

Carl Zeiss Objectives Information

 [Brochure: Objectives from Carl Zeiss \(5 MB\)](#)

[→ Description of Classes of Objectives](#)

[→ Objectives Selection Search](#)

 [Print](#)

[→ back to selection](#)



[→ Transmittance curve](#)

Magnification	63x
Numerical Aperture	1.4
Working Distance [mm]	0.19
Coverglass Thickness [mm]	0.17
Thread Type	M27x0.75
Immersion	Oil
Field of View [mm]	25
Parfocal Length [mm]	45.06
Long Distance [LD]	
Correction Ring [Korr]	
Iris [Iris]	
Optical System	Infinity-Color-Corrected System (ICS)
Flatness	★★★★★
Color Correction	★★★★★

Biomedical Applications

Fluorescence	■
- Multichannel	★★★★★
- Ultraviolet Transmission	★★★★
- Infra Red Transmission	★★★★
BrightField [H]	■
Differential Interference Contrast [DIC]	★★★★★
High Contrast DIC [HC DIC]	■
Polarization-Optical DIC [PlasDIC]	
Phase Contrast [PH]	
VAREL Contrast	
Hoffman Modulation Contrast [HMC]	
Polarization Contrast [POL]	

Materials- (Reflected Light) Applications

BrightField [H]	■
BrightField/DarkField [HD]	
Reflected Light DIC [RL DIC]	
High Contrast DIC [HC DIC]	
Circular polarized light DIC [C-DIC]	
Total Interference Contrast [TIC]	
Polarization Contrast [POL]	

Recommended for:

Confocal Microscopy	■
- Ultra Violet	★★★★
- VIS (visible light)	★★★★★
NLO-IR / 2 Photon	★★★★
Total Internal Reflection Fluorescence [TIRF]	
ApoTome	
Microdissection	

Objective "Plan-Apochromat" 63x/1.40 Oil DIC M27

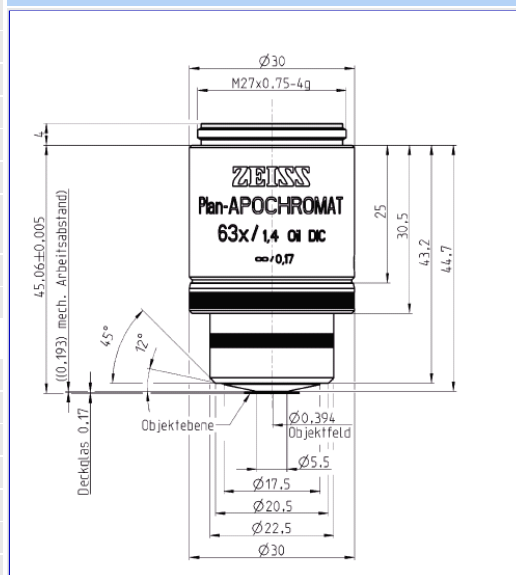
420782-9900-000

Objective Class: Plan-Apochromat



Best field flattening, best correction, confocal microscopy

Mechanical Dimensions



All measures in [mm]

mech.Arbeitsabstand = mechanical working distance

Deckglas = cover glass

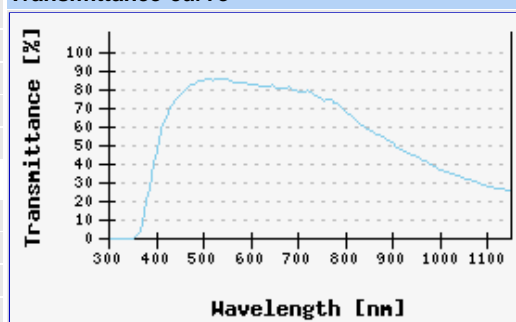
Objektebene = object plane

Objektfeld = object field

Ausleuchtung = illumination

Probenzugänglichkeit = specimen accessibility

Transmittance curve



Please note that due to production tolerances, the given values are typical only and not guaranteed.

Fitting Accessories for

420782-9900-000 Objective "Plan-Apochromat" 63x/1.40 Oil DIC M27

DIC slider

DIC slider PA 63x/1.4 II HC

Condensor prism type II

426952-0000-000

[→ Picture](#)

DIC slider PA 63x/1.40 III	
Condensor prism type III	
426957-0000-000	→ Picture

Other Accessories

Adapter 30mm with optics and DIC slider mount	
for adaptation of objectives M27 with parfocal length of 45 mm to "Axio Examiner.D1" or "Axio Examiner.Z1"	
424516-9040-000 [no longer available]	→ Picture

Adapter 30mm with optics and DIC slider mount	
for adaptation of objectives M27 with parfocal length of 45mm to "Axio Examiner.D1" or "Axio Examiner.Z1"	
424516-9041-000	

Immersion suction ring d=22.5 mm (10 pcs.)	
444822-0000-000	→ Picture

Objective heater 22.5/32.5 S1 (D)	
with oil discharge channel clamping via front dia. 22.5 mm, max. objective dia. 32.5 mm	
411860-9063-000	

Objective heater 22.5/32.5 with oil discharge channel	
clamping via front dia. 22.5 mm, max. objective dia. 32.5 mm	
000000-1116-073	

Objective ring ACR for objective sleeve cylindrical short	
424508-0000-000	

Temperable Objective Ring 22.5/32.5 mm S1 (D)	
clamping via front dia. 22.5 mm, max. objective dia. 32.5 mm	
411882-9081-000	

Immersion

Box of lens cleaning paper	
462975-0000-000	→ Picture

Immersion oil "Immersionol" 518 F fluorescence free, bottle 100 ml	
(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)	
444962-0000-000	→ Picture

Immersion oil "Immersionol" 518 F fluorescence free, bottle 250 ml	
(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)	
444963-0000-000	→ Picture

Immersion oil "Immersionol" 518 F fluorescence free, bottle 500 ml	
(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)	
444964-0000-000	→ Picture

Immersion oil "Immersionol" 518 F fluorescence free, oiler 20 ml	
(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)	
444960-0000-000	→ Picture

© Copyright 2005-2006 by Carl Zeiss. Subject to change without notice.