BILL OF MATERIALS

* OV9281 x2
* 7C-24.000MBB-T x2
* TLV73318PDBVT x3
* BSS138AKA x1
* WE\_68715014522 50-pin header x1
* M11 lenses x2
* 9774030243R spacers x4
* NTS0104BQ x2
* MLP2012S3R3MT x6

**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

**- 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