

# Pyxis® LWIR 640-A



**Base Price: \$45,000 for US Government use**

|                                 |                                |
|---------------------------------|--------------------------------|
| Detector                        | Uncooled VOx Microbolometer    |
| Operating Temperature           | 0°C-45°C                       |
| Waveband                        | 7.5µm-13.5µm                   |
| Pixel Pitch                     | 17µm                           |
| Resolution (HxV)                | 640 x 512 pixels               |
| Standard Lens                   | 20mm f/0.85 (others available) |
| Field of View (Standard Lens)   | 30° x 25°                      |
| Camera Frame Rate               | 30Hz or 7.5Hz                  |
| Full Frame Pixel Operability    | >99.9%                         |
| NEDT @ f/0.85                   | <70mK                          |
| NEDOLP @ f/0.85                 | <0.5%                          |
| Input Voltage                   | 5VDC                           |
| Size with Standard Lens (LxWxH) | 2.65" x 1.75" x 1.79"          |
| Weight with Standard Lens       | 4.9oz                          |
| Data Interface                  | NTSC/14-bit Camera Link        |
| Environmental                   | N/A                            |
| Steady State Power @ 70°F       | 4W                             |
| Peak Power @ 70°F               | 5.3W                           |

## Summary

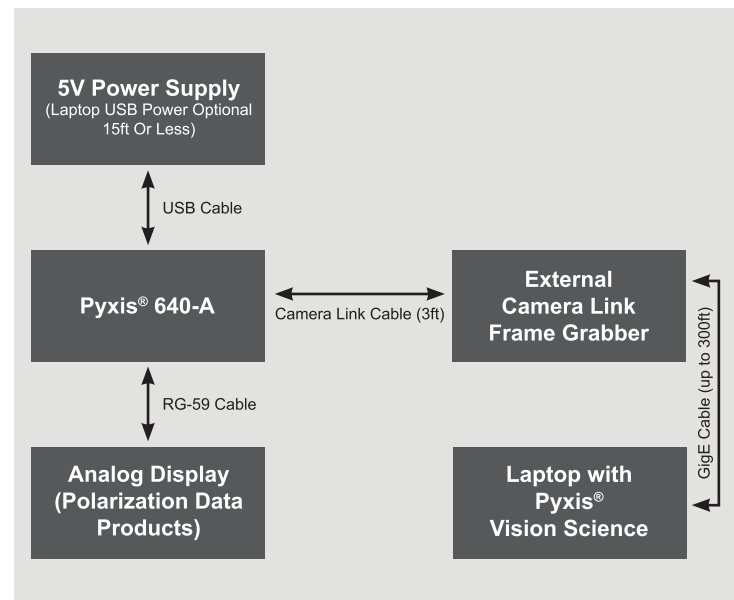
- LWIR imaging polarimeter
- SWaP almost identical to standard LWIR microbolometer
- Most versatile configuration allowing for collection and control of real time digital and analog data
- Can be battery powered
- Different cable lengths available
- Environmental housing required for demanding environments

## Analog Video

- On-board FPGA electronics provide real-time processed polarization products and standard thermal video
- Function buttons include: Perform single point and two point NUC's, select between 5 processed output video modes, and save NUC's to flash memory.

## Digital Data

- 14-bit camera link
- When used with a frame grabber, data can be viewed, manipulated, and recorded in Pyxis® Vision Science software



Networking Diagram

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