

Re: MATLAB Video Acquisition

Source: <http://sci.tech-archive.net/Archive/sci.image.processing/2005-12/msg00072.html>

- *From:* "mlimber" <mlimber@xxxxxxxxxx>
 - *Date:* 14 Dec 2005 06:47:37 -0800
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agarwal.abhishek@xxxxxxxxxx wrote:

- > Dear Group Members
- >
- > I am working on real-time panoramic video generation using three
- > cameras.
- > As a prototype, I am implementing the solution in MATLAB, just to see
- > if things work out well. Also, instead of normal CCD cameras I am using
- > webcams as of now. Since the algorithm is still very crude, and is not
- > real-time, I have to capture video streams from the 3 cameras and store
- > them for further processing.
- > Now the problem that I am facing is of memory overflow. Due to the
- > difference between the rate at which frames are coming-in into memory
- > and the rate at which frames are being stored on secondary storage is
- > quite significant, I always end up getting memory errors (even with 11
- > seconds of capture).
- >
- > Settings and Configurations:
- >
- > Pentium4 3 GHz
- > 256 MB RAM (Cannot be changed, constraint)
- > 3 Logitech USB Webcams
- > Resolution '640 x 480' (Cannot be changed, constraint)
- > Frame Rate '6 fps'
- > Returned Color Space 'Grayscale'
- > imagmem '100000000' (100 MB)
- > LoggingMode 'Disk&Memory' (Memory, for I need the timestamps)
- > Trigger 'Manual'
- > FramesPerTrigger 'Inf'
- > Video stored as 'AVIObject'
- >
- > Is there a way out to get rid of the memory overflows? What other
- > properties can be tweaked to reduce the memory requirements? Also, any
- > other information, comments or URLs are welcome.
- >
- > Any sort of help will be highly appreciated.
- > Thanking You All
- >
- > Abhishek Agarwal
- > New Delhi

Look into the new Matlab Image Acquisition Toolbox.

Cheers! --M

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• **References:**

◆ **MATLAB Video Acquisition**

◇ *From:* agarwal . abhishek

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