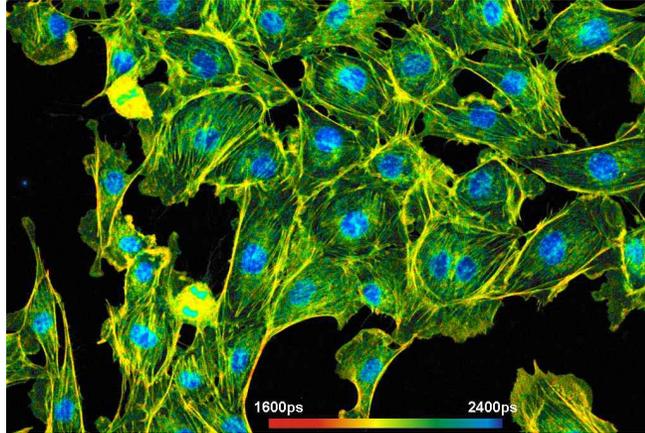




Detect • Measure • Control

Solutions from UV to THz

Feb. 2026



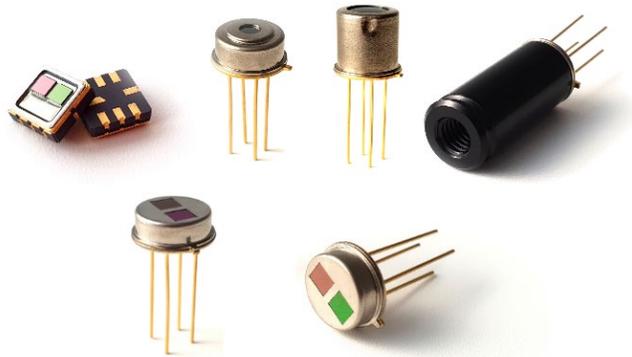
Photon Counting Solutions

Time-Correlated Single Photon Counting (TCSPC)

- FLIM, PLIM
- Picosecond electronics and lasers
- Photon counting detectors
- Powerful SPC Image software
- Integration solutions to all major microscopes

DIAL LIDAR

- Optical transient recorders
- 32 channel photon counter
- Photon counting PMTs
- Silicon APD modules
- System accessories



Fast, Sensitive Infrared (IR) Detectors

Room Temp, TE Cooled and Cryo

- Bandwidths up to >20 GHz
- Sensor modules with preamplifiers
- Integrated electronics
- IDCA – integrated dewar cooler assemblies
- OEM solutions

Quantum Cascade Lasers (QCLs)

Tunable Lasers – Room Temp and TE Cooled

- Pulsed or CW 4-14 μm
- DFBs, FPs – high power
- Widely tunable extended cavity systems
- HHL, LLH, TO, surmount and system packaging



Thermal Imaging Arrays

Low Cost, High Volume IoT Solutions

- Uncooled thermopile arrays
- Formats from 8x8 to 120x84
- Digital I2C or SPI output
- Integral lens options
- Quick start application kits

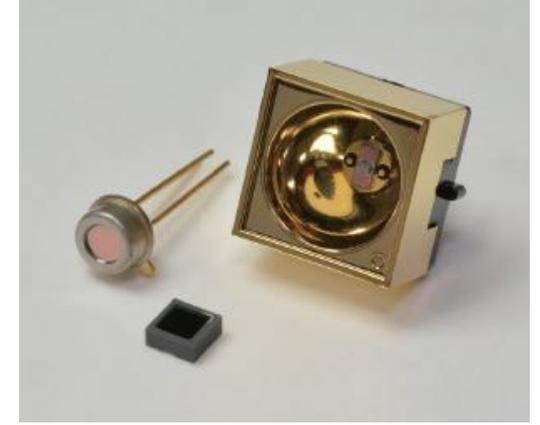
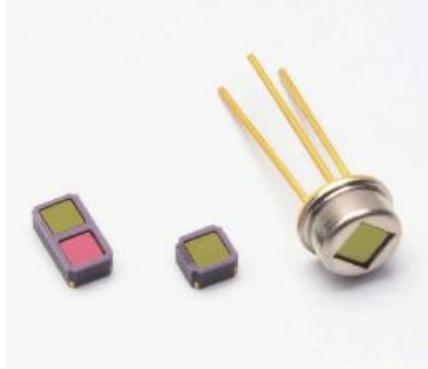


High Performance IRFPA Cameras

HD and large format IRFPA – SWIR, MWIR, LWIR

- High resolution HD
- 25 mK NETD
- Long life cryo coolers
- Low f/no optics
- Camera Link





Gas and Temperature IR Detectors

Thermopiles and InAsSb

- NDIR gas detection
- Integral optics
- Filter for specific gases
- Single or multi-channel
- Electronics options

IR Emitters, IR LEDs, & Calibrated Blackbodies

Steady State and Pulsed Sources and LEDs

- Broadband Emitters
- Wavelength specific LEDs
- High power
- Parabolic optics for collimation
- Calibrated cavity and extended source blackbodies



UV Detectors and Sensors - SiC

High reliability, high dose SiC

- Deep UV to visible
- Amplified sensors (TOCONs)
- Compact TO packages
- UV radiometers
- Certified calibration laboratory



UV Light Emitting Diodes – UV LEDs

High power, low cost

- UV A, B & C LEDs – 255 to 405nm
- Standard SMD packaging
- Chip on Board (COB) modules
- Light bars and arrays
- integrated thermal and optical solutions





THz and sub-THz Sources

Sources

- Multi-band, selectable
- 2 – 5 THz
- Milliwatt average power
- Modular and programmable



THz 3D Scanning System

Affordable testing for research and QA

- FMCW transceiver – 120/240/300 GHz
- Beam shaping optics
- Automated 3D scanning stage
- Software for Imaging, acquisition and control





THz Imaging and Detection

Cameras

- 388 x 244 uncooled
- 4 to 0.1 THz (70-3200 μm)
- Fast optics $f/\text{no} < 1.0$
- Security, NDT and science applications



THz Imaging and Detection

Detectors and Imaging

- Pyro sensor 0.1 – 30 THz
- THz power measurement
- TeraEyes – full field, real time imaging
- High sensitivity, low NEP
- Interchangeable optics





Calibrated Infrared Blackbody Systems

Cavity and Extended Sources

- Up to 1200 C
- Precision PID controller
- 0.1 C temperature resolution
- 0.25 to 2.25 diameter cavities
- 2x2 to 12x12 inch extended sources



Artificial Solar Illumination

Lamps reproduce sunlight indoors

- Accurate spectral profile
- Interchangeable filters

Our Products



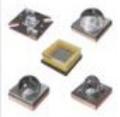
UV DETECTORS, SENSORS, AND PROBES

UV dose hard SiC photodiodes, amplified sensors, probes and amplifiers for purification, disinfection, and curing.



UV RADIOMETERS

UV, and UVI measurements for workplace safety, process control, experimentation, and solar studies.



UV LIGHT EMITTING DIODES (UV LEDs)

High-power UVA, UVB, and UVC LED in SMD, chip-on-board and array packages. Thermal management solutions.



INFRARED IMAGING ARRAYS AND APPLICATION SETS

Thermopile IR imaging arrays are affordable high-volume IoT-ready devices with IR array, optics, and digital output all in one compact TO package.



IR DETECTORS AND MODULES

High-performance, high-speed IR detectors (TO and SMD) and modules (w/integrated preamplifiers). 1 - 14 μm .



THERMOPILE DETECTORS - TEMPERATURE MEASUREMENT AND GAS SENSING

Compact, low-cost, high-volume single, dual, or quad element sensors with optional signal conditioning and optics.



IR QUANTUM CASCADE LASERS (QCL)

Spectroscopy-grade IR QCLs in range of packages and external cavities. DFB, Frequency Combs, Fabry Perot.



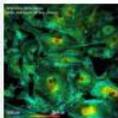
IR EMITTERS AND LEDs

Broad range of wideband IR emitters and spectrally specific LEDs in TO packages with optional optics.



HIGH PERFORMANCE HD INFRARED IMAGING CAMERAS

High performance, large format IRFPA imaging cameras and integrated dewar cooler assemblies (IDCA) - SWIR, MWIR and LWIR



PHOTON COUNTING COMPONENTS AND SYSTEMS (TCSPC/FLIM/LIDAR)

Time Correlated Single Photon Counting for FLIM, FRET, etc. DIAL LIDAR components for atmospheric studies.



TERAHERTZ (THZ) SOURCES, DETECTORS, AND IMAGERS

THz QCL sources, high-speed detection and THz imaging for security, NDT inspection and scientific applications.



INSTRUMENTATION

IR blackbody systems, IR laser beam profilers, power sensors, UV dose instruments, and solar simulation lamps.



VISIBLE HYBRID SENSORS

Unique amplified visible to UV sensors. Wide range of sensitivities and spectral coverage from 290 - 1010 nm.



VACUUM SENSORS - MEMS PIRANI SENSORS

Miniature vacuum sensors cover eight orders of magnitude millibar pressure measurement.



ARTIFICIAL SOLAR LIGHTING

The closest lights to sunlight. XELIOS lamps were the first sources to be developed to faithfully simulate natural sunlight.

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+

Filtering to find specific
products

+

Payment and shipping options