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Live video from space using COTS hardware and open source software

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Copenhagen Suborbitals is a crowd-funded, non-profit, amateur space programme with the goal of sending one of us into space, on a sub-orbital spaceflight, using our home built space capsule and rocket. Since the beginning of 2008, we have flown five rockets, two mock-up space capsules, and reached significant milestones like building bi-liquid rocket engines, active guidance and establishing a framework for regular sea-launches.

An important part of successful crowdfunding is continuous outreach and contact with our supporters. To that end, we are providing live webcasts from all major test and launch campaigns. Beginning with our Nexø-class rockets, the webcasts also include live, high definition video transmitted from the rocket.

In this presentation, I will describe some of the DIY concepts we are applying throughout the project, with focus on building a scalable video downlink and live streaming solution using COTS hardware and open source software.

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