X-ray crystallography requires detectors that offer high sensitivity, a wide dynamic range, and most critically, low noise to ensure accurate measurement of raw diffraction intensities. Agilent’s new S2 series of X-ray diffraction detectors automatically optimize their sensitivity for every sample you investigate.

**Smart Sensitivity Control for better data quality**

The Eos S2 (Ø 92 mm), Atlas S2 (Ø 135 mm), and Titan S2 (Ø 165 mm) CCD detectors employ groundbreaking Smart Sensitivity Control, which tunes detector gain to match the strength of the data observed. Similar to ISO settings in digital photography, this selects the widest dynamic range or the highest sensitivity, as needed, to maximize your data quality.

**Unique to Agilent X-ray detectors**

Smart Sensitivity Control ensures optimal signal-to-noise for the strongest data, the weakest data, and everything in between. Combined with up to 2x faster readout times and flexible pixel sizes achieved using instant-switching hardware binning modes, the S2 range redefines expectations for X-ray diffraction detector performance.

Available to demo now!

Agilent S2 CCD Detectors are available as part of a new system, as an upgrade to an existing Agilent single-crystal diffractometer, or for installation on synchrotron beamlines.

Learn more about S2 CCD technology at:
www.agilent.com/chem/S2CCD
An Intelligent Measurement System

Combining automated pixel binning mode selection with SSC results in a highly flexible, Intelligent Measurement System with numerous operable modes. Novice and expert users can achieve high-quality results with minimal effort, with less time spent deciding how to measure data and more time for focusing on the data itself. Full manual control of detector settings is also provided for those who need it.

Standard Mode

High Mode

Using Smart Sensitivity Control (SSC) in high mode for extremely weak data enables the weakest reflections to be observed in like-for-like experiments.

Learn how to apply Agilent S2 CCD detectors and Smart Sensitivity Control to your research at www.agilent.com/chem/S2CCD.