TELOPS

Datasheet

1000 FPS

Scientific Infrared Camera Series

***FAST*- IR 1000**

Accelerating Infrared Imaging

The Fastest Camera for the Infrared Expert

The ***NEW FAST*-IR 1000** MW Scientific Infrared Camera is THE REVOLUTION in high speed IR cameras. It is the first 1000 fps full frame solution for the infrared imaging expert.

It provides either raw or calibrated data in real-time. Calibration coefficients are acquired automatically using built-in etalons.

For multispectral applications, a fast filter wheel is available.

Establish the standard with this state-of-the-art IR Camera.

Benefits:

- **Allows to analyze dynamic events never observed before**
- **Real-time calibrated images**

Features:

- **Raw Data Output Mode**
- **Fast Filter Wheel**
- **Advanced synchronisation**
- **GEN< I >CAM compatible**
- **Rugged, sealed enclosure**
- **Standard optics interfaces**
- **Complete Control with SDK**

Applications:

- **Military**
- **R&D & Scientific**
- **Industrial**
- **Process Control**

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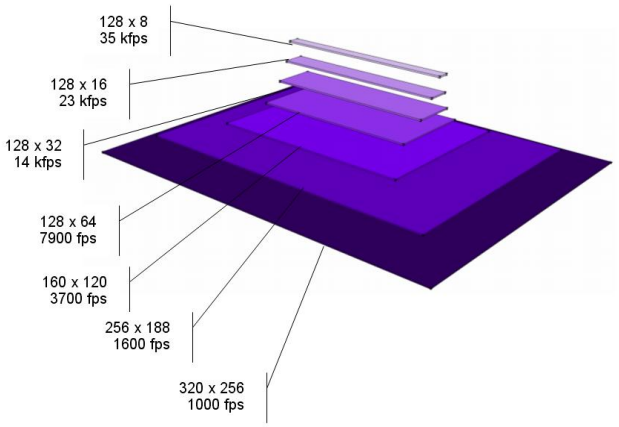
FAST-IR 1000 SPECIFICATIONS	
DETECTOR SPECIFICATIONS	
FPA frame size	320 × 256 pixels
Detector type	InSb
Spectral range	3.0 µm to 5.0 µm
Detector pitch	30 µm
f/#	f/2.3
Sensor cooling	Split-stirling closed cycle
PERFORMANCES	
NETD	<18 mK
Radiometric temperature accuracy	1 K or 1 % (°C)
Scene radiometric temperature	-15°C to 150 °C -15°C to 1500°C (option)
ELECTRONIC SPECIFICATIONS	
Maximum full frame rate	1000 Hz
Exposure time	7 µs to full frame time
Windowing	yes
Dynamic range	16 bits
RTP Real time processing/NUC	yes
EHDRI (Option) Enhanced High Dynamic Range	yes up to 4 settings in post processing up to 2 settings in real time
AEC (Option) Automatic exposure control	yes
AEC+ (Option) Automatic high temperature range	yes
RTTC (Option) Real time radiometric temperature calibration	yes
DATA TRANSFER AND CONTROL	
Command and control	CameraLink/GenICam
Data output selection	raw or NUC (Radiometric temperature optional)
Digital output	CameraLink (Full)
Analog output	NTSC or PAL
Trigger	input / output
Time stamping (Option)	GPS & IRIG
SDK support (Option)	yes
CAMERA CONSTRUCTION	
Multi-spectral (option)	8× / 1" optics Fixed or fast rotating
Operating environnement	-15 °C to 50 °C Without sun radiation
Lens mount	Janos bayonet interface
Base mounting	¼ - 20 UNC + dowel pin
Size w/o lens	13" × 6" × 9"
Weight w/o lens	10.5 kg (typ)
Power supply	24 VDC 80W steady-state

Frame Rates vs. Window Size



Optional focal lengths available:

- 7mm
- 13mm
- 25mm
- 50mm
- 100mm
- Other focal lengths available upon request

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Telops provides training and support which enable you to get the best use possible out of your instrument. We are committed to providing you with the highest level of customer service and are very open to customizing your instrument to better suit your needs

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