

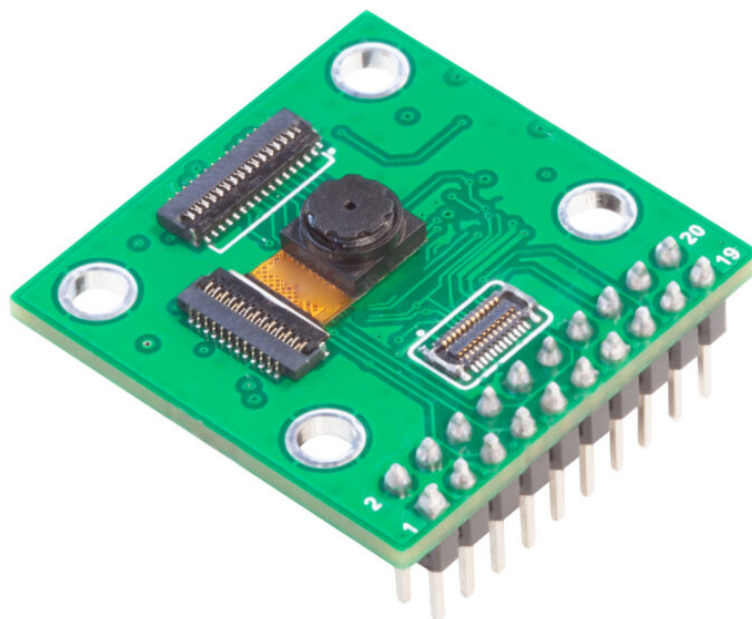
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ArduCam

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SKU



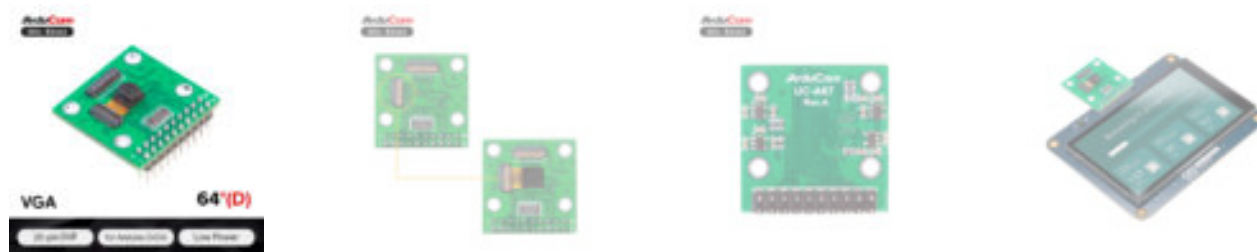
VGA

64°(D)

20-pin DVP

for Arduino GIGA

Low Power



OV7675 VGA Color 20-pin DVP Camera Module for Arduino GIGA R1 WIFI Board

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- Efficient & Compact & Ultra-Low Power Consumption MCU Solution.
- Arduino® GIGA Display Shield and GIGA R1 WIFI Board Compatible.
- Simple for All: Set up and access with simple operations.
- High Precision: Strong power for precise visual analysis.
- Low Consumption: Low power consumption to save more.

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Overview

The camera is based on OmniVision 0.3MP OV7675 image sensor, which excels in image capture with its advanced features and exceptional performance. Its pixel array captures intricate details with precision and clarity, while its low-light imaging capabilities reveal hidden elements in challenging lighting conditions.

The low consumption camera module is equipped with a 63.9°(DFOV) stock Lens. It supports RAW/

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to Arduino's professional-grade microcontroller development boards. Seamless integration empowers the camera module, unlocking versatile image capture and processing capabilities. Leverage the combined strength of this camera module and Arduino GIGA R1 with GIGA Display Shield for a competitive edge in your projects.

Applications

- Machine/Computer Vision
- Robotics
- IoT
- Digital Fabrication
- Real-time Processing

Features

- Cost-Effective Vision Solution: Affordable and compact, ideal for budget-friendly projects integrating vision capabilities.
- Wide Compatibility: Pair with the GIGA Display Shield (not included) for an intuitive interface, simplifying camera setup and real-time monitoring.
- Simplify Embedded Vision for All: Easy to set up and operate. Making it possible to add machine vision to your GIGA R1 board without much effort at all.
- High Precision: Captures images with high resolution and detail, allowing for precise visual analysis.
- Low Power Consumption: Efficient power usage, making it suitable for battery-powered and energy-efficient applications.

Specifications

Image Sensor	OV7675
Resolution	VGA
Optical Size	1/9"
Number of effective pixels	640(H) × 480(V)
Pixel Size	1.75µm × 1.75µm
Support Platform	Arduino GIGA R1 WIFI Board

Image Sensor	OV7675
Color Filter Array	Quad-Bayer RGB
Frame Rate	640×480/320×240/160×120@15fps
Output Format	RAW RGB/YUV422/RGB565
F.NO	2.8±5%
Focus Distance	2.7m – ∞
Focal Length	1.75mm
Field of View(FOV)	63.9°(D)
Power Supply	AVDD: 2.7VA ~ 3.0V; DOVDD: 1.7V ~ 3.0V; DVDD: 1.8V
Operating Temperature	-30~70°C
Camera Board Size	30.5mm x 30.5mm

Package Including

- 1 x Arducam VGA OV7675 Camera Module with 20-pin DVP Camera Board

Notes

- No platform board is included in the package

Documentation

- [Quick Start Guide for Arducam Camera on Arduino GIGA R1](#)
- [Datasheet](#)

Video



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