

HANDHELD XRF SPECTROMETER LXRF-B10 AND LXRF-B11



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Handheld XRF Spectrometer LXRF-B10

Handheld XRF Spectrometer LXRF-B10 (XRF stands for X-ray fluorescence) comes in special three level military-protection-box, which is compression free, moisture-proof and shockproof for convenient handling and for on field analysis. Rechargeable lithium battery 9000 mAh, sustainable work up to 12 hours. The core parts are Miniature X-ray tube, Fast-SDD detector, digital signal processor and micro multichannel intelligent analysis module. Designed with 5 inch HD screen with clear display, 360° rotation and multi-points operation. No need for sample preparation, direct measurement and analysis of the surface of goods that need to be tested.

Handheld XRF Spectrometer LXRF-B11

Handheld XRF Spectrometer LXRF-B11 (XRF stands for X-ray fluorescence) comes in special three level military-protection-box, which is compression free, moisture-proof and shockproof for convenient handling and for on field analysis. Rechargeable lithium battery 27000 mAh, sustainable work up to 12 hours. The core parts are Miniature X-ray tube, Fast-SDD detector, digital signal processor and micro multichannel intelligent analysis module. Designed with 5 inch transreflective LCD touch screen and multi-points operation. No need for sample preparation, direct measurement and analysis of the surface of goods that need to be tested.

FEATURES

- ▷ Energy dispersive X-ray fluorescence analytical Method
- ▷ Simultaneous analysis of 40 elements using single detector
- ▷ Digital multi-channel technology with SPI data transmission
- ▷ Designed with 5 inch HD screen with clear display, 360° rotation, multi-points operation (LXRF-B10)
- ▷ Designed with 5 inch transreflective LCD touch screen, multi-points operation (LXRF-B11)
- ▷ Quick measurement and accurate testing of the samples for a long time by its test block
- ▷ Rechargeable lithium battery 9000 mAh, sustainable work up to 12 hours (LXRF-B10)
- ▷ Rechargeable lithium battery 27000 mAh, sustainable work up to 12 hours (LXRF-B11)
- ▷ Integrated design of seal type with waterproof and dustproof function
- ▷ Built in memory battery continue replace the battery power
- ▷ Ergonomic, lightweight, handheld design, easy to carry, safe for transportation
- ▷ Large data storage through ultra-high frequency memory and mass storage space

APPLICATIONS

Handheld XRF Spectrometer is used for the exploration of elemental composition from magnesium (Mg) to uranium (U), from parts per million to 100%. Used across scientific centres, Research labs for quality testing of materials through measurement of elements present.

SPECIFICATIONS

Model no.	LXRF-B10
Analytical Method	Energy dispersive X-ray fluorescence analytical Method
Elements Measuring	Atomic number from 12 to 92 [elements from magnesium (Mg) to uranium (U)] can be measured
Range	Simultaneous detector
Content measurement range	ppm to 100%
Detector	SDD detector, Simultaneous analysis 40 elements
Detector resolution	Minimum can reach 128 eV
Detection limit	Minimum detection limits at 1 to 500 ppm
Detection Objective Solid, liquid, powder	Detection Objective Solid, liquid, powder
The detection time	1 to 60 seconds (a second report results)
Excitation source	50 kV/200 uA- silver target end window integrated miniature X ray tube and high voltage power supply
Collimator and filter	Collimator diameters are 4.0 mm and 2.0 mm, 6 kinds of filters with automatic switching functions
Camera system	Built-in 500 W pixels high definition camera, to observe testing position at any time
Display screen	Brand new 5 inch transfective LCD touch screen, the resolution is 1080×720
Built-in system	GPS, WIFI, Bluetooth
Power Supply	Rechargeable lithium battery, standard is 9000 mAh, sustainable work up to 12 hours
Ambient temperature	-20 to 50°C
Relative Humidity	≤ 90%
Data transmission	Digital multi-channel technology, SPI data transmission, quick analysis, the high count rate; waterproof mini USB, and can be connected with a desktop computer
Warning-Signalling System	Green light means power on, red flashing means testing and yellow flashing means the problems
Dimension (L×W×H)	244×90×330 mm
Weight	1.7 kg

SPECIFICATION

Model no.	LXRF-B11
Analytical Method	Energy dispersive X-ray fluorescence analytical Method
Elements Measuring	Atomic number from 12 to 92 [elements from magnesium (Mg) to uranium (U)] can be measured
Range	Simultaneous detector
Content measurement range	ppm to 99.99%
Detector	SDD detector or fast SDD detector (optional)
Detector resolution	Minimum can reach 128 eV
Detection limit	Minimum detection limits at 1 to 500 ppm
Detection Objective	Solid, liquid, powder
The detection time	1 to 60 seconds (a second report results)
Excitation source	50 kV/200 uA- silver target end window integrated miniature X ray tube and high voltage power supply
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STANDARD ACCESSORIES

Accessories no.	Name
1	Universal charger and car charger
2	4G SD memory card and card reader
3	Two lithium battery and charger
4	PDA accessories
5	Radiation shield