Focal Plane Arrays (FPA) for Treaty Monitoring

**Mission Impact**
July 2012 – Sandia’s FPA concept was adapted by the next-generation space-based U.S. Nuclear Detonation Detection (NUDET) system.

**Research**
Hyper-Temporal Sensor (HTS) Grand Challenge LDRD, FY06-09
Mission need for higher resolution and sensitivity FPA architectures

**Development**
HTS FPA Prototype (HTSP3) to be used in a Pathfinder System
Implementation of HTS-developed photodiode hybridization
UXI – Ultra Fast X-ray Imager

**Mission Impact**

FPAs are a key component in satellite-based, airborne, and ground-based systems.

**Research**
Photodiode Hybridization
Developed under HTS Grand Challenge

**Development**
General Atomics feasibility testing of Griffin camera – Back-end camera for a pulse-dilation imager.

**Mission Impact**

Highly Producible FPA, Low-Power Cryogenic Optical Data Link also originated from LDRD

**Research**

**Development**

**Mission Impact**

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**Research**

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