# ArduCam

# Pi Hawk-eye™

## 64MP Autofocus Camera
### for Raspberry Pi
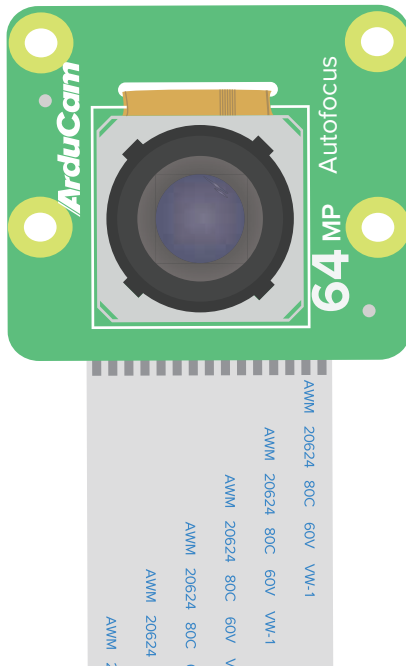
# Overview
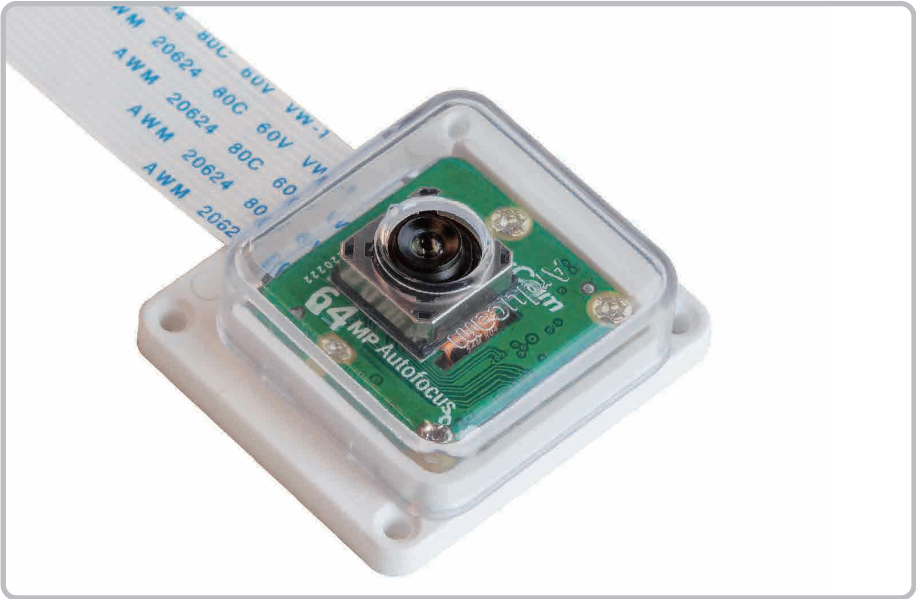


**Pi Hawk-eye is a 64MP, ultra high-resolution autofocus camera module exclusively built for the latest and future generations of Raspberry Pis.**

By bringing a sensor inside modern-day flagship phones to Raspberry Pi, you can take DSLR-like still images at the maximum resolution esolution of 9152 x 6944. And with an autofocus lens, the ePTZ, and the upcoming continuous-autofocus features, you now get more horsepower to build more applications, to cover more industries, to unlock more fields, at a much lower cost.

For seasoned makers, Pi Hawk-eye is designed to ensure you a smooth upgrade, it is compatible with everything you already have: the v1/v2 form-factor, the MIPI CSI-2 connection, the latest libcamera software, the standard tripod mount, etc.

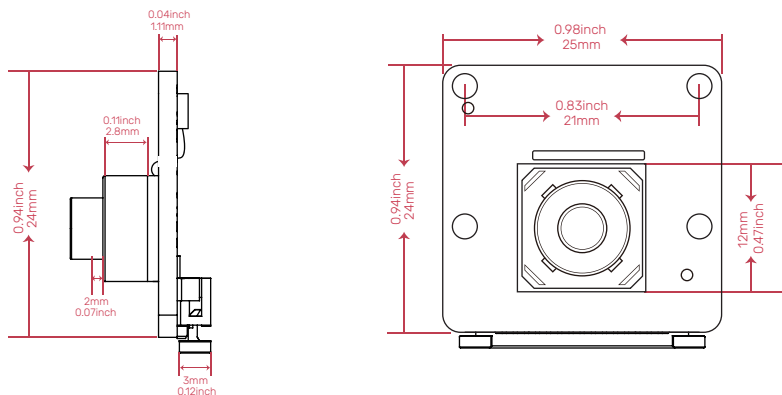Even if you are using Raspberry Pi for the first time, you can follow the hands-on guide without hassle.

The package comes with a camera board and a 15cm cable by default, there is also an optional camera enclosure, with a built-in tripod mount, that is also compatible with V1 and V2 cameras.

# Specification

**Sensor:** Sony back-illuminated sensor
64 megapixels
0.8 μm × 0.8 μm pixel size
support 2×2 binning to 1.6μm Super Pixel.
9.25 mm diagonal (Type 1/1.7″)

**Output:** JPEG/YUV/RGB/RAW10

**Lens:** Autofocus, f/1.8
EFL: 5.1
FoV: 84°
Focus Range: 8 cm ~ infinite

**IR cut filter:** Integrated

**Tripod mount:** 1/4"-20

**Enclosure (optional):** ABS, also compatible w/ camera module v1 & v2.

**Ribbon Cable Length:** 150mm

▲ The sensor natively supports RAW10, but with Raspberry Pi's ISP you can also get JPEG/YUC/RGB.

# Physical specifications

0.04inch
1.11mm

0.11inch
2.8mm

0.94inch
24mm

2mm
0.07inch

3mm
0.12inch

0.98inch
25mm

0.83inch
21mm

0.94inch
24mm

12mm
0.47inch

## Safety instructions

### First-time using a Raspberry Pi camera? Please note:

- Before connecting, you should always power the Raspberry Pi off and remove the power supply first.

- Make sure the cable on the camera board is locked in place.

- Make sure the cable is correctly inserted in the Raspberry Pi board's MIPI CSI-2 connector.

- Avoid high temperatures.

- Avoid water, moisture, or conductive surfaces while in operation.

- Avoid folding, or straining the flex cable.

- Avoid cross-threading with tripods.

- Gently push/pull the connector to avoid damaging the printed circuit board.

- Avoid moving or handling the printed circuit board excessively while it's in operation.

- Handle by the edges to avoid damages from electrostatic discharge.

- Where the camera board is stored should be cool and as dry as possible.

- Sudden temperature/humidity changes can cause dampness in the lens and affect the image/video quality.

# Pi Hawk-eye
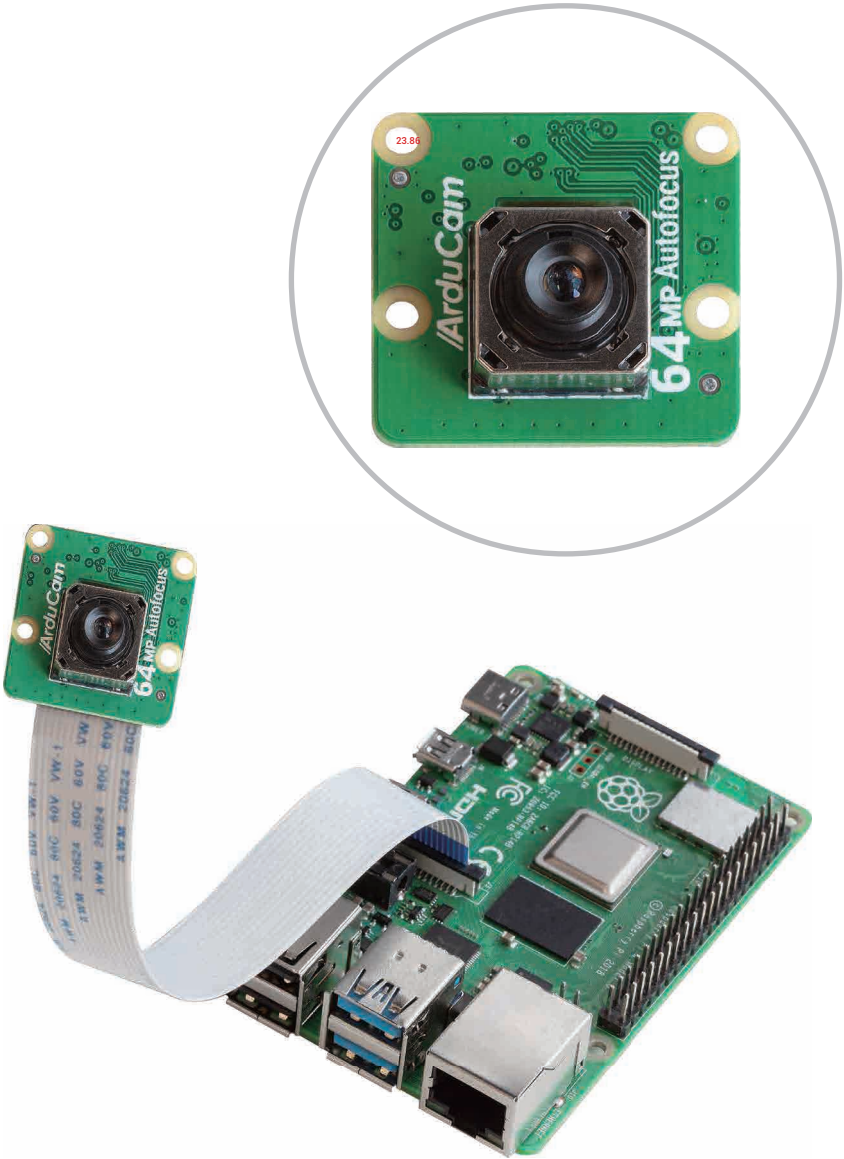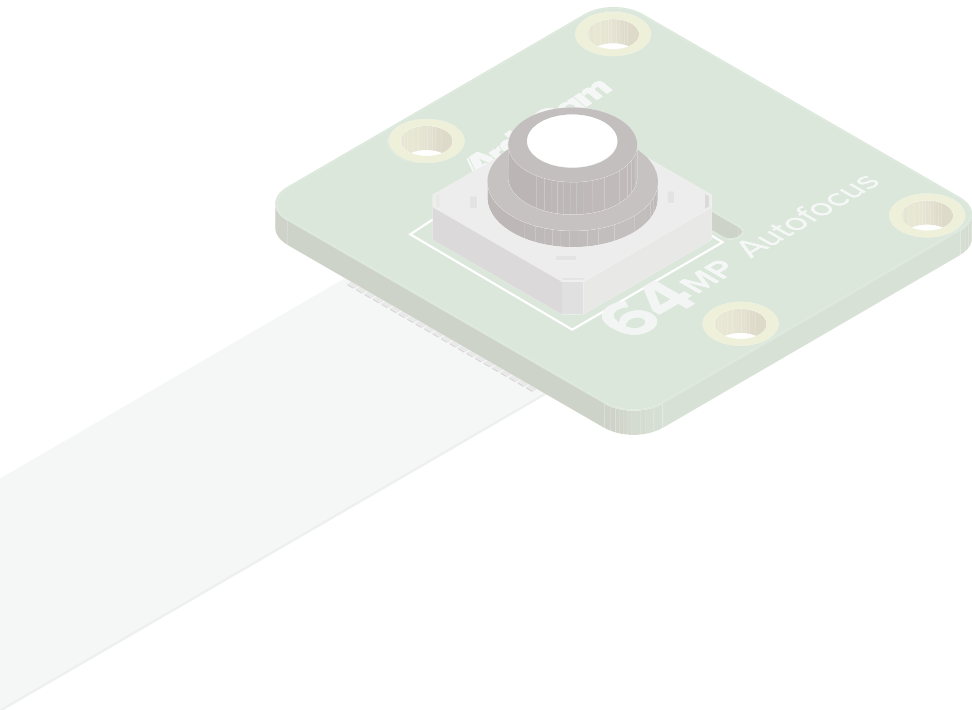
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