



Objectives

Carl Zeiss Objectives Information

- Description of Classes of Objectives
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→ Transmittance curve

Magnification	20x
Numerical Aperture	0.45
Working Distance [mm]	2.0
Coverglass Thickness [mm]	0.17
Thread Type	W0.8x1/36"
Immersion	Without Immersion
Field of View [mm]	23
Parfocal Length [mm]	45.06
Long Distance [LD]	
Correction Ring [Korr]	
Iris [Iris]	

Optical System

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

Objective "Achromplan" 20x/0.45

440040-0000-000

20x

0.45

2.0

0.17

W0.8x1/36"

Without Immersion

23

45.06

Infinity-Color-Corrected
System (ICS)

★★

★★★★

★★

★★

★★★★

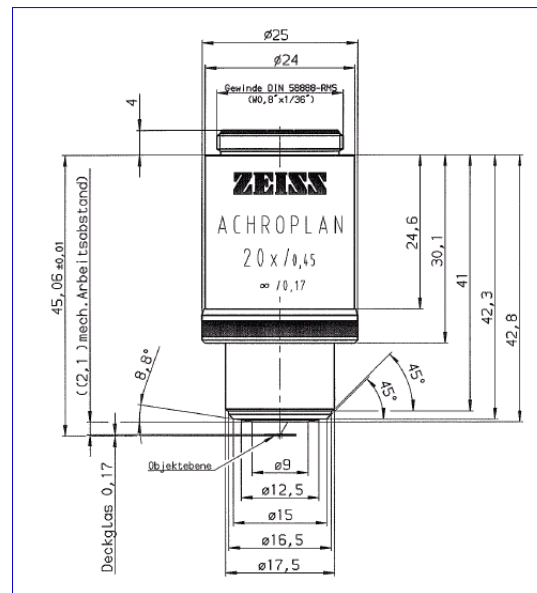
★★

Objective Class: Achromplan



Objectives in many versions for
diverse applications

Mechanical Dimensions



All measures in [mm]

mech.Arbeitsabstand = mechanical working distance

Deckglas = cover glass

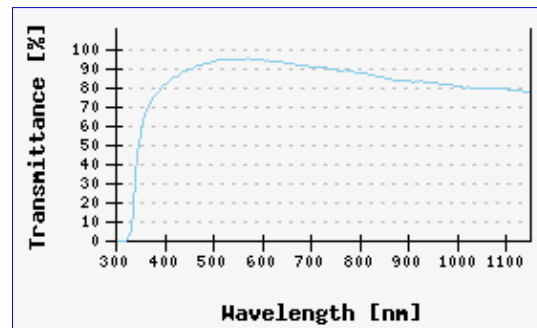
Objektenebene = object plane

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.

Fitting Accessories for

440040-0000-000 Objective "Achromplan" 20x/0.45

Other Accessories

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

000000-1095-168

[→ Picture](#)

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