



IRC-640GE

Infrared Camera with 640 x 480 pixels for LWIR



Features

- 640 (H) x 480 (V) pixels
- NETD typ. ≤ 80 mK @ F/1.0
- Spectral response: $8 \mu\text{m} - 14 \mu\text{m}$ (LWIR)
- Uncooled microbolometer sensor
- $25 \mu\text{m} \times 25 \mu\text{m}$ pitch
- Measurement temperature range: -20°C to $+80^{\circ}\text{C}$
- Frame rate: 24 Hz
- Built-in mechanical shutter
- Preprocessing functions included
- 14 bit Gigabit Ethernet output

In case of the **IRC-640GE** series a robust and very compact LWIR infrared camera is concerned, which is especially suitable for surveillance applications, automation, quality- and process control as well as for scientific research and development.

The **IRC-640GE** camera has a maintenance-free, uncooled microbolometer sensor, enabling to detect temperature distinctions of < 80 mK.

At a frame rate of 24 Hz the camera delivers excellent, noise-free and high-resolution images with 640 x 480 pixels. The camera offers a real-time image correction enabling to make available excellent images at the Gigabit Ethernet output.

The image correction consists of a background subtraction, an error pixel and shading correction as well as of a linearization of temperature values.

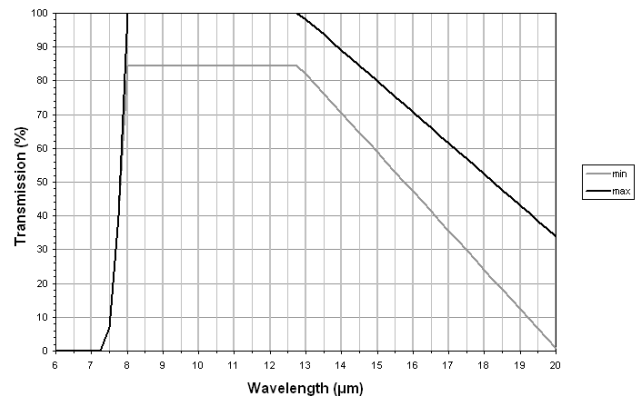
The camera specific data being required for the adjustment functions are stored within the camera.

Due to its compact design the **IRC-640GE** is very suitable for the integration in systems for process monitoring or for quality control.

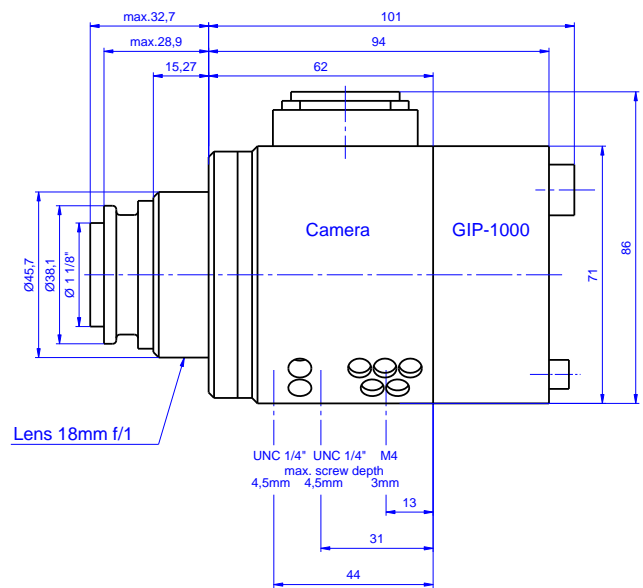
First and foremost the **IRC-640GE** is an OEM-camera, which can very easily be installed in existing software, due to its integrated image adjustment and the Gigabit Ethernet (1000Base-T) output.

Furthermore the camera offers a mechanical shutter system which can be adapted to several LWIR lenses.

Spectral transmission



IRC-640GE18:



Technical Data

- Resolution: 640 (H) x 480 (V)
- NETD typ. ≤ 80 mK (@ F/1.0)
- Spectral response: 8 µm - 14 µm (LWIR)
- Uncooled microbolometer sensor
- Temperature stabilized sensor
- Measurement range: -20°C to +80°C @ F/1.0
- Pixel size: 25 x 25 µm
- Sensitive area of 16 mm x 12 mm
- Sensor time-constant approx. 7 ms
- Frame rate: 24 Hz
- 14 bit Gigabit Ethernet (1000Base-T) output
- Power supply: + 12V (SELV), max. 1.5 A
- Ambient temperature: 15°C - 35°C
- Weight: 790g (IRC-640GE18)
- CE standard
- Made in Germany

Available versions

Description	Order code	Lens type	FOV [°]
IRC-640GE18	1059000	18mm F/1.0	47.9 x 36.9
Other lenses available upon request			