InSbHS camera C9985-05 (Thermal emission camera)

A high sensitive thermal emission camera.

**Features**
- High resolution and sensitivity
  - High resolution: pixel number 640 × 512
  - Sensitivity: 2 times or more compared to a conventional InSb camera
- High frame rate max 2 kHz (windowing)
- Special designed 1× macro lens A10159-10 (option for PHEMOS-1000) enhancing high sensitivity in macro observation.

**Applications**
- Thermal emission analysis
  - Metal short
  - Leakage in oxide layer
  - Local current concentration of power devices
- Depth measurement (option)
- Temperature measurement (option)
Measurement case study

**Purpose**
Confirm camera sensitivity improvement by using windowing function.

**Method**
Compare SN (signal to noise) ratio between different frame rates under the same optics, sample and bias condition.

**Result**

![Image](333 fps @640 × 512)

![Image](1000 fps @160 × 128)

**Conclusion**
Approx. 2 times higher sensitivity was achieved by 3 times higher frame rate.

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