Update on libcamera in AOSP

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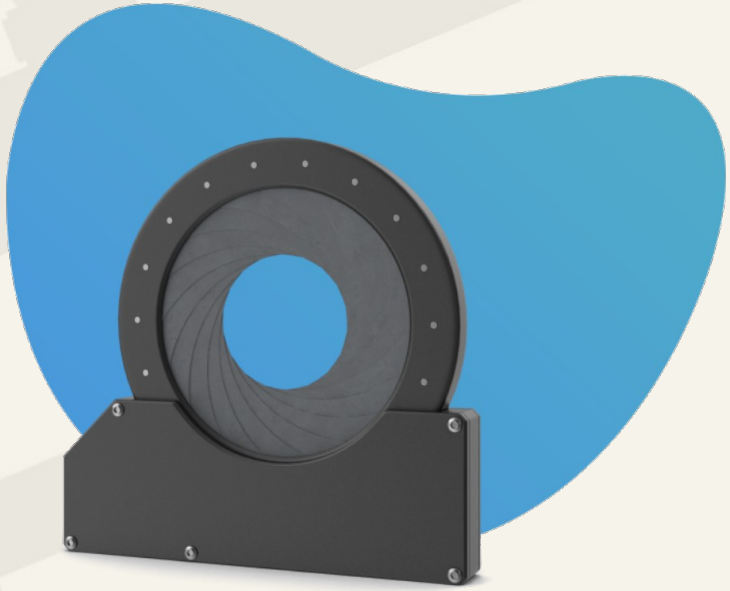


Hi, we're libcamera.

An open source camera stack and framework for Linux, Android, and ChromeOS

Getting Started

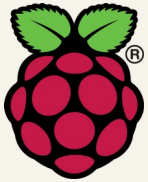
Since last year

- Raw capture
- Multi stream (with JPEG and raw) in Android camera HAL
- Hotplug, stable IDs, friendly names*
- GStreamer element, V4L2 emulation
- Documentation
- Reprocessing API*
- IPC isolation for Image Processing Algorithms*
- Lots of behind-the-scenes work (core helpers, Linux kernel, ...)

(* in progress)

And by the way...

Support for Raspberry Pi …



… with world's first **fully free software** image processing algorithms (3A) and camera tuning tool*

http://libcamera.org/entries/2020-05-05.html

* to our knowledge – come and talk to us about it

Integration with Android

- The Android camera HAL has been tested on Chrome OS only so far
- Time to move to Android

Challenges

- Target hardware platform(s) (hardware support, mainline kernel, market relevance, …)
- Build system integration (join in 2h for “Integrating open source packages into AOSP”)
- Shipping in AOSP – Cuttlefish and/or real hardware?