



TECHNOLOGY DESCRIPTION

The device is a compact, lightweight, long-life, and low-cost multispectral imager, suitable for all professional small satellite platforms. Covering the surface continuously line-by-line (pushbroom principle), the imager enables the precise acquisition of Earth data using five spectral bands (440 nm to 850 nm). The multispectral scanner weighs approximately 45 kg and operates within a temperature range of -10° C to 30° C.

This sensor technology is of high interest for use on other platforms (e.g., UAVs, HAPS) and is useful for various terrestrial applications, particularly in agriculture.



INNOVATIVE ASPECTS

The space-proven technology operates in five spectral channels, providing pin-sharp multispectral and high-resolution images, and covering the wavelength range from visible to near infrared. This makes the sensor especially helpful for environmental monitoring, disaster management, and digital farming. The imager is part of the first constellation considered the starting point for a new generation of small, high-performance Earth observation satellites.



TECHNOLOGY READINESS (in space application)

TRL 9 (2024)

COUNTRY OF ORIGIN

Germany

LATEST UPDATE

06/2024

TAGS

#imager

#multispectral

#compact

#Earth observ.

#high resolution

#UAV

APPLICATION AREAS

Aviation

Food & Agriculture

Data Processing, Software & AI

Electrical & Electronic Engineering

Environment & Natural Resources

Chemical Engineering & Biotechnology

Safety & Security

SPACE
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TECH CARD

