



**ARUN**  
TECHNOLOGY

THE POWER TO SEE BEYOND THE LIGHT

# HELIUS

## XRF ANALYSER

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# HELIUS

QUICK

RELIABLE

NON-DESTRUCTIVE

The first in ARUN Technology's series of XRF spectrometers. Using X-Ray Fluorescence analysis technology, this mid-size handheld instrument analyses component elements of many materials quickly, reliably, and non-destructively. Weighing 1.51kg; this is the lightest amongst other devices in the market.

Since the introduction of XRF spectrometry in the 1950s, it has been a proven and popular technique for metal analysis and is widely used as an efficient means in quality control in many metal processing facilities.

The HELIUS XRF series of metal analysers are a good choice for analysis in many fields; delivering rapid and accurate results right in the palm of your hand and matching to an extensive library of grades. Due to the advanced electronics and state-of-the-art mathematical algorithms, the HELIUS XRF instruments provide ultimate quality of measurement within seconds. It is the ideal solution for grade checking and detailed analysis of incoming materials, finished goods and in-process production parts in a non-destructive way.

The HELIUS (XRF) is available in 3 models: 300, 600 and 900. All have an Ag anode, 50kV, 80µA X-Ray tube excitation source delivering a power of 4W. HELIUS 300 and 600 are calibrated for either alloys (Cast), precious metals (Kt) or minerals (Geo). The HELIUS 300 and 600 (Cast) models are calibrated for Fe, Cu, Ni and Ti. If other bases are required for precious metals or minerals, this can be configured. The HELIUS 900 is calibrated for either alloys (Cast) or minerals (Geo). The HELIUS 900 (Cast) model includes Mg, Al, Si, P, S, light elements and Al-based alloys.



## HELIUS 300 CAST KT GEO

This base version XRF has an Si-Pin detector with no light element detection. This is a good instrument for getting grade identification of metals in seconds without extensive analysis. With its simple pass/fail sorting mode, this is ideal for the quick incoming inspection of materials.



## HELIUS 600 CAST KT GEO

This mid-range version has a built-in top end SDD detector. It provides reliable results in as little as 2 seconds for most alloys. It is the ideal instrument for scrap metals sorting and positive materials identification.



## HELIUS 900 CAST GEO

This high-end version with SDD technology provides reliable results of non-metallic materials in seconds. It is the ideal analyser for environmental and RoHS compliance screening and geological inspections.

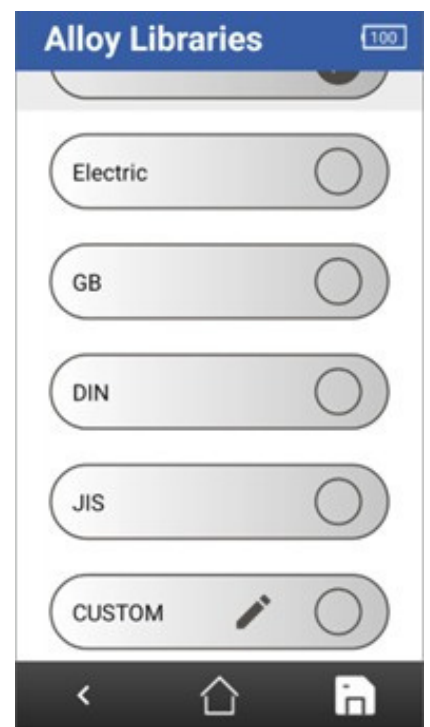
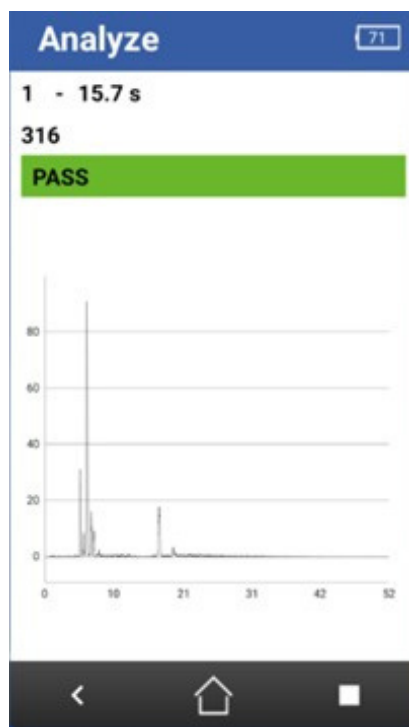
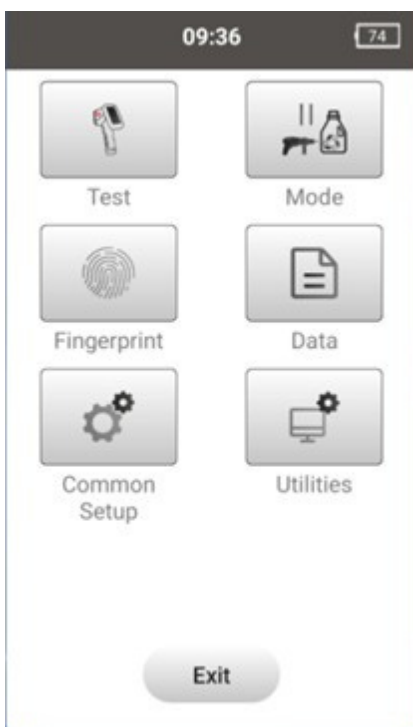
# ANYTIME ANYWHERE

The ergonomic design, light weight and small size make it convenient and easy to use. The tapered test head can easily measure curved or corner parts, such as welds. The large capacity battery ensures work can be carried out for as long as 10-12 hours.



The 5.5" colour touch screen with backlight function allows the user to see the screen in all conditions. Touch screen gloves can be worn while manoeuvring through the screen functions. It has a comprehensive grade library which includes AISI, ASTM, DIN, JIS and GB grades, covering more than 1,600 alloys.

The user can modify the existing grade library, add new grades or customise the library. Up to 100,000 test results can be stored, including spectrograms and sample images. Results and reporting data can easily be transferred over to PC by Wifi or USB. An optional sample camera function is available for accurate test positioning.



# TECHNICAL SPECIFICATIONS

Instrument Weight	1.51kg
Instrument Dimension	22 x 9.1 x 27.6cm 8.66" x 3.58" x 10.86"
X-Ray Tube	Ag target, 50kV max, 80µA max
X-Ray Maximum Power	4W
Filter Wheel	Fixed
Detector Resolution	190eV
Display Screen	5" colour touch screen
Electronic System	Quad Core
Battery	2 Lithium Ion Batteries
IP Rating	IP54 (Waterproof and Dustproof)
Storage Capacity	8GB SD
Connection	USB and WiFi
Report Formats	MS Excel and .TXT
PC Software	AXR1.0 Software
Operating System	Android
X-ray Safety Features	Air detection sensor off method
Basic Alloy ID Detection Speed	Under 5 seconds
Material Database	1,200+
Small Point Collimator	Optional

## STANDARD ACCESSORIES

- Waterproof and shockproof box
- 2 Li-ion batteries
- USB Cable
- AXR1.0 software
- Charger
- Alternate Kapton window film
- Nylon Instrument Sheath
- Standardisation sample (316)
- Power adaptor (9V 2A)
- Memory stick (32G)
- Wrist band



To assure the continued operation of our spectrometers, ARUN Technology performs yearly service on instruments and has on offer of After-Sales Service & Maintenance Plans. ARUN and its' global channel partners work closely together with the customer to ensure instruments are working to their optimum performance for the longest possible functioning life.





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