IDAO ENGINEERING

IRS-701

MWIR COOLED CAMERA

INFRARED IMAGING TECHNOLOGIES EXPERTS

RESOLUTION
640 x 512 Pixels
15 µm pitch
InSb (SCD Pelican-D)

FRAME RATE
Up to 120 Hz

DATA OUTPUT
14 bits Digital
(GigE or USB3.0 or CameraLink)

COMPOSITE VIDEO
PAL or NTSC

ADVANCED PROFESSIONAL IR & THERMOGRAPHY

+ Easy integration
+ Fully customizable
+ Different Filter treatment
+ Universal Usage

Thermal imaging Technologies & custom solutions for integrators

IDAO ENGINEERING proved his expertise in design of complex electronic architectures based on **INTEL FPGA** and embedded software on **TEXAS INSTRUMENTS DSP** (Digital Signal Processors).

6 Rue du Dr Albert Schweitzer
91420 Morangis - France
+33 (0)6 8414 6871
info@idao-engineering.com
WWW.IDAO-ENGINEERING.COM

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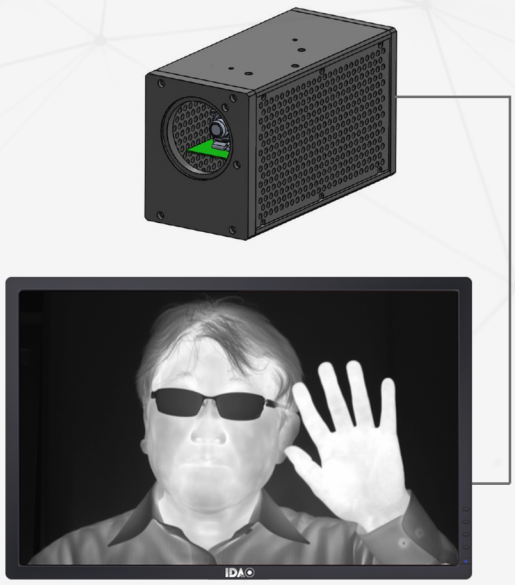
IRS-701 640x512 MWIR
Infrared Cameras



Key Features

- 14 Bits Digital (GigE or USB 3.0 or CameraLink)
- Analog (PAL or NTSC)
- Integrated Stirling cooler with current protection
- Full programmable software capability

Applications

- Security and Surveillance
- Industrial
- Scientific & Medical
- Non Destructive Testing
- Research & Development

Technical Specifications

GUI (Windows):	IreneView GigE/USB3.0
Remote Control:	RS232 with IreneCom & IreneAgent
Cooling time:	<9 mins @23°C typical
Functions:	- Windowing/Image Flip - Bad Pixels Replacement - NUC 1 or 2 points (8 tables) - AGC, Enhancement & Sharpening Details - Overlay, Reticle, false color
Dimensions:	129 X 163 X 274.5 mm (L x W x H)
Weight:	< 5.8kg
Operating Temp.:	-40°C to +70°C
Detector:	InSb SCD Pelican-D
Resolution - Pitch:	640 x 512 Pixels - 15µm
Cold Shield F#	F/4 (Other options available)
Spectral response:	3.6 to 4.9µm (MWIR)
NETD:	<25mK @ 27°C typical
Frame rate:	Up to 120 Hz full frame by 1Hz step
Integration time:	1µs to 100ms by 1µs step
Power supply:	24 V (DC) / 2.5 A
Power consumption:	<20W, <35W cool down
External Trigger:	TTL (0-5V)

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