

CUSTOM PHOTONICS • SOFT X-RAY → LMIR

Engineered to your spec. Built in-house. Delivered as a single source.

Custom detectors, photodiodes, IR emitters, and LEDs — controlling wafer fabrication, high-reliability assembly, and qualification testing under one U.S. roof, built to your exact interface and performance specs.

WAVELENGTH COVERAGE

SOFT X-RAY → LMIR



Design & Engineering

In-house design from concept through qualified production — prototyping to high volume

Custom packages, optoelectronic assemblies & photonic modules built to your interface specs

On-site silicon wafer fabrication for precision, control, and rapid prototyping

Manufacturing

Class 1,000–10,000 cleanrooms (ISO 6–7), designed & built in Camarillo, California

Dedicated high-reliability (Hi-Rel) assembly area

Fab, assembly & test under one roof — no outsourced supply chain

Quality & Compliance

MIL-PRF-19500 screening, JANTX through JANS classes

ITAR-compliant • AS9100-capable • ISO 9001:2015 registered

Full lot traceability to bond wires, epoxies & adhesives

CMC certified

PRODUCT FAMILIES

Photodiodes

Silicon, low dark current — UV to NIR

LEDs

Hermetic visible & near-IR illuminators

IR Detectors

PbS / PbSe, TEC-cooled — 1–5 μm

UV / EUV & Radiation

AXUV / SXUV photon & electron detectors

IR Emitters

DC & pulsable blackbody sources

Custom Assemblies

Photonic modules, hybrids & sub-systems

WHAT SETS US APART

- ✓ Purpose-built solutions engineered to your exact interface & performance spec — never off-the-shelf
- ✓ In-house U.S. wafer fab and Hi-Rel assembly under one roof — a single, accountable source
- ✓ MIL-PRF-19500 screening, JANTX through JANS classes • ITAR-compliant
- ✓ Full lot traceability • ISO 9001:2015 • responsive, on-time lead times

MARKETS SERVED

Semiconductor

Aerospace & Defense

Medical Diagnostics

Industrial

Fire, Flame, Gas & Environmental

Food Analysis

RESPONSIVITY

250–1100 nm

13.5 nm on request

INSPECTION

0.001" (25 μm)

metrology precision

LEAD TIME

Prototype samples typically in **4–6 weeks**

40+

YEARS IN PHOTONICS

ISO 9001

2015 REGISTERED

ITAR

COMPLIANT

MIL-PRF-19500

JANTX – JANS

AS9100

CAPABLE

Custom

ENGINEERED TO SPEC