

Re: Olympus PME metallograph objective specifications needed

Source: <http://sci.tech--archive.net/Archive/sci.techniques.microscopy/2007-06/msg00023.html>

- *From:* dljones@xxxxxxxxxxxx
 - *Date:* Thu, 21 Jun 2007 16:49:54 -0700
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On Jun 21, 10:23 am, jonceramic <joncera...@xxxxxxxxxx> wrote:

Hi All,

Jeff from metallography.com recommended I check out your group. I'm looking for a 50x objective for an old Olympus PME metallograph. (Not the newer PME3). We do not have a manual, and from what I can tell from the markings on our current objectives, I don't have enough information to know what to specify.

5X (red), 402165 Olympus Tokyo, Mplan 5, 0.10 Japan
10X (orange), 402079 " " " 10, 0.25 "
20X (yellow), 401931 " " " 20, 0.40 "
40X (green), 403100 " " " 40, 0.63 "
100X (blue), 401313 " " " 100, 0.90 "

I'm not really a microscopy guy (hence my posting), but it seems like I'm missing the key info – the distance?

Does anyone know what I need to spec out for real, or does anyone have a copy of a manual they'd be willing to fax/email/sell?

Thanks,

Jon

Jon,

To the best of my knowledge a MPLAN 50X for the PME was not made. As far as I know, the objectives available were:

Neo 5X
Neo 10X
Neo 40X

MPlan 1.3X working distance of about 126.5 mm
MPlan 2.5X working distance of about 107.5 mm (these two measurements I'm pulling off my PMG that has the rough focus position for these two

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lenses marked on the stage mechanism.)

Info below I'm pulling from the instruction manual for my PMG which has the same optics as the PME.

Aperture (NA) Working distance

Focal Length

MPlan 5X – Red 0.1

4.59 33.59

Mplan 10X – Orange 0.25 1.06

17.92

MPlan 20X – Yellow 0.4 1.04

10.19

MPlan 40X – Lgt Green 0.63 0.38

5.4

MPlan 100X – Blue 1.25 0.18

2.099

MPlan 100X (Black band for oil immersion, numbers same as above)

LW-40X (I've also seen a LWD-40X, but I don't know if that was made for the PME, and I don't know what the D stands for in that last case.)

As I know about the Lw-40 is the working distance of 7.7 mm.

Maybe they made a MPlan 50X but I've never seen one....

dj

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