

Re: General comment

Source: <http://sci.tech-archive.net/Archive/sci.techniques.microscopy/2005-11/msg00070.html>

- *From:* Gary G <see.signature@bottom>
 - *Date:* Sun, 20 Nov 2005 13:52:18 -0800
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On Sat, 19 Nov 2005 23:33:08 -0600, "Nick" <nickmirro@xxxxxxxxxxxxxxxx> wrote:

>Well this is eye opening. \$15k? Well actually thats depressing. Maybe I
>should clarify that I could do without the imaging ability initially. It
>just needs to be an upgrade possibility. I am now also will to fork over up
>to \$2500 and take something used. Here are some inexpensive zooms that I
>found tonight but I am unsure as to quality and usefulness. Any comments?
>

here is a reasonable stereo zoom on ebay. It has base, objective, eyepieces and Fostec halogen illuminator.

http://cgi.ebay.com/OLYMPUS-STEREO-MICROSCOPE-SZ-4045-LIKE-NEW_W00QitemZ7564367651QQcat

Fostec is very good. I use their DCE units with the same ring light and bifurcated bundle shown in the pix. The C-mount camera port would allow use of prosumer digicams or dedicated microscope digicam.

I had an SZ-4045 as my first stereo and liked it. However, after using it for awhile, the limits of stereo became clear. Illumination is a constant problem. DOF and WD are opposite trade offs, and regular camera systems did not work with stereo well at all--one needs spot metering.

The other problem is that the resolution of the system was not what I needed. I recall it being something like 200-300 lpi. So I moved to SZH-10 and PlanAPO objectives. That moved it up to about 500 lpi. My current SZH-10 is 800 lpi. The SZH-10 and SZX add an adjustable iris to increase DOF (at the expense of illumination). A 30 second exposure is not unusual. It's also important that the light source(s) be color corrected for daylight. The Fostec units allow this very easily.

If you have a macro system for your Canon, what do you want to do with the stereo zoom?

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- *Follow-Ups:*

- ◆ *Re: General comment*
◇ *From: Gary G*

- *References:*

- ◆ *General comment*
◇ *From: Nick*
- ◆ *Re: General comment*
◇ *From: Gary G*
- ◆ *Re: General comment*
◇ *From: Nick*

- Prev by Date: *Re: General comment*
- Next by Date: *Re: General comment*
- Previous by thread: *Re: An unqualified outsider asks, "Is a FAQ in order?" was[Re: General comment]*
- Next by thread: *Re: General comment*
- Index(es):
 - ◆ *Date*
 - ◆ *Thread*