UNCOOLED LWIR THERMAL CORE

# HULK 640

## High-resolution Uncooled Long-wave Kernel · 640 × 480 LWIR

A compact uncooled LWIR thermal imaging module for UAVs, perimeter security, robotics and industrial monitoring. Engineered, manufactured and supported in the European Union, with a 100% EU supply chain. Designed for OEM integration.

NDAA §889 COMPLIANT | ITAR-FREE | MADE IN THE EU | OEM READY

| 640 ×480 | ≤40 mK | 25 g | 24 mm |
|---|---|---|---|
| RESOLUTION | NETD | WEIGHT | MODULE WIDTH |

### SENSOR & IMAGING

| | |
|---|---|
| Detector type | Uncooled LWIR microbolometer |
| Resolution | 640 × 480 |
| NETD (thermal sensitivity) | ≤ 40 mK |

### MECHANICAL

| | |
|---|---|
| Weight | 25 g |
| Dimensions (with lens) | 24 × 24 × 20.5 mm |

### OPTICS

| | |
|---|---|
| Lens options | Custom optics on request |

### MANUFACTURING & SUPPORT

| | |
|---|---|
| R&D and engineering | Poznań, Poland |
| Service & recalibration | Poznań EU centre |
| EU service turnaround | ~2 weeks |
| OEM & custom config | Available |

### INTERFACES & INTEGRATION

| | |
|---|---|
| Digital video output | BT.656 · UVC · CMOS |
| Control interface | UART · I²C |
| Autopilot compatibility | PX4 · ArduPilot · proprietary |
| Custom firmware | Available (EU team) |

### COMPLIANCE & EXPORT

| | |
|---|---|
| NDAA Section 889 | Compliant |
| ITAR | ITAR-free |
| EU dual-use regulation | 2021/821 |
| Export category | 6A003 |
| Supply chain | 100% EU |

### TARGET APPLICATIONS

UAV / drone payloads | Perimeter security | Robotics | Industrial monitoring

Specifications reflect data published on euthermal.eu and are subject to change without notice. For OEM volumes, custom optics, housings and calibration profiles, contact EUthermal.