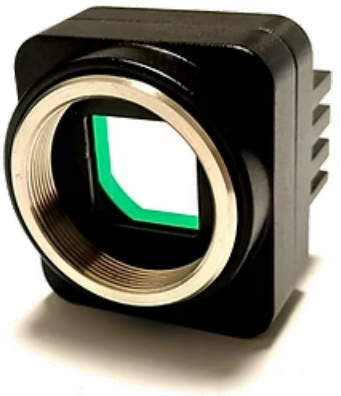
CICADA Cameras - 1.3MP

SWIR SPECTRAL RANGE

Snapshot Multispectral Cameras

CICADA[9] - 9 spectral bands

CICADA[16] - 16 spectral bands



1100-1700nm spectral range
9 or 16 spectral bands
5 microns pitch
1.3MP raw resolution
USB 3.0



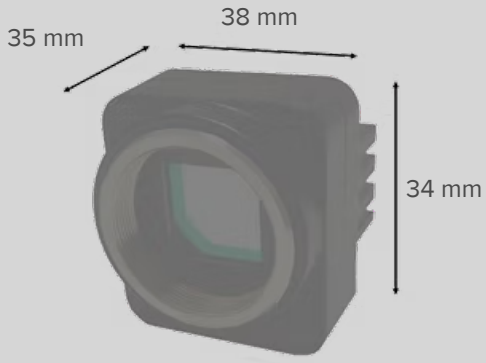
Datasheet CICADA[9]

Datasheet CICADA[16]

HIGH SPATIAL RESOLUTION FOR YOUR SWIR MULTISPECTRAL IMAGING

High Resolution SWIR Multispectral Cameras

The CICADA Multispectral cameras are specially designed to allow high integration of SWIR multispectral systems in industry. These lightweight (70g) and very small footprint (34x38x35mm) cameras split the image into 9 or 16 spectral bands on the SWIR range (1100-1700nm). Made by hybridization of a custom Bayer-like mosaic filter on a commercial 1.3MP InGaAs Sensor, they allow extracting the spectrum on each point of the image with a high spatial resolution.



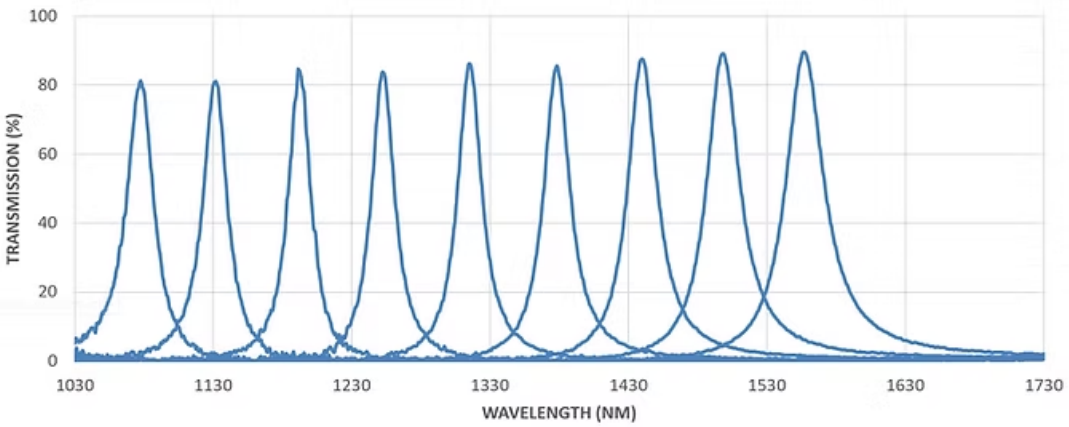


Source: https://www.silios.com/cicada-cam — captured 2026-10-08 — manufacturer webpage, not a standalone datasheet

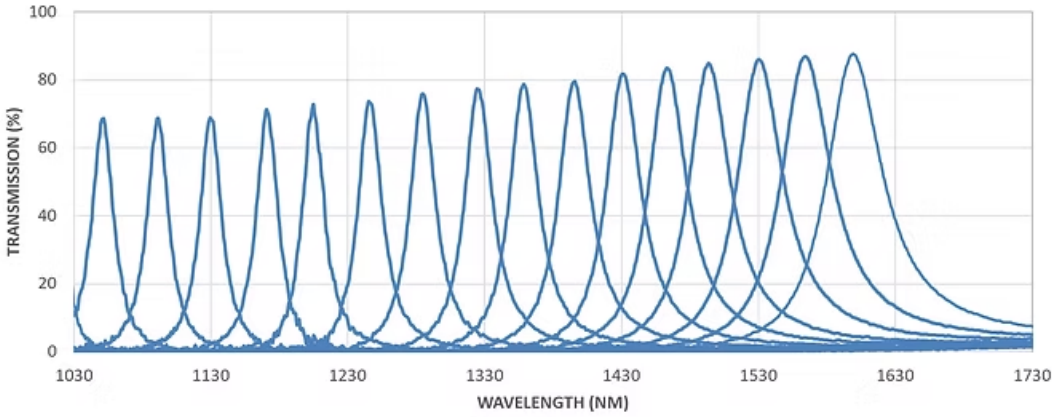
CICADA 1100-1700 nm

Typical CICADA filter transmission spectrum

CICADA[9] - 9 spectral bands



CICADA[16] - 16 spectral bands



Specifications

Common

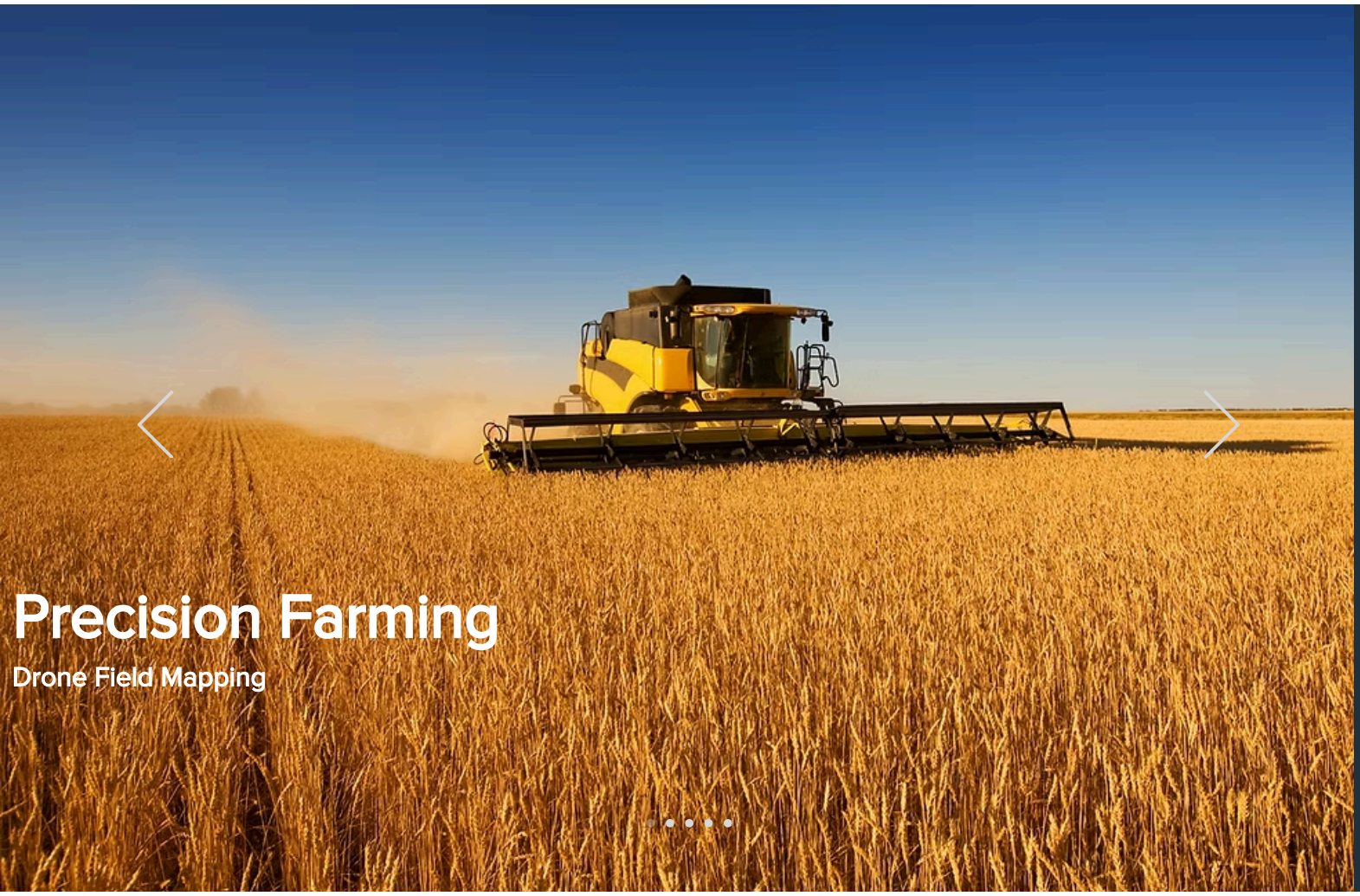
Array type	InGaAs
Optical Interface	CS-mount (C-mount compatible with additional C-ring)
Resolution (raw picture)	1296 (H) x 1032 (V)
Resolution (spectral pictures)	432 (H) x 344 (V) for CICADA[9] / 320 (H) x 256 (V) for CICADA[16]
Pixel pitch	5 µm
Maximum frame rate	68 Hz (camera acquisition) / 68 Hz (*COLOR SHADES Lab*)
Exposure time range	33 µs to 10 s
ADC	12-bit

Camera control	USB 3.0
Digital output	12-bit USB 3.0
Power supply	USB 3.0
Dimension (W x H x L)	34 x 38 x 35 mm
Weight (camera head)	70 g

Spectral Specifications

Typical Spectral Range	1100 to 1600 nm
Number of bands	9 for CICADA[9] / 16 for CICADA[16]
Bandwidth (FWHM avg)	35 nm

Source: https://www.silios.com/cicada-cam — captured 2026-10-08 — manufacturer webpage, not a standalone datasheet



Software Development Kit (SDK)

COLOR SHADES ® LAB

COLOR SHADES® LAB is the SDK for the SILIOS multispectral cameras (CMS, CMS4, TOUCAN and ANT). It allows :
1) displaying the raw images, false color images, gray scale images or overlaid images with different indexation methods (such as "spectrum recognition"),
2) normalizing the spectral channels,
3) applying multispectral image corrections such as the crosstalk correction,
4) extracting the hypercubes.

COLOR SHADES® LAB runs with real time acquisition, but can also run with recorded single image or series of images (“replay mode”).

COLOR SHADES® LAB supports any of the SILIOS cameras and recognizes each plugged one via its S/N number. The specific spectral data of the corresponding multispectral sensor are then used for spectral corrections and treatments.

COLOR SHADES® LAB is supplied **for free** with any purchased multispectral CMS/CMS4 camera.



Source: https://www.silios.com/cicada-cam — captured 2026-10-08 — manufacturer webpage, not a standalone datasheet

Downloads

Features

Datasheets

Application Notes

More information ? **Contact us !**

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N° TVA intracommunautaire : FR29438925232

Site créé par SILIOS sur WIX

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