

## **Ultrafast X-ray Imagers**

The Ultrafast X-ray Imager (UXI) program at Sandia National Laboratories was initiated to develop, nanosecond time scale, time-gated, multi-frame imagers for High Energy Density (HED) physics experiments. A design history of cameras developed at SNL, successes and difficulties encountered along the way, and a roadmap for future designs will be highlighted. Trade space for nanosecond imaging Read-out Integrated Circuit (ROIC) design will also be discussed.

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The Ultrafast X-ray Imager (UXI) program at Sandia National Laboratories (SNL) develops nanosecond time-gated, multi-frame imagers for High Energy Density (HED) physics experiments. I will discuss the trade space for nanosecond imager design, the design history of cameras developed at SNL, successes and difficulties encountered along the way, and a roadmap for future designs.