EYE R640™ Ver4 (17µm pitch detector)

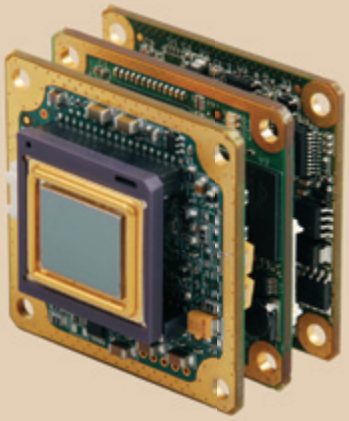
Introducing the New Generation Uncooled Thermal Imaging Engine

Description

Opgal's next generation 17µm micro bolometer thermal imaging engine platform is especially designed for better, smaller, cheaper integration by OEM clients who gain double the resolution. With an advanced, DSP-based platform, the engine supports a 17µm ASi microbolometer detectors of medium format 640x480 pixel.

Flexibility

Opgal designed this off-the-shelf engine for easy integration to the specific needs of OEM clients and a large variety of military and civil applications. Software and firmware modules can be easily developed and modified to any specifications. Due to the engine's user - friendly interface and attractive size, it can be integrated cost-effectively into small-size applications, a key marketing advantage for military applications. The Eye R640™ ver4 supports the most advanced motorized lenses based on continuous zoom or dual FOV and equipped with automatic focus algorithms.



Performance

This engine offers the Opgal advantage by utilizing Opgal's best-in-class Image Processing capability, running on a DSP platform. It is designed to produce high-performance, high-resolution images, using a powerful set of signal processing algorithms.

Power

The Eye R640™ ver4 is designed for low power consumption due to its power save design structure. Using detectors in TECLESS mode (No Thermo Electric Cooler) results in low and constant power consumption in all ambient temperatures.

Integration

Easy system integration is the hallmark of the EYE R640™ ver4. Its design supports multiple communication protocols and physical interfaces.

Quality

This cutting-edge engine meets the strictest military standards and is designed to withstand harsh environmental conditions.

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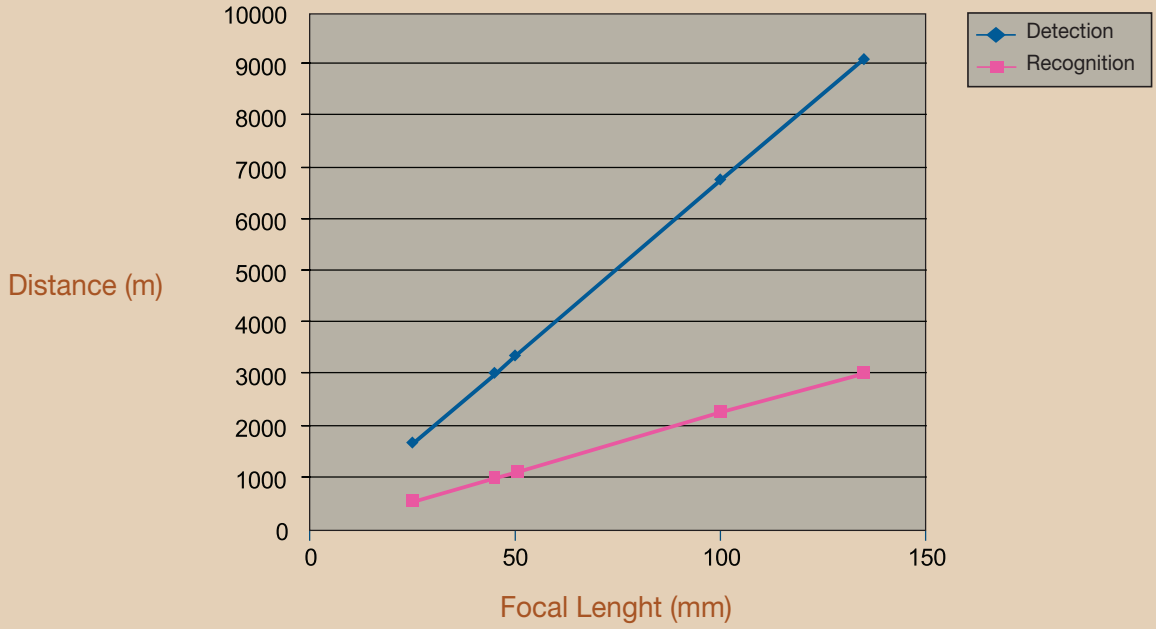
Technical Data

Features	Description / Performance
Detector	17µ, 640x480, AmSi microbolometer 8-12µm, 70mK NETD (25° F#1)
Power	Input Voltage 8-28 VDC. Power consumption max <2.5W @ room temp.
Dimension	41mm X 54mm x 48.5mm (HxWxL), weight < 160gr.
Mode of Operation	Tecless
Communication Protocol	Opgal/Pelco D protocol over RS232/RS422
Video Output	Analog CCIR or RS-170.
Image Processing	NUC, BPR, time domain filter, edge enhancement, enhanced DRC, Auto Focus, Digital Zoom Continuous X0.9 – X12
Customization Options	Easy embedding of Customer Application Customizable menus, logo, colors. Customizable Graphic overlay & reticules Upgradable computing power (Optional)
Environment	Temp -40° - 60° C MIL-STD 810F MIL-STD 461D
Time to image	< 3 seconds



Note: data calculated for r2.3x2.3 NATO target

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