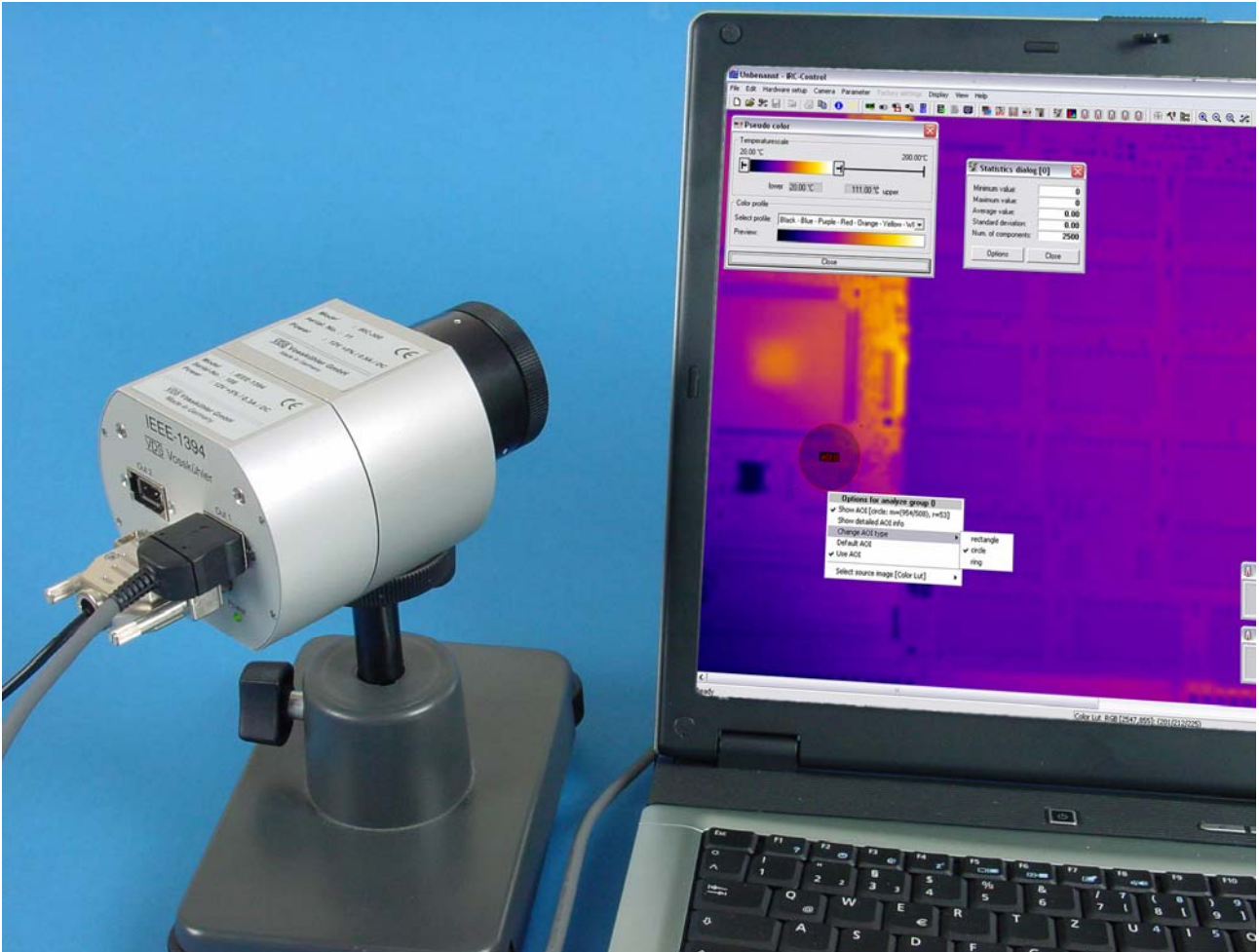


IRC-300IE

Infrared Camera with 320 x 240 pixels for LWIR
with IEEE1394 output and control software



Features

- 320 (H) x 240 (V) pixels
- Uncooled microbolometer sensor
- NETD \leq 80 mK
- Spectral response 8 - 14 μ m (LWIR)
- Temperature range +20°C to +200°C @ F/1.0
- 35 μ m x 35 μ m pitch
- Frame rate 40 Hz
- Extensive analysis and display software
- 12 bit IEEE1394 output
- Optional: temperature reference element in front of the microbolometer.

In case of the IRC-300 a robust and very **compact** LWIR infrared camera is concerned, which is especially suitable for applications in the automation, quality- and process control as well as for scientific research and development.

The IRC-300 camera disposes of a maintenance-free, uncooled microbolometer sensor, enabling to detect temperature distinctions of 80 mK.

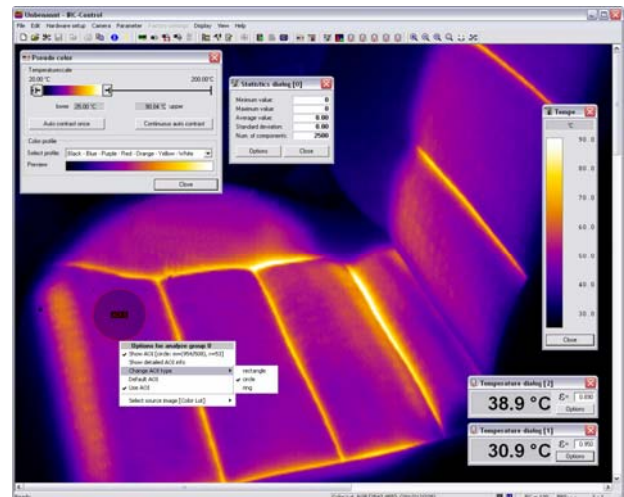
At a frame rate of 40 Hz the camera delivers excellent, noise-free and high-resolution images with 320 x 240 pixels.

By means of an optional temperature reference element, temperatures within the image can precisely be determined.

Due to its compact design the IRC-300 is very suitable for the integration in systems for process monitoring or for quality control.

Equipped with a FireWire Interface, the IRC-300 is also especially suited to the mobile use, in combination with a laptop.

Furthermore the camera disposes of an universal screw thread (M55x0.75), in order that the exchange of LWIR lenses with diverse focal lengths can easily be managed.



The Software „IRC-Control“, which is added to the IEEE1394-version, enables to show a live display, all necessary image processing as well as a detailed analysis of the infrared images. Among other things it is possible to define up to five temperature measuring fields. These fields (AOI) can be square, round or ring-like. For an exact temperature determination the emission level can be selected.

The images can be stored as color- or grey value images within TIFF, BMP or RAW format. In case of images within RAW format the concerned temperature area can later be altered.

Supported lenses

Focal length	F	min. Focus	FOV in [°]
18 mm	0.87	0.5 m	34.6 x 26.3
35 mm	1	0.5 m	18.2 x 13.7
50 mm	1	1.0 m	12.8 x 9.6
75 mm	1	5.0 m	8.6 x 6.4

Technical Data

- Resolution 320 (H) x 240 (V) Pixels
- Uncooled microbolometer sensor
- NETD ≤ 80 mK
- Thermal sensitivity typical 80 mK @ F/1.0, 30 °C
- Spectral response 8 - 14 μm (LWIR)
- Temperature range 20°C to 200°C @ F/1.0
- Temperature stabilized sensor
- Sensor time-constant approx. 4 ms
- Sensitive area of 11.2 mm x 8.4 mm
- Pixel size 35 x 35 μm
- Frame rate 40 Hz
- 12 bit IEEE1394 output
- Power supply + 12V (SELV), max. 0.7 A
- Environmental temperature 10° - 30°C
- CE standard
- Made in Germany

