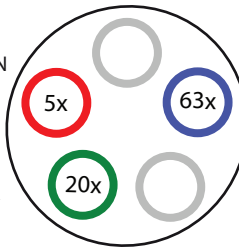


N-ACHROPLAN
5x / 0,15 NA
No oil!



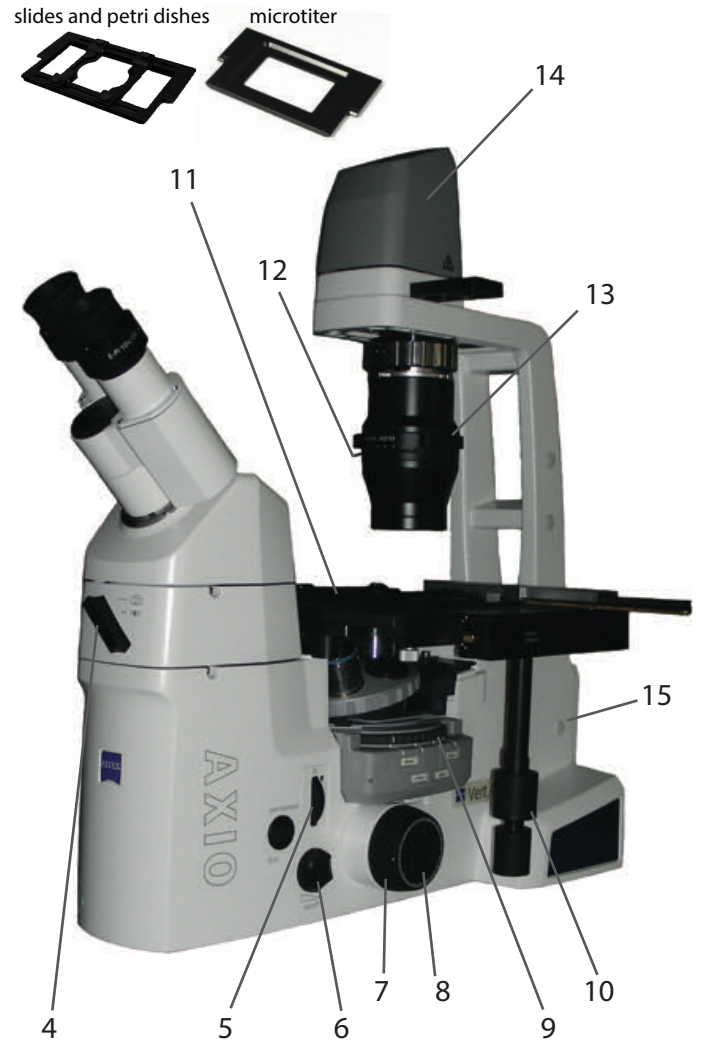
LD A-PLAN
20x / 0,25 NA
No oil!

EC PLAN-NEOFLUAR
63x / 1,25 NA Oil
No petri dishes!



Objective	NA	a	Pixel scale	Imm.	Pos. (ZEN)
5x N-ACHROPLAN	0,15	12,0 mm	0,9 µm/px	---	1
20x LD A-PLAN	0,35	4,3 mm	0,2 µm/px	---	2
63x EC PLAN-NEOFLUAR	1,25	0,1 mm	0,07 µm/px	oil	3

NA = Numerical Aperture a = Working Distance Imm. = Immersion



- switch on the microscope (1)
- choose **TL** for BrightField and Phase Contrast or **RL** for FLuorescence microscopy (2)
- set the objective (3) and make sure not to scratch it!
- place sample onto the stage (11) and center using the X/Y-adjustment knobs (10)

- turn on the light (5/6):

for FL (5 and 6):

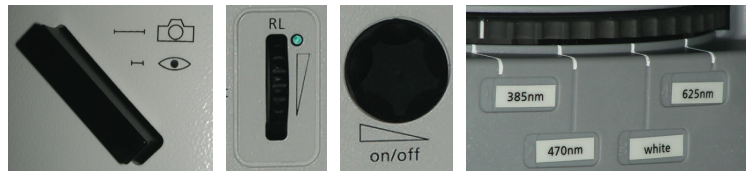
- select desired diode/ filter (9)
- push (6) for on/off
- adjust intensity by turning up/down and hold (5) (blinking indicates max intensity)
- press (5) to save

for BF and PC (6):

- put in conversion filter for PC (13)
- adjust aperute (12) for BF and open for PC
- push (6) for on/off
- adjust intensity by turning (6)
- set beamsplitter (4) to eyepieces (in)
- focus using coarse (7) and fine (8) focusing drive

When finished:

- switch off light (6)
 - remove sample and clean the microscope
 - switch off the microscope (1)
- if used clean 63x/1,25 Oil objective with lens paper from inside to outside; use soapy water, followed by water



Reflector Position	1 (385nm)	2 (470nm)	3 (white)	4 (625nm)
LED module	380 nm	470 nm	540-580 nm	625 nm
Channel name (ZEN 2011)	DAPI	EGFP	DsRed	Cy5
Excitation/bandpass width	350/50 nm	470/40 nm	545/25 nm	620/60 nm
Emission/bandpass width	460/50 nm	525/50 nm	605/70 nm	700/75 nm

- (1) on/ off switch
- (2) TL/ RL switch for Transmitted light/ Reflected light
- (3) Objective nosepiece and available objectives
- (4) Beamsplitter (in = eyepieces / out = camera)
- (5) Intensity adjustment RL (LEDs)
- (6) on/ off switch for TL/ RL and intensity adjustment TL (turn)
- (7) coarse focusing drive
- (8) fine focusing drive
- (9) Reflector turret
- (10) X/Y-adjustment knob
- (11) specimen stage and sample holders
- (12) aperture lever
- (13) slider with fixed phase stop (Ph1/0,4)
- (14) Halogen lamp for TL
- (15) Diodes for RL