

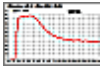
Carl Zeiss Objectives Information

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

- [Description of Classes of Objectives](#)
- [Objectives Text Search](#)

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Objective alpha
"Plan-Apochromat"
100x/1.46 Oil DIC (UV)
VIS-IR
440782-9800-000

Magnification	100x
Numerical Aperture	1.46
Working Distance [mm]	0.11
Coverglass Thickness [mm]	0.17
Thread Type	W0.8x1/36"
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]
 Reflecting 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

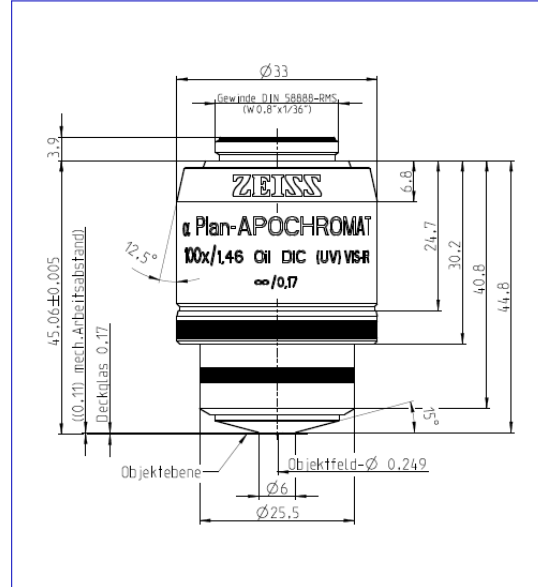
Fitting Accessories for

Objective Class:
Plan-Apochromat



Best field flattening, best correction, confocal microscopy

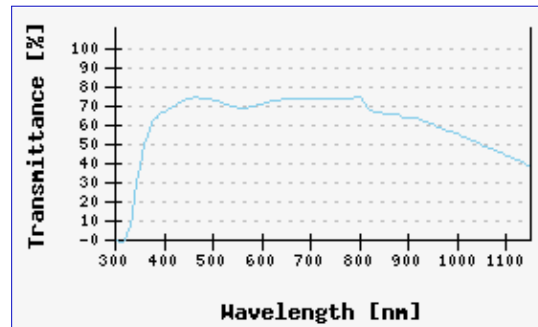
Mechanical Dimensions



All measures in [mm]

mech.Arbeitsabstand = mechanical working distance
 Deckglas = cover glass
 Objektenebene = 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.

440782-9800-000 Objective alpha "Plan-Apochromat" 100x/1.46 Oil DIC (UV) VIS-IR

DIC slider

DIC slider PA 100x/1.46 III

Condensor prism type III

426963-0000-000

Other Accessories

Adapter M 27x0.75 / W 0.8 H "0"

000000-1095-168

[→ Picture](#)

Objective heater 25.5/33 S1 (D)

with oil discharge channel clamping via front dia. 25.5 mm, max. objective dia. 33.0 mm

411860-9065-000

Objective heater 25.5/33 with oil discharge channel

clamping via front dia. 25.5 mm, max. objective dia. 33 mm

000000-1272-645

[→ Picture](#)

Immersion

Box of lens cleaning paper

462975-0000-000

[→ Picture](#)

Immersion oil "Immersion" 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 "Immersion" 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 "Immersion" 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 "Immersion" 518 F fluorescence free, oiler 20 ml

(ISO 8036-1/2, $n(e)=1.518$ (23°C), halogen-free)

444960-0000-000

[→ Picture](#)

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