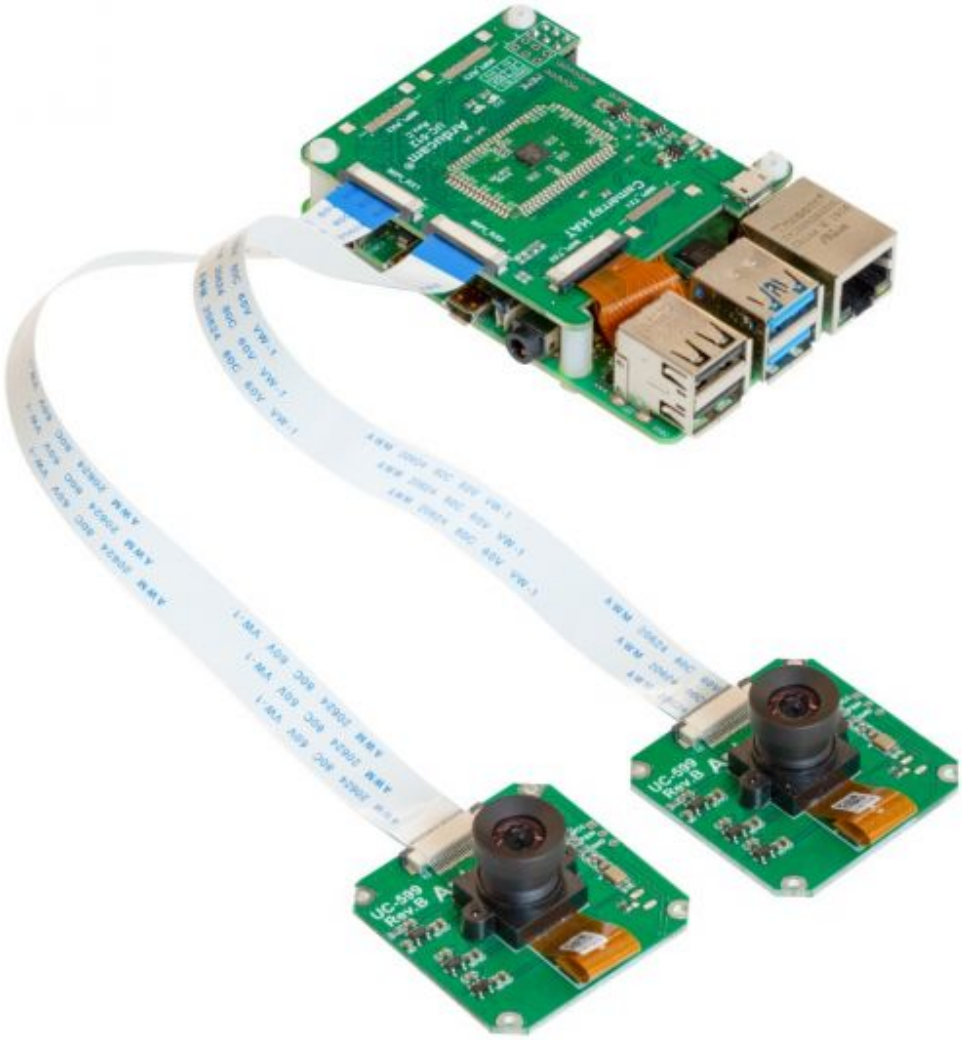

Arducam 1MP*2 Stereoscopic Camera Bundle Kit for Raspberry Pi, Nvidia Jetson Nano/Xavier NX, Two OV9281 Global Shutter Monochrome Camera Modules and Camarray Stereo Camera HAT

SKU#: B0266

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Details

Item Description:

This Arducam stereo camera bundle kit consists of two synched OV9281 global shutter cameras and an Arducam Camarray stereo camera HAT. As a stereo bundle system, it enables simultaneously working dual cameras with a variable baseline for better prototyping and evaluation with a single MIPI CSI camera slot: The two image sensors are on separated camera boards, and you easily move them around for different perspectives while the Camarray HAT handles the rest of the work. This is helpful for proof-of-concept stages when you may want more flexibilities than what a fixed stereo camera module can offer. You will be able to find the optimal baseline for your application with this bundle, and we welcome you to send us product customization requests after that.

Applications:

- Head, and eye tracking
- Gesture detection
- Motion detection
- 3D reconstruction
- Depth-related vision applications

Note:

- Raspberry Pi board is not included in the package.
- This bundle kit is not recommended for Raspberry Pi Zero.

Key Specifications:

- Camarray Stereo Camera HAT

- Support Raspberry Pi 3B/3B+/4B and Jetson Nano/NX
- Two MIPI camera inputs and one MIPI camera output
- Support 1/2 lane MIPI cameras input up-to 1Gbps/lane
- Support 2 lane MIPI output up-to 1Gbps/lane
- Support RAW8/RAW10/RAW12 output format, the output format automatically changes with the input format
- Support standard V4L2 framework, Video Nodes and Controls (Exposure, Gain and depending on camera parameters)
- Support Arducam cameras up to 16MP with proprietary camera driver with full resolution combine
- Support camera side-by-side combine, channel 0 and channel 1 software switching on the fly
- HAT Size: 65 x 56 mm

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- Camera

- Sensor: Monochrome global shutter OV9281
- Pixel Size: 3 μm x 3 μm
- Active Array Size: 1280 x 800
- Optical Size: 1/4 inch
- Focusing Range: 30mm ~ infinite
- IR Sensitive: No IR filter, sensitive to IR
- Output interface: 2-lane MIPI serial output
- Video Modes: 8-bit RAW, 90fps@1280*2 × 800 with Arducam driver on Jetson Nano/Xavier NX; 60fps@1280*2 × 800 with Arducam driver on Rpi
- Board Size: 40mm x 40mm

- Lens

- Optical Format: 1/2.7”
- Distortion: <1%
- Effective Focal Length: 2.8mm
- FOV on 1/4” RPi Camera: 70° (H)
- F/NO: 2.8
- Mount: M12
- Size: 14mm x 15.6mm
- Weight: 4g
- Default: low distortion M12 lens (Part Number: M27280M07S)

Package Including:

- 2 pcs 1MP OV9281 global shutter camera module with low distortion M12 lens
- 1 pcs Arducam Camarray stereo camera HAT
- 2 pcs 150mm/6inch 22pin to 22pin camera cables
- 1 pcs 300mm/12inch 15pin to 22pin camera cable
- 1 pcs 73mm/2.87inch 15pin to 22pin camera cable
- 4 pcs M2.5*10mm Nylon Hex Standoffs
- 4 pcs M2.5 Nylon Nuts
- 4 pcs M2.5*6mm Nylon Screws

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Documentation:

Used on Pi: Camarray – Arducam 1MP Stereoscopic Camera Bundle Kit

Used on Jetson Nano: Camarray – Arducam 1MP Stereoscopic Camera Bundle Kit

Camarray: Stereo Vision Solutions for Embedded Systems (Pi, Jetson Nano/Xavier NX and more):

BLOG:

Introducing Camarray: Arducam's New Solution to Multiple Cameras on Embedded Systems and Edge Devices for 2021

Reviews

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