



### Versatile 17 µm LWIR camera series

#### Feature specs

##### DETECTOR

|                   |                                  |
|-------------------|----------------------------------|
| Detector type     | Uncooled VOx Microbolometer      |
| Array format      | 640 x 480 or 320 x 240           |
| Pixel pitch       | 17 µm                            |
| Spectral response | LWIR                             |
| Frame rate        | 30 Hz or 9 Hz                    |
| NEdT @F/1.0       | <50 mK (NEDT) f/1.0 at room temp |

##### SYSTEM

|                         |  |
|-------------------------|--|
| Digital video           | 14/8-bit LVCMOS/CameraLink®  |
| Analog video            | NTSC (480i); PAL (576i) field switchable   |
| Command Interfaces      | <b>Base:</b> LVCMOS UART, 14/8 Bit Digital Video (LVCMOS or Camera Link®)<br><b>W/ Board:</b> USB 2.0, RS-232, 14/8 Bit Digital Video (Camera Link®), Analog Video (NTSC, PAL) |
| Auto gain & level       | User defined; Persistent   |
| Digital zoom/pan        | ROI, E-zoom 1X-4X  |
| Symbology               | Selectable, zoom, polarity, shutter  |
| External sync           | Yes  |
| Image enhancement       | Image Contrast Enhancement (ICE)   |
| NUC                     | 1 pt. with shutter or through lens   |
| Custom lens calibration | Storage for up to 5 LUTs   |
| Scene dynamic range     | -40°C to +80°C   |

##### ENVIRONMENTAL

|                       |  |
|-----------------------|--|
| Operating temperature | -40°C to +80°C   |
| Input voltage         | 3 - 5.5 V Base configuration<br>4.5 - 18 V Base with Feature Board   |
| Power over USB        | Requires feature board   |
| Power Dissipation     | < 1.0 W base configuration (320)<br>< 1.2 W Base configuration (640)<br>< 1.1 W base with feature board (320)<br>< 1.4 W base with feature board (640) |
| Std./Compliance       | ROHS and WEEE compliance   |

Export Classification: Dual Use



#### LENS MODELS

|       |              |
|-------|--------------|
| Lens  | Athermalized |
| Focus | Thread focus |

##### 640 options

- No Lens, 65 grams
- 65 mm (9.6°), f/1.2, 535 grams
- 50 mm (12.4°), f/1.2, 295 grams
- 35 mm (17.6°), f/1.2, 165 grams
- 25 mm (24.8°), f/1.2, 115 grams
- 16.7 mm (37.5°), f/1.25, 90 grams
- 14.25 mm (44°), f/1.4, 110 grams
- 12.8 mm (49.8°), f/1.4, 110 grams
- 9 mm (70°), f/1.4, 105 grams
- 7.5 mm (90°), f/1.4, 100 grams

##### 320 options

- No Lens, 29 grams
- 50 mm (6.2°), f/1.2, 29 grams
- 35 mm (9°), f/1.2, 29 grams
- 35 mm (9°), f/1.2, 29 grams
- 19 mm (16°), f/1.1, 29 grams
- 13 mm (24°), f/1.2, 54 grams
- 11 mm (27°), f/1.2, 49 grams
- 7.5 mm (41.8°), f/1.4, 59 grams
- 7.5 mm (40°), f/1.2, 43 grams
- 5.3 mm (60°), f/1.46, 45 grams
- 3.8 mm (90°), f/1.4, 43 grams