

Direct Electron, LP

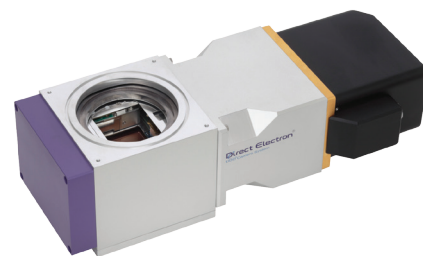
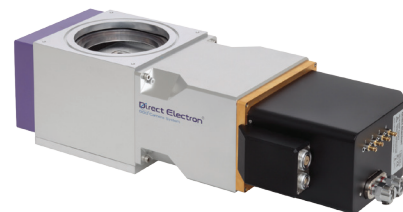
Direct Electron designs, manufactures, and delivers next-generation direct detection cameras for electron microscopy. We empower our customers to continually expand the frontiers of science. Our approach involves: (1) A strong commitment to research and development that enables us to continually offer new technological innovations, (2) Unique features to improve efficiency in data collection and processing, and (3) A collaborative culture with exceptional customer service and support.

In 2021 Direct Electron introduces two incredible new cameras, each designed to set the standard in their class: Apollo—the fastest cryoEM camera. Celeritas—the fastest 4D STEM camera.

- **Apollo** — With revolutionary NEW event-based direct detection technology, Apollo is the fastest cryoEM camera available, delivering 8k x 8k super-resolution images with unsurpassed speed, ease-of-use, and image quality, while also reducing overall cost!
- **Celeritas** — This NEW ultra-fast direct detector is the largest and fastest pixelated 4D STEM camera, for the first time delivering 4D STEM data at similar speeds as conventional HAADF detectors. With advanced features like on-chip CDS and global shutter, your data quality will be better than ever.
- **DE-Series** — The established hallmark for multi-purpose direct detection cameras, the DE-Series is the proven choice for a wide variety of TEM applications, from 8k x 8k cryo-EM with the DE-64, to high-speed in situ TEM with the DE-16, to budget-conscious labs with the DE-DirectView.
- **DE-FreeScan** — A NEW scan generator for scanning transmission electron microscopy (STEM) that enables arbitrary scan patterns, subsampling, compressive sensing, and 4D-STEM. The DE-FreeScan can be operated for conventional BF/DF STEM using up to four analog inputs, or it can be run together with our Celeritas or DE-16 for synchronized high-speed 4D-STEM.

Since our founding in 2007, Direct Electron has been driven by collaboration. Our leadership team consists entirely of Ph.D. scientists who love to work together with fellow scientists to address challenges and develop new technology and methods. Please contact us if you have any opportunities for collaboration related to any kind of electron microscopy.

Direct Electron
INNOVATION PROPELLING DISCOVERY



How to find us

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