PYROVIEW 380L protection FDS



Powerful infrared camera for fire detection systems



- ✓ Precise non-contact temperature measurement from −20 °C and 300 °C
- \checkmark Uncooled microbolometer array with 384 \times 288 pixels
- ✓ Spectral range 8 µm to 14 µm
- ✓ Numerous optics with motor focus
- ✓ Measurement frequency 50 images per second
- ✓ Ethernet interface (real-time, 50 Hz)
- ✓ Large dynamic range and 16 bit A/D converter
- ✓ Camera in industry protection housing "protection FDS" (IP65)
- ✓ Integration in customized system solutions including hard- and software modifications

Overview

The infrared camera PYROVIEW 380L protection FDS that was specifically developed for fire detection measures temperatures without contact exactly and reliably. Also in very fast processes or at temperature changes the data acquisition happens in real-time.

In stationary industrial continuous operation measurement data is recorded with good thermal and spatial resolution on fixed or moving measurement objects. In this way waste bunkers for example are monitored efficiently. Therefore the Ethernet interface guarantees a data acquisition without loss and with no appreciable time delay up to 50 images per second. The maximum image frequency of 50 Hz is adjusted optimally to the thermal time constant of the infrared array.

Numerous motor focus infrared lenses, including wide angle and telephoto lenses, provide a flexible adjustment to different measurement object sizes at different measurement distances.

The infrared camera is built in a stainless steel industry protection housing "protection FDS" that has an air purge unit and a protection window by default. A combination with a pan-tilthead is possible. An optional housing with extra sun protection function is available, too.



Made by DIAS Infrared

DIAS Infrared headquartered in Dresden (Germany) develops and manufactures high-quality precision devices as well as system solutions for non-contact temperature measurement. Challenging projects are a welcoming motivation for us. The customers appreciate the robust make, outstanding accuracy, superb reliability and the high service standard of our equipment technology.

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Technical data				
Device type	380L protection FDS			
Spectral range ¹	8 µm to 14 µm			
Temperature range ¹	-20 °C to 300 °C			
NETD ^{2,3}	< 0.1 K (30 °C, 50 Hz)			
Aperture angle ⁴ (HFOV \times VFOV)	$30^{\circ} \times 23^{\circ}$, optional: $90^{\circ} \times 74^{\circ}$, $60^{\circ} \times 47^{\circ}$, $44^{\circ} \times 34^{\circ}$, $22^{\circ} \times 16^{\circ}$, $11^{\circ} \times 8^{\circ}$ (optics with motor focu			
Sensor	uncooled microbolometer array (384 $ imes$ 288 pixels)			
Measurement uncertainty ³	2 K (object temperature < 100 °C) or 2 % of measured value in °C			
Measurement frequency ⁵	internal 50 Hz, selectable: 50 Hz, 25 Hz, 12,5 Hz,			
Response time	internal 40 ms , selectable: 2 / measurement frequency			
Interface	Ethernet (real-time, 50 Hz), galvanically isolated digital inputs (trigger) and digital outputs (alarm)			
Connectors	round plug connector M23 (16 pin, power supply, digital inputs and outputs), round plug connector M12A (Ethernet)			
Power supply	12 V to 36 V DC, typical 10 VA			
Weight	approx. 4.2 kg			
Housing	industry protection housing "protection FDS" (IP65), stainless steel, with air purge unit and protection window, diameter 110 mm, length 280 mm (without mechanical mountings and connectors), 2 bar max. air pressure			
Operating temperature of the camera	-10 °C to 50 °C			
Storage conditions	–20 °C ti 70 °C, max. 95 % rel. humidity			
Software	control and imaging software PYROSOFT for Windows \circledast , customized modifications on request			
Scope of delivery	infrared camera PYROVIEW 380L, calibration certificate, user manual, software PYROSOFT Compact			
¹ Others on request. ² Noise equivalent te ⁵ Export version with < 9 Hz available	mperature difference. ³ Specifications for black body radiators and ambient temperature 25 °C. ⁴ Lens with motor focus.			

 5 Export version with < 9 Hz available



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Dimensional drawing



Housings





Connectors



Accessories	Part number
Ethernet cable (8-pin) M12-RJ45/Cross/5 m	2301A32005
System cable RC26, 16 pin, 5 m	2301A12005
Pan-tilt head, software, cables and more accessories	on request

PYROSOFT



Powerful online and offline software for DIAS infrared cameras

PYROSOFT FDS for fire detection systems



- Multi document structure for several documents
- Bitmap, video and text export
- Definition of regions of interests (ROI) and values of interests (VOI) with alarm calculation, histogram and trend chart
- Numerous interface possibilities for processes (PROFIBUS, PROFINET, WAGO, TCP-Socket, Text IO)
- Reporting function, context-sensitive help system (F1 key)
- PYROSOFT Professional IO offers optionally a bidirectional data interface via PROFIBUS, PROFINET, WAGO, MODBUS, OPC, TCP Socket to process control systems, controllers and other applications

PYROSOFT Automation

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DIAS has developed the software PYROSOFT Automation for the integration of infrared cameras in automation processes.

- Comfortable product management with free definable document templates
- Product choice and release control can be made manually or automatically
- Different user levels for operator, tool setter and administrator
- Functionality of PYROSOFT Professional for administrators
- Automatic logging of system messages, measured data and alarms
- Easy to use and configurable user interface for application in fabrication
- Learning functions for automatic adjustment of alarm threshold
- Offline viewer for belated data analysis
- Process connection via I/O Systems (PROFIBUS, PROFINET, WAGO, TCP-Socket)

More software packages are available, for example: PYROSOFT MultiCam (process software for monitoring up to 8 cameras), PYROSOFT CamZone (software for programming a stand-alone camera), PYROSOFT DAQ (integration software with own online and offline DLL interface for DIAS infrared cameras).



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