



**ARUN**  
TECHNOLOGY

# CALIBUS

CMOS-BASED LIBS ANALYSER  
MEASURING CARBON IN FERROUS

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INNOVATIVE SPECTROMETERS  
FOR ELEMENTAL ANALYSIS

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# THE FIRST & ONLY CMOS-BASED CARBON ANALYSER

The **CALIBUS** is ARUN Technology's cutting edge Laser-Induced Breakdown spectrometer (LIBS). It is **the first and only CMOS-based LIBS analyser** in the market to measure carbon in ferrous.

The **CALIBUS** is an ideal analytical solution for QA/QC, metallurgical manufacturing and machining, petrochemical industries, mining, scrap metal and recycling.



**METALLURGICAL  
MACHINING**



**METALLURGICAL  
MANUFACTURING**



**SCRAP METAL AND  
RECYCLING**

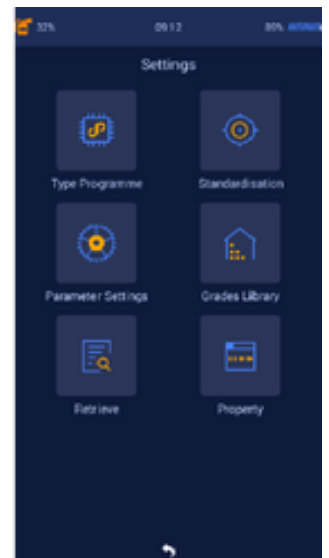
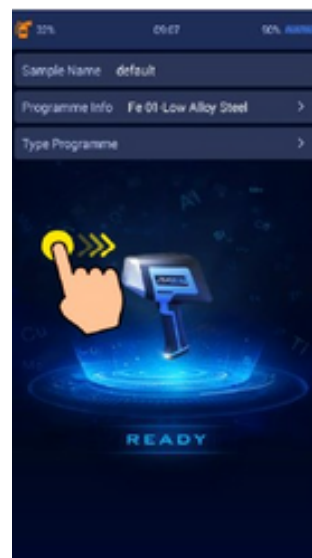


**PETROCHEMICAL INDUSTRY**



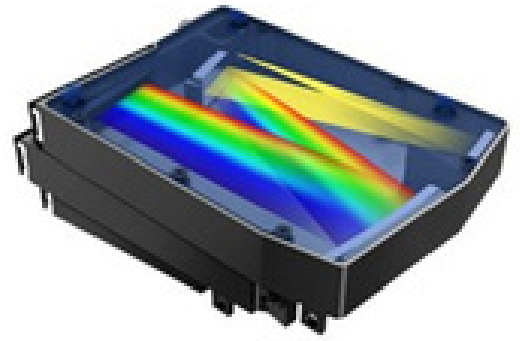
**MINING**

The CALIBUS has a wide spectrum range of 190nm—800nm. This range can detect more than 20 elements including C, Li, Be, B, Na, Mg, and Si. The detection speed is fast! Analytical results can be shown in 1 second and efficiency is 10-30 times improved in comparison to other available conventional portable OES spectrometers in the market. Because of the integrated CMOS technology, the LIBS is able to provide higher precision test results.



# THREE LIGHTROOM DESIGN

Better resolution is achieved by three optical cells, one is specific for detecting Carbon. This feature enables to achieve greater number of elements to be detected.



## EYE SAFETY

Its portability and weight of approximately 2kg makes it easy to use in any situation or environment.

Laser safety eyewear is recommended. Appropriate eyewear for use with the CALIBUS must be rated with an optical density of 5 or greater.



## AMAZING EFFICIENCY

The argon purge technology reduces background noise and improves analysis results.

One argon canister can perform up to 100 excitations. The portable argon bottle is provided with the CALIBUS instrument. It is used for topping up the argon canister (up to 5 times). This means 500 tests can be continuously performed on site.



## INTERACTIVE INTERFACING

The smart phone and tablet interactive interface makes the CALIBUS more convenient to use. It has a 5-inch colour, high resolution touch screen that is protected with a super impact-resistant glass material.

The screen has an adjustable daylight display function so that the results can be clearly viewed in any indoor and outdoor environment.



**LIBS  
to Android  
Device**



# TECHNICAL SPECIFICATIONS

Number of Models	2
Laser Source	Solid State Pulse laser Laser Frequency: 50Hz Laser Wavelength: 1064nm
Wavelength Range	90 –800nm
Number of Optical Cells	3
Sensor	CMOS
Operating Temperature	0°C to 40°C
Operating Humidity	20% - 95%
Weight	Approximately 2kg
Dimensions	92mm x 295mm x 245mm
Operating System	Android
Argon System	Flush
Analysis Time	1 Second
Anti-Combustion	Positive pressure combustion-proof
Certification/Compliance	IP56 (Waterproof and Dustproof)
Display Screen	5" colour touch screen
IEC	IEC61000-4-2 IEC61000-4-3, IEC61000-4-4, IEC61000-4-5IEC61000-4-11
Element Analysis Capabilities	C, Si, Mn, Cr, Ni, Mo, Cu, V, Ti, Al, Be, B, Li, Na, Pb, Sn, Fe, Cu, Mg, Zn, Co and more!
Battery	A single battery operates 6-10 hours depending on the environmental temperature. Two rechargeable lithium batteries are included.





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Certificate Number 1122  
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