



FIRST Newsletter

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Good Things Come in Small(er) Packages

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Meet the [EIGER2 R 250K](#) detector, the newest addition to Bruker's detector family for X-ray diffraction.

Developed by DECTRIS, the technology leader for Hybrid Photon Counting (HPC) detectors, the EIGER2 R 250K boasts a large square sensor, over 250,000 pixels, and incorporates the latest technological enhancements of the EIGER2 R family, like the doubled dynamic range and the expanded energy and threshold range.

At Bruker, we integrated the EIGER2 R seamlessly into our DIFFRAC.SUITE software, and designed a detector mount and dedicated beam-path accessories. D8 ADVANCE and D8 DISCOVER diffractometers with the EIGER2 R detector enable fast and reliable optimization of the instrument geometry and efficient data collection for many XRD applications.

The EIGER2 R 500K has been the premiere XRD detector solution since 2017. So why are we now offering a smaller version – the EIGER2 R 250K? Users across academia and industry appreciate the intuitive operation and excellent results they get with our D8 diffraction solutions equipped with EIGER2 R 500K detector. In talking with those users, we found that many applications do not require the panoramic sensor size of the 500K. With the EIGER2 R 250K, we are now offering the same perfect pixel size, near limitless dynamic range and solution level integration, just in a smaller size.

What benefits does the EIGER2 offer me as a user?

Watch our [launch video](#) introducing the EIGER2 R 250K for D8 diffractometers and learn from our application scientists why they like the EIGER2 R for thin film analysis and powder diffraction applications.

Where can I find more hard facts?

Take a look at the [technical specifications](#) and [product flyer](#) of the EIGER2 R detectors right here!

How can I learn more?

Join us for our live Q&A virtual event on **March 23rd, 10:00 AM CDT (Chicago) / 4:00 PM CET (Berlin)**, where you can ask us everything you want to know about the EIGER2 R 250K and 500K on our D8 diffractometers. [Sign up now](#), and send us your questions in advance, if you like. If you cannot attend, we will send you a link to the recording to watch at your convenience.

Can I get refresher training on 0D, 1D and 2D detectors?

Yes! Watch our **Live from the Lab** [March 12th episode](#) to learn what 0, 1, and 2 dimensional modes mean and see the EIGER2 R detector in action.