



Change the world once again

# XRF HandHeld

Handheld XRF analyzer

Lighter, smaller, more convenient

Provides a full range of onsite technical analysis solutions





# K-1688

The best handheld XRF ever.



## Smaller, quicker, more accurate, and more portable

The K-series have set a new performance standard for handheld XRF. This is the lightest, quickest, and most accurate spectrometer, with a weight of only 1.65kg (battery included). The features of the X-series, such as small size, fast response, and high accuracy, have been integrated into one device. It is specifically designed for NTD and PMI users, and the detection of places that are unreachable, and welds. It has excellent analysis performance to low content Ti v.

K-1688 can analyze common alloys in one second or less. The system is built on the Microsoft WINCE platform, which has better compatibility with the computer platform in facilitating data communication. The users who want to use the device need only to know how to use a computer. KMS-Ray patented technology (mirror system design) is adopted in this device. The temporary files generated during system operation will be automatically deleted after the device restarts, and it can run smoothly as a new one for 10 years. One key system test, one step from startup to test, the test has never been so convenient.



## Specification table of K-1688 handheld XRF

Super quick and accurate X-ray fluorescence analyzer

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)
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	K-MAX 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-ray will automatically be turned off if there is no sample in front of the detection 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	Mg, Al, Si, P, S, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, zn, Hf, Ta, W, Hg, Se, Au, Br, Pb, Bi, Zr, Nb, Mo, Ag, Cd, Sn, Sb, Re, Ir, Pt, Hg, Ru, Rh, Pd, etc. Note: The light elements marked in red are for the plus version SDD detector configuration, and the others are Si-Pin.



## 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.

## Reach more unreachable locations

