Objectives

Carl Zeiss Objectives Information

→ Description of Classes of Objectives
→ Objectives Text Search

Objective EC
"Plan-Neofluar"
40x/0.75
440350-9903-000

Magnification

40x

Numerical Aperture

0.75

Working Distance [mm]

0.71

Coverglass Thickness [mm]

0.17

Thread Type

W0.8x1/36*

Immersion

Without Immersion

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

Mechanical Dimensions

All measures in [mm]

Mech. Arbeitsabstand = mechanical working distance
Deckglas = cover glass
Objektsene = object plane
Objektfeld = object field
Ausleuchtung = illumination
Probenzugänglichkeit = specimen accessibility

Transmittance curve

Wavelength [nm]

Transmittance [%]

Please note that due to production tolerances, the given values are typical only and not guaranteed.
Note
Not recommended for operating of "ApoTome" with UV excitation (DAPI) on "Axioplan" 2 imaging microscope.

Fitting Accessories for
440350-9903-000 Objective EC "Plan-Neofluar" 40x/0.75

DIC slider
DIC slider EC PN 40x/0.75 II, EC PN 100x/1.30 III
Condensor prism type II for objectives 40x, type III for objectives 100x
426945-0000-000 → Picture

Other Accessories
Adapter M 27x0.75 / W 0.8 H "0"
000000-1095-168 → Picture

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

Transmission grid H1 "ApoTome" for "Axio Imager"
423662-0000-000 → Picture

Transmission grid PH "ApoTome" for "Axioplan" 2
000000-1151-001 → Picture

Transmission grid VH "ApoTome" for "Axiovert" 200
000000-1151-002 → Picture

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