

Handheld XRF

Nanoris



Material Analysis



Minerals / Mining



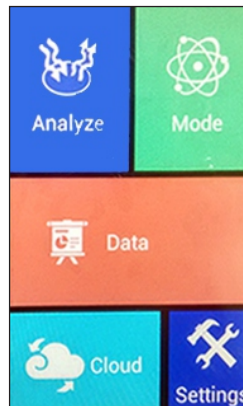
PMI



RoHS



Menu Window



Application Window



Technology

Nanoris is based on Si-PIN/SDD technology for measuring alloys including precious metals.

Calibration

Pre-calibrated for major alloys and precious metals with elements range from Mg and U.

Ease

Non-destructive testing with one touch operation within few seconds. User friendly & easy to operate doesn't require special person to operate.

Compact

Small, light With 1.6kg (with out battery) weight is very easy to carry & test

Excellent Performance

High-speed processing chip, advanced algorithm and high-responsive software, resulting in even faster analysis.

High-performance X-ray Tube, Ultra-high Resolution Detector combined with Digital Multi-channel Processing Technology, yielding super-high detection resolution.

Industrial resistive touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field.

Data Processing

With built in 32GB memory, USB, Bluetooth, data can be exported to EXCEL or PDF formats. Users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin and batch number).

Software

Nanoris software is a professional FP based software which enables the users to easily configure passwords, customize analysis reports.

Safety

Built-in double beam technology can automatically sense whether there is a sample at the measurement window to avoid any damage. Provided with standard Waterproof, dust-proof and shockproof suitcase & Safety Band for safety use of machine.

Power supply system

Intelligent battery management through MSBUS bus, real-time monitoring of the residual capacity of battery and backup battery. A single battery can last upto 8 hours.

Performance Features

1. Nondestructive testing (NDT)

Nanoris test does not damage or have any adverse effect on the use of samples. No damage is foreseen in the entire test process.

2. High-performance X-ray Tube, Ultra-high Resolution Detector combined with Digital Multi-channel Processing Technology, yielding super-high detection resolution.

3. Resistive Industrial 4.3" touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field. It automatically adjusts display brightness according to the environment brightness.

5. Automatic switch to standby mode when not used and recovery after the machine is picked up, which saves power and extends working time; machine also give out alarm when ambient temperature or humidity exceeds the scope of application.

6. Aczet Ultra-short optical path design can significantly improve light element excitation effects, without the fall/fill condition.

Application Range

Nondestructive, rapid and accurate analysis for:

1. Alloy elements and alloy grade identification on the site.
2. Metal identification / scrap metal sorting.
3. QA/QC management in the production of metal, processing and manufacturing, etc.
4. Accurate element analysis of raw material and PMI identification so as to meet production needs and ensure security of equipment and materials used in the process.

Cal Check Coupon



Standard calibration blocks provide a test standard for testing: Before the instrument work, test the standard block, using the standard data and test data to do the comparison, in order to determine whether the instrument is in the best condition.

Alloy #1055 14.43 1.2%			
304SS			
Elem	%	+/-	SPEC
Cr	18.669	0.06	[18.0-20.0]
Mn	0.877	0.06	[0.0-2.0]
Fe	70.594	0.16	[65.0-75.0]
Co	0.83	0.04	
Ni	7.985	0.11	[8.0-11.5]
Cu	0.801	0.07	[0.0-0.75]
Mo	0.244	0.0	[0.0-0.7]

Grade



Stainless Steel

Alloy #1056 14.5 0.10%			
6063 Al			
Elem	%	+/-	SPEC
LE	99.216	0.01	[99.0-100.0]
Mn	0.226	0.01	[0.0-0.1]
Fe	0.165	0.01	[0.0-0.35]
Ni	0.018	0.0	
Zn	0.324	0.0	[0.0-0.1]
Sn	0.024	0.0	
Sb	0.027	0.0	

Grade



Aluminium

Alloy #1057 14.21 10%			
Elem	%	+/-	
Mn	0.953	0.03	
Fe	0.332	0.01	
Zn	1.929	0.02	
Zr	0.105	0.01	
Sn	49.714	0.24	
Pb	0.078	0.03	
Bi	46.889	0.21	



Alloy
(Bismuth, Tin, Zinc)

Model	Nanoris- SI PIN	Nanoris- SDD Detector
Detector	Si-PIN detector for Nanoris PIN	SDD detector for Nanoris SDD
Measuring Range	Mg to U	Tl to U
Excitation source	50KV/200mA maximum pipe flow can be adjusted freely, Ag target (standard), Au, W, Rh target (optional).	
Detection Range	All elements between Mg and U. (Almost all elements related to precious metals.)	
Display	4.3" Industrial Resistive touch screen. Superb operating system software with sound waves. Automatically adjusts display brightness according to the environment brightness.	
Data Processing	32 GB memory. USB, Bluetooth, WIFI or linked to the Internet Data can be exported via EXCEL or PDF. User can customize the reports by adding their company logos, address, test results, spectrum, spectrum and others (such as product description, origin and batch number).	
Heat	Equipped with a dedicated T-shape radiator to dissolution the heat, no need to wait for cooling of detector once again.	
Safety	Built-in double beam technology can automatically sense whether there is a sample at the measurement window to avoid any damage. Provided with standard Waterproof, dust-proof and shockproof suitcase & Safety Band for safely use of machine.	
Testing Object	Solid, Liquid, Powder	
Operational Environment	Humidity \leq 90% ; Temperature: -20°C ~+ 50°C	
Power Supply	Intelligent battery management through MSBUS bus, real-time monitoring of the residual capacity of battery and backup battery. The battery complies with air transport regulations of dangerous goods. A single battery can last 8 hours.	
Dimensions	254 x 79 x 280 mm (L x W x H)	
Weight	1.6 kg (with battery).	