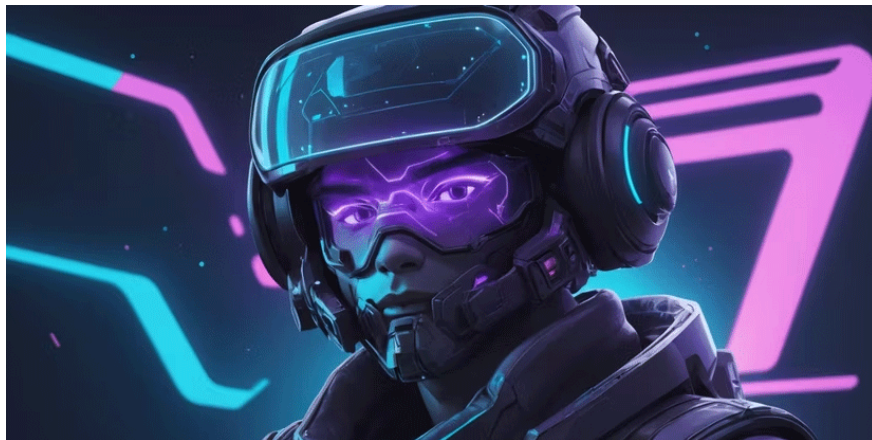


How to use Raspberry Pi's new AI camera.

With its neural processing hardware, the AI camera handles all the heavy lifting on the device, meaning you can now use the Raspberry Pi for more AI projects than ever before.

The Raspberry Pi AI camera brings AI vision to almost every Raspberry Pi model. With its neural processing hardware, the AI camera handles the heavy lifting on the device, meaning you can now use your Raspberry Pi for more AI projects than ever before.

AR Streaming



People always want to stream on Twitch for entertainment, but are hesitant about cameras and a little worried about privacy. It's possible to create 3D models to replace your physical appearance on screen, but many people don't want their online avatar to be a werewolf or Sonic the Hedgehog – it all depends on personal preference.

So, is there a way to create a VTuber avatar without revealing your full identity? With the Raspberry Pi AI Camera, AR Streaming might be the answer you're looking for.

The Raspberry Pi AI camera can perform semantic segmentation, which is a more elegant way of saying it can assign meaning to each pixel of a video stream. Low-latency processing can be powerful enough to instantly overlay AR filters.

The Raspberry Pi AI camera seems like a great way to demonstrate augmented reality applications and their capabilities.

Make your own photo booth for the party.



Renting a photo booth for small gatherings isn't very practical. It can be very expensive, not to mention the logistics of getting the equipment in and out. That's where the Raspberry Pi AI Camera comes in handy.

Because it doesn't require a separate GPU or Tensor processor, the Raspberry Pi AI Camera can do a lot without taking up much space. It's portable enough to set up a makeshift photo booth whenever you want.

Here's everything you need to set up a photo booth:

1. Cardboard box
2. Any Raspberry Pi board
3. Raspberry Pi AI Camera
4. Tablet

The Pi AI camera can analyze and estimate posture, meaning it can understand how people stand or gesture. It can automatically suggest adding props like light swords or animated hearts around couples based on what it detects in the frame.

Automatic wildlife album



Have you ever come across a beautiful deer, fox, or bird but didn't know its name? Instead of making a vague Google search to identify them, let the Raspberry Pi AI Camera do the work.

There are already some great Raspberry Pi AI projects that can be done with a regular Pi, but adding an AI camera makes it easier to run neural network models. This combination of machine learning—including applications using TensorFlow or PyTorch—will take Raspberry Pi and camera projects to a whole new level.

Finally, it also allows you to indulge your passion for nature photography. Here's how to use AI to compile a wildlife album:

1. The Raspberry Pi AI camera uses object detection to capture images of animals, insects, and lizards running by.
2. AI attempts to automatically identify the species.
3. The photos and identifying information are recorded in a wildlife album.
4. Machine learning is used to update the album more accurately because it is trained on additional data from the camera over time.

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