ANALINEAR
TECHNOLOGIES

JAGUAR

Highest Quality SWIR Imaging

Jaguar is a versatile and compact InGaAs based SWIR camera core offering a comprehensive suite of features including camera link and USB 3.0 digital outputs.

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Jaguar's ultra-low noise and high sensitivity combined with advanced digital image enhancement offers a new reference point when it comes to image sharpness and clarity needed for a variety of SWIR applications. Additionaly, Jaguar's 300 Hz frame rate provides best imaging capability for high speed applications, in a compact low-power package.

FEATURES

- Low noise: 35 e
- Up to 300 Hz at full frame rate
- No availability restriction
- 16-bit, 14-bit or 12-bit digital data
- NTSC/PAL analog video
- Low power consumption
- Built-in image processing capabilities

APPLICATIONS

- Security and Surveillance
- Passive/Active night vision
- Image lasers / 3D ranging
- Covert driver vision enhancement
- Semiconductor
- Photovoltaics
- Glass Production
- Plastic sorting
- Pharmaceutical Monitoring
- Scientific and Medical
- Food sorting/Agriculture

VERSATILITY

- Max Frame Rate
  Jaguar VGA 300: 300 Hz
  Jaguar VGA 100: 100 Hz
- Various lens options
  Fixed focus: 25/35 mm
  Lens-less option
  Various custom lenses

SPECIFICATIONS

	Jaguar VGA 300	Jaguar VGA 100
Array Type	640 x 512 Indium Galllium Arsenide, InGaAs	
Pixel Pitch	15 micron	
Spectral Band	0.9 to 1.7 micron	
Array size	640 x 512	
Array Cooling	TEC	
Noise	35 e-	
Dark Current	<0.15 pA	
Optical Fill Factor	100%	
Dynamic Range	> 70 dB	
Analog Output	PAL/NTSC	
Digital Output	12/14-bit Camera Link	12/16-bit Camera Link
Digital Frame Rate	Up to 300 Hz max in full frame, > 5000 with windowing	Up to 100 Hz max in full frame, > 1000 with windowing
Input Voltage	9 to 24 VDC	
Power requirement	< 4 W* (with TEC off in low power mode)**	< 1.5 W* (with TEC off in low power mode)**
Size without lens		
with exterior case	107mm x 147mm x 37mm	57mm x 57mm x 64mm
without exterior case	60mm x 60mm x 35mm	45mm x 45mm x 35mm
Weight without lens		
with exterior case	350 g	265 g
without exterior case	160 g	120 g
Operating Temperature Range	-40°C to +60°C	
Non-Operating Temperature Range	-40°C to +85°C	
Scene Range	Dim moonless night to bright daylight	
Environmental Specifications	MIL-STD-810G	
EMC	MIL-STD-461	
Camera Control	SDK or GUI	
Image Processing	Digital zoom, windowing, Onboard Image Optimization (BPR, AGC, NUC, Sharpen, De-noise, AGC/LAP)	

* Tentative power ratings. Actual figures may vary and likely lesser.
** In low power mode all features are not available.

STANDARD LENS OPTIONS

- Fixed focus: 25/35 mm
- Lens-less option

ACCESSORIES

- SDK
- Tripod Mount Adapter
- Advanced Image Processing Software

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