

Research, Development and Innovation Capabilities





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www.ioner.eu



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- ✓ **RAMEM** is a Spanish **SME intensive in R&D** for 10 years.
- ✓ **IONER** is **RAMEM's brand** for Aerosol and Nanoparticle products.
- RAMEM develops own technology for Nanoparticle research and Aerosol Science.
- RAMEM is project partner of 4 different FP7 programs, 1 Eurostars program and several Spanish National and Regional programs.
- RAMEM has engineering and production capabilities for mechanical design and control electronics.



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- High Resolution Differential Mobility Analyzer: HRDMA: Information about size and chemical composition of NanoParticles
- ✓ Parallel plate technology for **minimizing losses**.
- Detection of chemical species and analysis of ultra-small nanoparticles, smaller than 1nm. Size range:0,5 to 7nm.
- ✓ High sensitivity and resolution. **Resolution of 50**. **Transmission of 35%**
- ✓ Pre-industrial prototype
- ✓ Chargers or Ion sources
 - ElectroSpray (ESI)
 - Corona Discharge (CD)
 - UV light for organics
- Detectors

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- Aerosol Electrometer
- Ultralow current electrometers (fA)





- RAMEM is willing to work in Prototyping and short series production: Bring Research into market.
- RAMEM expertise includes electronic design and manufacturing of the electronics to control prototypes. Control Hardware and Software development.



Small Angle X-Ray Scattering. European Synchrotron Radiation Facility (BM-16) Grenoble





Quadrupole Movers with submicron repeatability for European XFEL

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- FP7: Lotus project: Localization of Threat Substances in Urban Society: <u>http://www.foi.se/en/Customer--Partners/Projects/LOTUS1/LOTUS/</u>
- FP7: Buonapart-E: Better Upscaling and Optimization of Nanoparticle and Nanostructure Production by Means of Electrical Discharges: http://www.buonapart-e.eu/
- Eurostars: GANS: Gas Aerosol Nucleation Spectrometer: <u>http://www.gans-project.eu/</u>
- FP7: NanoDefine: Development of an integrated approach based on validated and standardized methods to support the implementation of the EC recommendation for a definition of nanomaterial. <u>http://www.nanodefine.eu/</u>
- FP7: GIFT: Generic Integrated Forensic Toolbox for CBRN incidents

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Thank you

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