



APPLICATION STORY

FLIR Atlas SDK helps Sky Eye Innovations

Building the thermal imaging solutions their customers need.

Swedish company Sky Eye Innovations builds software solutions that simplify the process of working with thermal imaging cameras and helps companies to get more out of their thermal images. The company relies heavily on FLIR's Atlas Software Development Kit (SDK) to build solutions that are tailored to customer needs.

Thermal imaging has revolutionized many industries by making it possible for inspection professionals to see and monitor heat energy that is invisible to the naked eye. But just being able to see that thermal energy is not always enough. To be supportive for decision-making and to really make a difference in terms of business productivity, users need tailor-made solutions that allow them to collect, assess and process thermal images in an easy way.

THERMAL IMAGES TO SUPPORT DECISION-MAKING

Swedish thermal imaging specialist Sky Eye Innovations has clearly understood that thermal imaging systems need to bring added value. The company has its roots in the development of unmanned aerial systems for thermographers. Building aerial systems for a wide variety of thermal imaging and gas imaging applications, Sky Eye Innovations has been focusing on developing integrated solutions that can deliver thermal images and data to support decision making.

FLIR ATLAS SDK

Today, the company is increasingly shifting its focus from a hardware-based product portfolio towards customized software solutions for the support of thermal imaging. In order to build those software applications efficiently, Sky Eye Innovations relies heavily on FLIR's Atlas Software Development Kit (SDK).

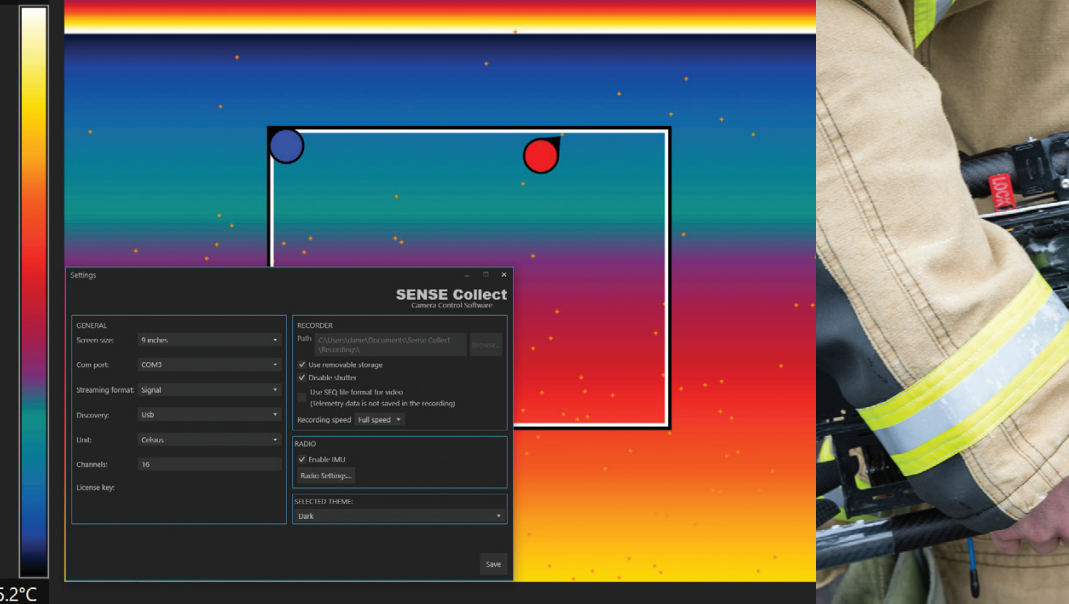
The FLIR Atlas SDK for .NET enables software developers to interpret FLIR sensors and to create applications with FLIR-provided files and sample code. This way, developers can easily add FLIR functionality or collaborate with other FLIR products by adding their own code to get the result they want in their application.

CEO and Sky Eye Innovations co-founder Daniel Sällstedt says that the FLIR Atlas SDK has become a critical component for the company for the development and delivery of platform-specific software.

"The FLIR Atlas SDK allows us to develop software that adds true value for our customers. By supporting them in the phase of data collection, analysis, reporting or decision-making, we enable organizations to become more efficient, to reduce costs and to be more productive."



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One of the software applications that has been developed based on FLIR's Atlas SDK is Sense Collect. This software gives users advanced remote control over their high-end thermal sensors.

Controlling airborne sensors

One of the software applications that has been developed based on FLIR's Atlas SDK is Sense Collect. The Sky Eye Sense Collect camera controller gives users advanced remote control functionality for their high-end thermal sensors and allows them to collect valuable thermal data for analysis and predictive maintenance.

With Sense Collect, users can stream their thermal video live, remotely navigate through preset palettes and measurement profiles, set temperature ranges and record radiometric data together with high-resolution visual video.

The Atlas SDK supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces and gives the user control over the most essential functionality of the thermal imaging camera. Daniel Sällstedt also says that it is relatively easy for developers to use Atlas functionalities in a .NET environment and to manipulate thermal images and sequences.

Support for wide range of cameras

One of the strengths of the FLIR Atlas SDK is its support for a wide range of FLIR cameras, from the lower-end handheld FLIR cameras to advanced automation and optical gas imaging models. "The FLIR Atlas SDK has added a new dimension to the way our customers can use thermal imaging cameras in their unmanned aerial systems," says Daniel Sällstedt. "Now they can connect their system to practically any FLIR thermal camera, in function of their budget and requirements."

The FLIR Atlas SDK is now compatible with a wide range of cameras including FLIR's T-Series of high-end handheld thermal cameras, the A-Series of fixed automation cameras, the GF-Series of optical gas imaging cameras, the affordable Ex- and Exx-Series, and even the pocket-portable C2 thermal camera.

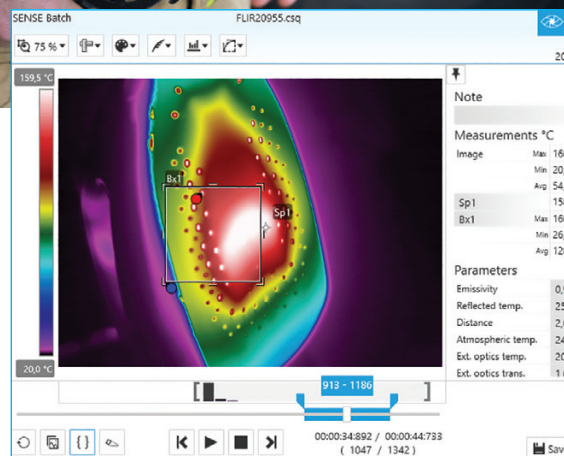
Software provider

Sky Eye Innovations has been developing thermal imaging systems for a wide range of industries, including solar panel and wind turbine inspection, oil and gas pipeline inspection, infrastructure inspection, monitoring of electrical systems and power lines, agriculture, and many more. This vast experience has enabled Sky Eye Innovations to grasp the needs of its customers very well and helped the company to transition from a hardware-focused company to a software solution provider.



"The Atlas SDK has been an essential driving force for us to accelerate this transition," says Daniel Sällstedt. "The SDK enables us to bring our solutions to the market faster and more efficiently."

In addition to the Sense Collect software, Sky Eye Innovations also released Sense Batch, a software package that automates the processing of thermal images, even with smaller volumes of images and sequences. This allows users to simplify the work they do every day and to reduce valuable resources.



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And there's still more on the Sky Eye Innovations road map. For the near future, the company is planning additional features and capabilities to its current software portfolio, as well as new software packages that will make it easier to work with thermal images. The FLIR Atlas SDK will continue to support Sky Eye Innovations in these development efforts.

"The support from FLIR has been fantastic," says Daniel Sällstedt. "The company has always supported us in our efforts to bring relevant products and intelligent thermal software to the market. For Sky Eye Innovations, FLIR Systems is an essential partner in our business ecosystem."



FLIR Atlas SDK supports a wide range of FLIR cameras, from the lower-end handheld cameras to FLIR's advanced automation and optical gas imaging models.