

# Re: Photomicrography ... objective questions (and general advice)

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- *From:* "GTO" <Gregor.Overney@xxxxxxxx>
  - *Date:* 20 Jul 2005 16:13:13 -0700
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Hello, Frances:

Here are my two cents:

1) You may want to reconsider whether to buy the E200 or not should you ever be interested in mounting a good condenser to your scope. The E200-F only supports Koehler illumination with its Abbe condenser. It uses a quirky relay lens to make Koehler illumination work. This relay lens does not screw onto the high-end condensers. (Don't buy APO's or FLUOR's without getting a good condenser! That's often the reason why people can't see a clear difference because they are not also upgrading their Abbe condenser to at least a good Achromatic condenser. The Abbe condenser on student scopes are really cheap.)

2) Don't buy a new scope if your budget is below US\$3000. You will run out of money fast. Buy a used scope instead. A budget of US\$5000 is more reasonable if you purchase new equipment (not including the camera!).

3) The best lens for my kind of bright field work is the Nikon Plan Fluor lens 40x. With a resolution of 0.75, perfect image flatness and a great 0.72mm WD, the lens is a real killer. The difference between the cheaper E-Plan Achrom and the Plan Fluors is apparent. Again, don't worry about buying them new and stick with a good used scope. (E.g. the Plan Fluor 40x lens costs new around US\$900.)

4) Try to get a scope with a 38mm ISO port on the trinoc. For the E200-F you can get one, which costs you around \$800 (new).

5) Look at eBay to learn about prices. Check out dealers in your area. Ask for demo models.

6) Should you buy the E200-F and should you use it with its Abbe slider condenser and a darkfield slider (or phase slider), you might realize that you need to apply a very strong torque setting to keep the table from drifting.

Anyway, the E200 is ok, if you do not buy expensive lenses for it but

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you really really want a new scope. Just use it with its E-Plan lenses.

Gregor

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- **Follow-Ups:**

- ◆ **[Re: Photomicrography ... objective questions \(and general advice\)](#)**

- ◆ *From:* GTO

- **References:**

- ◆ **[Photomicrography ... objective questions \(and general advice\)](#)**

- ◆ *From:* frances\_0119

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