OPTIKA - Wide Field Transmission Microscope

Objectives:
4X NA0.1
10X NA 0.25
20X NA0.4
40X NA0.65
60X NA0.85
100X NA 1.25 oil

Camera:
Optikam PRO 5 digital camera (CMOS)
Resolution: 2592 x 1954 (5.0 Mpixel)
Camera pixel size: 2.2x2.2 um
Sensor area: 5.7x4.28 mm

Images pixel size: 2 um/0.5xobj mag

Log in and start:

1. Switch on the microscope (O/I switch on the left side)
2. Switch on the computer
3. Windows log in: select your user account, password: your Imaging Unit group password
4. Open the Optika Vision Pro software. The preview (live) image should be visible. If not, go to File → New for video preview

Image Acquisition:

1. Set the save path:
   Capture Options → Capture to File → press '…' to set the save path and the file format.
   The files should be contained in a 'project' directory or they will be ignored during the data backup on HPC server.
2. Capture Options:
   Select 'preview captured image' to visualize the acquired image
   Select 'auto increment file'
   Deselect 'extended exposure' !!!! (unless you want to use this function: the extended exposure time will be applied during capture)
3. Adjust light intensity and exposure time of the camera (optional: auto exposure)
4. White balance correction: 'area WB' correction is based on the values of a small rectangular neighborhood of pixels; White Balance correction is based on the live image
5. Press 'Capture' under Capture control to save the image

How can I access my data on the HPC server?
The users can access the files by mapping the remote folder:

- On their PC: \\hpccifs.ieo.it\techunits\imaging\PublicData, user name= IEODOM\IEO1234 (with the right ieo id)
- On their Mac: cifs://hpccifs.ieo.it/techunits/imaging/PublicData, user name = ieo1234

Log out:

1. Close the Optika Vision Pro software
2. Switch off the microscope
3. DO NOT SWITCH OFF THE COMPUTER