

GAS & TEMPERATURE DETECTION SENSORS – INFRARED (IR)

NON-CRYOGENIC DETECTORS

- Room Temperature & TE-Cooled
- Nanoseconds time constants
- Discrete & integrated amplifiers
- TE cooler controllers



GAS & TEMPERATURE DETECTORS

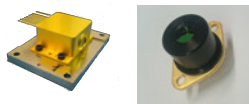
- Gas detection and temperature measurement
- Optics, filter and electronics options
- Compact packaging



TUNABLE INFRARED (IR) LASERS & IR SOURCES

TUNABLE IR LASERS

- Quantum Cascade Lasers (QCL)
- Room temp, pulsed or CW
- DFBs, FPs, ECs
- Tunable up to 10% of center λ



IR SOURCES

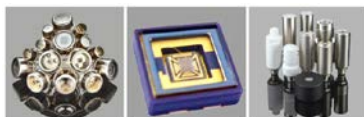
- CW and modulated miniature thermal sources
- Calibration grade blackbodies
- IR LEDs from 1.9 to 7 μm



ULTRAVIOLET (UV) DETECTORS & LEDs

UV DETECTORS

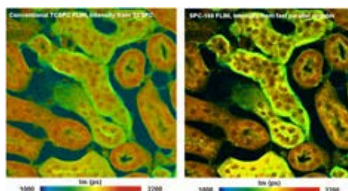
- SiC 210 to 380 nm
- Discrete, hybrids & probe configurations
- UV radiometers and controllers



DEEP UV-LED

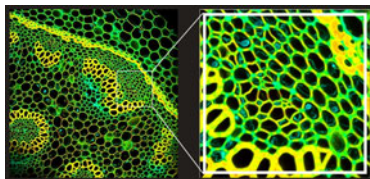
- SMD, TO49 and Arrays
- High output and reliability
- 265-340nm

TIME CORRELATED SINGLE PHOTON COUNTING (TCSPC)



TCSP

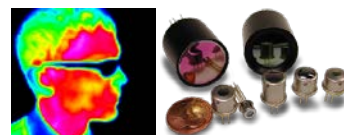
- Picosecond electronics and lasers
- Photon counting PMT and SPAD
- Confocal scanners
- Turnkey FLIM microscopes



THERMAL IMAGING ARRAYS

INFRARED ARRAYS

- Low cost solutions
- Formats from 8x8 to 82x62
- Compact packaging
- Integral lens options



LOCK-IN AMPLIFIER w/ CHOPPER

CHOPIN OPUS 1

- Lock-in Amplifier and Chopper for the price of a chopper alone
- USB powered
- Compact chopper disk



DIAL LIDAR COMPONENTS

LIDAR COMPONENTS

- PMT, Si and InGaAs APD receivers
- Transient recorders



Detect, Measure and Control

Specialists in photo detection including:

- Fast, sensitive MCT IR photodiodes and photoconductors
- Ultraviolet (UV) photodiodes, sensors & probes
- IR thermopiles and pyroelectrics
- Low cost IR focal plane arrays & sensors

Specialists in related photon sources including:

- UV-Visible-NIR picosecond pulsed lasers
- IR Quantum Cascade Lasers (QCL)
- IR thermal sources
- MW IR LEDs
- Ultraviolet (UV) LEDs
- Universal photon source (UPS) driver board and software

Signal processing electronics including:

- Preamplifiers for UV and IR detectors
- Event counters with picosecond time resolution for photon counting
- Transient recorders with mixed photon counting and analog capability - 10^5 dynamic range
- Lock-in amplifier/chopper - ChopIn Opus 1

In support of applications including:

- UV radiometry, dose control, disinfection, curing
- Time Correlated Single Photon Counting
 - Fluorescence Lifetime Imaging Microscopy
 - Single Molecule Detection
 - Phosphorescence Lifetime Imaging
 - Fluorescence Correlation Spectroscopy
- Quantum optics
- Gas Concentration detection and measurement
- Non-contact temperature measurement
- Low Cost Thermal Imaging

Our Partners:



Becker & Hickl

