6.0
Data processing	32G large-capacity data storage card: ≥80,000 sets of data and spectrograms
Display screen	High-resolution TFT industrial-grade colored high-definition touch screen, it is ergonomic, sturdy, dust- proof, and waterproof, clearly visible under any light conditions.
Outline design	The integrated designed body is sturdy, waterproof, dustproof, antifreeze, shockproof, and can be used normally in harsh environments.
Safe operation	"One key" detection, auto-lock, detection auto-stop functions. The X-raywill automatically be turned off if there is no sample in front of thedetection window for 2 seconds. 3/2 of the shell of the device is covered with a 6061 aluminum alloy frame design, with better X-ray blockage.
Detection report	Customized detection report available as per the customers' demands
Element analysis	Hg, Cd, Pb, As, Cu, Zn, Ni,Co, V, Cr,Mn and other elements can be detected at the same time. In addition, other elements can be detected according to customers' requirements.



XRF500 Mate/Pro

Elements To Be Analyzed And Test Modes:

I	est modes of XRF500Gold Mate/Pro and elements covered
Analysis mode	Analysis elements
XRF500Gold Mate/Pro	Standard configuration mode analysis range, such as special elements, can be added can analyze K,Ca,Ti,V,Cr,Mn,Fe,Co,Ni,Cu,Zn,As,Se,Rb,Sr,Y,Zr,Nb,Mo,Ag,Cd,Sn,Sb,W,Re,Pd,Au,Hg,Pb,Bi,Ba, totaling 31 elements

Features:

- 1. Small, light and easy to carry.
- 2. High-speed processing chip, advanced algorithm and high-responsive software, resulting in even faster analysis.
- 3. High-performance X-ray Tube, Ultra-high Resolution Detector combined with Digital Multi-channel Processing Technology, yielding super-high detection resolution.
- 4. Indicator lights flash on both sides for safety purposes during measurement, i.e., the built-in double beam technology will automatically sense whether there is a sample at the measurement window.
- 5. Industrial resistive touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field. At the same time, people don't need to take off gloves when they are opreating machine in some particular environment.
- 6. XRF utilizes anti-slip, abrasion resistance and streamlined design, which is light and easy to carry. It also integrates the new high speed digital multi-channel technology, the new library grade.
- 7. Intelligent battery management exerts a real-time monitoring of the residual capacity of battery and backup battery through MSBUS bus.
- 8. Automatic switch to standby mode when not used and recovery after the machine is picked up, which saves power and extends working time; moreover, XRF has a gravity sensing system which shuts down instrument automatically when it accidentally falls down, another safety consideration; XRF will also give out alarm when ambient temperature or humidity exceeds the scope of application.
- 9. XRF adjusts air pressure factor automatically based on altitude it has detected. This function increases excitation effect of light elements by 40% and that of rare earth elements by 30%.
- 10. On XRF, users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin of products and batch number).
- 11. XRF is built with double beam technology which can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature. The brightness of the display of XRF is automatically regulated according to environment brightness.

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- 12. XRF can be configured and maintained in a remote way via Internet.
- 13. XRF can build a three dimensional element content distribution graph allowing for a fast estimate of mineral reserves or the extent of geological disaster with the built-in GPS for latitude and longitude reading combined with a 3rd party GIS analysis software.
- 14. XRF's new algorithm optimizes the spectral resolution, so lower detection limits can be achieved, which are comparable with even large-scale lab instruments.
- 15. XRF Ultra-short optical™ path design can significantly improve light element excitation effects, without the fall/fill condition.
- 16. XRF has a built-in environmental sensing system covering conditions such as temperature, dust humidity and others.

Specification:

Weight	1.6Kg (With Battery)
Dimension	254 x 79 x 280 mm (L x W x H)
Excitation source	Up to 50KV/200μA, tube pressure and tube flow can be adjusted freely, Target Ag (standard), Au(optional), W(optional), Rh(optional).
etector	BOOST Si-PIN detector for XRF500Mate.
	SDD detector for XRF500Gold Pro.
Range of detection	All elements between Mg and U.
	Industrial resistive touch screen with screen size of 4.3".
Display system	Proprietary operating system software and sound waves.
	Multiple languages including English and Chinese.
	And it automatically adjusts display brightness according to the environment brightness.
	32GB memory.
Data processing	USB, Bluetooth, wifi can connect the device to the Internet, repair and setup can be done remotely. Data can be exported as EXCEL or PDF. Users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin and batch number).
Heat dissipation	Equipped with a dedicated T-shaped radiator to dissipate the heat; no need to wait for cooling of detector
	Built-in double beam technology can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature.
Safety	Waterproof, dust-proof and shockproof suitcase.
	Safety Band.
Power supply system	Intelligent battery with MSBUS bus, real-time monitoring battery, spare battery can directly check the remaining capacity of the battery, the battery complies with air dangerous goods transport regulations. A single battery can work for about 8 hours