

New

NIR-600P

Near-infrared Camera with 640 x 512 pixels



Features

- 640 (H) x 512 (V) pixels
- Spectral response **900nm – 1700nm** (NIR)
- InGaAs sensor
- 25 μm x 25 μm pixels
- 14 bit digital processing
- Frame rate 30 Hz
- Different interfaces available (**Camera Link** or **Gigabit Ethernet**)
- Adapted for C-Mount optical lenses
- Peltier Cooling for longer exposure times

VDS Vosskühler

By means of the **NIR-600P** VDS Vosskühler offers a further camera model for the NIR area from 900 to 1700nm. The camera has an InGaAs sensor with a resolution of 640 x 512 pixels.

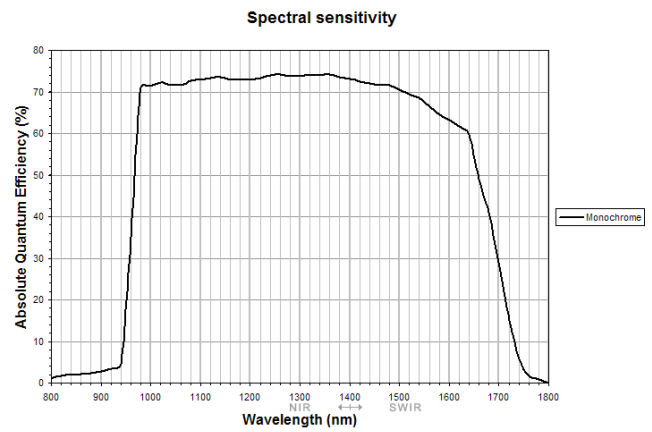
InGaAs detectors are known to be very sensitive with good linearity and high damage threshold against intense illumination.

At a frame rate of 30 frames/sec. the **NIR-600P** camera delivers excellent, low noise images with a 14 bit resolution.

In addition to a continuous image capture with 30 Hz, the camera has an Image on demand mode, enabling to exposure all pixels at the same time and to output them in the following.

Except for the standard connection LVDS, the **NIR-600P** camera is also offered with diverse Interfaces (Camera Link or Gigabit Ethernet).

The camera has a Peltier cooling for longer exposure times or in order to enable an exact measuring within the image.



Applications:

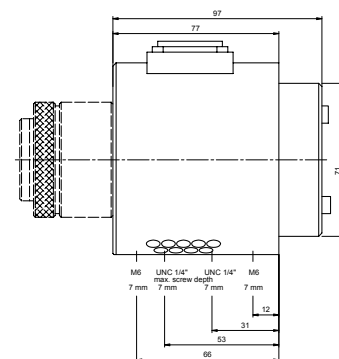
- Near-infrared imaging
- Thermal imaging of hot objects (in a range of 150°C to 800°C)
- Imaging spectroscopy
- Laser beam profiling
- Sorting according to plastic
- Semiconductor inspection
- Water or moisture detection
- Medical science and biology
- Vision enhancement

Technical Data

- Resolution: 640 (H) x 512 (V) pixels
- Pixel size: 25 µm x 25 µm
- InGaAs sensor
- Spectral response: 0.9 µm - 1.7 µm (NIR)
- Quantum efficiency: > 70% (1.0 µm -1.6 µm)
- Sensitive area: 16.0 mm x 12.8 mm
- Electronic full-frame shutter
- Exposure times: 64 µs – 1 s
- Progressive scan
- Frame rate up to 30 Hz
- Fullwell > 1x10⁶e
- Read out noise: < 400e
- Dynamics: > 1:2500
- Pixel clock: 10.5 MHz
- 14 bit digital processing, 12 bit output (Camera Link Base or 1000Base-T Gigabit Ethernet)
- Peltier cooling stabilized to +0°C
- C-Mount optical interface
- Power supply + 12V (SELV)
NIR-600PCL: 0.8 A (max. 1.1 A)
NIR-600PGE: 1.0 A (max 1.3 A)
- Ambient air temperature: 10°C up to 35°C
- Forced air cooling
- CE conform
- Made in Germany

Mechanical dimensions:

NIR-600PCL:



NIR-600PGE:

