a kromek company

NOVA

detect image identify

HILDA™ PIXEL DETECTORS

Nova R & D Inc. 833 Marlborough Avenue, Suite 200
Riverside, CA 92507-2133, USA
Phone: (951) 781-7332 Fax: (951) 781-4858
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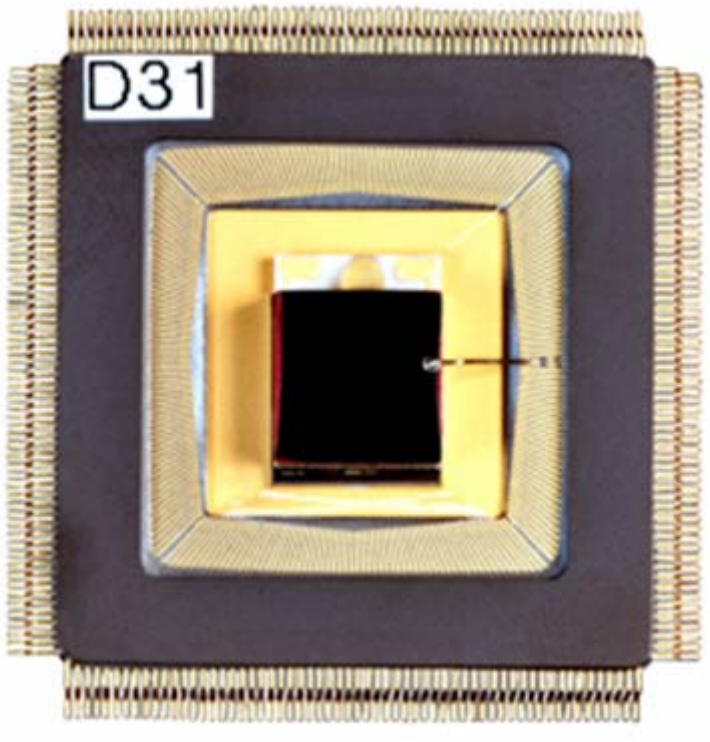
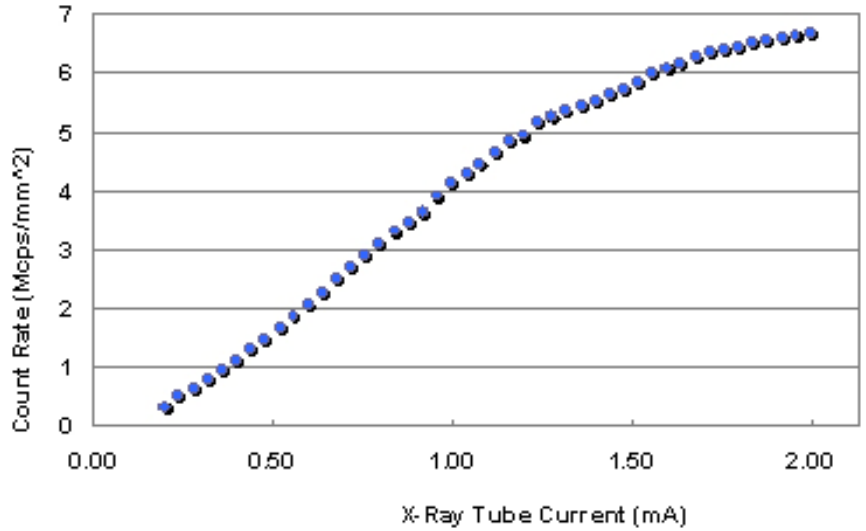


HILDA™

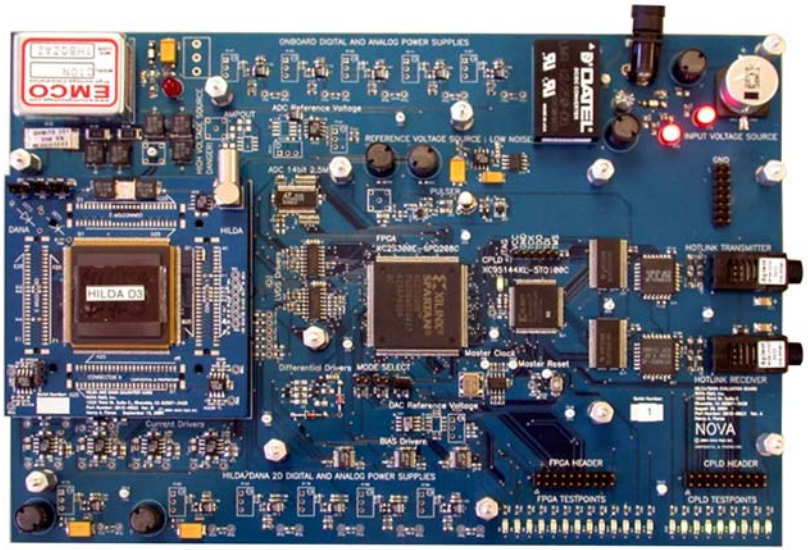
2D array digital and multispectral imaging

HILDA is a solid state pixel readout ASIC with a 16 x 16 array of 500 µm x 500 µm pixels with 8 energy bins per channel. HILDA is suitable for high resolution, high dynamic range industrial or medical x-ray imaging. High contrast can be achieved through photon counting materials information can be extracted through the use of multiple energy bins.



HILDA Development Kit

Includes mother board, daughter board, ASIC and high-speed I/O interface, firmware and software. Other options available. Call for quote.



NOVA R & D Inc. HILDA Evaluation System

Features:

- 2 × 10^6 counts/second per channel count rate capability
- 200 keV and 600 keV input energy ranges
- 16 bit counter dynamic range
- Comparator thresholds, gains and offsets are digitally adjustable
- Externally adjustable, 100 ns to 2 µs pulse decay time
- User-controlled test signal input and analog monitor output for testing purposes
- Input loading capacitance optimized for 0.5 pF
- Frame readout (all counters stop, longer dead time)
- Raster readout (only the counters in the channel being read stop, shorter dead time)
- Readout can be limited to fewer than eight counters per channel and to any (contiguous) range of channels, to reduce dead time
- All I/O pads located on one side to simplify tiling
- 1 W nominal power consumption