

Re: New microscope for DIC brightfield and darkfield imaging

Source: <http://sci.tech-archive.net/Archive/sci.techniques.microscopy/2007-04/msg00033.html>

- *From:* runarwh@xxxxxxxx
 - *Date:* 23 Apr 2007 06:43:46 -0700
-

I will be working mostly on metals, semiconductor and interface between metal/semiconductor and packaging. My colleagues will be working on optical coatings and surfaces of optical crystals and mirrors.

Due to a clueless salesperson Zeiss was left out very early in the process. Later Also Leica fell out of competition partly due to organization, but mostly because of the very open design of the two Japanese competitors. Now that Zeiss is back in the game I have to check them out. But again, the modular system of Olympus and Nikon will suit a research lab very well.

– Runar

On 23 Apr, 14:49, "Kevin Cunningham" <sms...@xxxxxxxxxxxxxxxx> wrote:

<runa...@xxxxxxxx> wrote in message

news:1177322942.900321.19710@xx

Does Nikon have LabView instrument drivers? I have found the driver to Olympus on ni.com, but not for Nikon. We have site license for pretty much all software from NI.

Also, suddenly Zeiss wants to sell microscopes. They have now changed their organization and sells microscopes directly to customers. I will check their offerings later this week. They claim that they will be competitive also on the price. Does anyone have comments on the Axio Imager?

Re: New microscope for DIC brightfield and darkfield imaging

– Runar

Zeiss has always wanted to sell microscopes, just most times they didn't know how to sell. They used to be no. 2, then then went direct and they fell to no. 3. They still haven't really got dealers though.

The Axio Imager is a neat 'scope if you can afford it and you do bio. I expect a few to show up locally (in the SE, USA) in the next year.

Thanks

Kevin Cunningham
SMS

On 18 Apr, 23:39, dbarnes...@xxxxxxxx wrote:

On Apr 17, 7:45 am, "Kevin Cunningham"
<sms...@xxxxxxxxxxxxxxxx> wrote:

<runa...@xxxxxxxx> wrote in message

news:1176799769.157731.306830@xx

The 5Mpix makes sense only at low magnification. Part of our work is documentation and quality control, where lower magnification (5x, 10x, 20x) will give a trade-off between spatial resolution and larger field of view. For the details we use 100x objectives, but then we don't need the 5mpix. However we don't want more than one camera on the microscope.

Re: New microscope for DIC brightfield and darkfield imaging

Does anyone has comments on the objectives? Olympus use plan fluorites. Nikon does not use this term anymore, but claims that the optical performance is the same and that they have moved away from the term "fluorite" after they changed some processes? Nikon claims that their objectives are better than the Olympus plan fluorites.

Nikon and everyone else has switched from native flourite to man made imitations. The imitations have all sorts of advantages, the biggest one is the different types. I've seen the objectives your talking about and I like them. A lot.

Another consideration is my experience with Olympus Industrial is unbroken failure. The Olympus is a good instrument but the service is awful, just hiddeous. Now, I only know Olympus Industrial in America and Europe, other places they might be fine. Now Olympus bio is just fine.

Thanks,

Kevin Cunningham
SMS

Re: New microscope for DIC brightfield and darkfield imaging

On Apr 17, 10:29 am, heini

<buerg...@xx>

wrote:

Hi,
I am not
familiar
with color
photography
in
microscopy..
as a
fluorescence
microscopy
user I alwas
use B/W
cameras.
So first
question:
what
magnifications
do you use?
5 Mpxis far
too
much if you
want to go
real close.
Good, that
these
cameras do
have
binning at
least. I
posted a
calculation
explaining
why more
than 2
mpx make
hardly sense
in light
microscopy
in this
forum
before.
(considering
you are
using
objectives

Re: New microscope for DIC brightfield and darkfield imaging

higher than
~40x)
Maybe
check out
Pixelink,
too.

yours,
Heinrich

Cameras:
CIII
(Olympus
AnalySIS)
orQimagingmicropublisher
(ImagePro/
Nikon)–
Hide
quoted
text
–

– Show quoted text –

Megapixels and pixels size should not be confused.
QImaging has a 4 MP
camera with 7.4 micron pixels and 3/5 Mpixel cameras with
3.4 micron
pixels (as does almost everyone). And then it depends upon
the coupler
magnification as to what the projected pixel size really is.

David Barnes/ QImaging