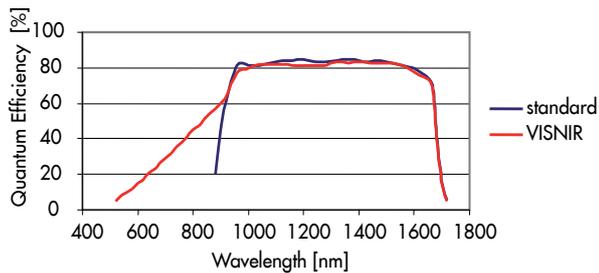
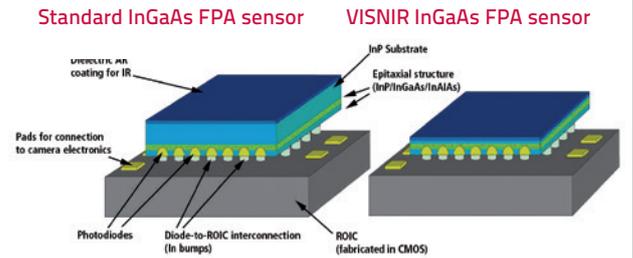


VisInGaAs detector based cameras



Typical spectral response (quantum efficiency) of a standard and a VISNIR InGaAs focal array (format 320x256), at room temperature.



The visible InGaAs camera units are equipped with a dedicated InGaAs detector array for a spectral range of 400 nm to 1700 nm.

This special detector can be implemented in various models as the XEVA (320 x 256 Pixels), Bobcat, XSW and Cheetah product range. It allows you to view objects in the visible range as well in the NIR infrared range. As the standard InGaAs detector has no response below 900 nm the spectral response of the VisInGaAs decreases slightly to reach 20% response at 600 nm. The „visible InGaAs“ detector is manufactured using the standard InGaAs detector production process by etching the InP layer. By this the detector becomes responsive also for the visible light.

Key features

- Operates TE1-cooled XEVA, Bobcat, XSW and Cheetah cameras
- Anti-condensing construction
- 12-bit and 14-bit versions
- Low-noise circuitry
- Built-in temperature controller
- Highly stable operating temperature
- Compact configuration
- Simple operation
- Adapter for c-mount optical lenses
- Frontplate for spectrometer fixation (only XEVA)
- Stand-alone operation

VisInGaAs applications

- Military imaging
- Hyperspectral imaging
- Laser beam profiling
- Low-light level imaging
- Vision enhancement (automotive or airborne applications)
- Semiconductor inspection
- Imaging in NIR and visible range
- On-line process control
- Medical applications
- Paper pulp processing
- and many others

For further information, please see the brochures of

- Bobcat
- Xeva 320
- XSW
- Cheetah

Array specifications

Array type	InGaAs
Spectral band	0.4 to 1.7 μm
No. of pixels	320 x 256 and 640 x 512
Pixel pitch	30 μm / 20 μm / 15 μm
Array cooling	TE1-cooled down to 263K
Pixel operability	>99% (typically >99.5%)

