



Baybcam Raspberry



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Summary

A housing for a Rasperry Zero with camera.

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Tags: [camera](#) [cameramount](#) [babyphone](#) [babymonitor](#)
[raspberrypicamera](#) [babycam](#) [rasperrycase](#) [babycamera](#)
[babyphonemount](#)

This is a housing for a baby camera for the installation of a Raspberry Zero with camera and infrared light.

The stand is fixed with a M4 nut and a M4x12 screw. The Raspberry and the camera are fixed with M2 threaded inserts. The model includes a recess for an LED (3mm) and a push button (PCB Button). The button is used to restart the UV4L_raspicam. Printed with black PETG, 0.6mm nozzle, 15% infill

The programming of the camera is based on UV4L and WebRTC. A tutorial on how to set it up can be found here with a YouTube link and the documentation. It also explains how to set up a website with a stream. If you only use it at home, you don't have to go through the steps described. To use it as a babycam or babyphone, the sound transmission should be

activated in the Config.txt. I will explain how to use a USB microphone at the end. Since further settings are necessary for this.

<https://www.youtube.com/watch?v=5QAHIZoPlgI>

The documentation is here.

<https://www.dropbox.com/s/42cfyfgrjccl7jn/Reef%20Nerd%20Tutorial%20-%20Setting%20up%20a%20Raspberry%20Pi%20Reef%20Cam%20and%20Website.pdf?dl=0>

External USB microphone:

Connect your USB microphone and enter the following via the console in the SSH to the Raspberry:

```
$ arecord -l
```

The card for the USB microphone is now displayed here.

Note the number and create a config file using the following command:

```
$ sudo nano /etc/asound.conf
```

Copy the following content into this file and set the number at "card". to the number you remembered:

```
pcm.!default {  
type hw  
card 0  
}
```

```
ctl.!default {  
type hw  
card 0  
}
```

Now the sound should be activated when the stream is started.

Source: <https://community.element14.com/members-area/personalblogs/b/blog/posts/raspbaby-monitor>

A cover for the rear side follows.

Update 23.11.22:

Stand diameter reduced to 100mm (picture 120mm)

Model without reset button added and Print optimisations

Added rear cover

Model files



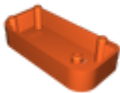
kamera_raspberry_mit_reset.3mf



kamera_raspberry_ohne_reset.3mf



standfuss_100mm.3mf



ruckseite.3mf

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