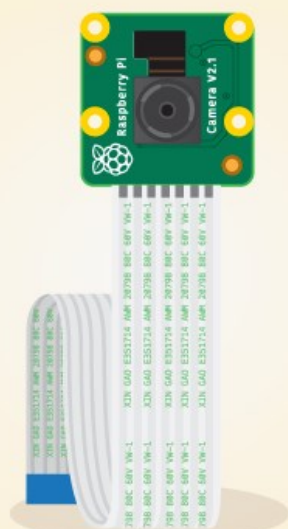




CAMERA MODULE V2



The Raspberry Pi camera module v2 replaced the [original camera module](#) in [April 2016](#). The v2 camera has a Sony IMX219 8-megapixel sensor (compared to the 5-megapixel OmniVision OV5647 sensor of the original camera).

The camera module can be used to take high-definition video, as well as stills photographs. It's easy to use for beginners, but has plenty to offer advanced users if you're looking to expand your knowledge. There are lots of examples online of people using it for [time-lapse](#), [slow-motion](#) and other video cleverness. You can also use the libraries we bundle with the camera to create [effects](#).

You can read all the gory details about [IMX219](#) and the [Exmor R](#) back-illuminated sensor architecture on Sony's website, but suffice to say this is more than just a resolution upgrade: it's a leap forward in image quality, colour fidelity and low-light performance. It supports 1080p30, 720p60 and VGA90 video modes, as well as still capture. It attaches via a 15cm ribbon cable to the CSI port on the Raspberry Pi.

The camera works with **all models** of Raspberry Pi 1, 2 and 3. It can be accessed through the MMAL and V4L APIs, and there are numerous third-party libraries built for it, including the [Picamera](#) Python library. See the [Getting Started with Picamera](#) resource to learn how to use it.

The camera module is very popular in [home security applications](#), and in wildlife [camera traps](#).

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