SEQUOYAH

Flexible full colour/monochrome camera and board camera
High resolution, full HD
Linux platform for camera controls
High dynamic range
HD-SDI output

Sequoyah is a camera unit especially designed for integration and stand alone use. Whether in need of a camera for Local Situational Awareness, covert surveillance mission, surveillance platform or fusion sensor suite, Sequoyah is your solution. Designed to integrate overlays, suitable to be bore sighted, full access to all camera functions through combined FPGA and Linux driven system. High dynamic range, integrated ShadowBoost™ technology and high resolution. Combined with ITS' flexible in-design support this camera can be implemented into vehicle camera systems and RSTA platforms. The camera is also perfect for stand alone covert surveillance missions. With good low light level performance, it also offers colour video feeds down to quarter-moon situations, paired with powerful video processing.

Key features

- **ShadowBoost™ technology for enhanced dynamic range**
- **High resolution**
- **Full Camera control**
- **Flexible platform**

Applications

- **Vehicle camera systems**
- **Surveillance system**
- **Covert surveillance**
- **RSTA sensor platforms**

ITS

Innovative Technical Solutions BV

Richterlaan 3C
9207 JT Drachten
The Netherlands

URL: www.its-hightech.nl
Tel: +31 (0) 512 212410
Email: info@its-hightech.nl

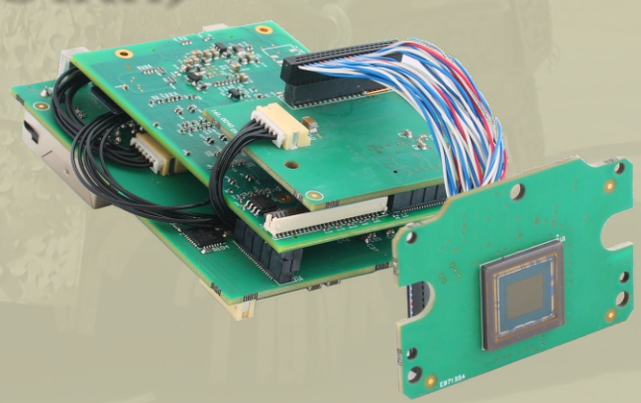
NIGHT VISION THERMAL IMAGING CAMERA DEVELOPMENT

EXTRAORDINARY CAMERA SYSTEMS

SEQUOYAH

System basics	
Type	Full colour CMOS camera or board camera
Sensor	Sony IMX252LQR-C Pregius, global shutter, colour Sony IMX252LLR-C Pregius, global shutter, monochrome
Optical format	1/1.8 inch
Resolution	1920 x 1080 (3.15 MP active pixels)
Dynamic range	10 bit and ShadowBoost™
Spectral range	400 – 1100 nm
Frame rate	25Hz/60Hz
Detection limit colour	~0.5 mlux faceplate illumination (3-5 mLux on scene with F1.8)
Detection limit monochrome	~100 µlux faceplate illumination (~1 mlux on scene with F1.8)
Input and output	
Output	HD-SDI
Interface	RS232, Ethernet, USB
Features	
Image processing	Powerful, FPGA based, digital image enhancement: Overlays, white balance, gamma correction, digital zoom, brightness, defect pixel correction, etc. **ShadowBoost™** for improved visibility of dark areas, **EASE™** for live edge enhancement
Camera control	Gain, integration time, exposure, sync, iris, set boresight, etc.
Operating System	Linux OS, full access to all camera functions, adjustable and expandable features via software
SDK	Software development kit available for system integrators
IR cut filter	Optional automatic IR cut filter
Physical dimensions	
Size Camera	130mm x 71mm x 65mm
Size Board camera	Sensorboard: 44 x 44 mm; mainboard 83 x 52 x 42mm
Power	
Input voltage	12 Volt DC, ~5 Watt
Environmental parameters	
Operating and storage temperature	-30°C to +75°C, -40°C to +85°C
	ITS offers full technical and mechanical support

SEQUOYAH



Designs and specifications are subject to change without notice.

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