

Item no.: 358640

## Nicla Vision Camera

from **114,84 EUR**

Item no.: 358640  
shipping weight: 0.10 kg  
Manufacturer: Arduino

### Product Description

Nicla Vision allows you to build your next smart project. Ever wanted an automated house? Or a smart garden? Well, now it's easy with the Arduino IoT Cloud compatible boards. It means: you can connect devices, visualize data, control and share your projects from anywhere in the world. Whether you're a beginner or a pro, we have a wide range of plans to make sure you get the features you need.

Nicla Vision combines a powerful STM32H747AI6 Dual ARM® Cortex® M7/M4 IC processor with a 2MP color camera that supports TinyML, as well as a smart 6-axis motion sensor, integrated microphone and distance sensor.

You can easily include it into any project because it's designed to be compatible with all Arduino Portenta and MKR products, fully integrates with OpenMV, supports MicroPython and also offers both WiFi and Bluetooth® Low Energy connectivity. It's so compact – with its 22.86 x 22.86 mm form factor – it can physically fit into most scenarios, and requires so little energy it can be powered by battery for standalone applications.

All of this makes Nicla Vision the ideal solution to develop or prototype with on-device image processing and machine vision at the edge, for asset tracking, object recognition, predictive maintenance and more – easier and faster than ever. Train it to spot details, so you can focus on the big picture.

- Microcontroller: STM32H747AI6 Dual Arm® Cortex® M7/M4 IC: 1x Arm® Cortex® M7 core up to 480 MHz; 1x Arm® Cortex® M4 core up to 240 MHz
- Sensors: 2 MP color camera, 6-axis IMU (LSM6DSOX), distance/time of flight sensor (VL53L1CBV0FY/1), microphone (MP34DT05)
- I/O: Castellated pins with the following features: 1x I2C bus (with ESLOV connector), JTAG, Power and GPIO pin headers; 1x serial port; 1x SPI; 2x ADC; Programmable I/O voltage from 1.8-3.3 V
- Power: High speed USB (480 Mbps); Pin header; 3.7 V Li-po battery with integrated battery charger and fuel gauge (MAX17262REWL)
- Dimensions: 22.86 x 22.86 mm
- Memory: 2 MB Flash / 1 MB RAM; 16 MB QSPI Flash for storage
- Security: NXP SE050C2 Crypto chip
- Connectivity: Wi-Fi / Bluetooth® Low Energy 4.2 (Murata 1DX - LBEE5KL1DX-883)
- Interface: USB interface with debug functionality
- Operating temperature: -20°C to +70°C (-4°F to 158°F)

### Specifications

**Scan this QR code to  
view the product**  
All details, up-to-date  
prices and availability

