



# MicroCAM™ 2

## New Generation Shock Resistant Low Power Cores



**<0.6W**  
Shutterless

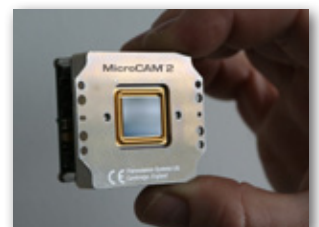
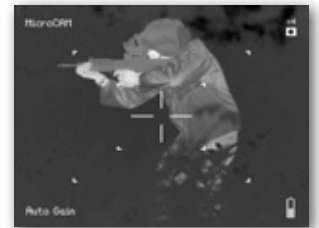
## New Generation Micro Power Thermal Imaging

MicroCAM™ 2 is the latest generation of miniature thermal imager designed for very low-powered cost-sensitive OEM applications. An excellent high shock resistant night vision capability in a package that can easily be integrated into your product or application.

### Key Features of MicroCAM 2 Thermal Imaging Cores:

- 384x288 25µm pitch
- 384x288 17µm pitch
- 640x480 17µm pitch
- High Shock Resistance
- Boresight Adjustable Reticules
- Digital Output for OEM Integration
- Optional GiGE digital interface
- -40°C to plus 70°C Operating Temperature Range Option
- Micro Power Consumption (<0.6W)
- Micro Weight (43g / 1.52oz)
- Micro Size (42.5 x 50 x 25.3mm / 1.67 x 1.97 x 0.99 inch)
- Shutterless (Patented XTi® Never Blind Technology)
- No Moving Parts
- Silent Operation

MicroCAM™ 2 represents high resolution and thermal sensitivity in a miniature lightweight shock resistant low power package from Thermoteknix Systems Ltd.





## MicroCAM™ 2

| Specification                                    | MicroCAM 384 - 25µm                                      | MicroCAM 384 - 17µm                    | MicroCAM 640 - 17µm                      |
|--------------------------------------------------|----------------------------------------------------------|----------------------------------------|------------------------------------------|
| Sensitivity (f1.0 no lens)                       | <50mK                                                    | <60mK                                  | <60mK                                    |
| Power consumption                                | <0.625 Watt                                              | <0.55 Watt                             | <0.70 Watt                               |
| Supply Voltage Range                             | 2V-5.5V (XTi)<br>4.5V-5.5V (shuttered)                   | 2V-5.5V (XTi)<br>4.5V-5.5V (shuttered) | 2.2V-5.5V (XTi)<br>4.5V-5.5V (shuttered) |
| Detector Material                                | Amorphous Silicon (ASi)                                  | Amorphous Silicon (ASi)                | Amorphous Silicon (ASi)                  |
| Array Size Options                               | 384x288<br>(Optional 320x240)                            | 384x288<br>(Optional 320x240)          | 640x480                                  |
| Pixel Count                                      | 110,592                                                  | 110,592                                | 307,200                                  |
| Pixel Pitch                                      | 25µm (384 x 288)                                         | 17µm (384 x 288)                       | 17µm (640 x 480)                         |
| TEC-Less operation                               | Yes                                                      | Yes                                    | Yes                                      |
| Spectral response                                | 8-12µm                                                   | 8-12µm                                 | 8-12µm                                   |
| Frame Rate                                       | 60 FPS (Optional 9Hz)                                    | 60 FPS (Optional 9Hz)                  | 30FPS (Optional 9Hz)                     |
| Video Output                                     | Composite PAL/NTSC<br>(CCIR/RS170)                       | Composite PAL/NTSC<br>(CCIR/RS170)     | Composite PAL/NTSC<br>(CCIR/RS170)       |
| Digital Zoom                                     | x2 x4                                                    | x2 x4                                  | x2 x4                                    |
| Polarity invert                                  | Yes                                                      | Yes                                    | Yes                                      |
| Image flip / rotate                              | Yes                                                      | Yes                                    | Yes                                      |
| Discrete Button inputs                           | 4                                                        | 4                                      | 4                                        |
| Text overlay                                     | Yes                                                      | Yes                                    | Yes                                      |
| Operating temperature                            | -20°C to +60°C                                           | -20°C to +60°C                         | -20°C to +60°C                           |
| Shock                                            | 1000g 0.4ms ½ sine X & Y Axis - 700g 0.3ms ½ sine Z Axis |                                        |                                          |
| Size                                             | 42.5 x 50 x 25.3mm / 1.67 x 1.97 x 0.99inch              |                                        |                                          |
| Weight<br>(Excluding optics)                     | 43g / 1.52oz                                             | 43g / 1.52oz                           | 43g / 1.52oz                             |
| Typical Weight<br>(Including 14.95mm f/1.3 lens) | 80g / 2.82oz                                             | 80g / 2.82oz                           | 80g / 2.82oz                             |

### Optional

|                                                      |
|------------------------------------------------------|
| Boresight Reticule Adjustment (via buttons or RS232) |
| GiGE Digital Interface                               |
| Digital Output for OEM Integration                   |
| -40°C to +70°C Extended Operating Temperature Range  |
| Military Specification Option                        |



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Driving Progress - Finding Solutions

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Not all features present on all models. Specifications subject to change.  
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