



16MP Autofocus Camera Module For Raspberry Pi

Is the camera enclosure included?

The product is available with or without the enclosure. Please select your preferred option at the time of purchase.

Is this camera compatible with all Raspberry Pi Models?

Any Pi model that has a MIPI connector can use this camera. We suggest using Raspberry Pi 2 and later models.

Is the IR-cut filter removable? Or will there be a NoIR version?

No, you can not remove the IR-CUT filter. A NoIR version will be available in 2022.

Which image sensor is it?

It's a Sony IMX519. This is a popular smartphone sensor.

What's the size of the sensor?

The camera has a 7.103 mm (1/2.534") diagonal image size. It's also a back-side illuminated sensor, just like the Raspberry Pi HQ camera.

What is the highest resolution and frame rate?

They certainly reach higher resolutions and fps. But here're the video modes you can get with Raspberry Pi:

1920×1080@30fps

1280×720@120fps

Is 4K at 30fps possible?

You can capture 4656×3496 still images. But for video, it's impossible with a Raspberry Pi.

The camera itself is capable of capturing 4K@30fps video, the Pi is the bottleneck.

Does it support HDR photo/video capture?

Yes, it supports SME-HDR with equivalent full pixels.

What's the minimum focus distance?

The closest you can get is 10cm. Focus range of this camera: 10cm ~ ∞.

What's the FoV of the onboard lens?

The lens on this camera has an 80° viewing angle.



What's the longest allowed exposure time?

200 seconds.

Is it compatible with all the camera housings/mounts designed for V1/V2?

Yes. It has the same board design, it is compatible with any camera enclosures that work with V1 or V2.

Can I use it as a webcam?

You can turn it into a high-resolution webcam with any Raspberry Pi, there're plenty of tutorials you can follow.

Can I use it on my telescope?

With a bit of modification, yes. We have seen many astrophotography projects with the official Pi cameras, you can follow the same instructions.

Can I use this camera module with hardware other than Raspberry Pi?

Support for Nvidia Jetson Nano/Xavier NX boards is now out.

Can I use it with longer flex cables?

300mm FPC cables can still work. If you want the cable to be longer, use it with the CSI-to-HDMI adapter.

Does it work with the CSI-to-HDMI adapter?

Yes, you can use it with our CSI-to-HDMI adapter for longer cable lengths.