

Multi-camera imaging via 2 IEEE 1394a firewire cameras

Source: <http://sci.tech-archive.net/Archive/sci.image.processing/2005-01/0065.html>

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Date: 01/17/05

Date: 17 Jan 2005 07:37:54 -0800

Hi,

I'm student at the Technical University of Braunschweig, Germany, and currently working on a multi-camera imaging project. The goal is to do a synchronous snapshot of an object with two cameras, triggered by a light sensor. Later I will face to set up two synchronous video streams. Currently I am still doing literature research, so if anyone has any tips for me, he is welcome to post them.

One of the cameras I will be working with is the Sony DFW-V500. The other one is not yet determined, but it will be a firewire cam, too.

Now my questions:

- 1) Is it possible to do a completely synchronous shot with 2 firewire cams (should work through the asynchronous channel)?
- 2) The Sony cam can be triggered externally, but (as I read) there is also an option to trigger the camera via the firewire interface. Has anyone experiences with that or sources that I can use?
- 3) As I have an external signal impulse (from the light sensor) I will probably have to build a small hardware, which triggers the cameras as well as an optional flash. Does anyone know about a similar (professional) system?

Thanks for your answers,

Andre

PS: In case I posted to the wrong group, sorry -> maybe you know another one for me?