



NEW!

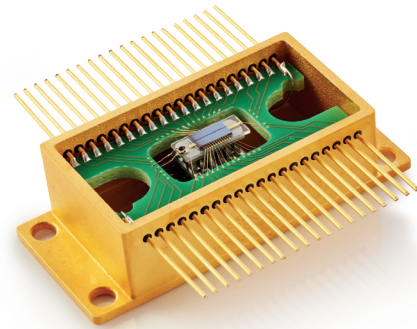


MWIR and LWIR HgCdTe and InAsSb linear arrays

VIGO System introduces a line of MWIR and LWIR arrays and related detection modules. The devices are based on HgCdTe or InAsSb detectors and can be optimized for operation at any wavelength within the 3 to 14 μm spectral range. They operate at ambient temperature or with Peltier coolers.

FEATURES

- High sensitivity
- High-speed response
- From DC to a few MHz
- Low drift of output signals
- Compact small size and weight packages
- Convenient cryogenic-free operation
- Customizable array formats, spectral range, responsivity and other parameters
- Customizable signal processing circuits



MODULE CONFIGURATION OPTIONS

- Customizable mechanical layout
- USB digital interface for easy integration, electronic development minimalization
- Microprocessor signal processing like filtering, response linearization etc.

APPLICATIONS

- Slow and fast contactless temperature measurement (railway transport, industrial and laboratory processes monitoring)
- Spectroscopy (gas detection, breath analysis)
- Flame and explosion detection
- Defense and security
- Laser beam profiling and positioning
- Garbage sorting systems

STRUCTURE AND CHARACTERISTICS

Array format	linear or bilinear, up to 32 elements
Pixel size	minimum $25 \times 25 \mu\text{m}$
Detector material	HgCdTe or InAsSb
Detector type	PV or PC
Cut-off wavelength	3 to 14 μm
Cooling	1 to 4-stage TEC
Time constant	1 ns – 10 μs
Active elements temperature	210 – 270 K
Temperature sensors	thermistor or diode
Package	TO8 16-pin or butterfly 40-pin
Window	Si/Al ₂ O ₃ /Ge/ZnSe with or w/o AR coating, planar or wedged
Ambient temperature	-20 to 70 °C
Storage temperature	-20 to 50 °C

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