

Re: Zeiss Universal Or Leitz Othoplan...Which One Would You Buy?

Re: Zeiss Universal Or Leitz Othoplan...Which One Would You Buy?

Source: <http://sci.tech-archive.net/Archive/sci.techniques.microscopy/2007-10/msg00090.html>

- *From:* Kevin Cunningham <smskjc@xxxxxxxxxxxxxxxx>
 - *Date:* Sun, 28 Oct 2007 07:12:25 -0700
-

On Oct 27, 2:54 pm, Too_Many_Tools <too_many_to...@xxxxxxxx> wrote:

On Oct 27, 8:30 am, Kevin Cunningham <sms...@xxxxxxxxxxxxxxxx> wrote:

On Oct 26, 9:34 pm, Too_Many_Tools <too_many_to...@xxxxxxxx> wrote:

On Oct 26, 3:22 pm, Kevin Cunningham <sms...@xxxxxxxxxxxxxxxx> wrote:

On Oct 26, 3:05 pm, Too_Many_Tools <too_many_to...@xxxxxxxx> wrote:

On Oct 20, 9:32 pm,
Too_Many_Tools
<too_many_to...@xxxxxxxx>
wrote:

I have an
opportunity
of buying
either a
Zeiss
Universal or
a Leitz
Othoplan.

Which one
would you
buy and
why?

I have been
searching
for
information
for both
scopes and
have found
very little.

Any
suggestions
as to where
one can find
more
information
on these
scopes?

Also...how
easy and
affordable
are other
lighting
options
(phase,
DIC,
fluorescence,
polarized
light) to
find for
these scopes
considering
that they are
older
scopes?

Re: Zeiss Universal Or Leitz Othoplan...Which One Would You Buy?

Thanks

TMT

Okay...it is starting to look like getting accessories for the Orthoplan...or for that fact any Leitz is a major pain.

And of course no documentation has surfaced for the Orthoplan.

Could someone who knows tell me what options were available for the Orthoplan?

Like what eyepieces, objectives, condensers and lighting options.

And if you know something on how DIC was implemented, I would like to hear about that too....there is nothing out on the Web. It would be interesting to see how Leitz approached that application versus Zeiss.

Thanks

Re: Zeiss Universal Or Leitz Othoplan...Which One Would You Buy?

TMT

First every possible thing you could add to a microscope was available for this 'scope. Beautiful NPL fluorite objectives, apos, really nice eyepieces, etc. However Nomarski wasn't, they used a system called Smith T, it worked similarly but it was a pain to add. The genius of Nomarski was its simplicity. Smith T works but it is more complex. Fluorescence was gorgeous. Of course the original filters probably won't work or work well, replace them with

Thanks,

Kevin Cunningham
SMS– Hide quoted text –

– Show quoted text –

Thanks Kevin for the information.

I will look into the Smith T.

I see that the Orthoplan uses larger eyepieces than what I am used to seeing...30mm?

Can this scope use other maker's stereo eyepieces?

Re: Zeiss Universal Or Leitz Othoplan...Which One Would You Buy?

TMT

Just in general you should never, ever do that, you don't know were they've been. No, but eyepieces are a part of the 160mm tube length system. Since Abbe's time some makers have fixed some optical problems in the eyepiece and some in the objective. This is purely a manufacturers decision. Its far, far better to get the manufacturers eyepieces.

Thanks,

Kevin Cunningham
SMS- Hide quoted text -

- Show quoted text -

Understood....that has been what I have learned also.

Other than knowing the model number of the eyepieces that were meant for a scope, how else can one tell that you have the proper eyepieces?

And without proper documentation which is usually the pricing list, you don't have the model number.

And of course part of my previous discussion has been not being able to find documentation.

Now my kids know why I am losing my hair. ;<)

In reality, I have seen numerous scopes using different eyepieces than what the manufacturer meant for them.

Some work..kind of ;<)...and some don't work...and then the user blames the manufacturer for a faulty product.

Has anyone ever formulated a rule of thumb of whose do work and whose do not?

I also note that the Orthoplan I have been offered is a 170mm tube length.

I assume that there are 160mm and 170mm versions of the Orthoplan

Re: Zeiss Universal Or Leitz Othoplan...Which One Would You Buy?

considering that length of production and that Leitz changed from 170mm to 160mm tube length?

Another question...I was just looking at an Ortholux II and noticed that the objective turret looks similar to the Orthoplan objective turret...are they interchangeable? (Again keeping in mind the 160mm/170mm issue.)

TMT

TMT, The good news is all manufacturers made a limited line of eyepieces. The most used ones, the standard 10X ones worked in all their compound instruments. Now, all manufacturers made super wide field, these are easy to figure out since there a lot bigger, about 30mm rather than 23mm. Using another manufacturers eyepieces is just dumb, at best it doesn't work well and at worst it doesn't work.

Just to make it fun the Leitz 170mm standard wasn't actually 170mm, it was actually 162mm. If push comes to shove I'd use a 170 on a 160, particularly if the objective was a high power, short fl lens. There won't be a lot of problems with a 2mm tube length difference. Leitz made 170 and 160mm eyepieces, the 160mm had a slightly longer middle piece, again as long as the two eyepieces were the same. The real problem is the age, objectives keep getting better and better.

Thanks,

Kevin Cunningham
SMS

.