



ANALYTICAL INSTRUMENTS GROUP

ESAPORT

PORTABLE OPTICAL EMISSION SPECTROMETER



www.gnr.it

E3 EsaPort

Portable Optical Emission Spectrometer

Ultra Compact size, Outstanding Analytical Results

E3 Esaport portable optical emission spectrometer for on-site analysis, equipped with arc and/or spark excitation source is the suitable instrument for several application fields: metal sorting, Positive Material Identification (PMI) and incoming control.

E3 Esaport is small sized and can be easily carried and moved anywhere, from production department to warehouse thanks to a handy trolley (supplied as option).

The instrument is extremely functional and allows rapid identification of all metal alloys and detection of elements such as C, Al, Si and Mg.

The Esaport series is supplied with an optional 400 Wh battery pack specifically designed for on-site job with a working autonomy of approximately two hours of analysis.

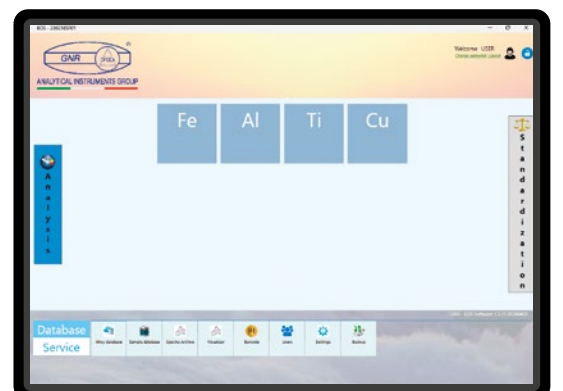
Esaport Series is equipped with EOS® Software that makes analysis quicker and more accurate with a state-of-the-art and intuitive user interface designed to meet the needs of metallurgical users with different level of expertise.



Technical Specifications

E3 Esa Port

Applications	Fe, Al, Cu, Ni, Ti, Basis
Detector	CMOS
Alloy Database	i.e. UNI, ASTM, DIN
SW	EOS® GNR proprietary SW
Wavelength Range	190 - 410 nm
Power Supply	110/220V +/- 10%, single phase, 50/60
Probe	Lightweight pistol body(Aluminium /Teflon)
Width x Depth x Height	510 x 290 x 600 mm
Weight	23 Kg c.a (Trolley and battery pack excluded)
Personal Computer	Embedded INTEL NUC. Monitor Touch Screen 249 x 170 x 37 mm
Trolley (optional)	Width 650 x Depth 1100 x Height 1200 mm - Weight: 60 Kgs



Ultra Compact size, Outstanding Analytical Results

E4 EsaPort Plus is the newest mobile Spark Emission Spectrometer designed by GNR Analytical Instruments to celebrate its 35th year of operations.

Nowadays EsaPort Plus instruments are ones of the smallest and lightest mobile optical emission spectrometers available on the market with outstanding analytical results in this category.

E4 EsaPort Plus Spark Emission Spectrometer combines easiness of use, low maintenance cost, affordable price with the most advanced technological optical and electronic components. It is an optic multi-channels spectrometer suitable for the analysis of solid metallic samples and alloys in multi-matrices.

E4 EsaPort Plus with its extended analytical range from 178 up to 460 nm can cover almost all the analytical requirements of a modern foundry, but not only.

It is a Multi Matrix spectrometer for Ferrous and Non-Ferrous alloys (with Phosphorous and Sulphur).



Technical Specifications

E4 EsaPort Plus

Applications	Fe, Al, Cu, Ni, Ti, Basis
Detector	CMOS
Alloy Database	i.e. UNI, ASTM, DIN
SW	EOS® GNR proprietary SW
Wavelength Range	178 - 460 nm
Power Supply	110/220V +/- 10%, single phase, 50/60
Probe	Innovative Argon purged probe (approx. 3 kgs)
Width x Depth x Height	250 x 435 x 230 mm
Weight	15 Kg c.a. (body), 3 kg (probe)
Personal Computer	Embedded INTEL NUC. Monitor Touch Screen 249 x 170 x 37 mm
Trolley (optional)	Width 650 x Depth 1100 x Height 1200 mm - Weight: 60 Kgs



About us

GNR, thanks to its 40 years of experience, is a worldwide market manufacturer of advanced analytical instruments, developing procedures of analysis for various applications, supplying the corresponding laboratory equipment and providing consulting and Customer support worldwide, through its well established sales and post-sale network.

GNR projects and manufactures Optical Emission Spectrometers (OES) and Rotating Disc Electrode Optical Emission Spectrometers (RDE-OES) for the measurement of elemental composition of metal alloys and the analysis of contaminants, additives and wear metals in oils and lubricants, coolants and hydraulic fluids.

GNR designs and produces X-Ray Diffractometers (XRD) and X-Ray Fluorescence Spectrometers (XRF) for the study of material structure and elemental composition for both academic and industrial applications.



Certified Company

Highest quality in our products and services is a core value for GNR.

Full commitment is dedicated to support our quality system in the overall process and continuous improvement is fundamental to guarantee GNR compliance to the internationally accepted quality management standard ISO 9001:2015

In relation to the process of continuous development, GNR reserves the right to change specifications of the instruments without previous notice at any time; the real ones will always be those shown in the final order confirmation.



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