

All-in-one imaging solution for CLEM

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Correlative microscopy is an umbrella term for combining instrumentation of light and electron microscopy for deeper insights in various research fields. The Delphi is an all-in-one solution for correlative light and electron microscopy (CLEM). It is an integrated desktop scanning electron microscope (SEM) including an inverted widefield fluorescence microscope. This integration enables scientists to do correlative microscopy without the challenges typically associated with CLEM:

- The Region of Interest (ROI) does not need to be retrieved, as working with the Delphi offers staying in the same ROI switching from LM to EM and vice versa.
- The sample does not need to be transferred from one microscope to the other, saving sample quality as well as time.
- Correlation accuracy is fully automated and highly precise.

The Delphi is the world's first fully integrated CLEM solution that enables fast correlative microscopy with unique overlay precision. This aims for a huge field of applications, as up to four fluorescent colors can be observed and put into context with electron microscopy images. In life science research whole cells, thin cells or tissue sections may be observed, and applications are diverse, including hematology and food science.

As the system is extremely easy to use for both light- and electron-microscopy, even inexperienced users are easily able to operate the system. Due to the automated overlay they can acquire and interpret data quickly. This approach also simplifies sample preparation as there is no need for adding fiducial markers to the sample.