

Re: Microscope

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Zio! wrote:

- > *Hello!*
- > *I'm a newbie.*
- > *I want tu buy a microscope only for didattic use, but I want a metallurgical*
- > *microscope because I want to observe opaque specimen like silicon wafer and*
- > *so on.*
- > *I see some metallurgical microscope have also bright e dark fileld*
- > *illumination so this seems a more flexible solution for a didactic use: I*
- > *can observe a bit of all ! ; -)*
- > *On Ebay I see two names that seems to do what I want at reasonable prices:*
- > *"Specialty Microscopes" and "Bargain Microscopes".*
- > *What do you think about it? Do you think this are toys or serious*
- > *microscopes?*
- > *I don't want bad images with aberrations, I want good images at high*
- > *enlargement (400x - 1000x - 1600x)*
- > *Thank you in advance!*
- > *Regards,*
- > *Gabriele.*
- >
- >

You are asking about a reflected light or EPI scope.

Look for Zeiss EPI Plan, Vickers and Richart for scope for that kind of work. If the work varies much in size a Zeiss WT or Universal will be the best bet. Leitz also makes EPI scopes but IMO Zeiss has the most varied and versatile equipment for that kind of work.

<http://images.google.com/imgres?imgurl=http://micro.magnet.fsu.edu/primer/techniques/fluorescence/images/epilightp>
is the way what say you want works.

<http://images.google.com/imgres?imgurl=http://micro.magnet.fsu.edu/primer/techniques/fluorescence/images/epilightp>
<http://images.google.com/imgres?imgurl=http://opticsplanet.com/product-catalog/pictures/products/large/epdarpolea5>
<http://images.google.com/imgres?imgurl=http://opticsplanet.com/product-catalog/pictures/products/large/epdarpolea5>
http://images.google.com/imgres?imgurl=http://www.toptrading.com.cn/images/microscope/ydce1_001.gif&imgrefurl
http://images.google.com/imgres?imgurl=http://www.corelresearch.com/Zeiss_Z-4107IN_1.jpg&imgrefurl=http://ww

I have something like

this:http://www.corelresearch.com/Zeiss_Z-4107IN_1.jpg
and http://www.arsmachina.com/leitz_ortholux.htm

To get a good scope that has a guarantee and is serviced and ready to go. Expect to spend \$1,500 to \$7,000 for a good Zeiss WT on the low end and a universal or a fully decked out for transmitted and reflected light Zeiss Universal or Leitz scope. Reichart and Vickers are probably a better bargain but Zeiss and Leitz have the best supply of parts and I believe Zeiss is more versatile for EPI work.

If you are on a strict budget and willing to roll the dice on ebay while I can't find an example right now a Leitz Orhtolux with a Metalux EPI head can go for as low as \$600 and Vickers, Reichart and other good quality scopes can go for as low as 300 to 400 bucks.

If an inverted scope will work for you Unitron comes in the game and while not the quality of Zeiss, Leitz, et. al. often a complete one with polarized light will sell for about \$500.

Here is a Japanese copy of a Unitron models that is a rare configuration

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=7321&item=3878873110&rd=1&ssPageName=WDVW>

I have one it works but the images are poor beside the images from beat up dirty Zeiss EPI plan just as it came from the box from ebay with out cleaning or positioning the light.

You don't say were you are. I know were there are a number of scopes that could be built to meet your requirements and if you are in the right place the sellers can help you get started as well.

I am not a salesman or receive anything but good will for the deals I put together. I am retired and money not only is stressful but makes it impossible to be objective. I may not be right but it will be a mistake not something that I intentionally did to make a buck on.

If I can help my phone number and email are somewhere on www.couger.com/gcouger

Feel free to call or email me but keep the call between 3pm and 3AM CST. There rest of the time I take no responsibility for grouchy troll that answers he phone. Before that troll gets enough coffee to wake up he may not remember the conversation and have any idea what he is saying.

I think you need to describe what you need to use the scope for. As you see you are going to part with a considerable sum of money but the up side if you don't buy new scopes you can expect

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to get 75% to 110% or more back when you sell it if you do your job shopping.

Best regards
Gordon
Gordon Couger

I collect links on information related to light microscopes.
www.couger.com/microscope/links/gclinks.html
Please forward anything you think might be useful to others.
Microscope Documentation is at www.science-info.org