

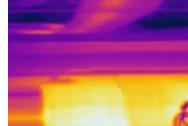
# DATA SHEET



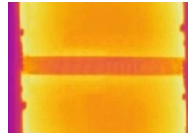
## Infrared Camera Thermo-Cam with USB-Connection



### ► Process Control of Calendering



### ► Production of Solar Panels

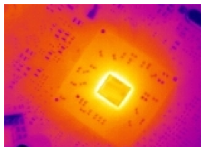


### Characteristics

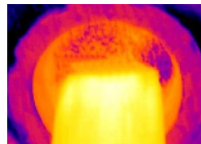
- High Accuracy within Temperature Range of -20 up to +900°C
- Compact Design – Easy to Use
- Infrarot Detector with 160 x 120 px and thermal sensitivity of 0,08K
- Exchangeable lenses with 6° FOV, 23° FOV or 48° FOV
- Real-Time thermography with 120Hz frame rate
- Power Supply via USB - Interface
- Windows XP / Vista / Windows 7–Software „Thermo-Cam“
- Analogue In- and Output, Trigger-Interface
- Lightweight (250g) and Rugged (IP65)
- 

### Typical Applications

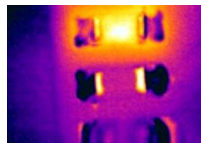
#### ► R&D Electronic



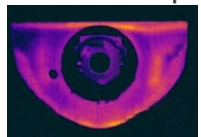
#### ► Process Control Extrusion



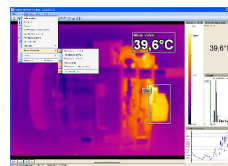
#### ► R&D Electronic Devices



#### ► R&D Mechanical Components

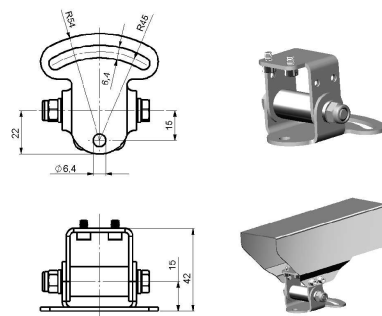


### Software Thermo-Cam :



- Display of the thermal image in real time (120Hz) with recording function (video, snap shot)
- Complete set up of parameters and remote control of the camera
- Detailed analysis of fast thermodynamic processes

### Accessories:



Mounting Base with Protective Housing

# DATA SHEET

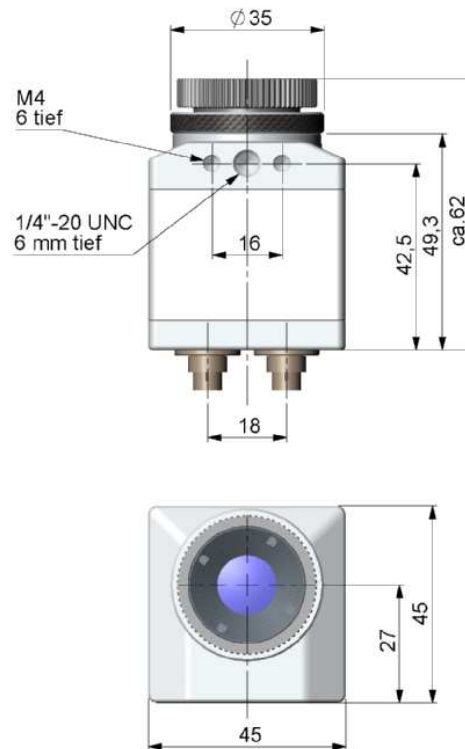
## Infrared Camera Thermo-Cam with USB-Connection



### Technical Data:

General Specifications	
Protection Rating	IP65
Operating Temp.	0° C to +50° C
Storage Temp.	-40° C to +70° C
Relative Humidity<	20 – 80%, non condensing
Shock	25G, IEC 68-2-29
Vibration	2G, IEC 68-2-6
Weight	250g, incl. Lens
Electrical Specifications	
Output	USB 2.0
Power Supply	USB powered
Process Interface (electrically isolated)	0 – 10V output 0 – 10V input Trigger input
Tripod Mount	¼ - 20 UNC
Measurement Specifications	
Temperature Range	-20° C to +100° C 0° C to +250° C +150° C to +900° C
Detector	uncooled FPA – Micro Bolometer 35 x 35 µm
Thermal Sensivity (NETD)	0,08K with 23° FOV/F = 0,7 0,3K with 6° FOV/F = 1,6 0,1K with 48° FOV/F = 1
Refresh Rate	120Hz
Spectral Range	7,5 – 13µm
Optical Resolution	160 x 120 pixel
System Accuracy	±2% or ±2° C
Resolution (Display)	0,1° C
Lenses	48° x 37° / f = 4,5mm 23° x 17° / f = 10mm 6° x 5° / f = 35,5mm
Measurement Modes	Flexible spot with crosshair marking, fixed measurement field with automatic display of maximum-, minimum- or average value
Color Palettes	Iron, rainbob, black and white, black and white inverted
Set up Controls (via menu)	Measurement modes, full automatic, manual, color palettes, emissivity, file management, date/time, °C / °F, language
Emissivity	0,10 – 1,00 adjustable

### Dimensions:



### Scope of Delivery:

- ▶ Thermo-Cam incl. a selectable Lens
- ▶ Stand
- ▶ Transport Case
- ▶ Operating Manual
- ▶ USB-Cable
- ▶ Process-Interface-Plug (5-pole)
- ▶ Software Thermo-Cam: for Real Time Processing and Analyzing of thermal Images