

Regulus field emission SEM family

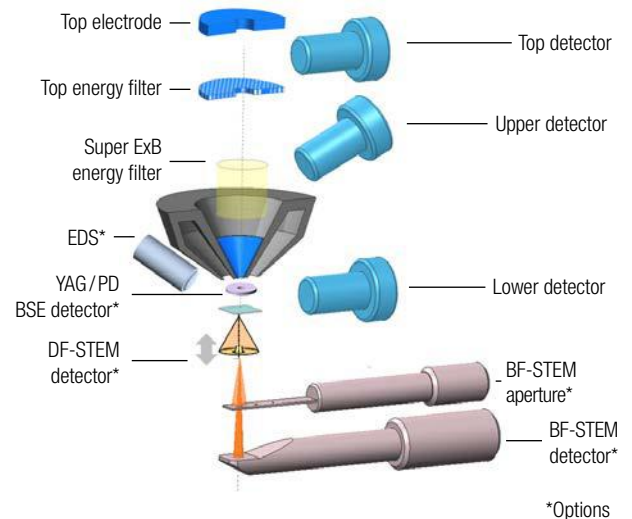
The SEM for ultra-high-resolution imaging and analysis

The **Regulus** field emission SEM product family meets the highest standards in terms of imaging oriented applications when superior resolution plus flexible signal separation and energy filtering are still required even with the lowest beam energies.

The advanced stable cold field emission source provides high resolution and a continuously adjustable probe current up to 20 nA without a monochromator limiting the probe current.

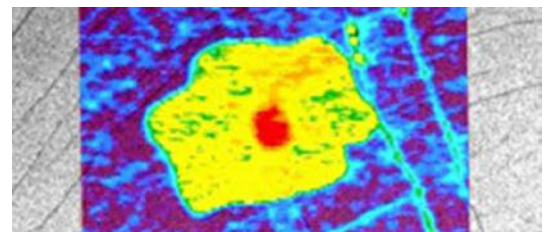
In combination with special analytical accessories such as the windowless Oxford Extreme EDX system for light element analysis, for example, which can be used with Regulus because of the magnetic immersion lens in the entire beam energy range up to 30 kV and at very short working distances from 4 mm, or the Bruker FlatQuad EDX detector with over 1 sr solid angle for maximum signal efficiency, the Regulus FE-SEMs also ensure an outstanding performance in the area of analysis.

Members of the Regulus family: SU8100 as the basic model, SU8220 and SU8230 as high-performance instruments, SU8240 specially for applications requiring exact stage navigation, such as semi-conductor investigations or array tomography.

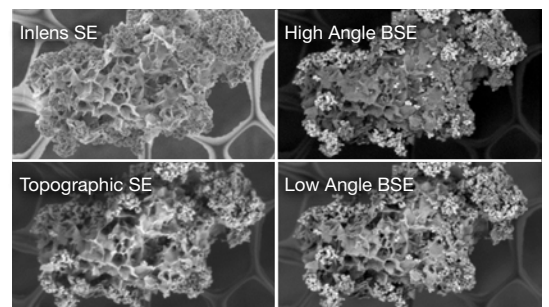


Functional features

- Cold field emitter, 10 years working life
- Immersion lens with dual energy-filtered in-lens detection system
- Up to 4 signals can be displayed in parallel
- Can be flexibly expanded as required
- Specimen exchange chamber as standard for best vacuum
- Provides optimum support for special EDX analysis
- Free macro programming in Python with EM-Macro



Correlation: e.g. SEM und AFM
Graphene on SiC



FeNi-ZrO₂ catalyst 1.2 kV