



24/7
Security
Solutions

Sii
INSIDE



Sii CORE^{UC+}

The SiiCORE^{UC+} longwave infrared (LWIR) thermal imager is Opgal's newest standard for size, weight, power, and performance (SWaP) in thermal imaging cores. When space, weight, and power are critical, the SiiCORE^{UC+} provides the ideal solution – without compromise.

Key Features



High Sensitivity

NETD of <50mK for a clear and high-contrast image.



External Sync

For seamless integration (SDK included).



TEC-less Operation

Uncooled detector with multiple lens configurations.

Key Benefits



SWaP

A miniature core, ideal for mini-sized applications.



Raw Data Processed by User

Enabling hosts to perform advanced video-image processing & analytics.



Proven Operational Experience

Thousands of operational units deployed worldwide.



Drones

Airborne thermal sensors enable security teams to monitor vast areas. Equipped with a thermal imager, drones can be utilized for environmental monitoring, industrial monitoring, infrastructure inspection, etc.



Industrial

Designed to meet MIL-STD compliance, EyeR Core can be integrated into Local Situational Awareness and Driver Vision Enhancement Systems, improving operational capabilities.



UGV / ADAS

Unmanned Ground Vehicles allow police and security forces to perform their duty from a safe distance. When installed in Advanced Driver Assistance Systems, thermal imagers help drivers see road conditions clearly, regardless of visibility conditions.



Precision Agriculture

Drone technology is used in precision farming, to take multi-spectral images of crops, used to analyze and optimize inputs such as water, fertilizer or chemicals, etc.; thus assisting site-specific crop management.

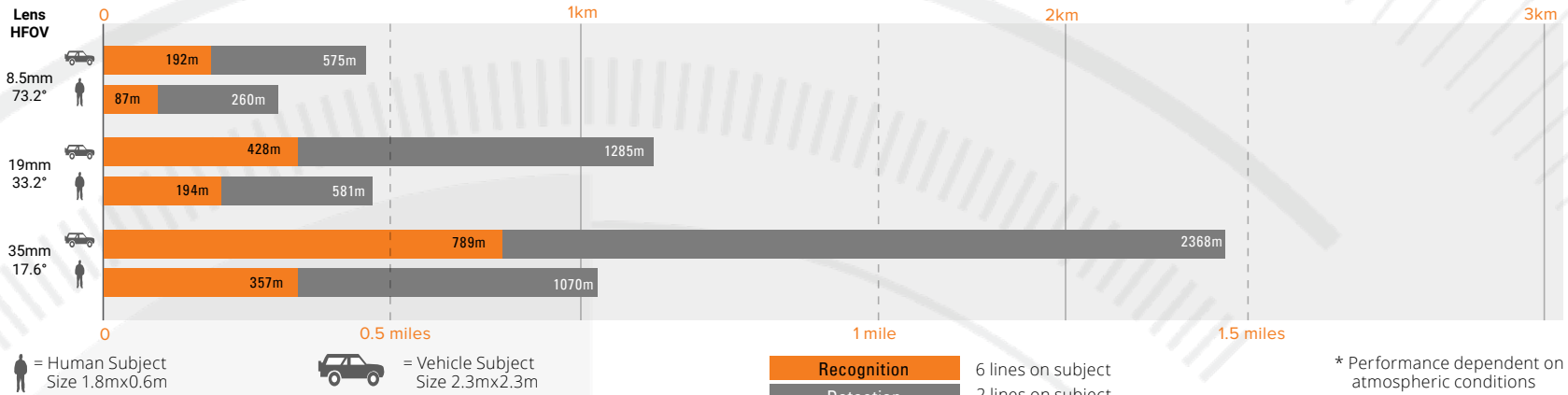




Security
OEM Solutions



Sii CORE^{UC+}



Specifications Overview



Imager Type

17 μm, α-Si microbolometer
8-14μm



Latency (for NUC+BPR)

<1 frame



Lens Options

Athermalized, Fixed Focus
8.5mm/35mm/19mm/



Protocol

Opgal USB SDK ;
Opgal A8



Resolution

640x480



Environmental

MIL-STD-810G



Interface Card

12VDC; USB2, RS-232,
Ext Sync



Frame Rate

25Hz



Sensitivity

≤50mK



Shutter

Shutterless
(After Startup)



Power Consumption

5VDC, 1W (via USB)



TEC-Less Operation

Yes



Video Output

USB2, 16bit, 25Hz
(NUC+BPR upload by user)



Control Interface

USB2; RS-232



Dimensions

31.3H × 31W × 31L mm
(without interface card)



Weight

~80gr.
(without interface card)



CLICK HERE FOR FULL SPECS
or go to <https://www.opgal.com/oem-cameras-security/>

