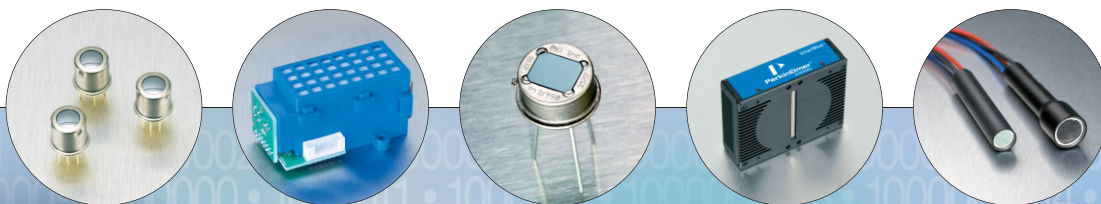


World Leader in Specialty Sensors

for a range of demanding markets and applications





Operational Excellence

PerkinElmer Optoelectronics offers a broad range of optical sensing and detection solutions that measure temperature, movement, light, distance, and gas – ideal for industrial, automotive, medical, analytical, and defense applications.

With QS and ISO certified development and manufacturing centers around the world, the company is able to leverage and align global resources to serve customers through innovation and operational excellence. With in-house sensor design and vertically integrated manufacturing including low-cost packaging centers, PerkinElmer sells more than 150 million optical sensors each year.

Market Leadership in Optical Sensor Design

PerkinElmer has over 35 years of experience in the design of avalanche photodiodes (APDs) and offers one of the most comprehensive APD portfolios in the market. The noise theory governing APDs was originally developed in our Montréal site and is still being referenced by other APD suppliers. We are the market leader in airport luggage scanning X-ray detectors, motion sensors, and remote temperature detectors. Close to 100% of U.S. street lights are switched on using PerkinElmer photocells.

Innovation

Recent innovations in PerkinElmer's sensor portfolio include:

- **TPMI[®] Thermopile Modules with integrated signal processing for temperature measurement applications.**
- **DigiPyro[™] family of digital pyroelectric infrared detectors for motion detection applications.**
- **Gas Sensor family, consisting of Serinus[™] CO₂ Sensor and Natural Gas Alarm Sensor.**
- **SmartBlue[™] cameras, cost effective high performance digital linescan cameras for industrial inspection applications.**



Broad range

of optical sensor solutions
from gamma to far infrared

• Thermopile Detectors

Remote temperature sensing for printers and copiers, ear or body thermometers, home and automotive climate control, and home appliances.

• Pyroelectric Infrared Detectors

Analog and digital pyroelectric infrared detectors for motion and presence detection, intrusion alarm, gas analysis and measurement, smoke detection, and non-contact infrared measurements.

• Photodiodes

Silicon and InGaAs PIN photo detectors for smoke detectors, barcode scanning, laser range finding, fiber-optic communications, spot position tracking and measurement, and ambient light measurement.

• Photodiode Arrays

Silicon-based photodiodes in linear array design with optional scintillators equipped for applications in X-ray detection for food, waste and luggage control systems.

• Avalanche Photodiodes

High performance photo detectors for laser range finding, LIDAR, fiber-optic communications, particle detection and sizing, and molecular imaging in medical applications.

• Photocells

Low cost light detectors for automatic headlight dimmers, night and street light control, and position sensing.

• Channel Photomultipliers

Ultra-high sensitivity optical detector for photon detection and counting, fluorescence and luminescence measurements, particle sizing, photon correlation, emission spectroscopy, and adaptive optics.

• Photon Counting Modules

APD-based Single Photon Counting Modules (SPCM) and CPM-based SPCMs for particle sizing, ultra-sensitive fluorescence, photon-correlation spectroscopy, LIDAR, optical range finding, and adaptive optics.

• Infrared Emitting Diodes

Solid state Light Emitting Diodes (LEDs) for non-contact position and object sensing, smoke detection, surveillance system illuminator, safety shields, remote controllers, and camera shutter controls.

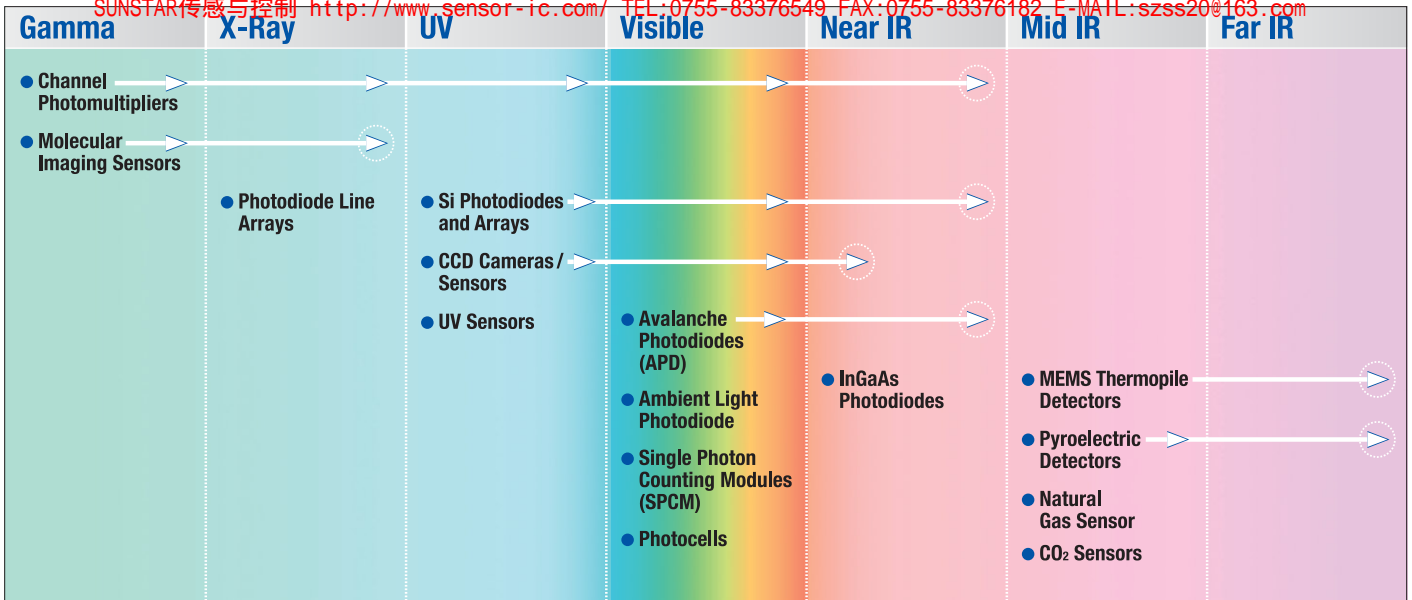
• Infrared Laser Diodes

Pulsed Multiple EPI Cavity Lasers and high energy laser diodes for laser range finding, LIDAR, high speed switching, laser scanning, fiber optic instrumentation, and YAG laser simulation.

• CCD Cameras and Sensors

Cost-effective high performance digital linescan cameras for high speed inspection, postal / parcel sorting, web inspection, surface inspection, OCR / barcode reading; cooled CCD sensors for spectroscopy, fluorescence microscopy, luminescence, and protein quantification.





Your Partner of Choice

PerkinElmer Optoelectronics offers a unique combination of optical sensors and technical expertise, high-volume manufacturing capabilities and localized support worldwide. We partner with our customers and have a solid understanding of your application needs to provide you with the best possible solution, in an efficient and cost competitive way.

Please contact us to learn more about how PerkinElmer can help you with your most demanding sensor applications.

Trusted partner
for innovative
sensor solutions



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