



## Acuros<sup>®</sup> GO SWIR Camera Preliminary Product Sheet


### *Introducing the world's first 6 MP handheld SWIR camera:*

Advanced SWIR imaging meets an intuitive handheld design.


Introducing the Acuros GO – your gateway to unparalleled SWIR imaging. Incorporating SWIR Vision Systems' cutting-edge high-resolution CQD SWIR sensor technology, the Acuros GO is a dynamic, handheld camera designed for versatility in the field.


This battery powered, portable SWIR Camera makes the Acuros GO especially useful for imaging through degraded visual environments such as rain, snow, haze, smog, smoke, and dust. When combined with optical filters, the Acuros GO can be used to detect moisture, sugar content, hydrocarbons, and other infrared chemical signatures.

The Acuros GO opens a new world of photographic opportunities with the high resolution Vis-NIR-SWIR CQD sensor!


 **6MP Resolution**  
3064 x 2040, 7µm pixel sensor format


 **IP65 Rating**  
Rugged design for the field


 **Battery Powered**  
2 x 18650 cells

 **Touch Screen**  
Intuitive menu navigation

 **Proudly Made in America**

 **Digital Zoom**  
Make every pixel count

 **Auto-exposure/Auto-gain Controls**  
For dynamic lighting environments

 **DVR**  
For onboard recording and playback

 **Video and Image Capture**  
With MicroSD storage



| <b>Specifications:</b>              |  |
|-------------------------------------|--|
| Camera type                         | Shortwave Infrared Mirrorless Camera   |
| Sensor type                         | SWIR Vision Systems CQD® quantum dot SWIR sensor                             |
| Sensor active area                  | 21.4 mm x 14.3 mm  |
| Sensor diagonal                     | 25.7 mm  |
| Shutter                             | Snapshot global shutter  |
| Pixel pitch                         | 7 µm   |
| Image format                        | 3064 x 2040 pixels   |
| Resolution                          | 6.25 Megapixel   |
| Digital zoom                        | Yes  |
| Bit depth                           | 12 bit monochrome  |
| Spectral sensitivity (SWIR Option)  | 400 to 1700 nm   |
| Spectral Sensitivity (eSWIR Option) | 400 to 2000 nm   |
| Frame rate                          | 30 frames per second for video recording                                     |
| Auto-exposure                       | Automated exposure and autogain algorithms for dynamic lighting environments |
| Pixel correction                    | Automated non-uniformity algorithms  |
| Focus                               | Manual focus   |
| Video recording                     | HD video saved to microSD  |
| LCD touchscreen                     | 109 mm [4.3"] diagonal high brightness 800 x 480 RGB LCD touchscreen         |
| Camera controls                     | Control buttons and touch-sensitive screen menu                              |
| Control functions                   | Image snapshot, video recording stop/start, digital zoom, playback           |
| Power                               | 2 x 18650 rechargeable lithium-ion batteries                                 |
| Battery capacity                    | estimated minimum of 2 hours, typical usage scenarios                        |
| Storage media                       | microSD  |
| External display port               | micro-HDMI – available for real-time display or playback                     |
| Weight                              | 0.9 kg [2 lbs]   |
| Mounting                            | 1/4"-20 thread for tripod and handle mounts                                  |
| Shock, vibration                    | MIL-STD-810G   |
| Operating temperature               | -20C to +45C   |
| Storage temperature                 | -40C to +85C   |
| Thermal management                  | Single-stage TEC for sensor noise stabilization                              |
| Environmental survivability         | IP65 rating for dust, water ingress protection (camera body)                 |
| Lens mount                          | C-mount or M-42 at C back working distance (BWD)                             |
| Recommended lens                    | Manual 50mm, f/2.4, SWIR corrected, M-42 mount at C BWD                      |
| Camera dimension                    | 150 x 89 x 76 mm [6" x 3.5" x 3"]  |