

Re: How can I build a simple Microscope

Source: <http://sci.tech-archive.net/Archive/sci.optics/2005-08/msg00258.html>

- *From:* "Chuck Olson" <chuckolson01@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 22 Aug 2005 09:57:37 -0700
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"Johannes Swartling" <johannes.swartling@xxxxxxx> wrote in message
[news:dec8lh\\$06\\$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:dec8lh$06$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)
> "G8 | 8=====D" <lijie0210@xxxxxxx> wrote in message
> news:1124701324.977464.179030@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
> > PS: we need to take the picture with our webcam.
>
> The magnification on the sensor of your webcam will be (the focal length
of
> the lens on the webcam)/(the focal length of the objective). You can work
> out the focal length of the objective by learning about microscope
> objectives here:
>
> <http://micro.magnet.fsu.edu/primer/>
>
> Johannes
>

Right, an objective lens and an area sensor (webcam without a lens) are all he needs to produce an image on his monitor. If in addition he would like to use the microscope visually, he needs an eyepiece and his webcam needs its own objective lens to look through the eyepiece and produce the image on his monitor. Also, he may need to illuminate the field of view with a lamp and additional optics.

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- *References:*
 - ◆ ***How can I build a simple Microscope***
◇ *From:* G8 | 8=====D
 - ◆ ***Re: How can I build a simple Microscope***
◇ *From:* G8 | 8=====D
 - ◆ ***Re: How can I build a simple Microscope***
◇ *From:* Johannes Swartling
 - Prev by Date: ***Re: rainbow colors in Compact Disc reflections***

Re: How can I build a simple Microscope

- Next by Date: [***Re: How can I build a simple Microscope***](#)
- Previous by thread: [***Re: How can I build a simple Microscope***](#)
- Next by thread: [***Re: How can I build a simple Microscope***](#)
- Index(e)