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Carl Zeiss Microscopy, LLC  
 One Zeiss Drive  
 Thornwood, NY 10594  
 United States

micro@zeiss.com  
 +1 800 233 2343

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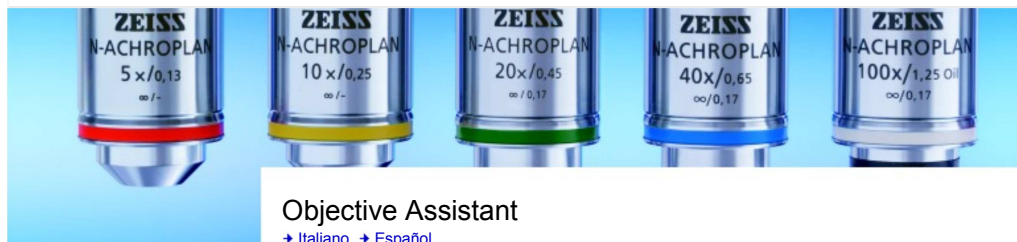
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## Objective Assistant

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### Objective data

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

**Objective Class: EC Plan-Neofluar**

Best universal objectives, ideal for fluorescence, high transmission →



**Objective EC Plan-Neofluar 40x/1.30 Oil DIC M27**

420462-9900-000

Price	<a href="#">→ Price</a>
Magnification	40x
Numerical Aperture	1.3
Working Distance [mm]	0.21
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

<b>Fluorescence</b>	■
- Multichannel	★★★★
- Ultraviolet Transmission	★★★★
- Infra Red Transmission	★★★
<b>BrightField (H)</b>	■
Differential Interference Contrast (DIC)	★★★★
High Contrast DIC (HC DIC)	
PlasDIC Contrast	
Phase Contrast (PH)	
VAREL Contrast	
Hoffman Modulation Contrast (HMC)	
Polarization Contrast (POL)	

#### Materials (Reflected Light) Applications

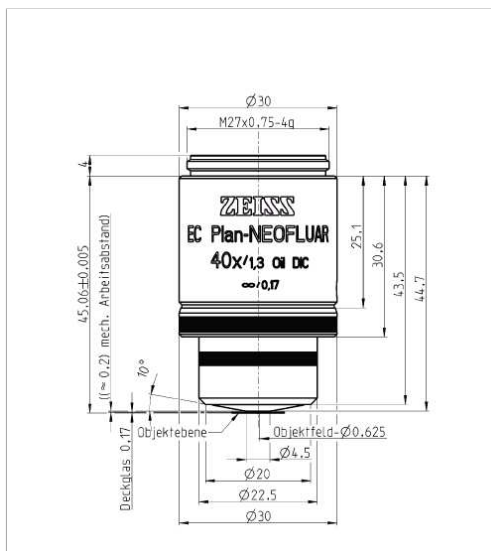
BrightField (H)	
BrightField/DarkField (HD)	
Reflected Light DIC (RL DIC)	
High Contrast DIC (HC DIC)	
DIC with circular polarized light (C-DIC)	
Total Interference Contrast (TIC)	
Polarization Contrast (POL)	
<b>Options</b>	
Confocal Microscopy	■
- Ultra Violet	★★★★
- VIS (visible light)	★★★★
NLO-IR / 2 Photon	★★
Total Internal Reflection Fluorescence (TIRF)	

#### Objective EC Plan-Neofluar 40x/1.30 Oil DIC M27



(WD=0.21mm), incl. Immersol 518 F, oiler 20ml and Cover glasses, high performance, D=0.17mm, box with 100 pc.

#### Mechanical Dimensions

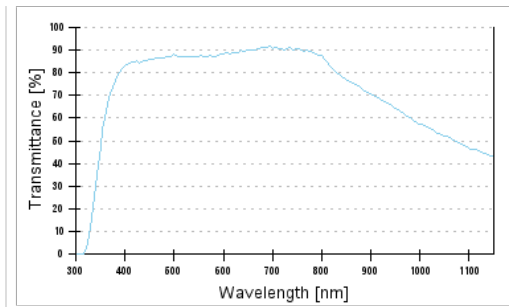


All measures in [mm]

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

#### Transmittance curve

ApoTome	■
Microdissection	

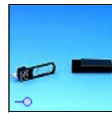


Please note that due to production tolerances, the given values are typical only and not guaranteed.

**Fitting Accessories for**

420462-9900-000 Objective EC Plan-Neofluar 40x/1.30 Oil DIC M27

**DIC sliders**



**DIC slider EC PN and Fluor 40x/1.30 III, PA 40x/0.95 III**  
**Order Number:** 426944-0000-000

[Price](#)

[Compatibility](#) [Basket](#)

**The contents of the basket can be:**  
 + ordered online  
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**Other Accessories**



**Adapter 30mm with optics and DIC slider mount**  
**Order Number:** 424516-9040-000  
 for adaptation of objectives M27 with parfocal length of 45 mm

[Price](#)

**Note:** This item is no longer available.

[Compatibility](#)



**Adapter 30mm with optics and DIC slider mount**  
**Order Number:** 424516-9041-000  
 for adaptation of objectives M27 with parfocal length of 45mm

[Price](#)

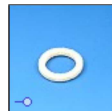
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**Cover glasses, high performance, D=0.17mm, box with 1000 pc.**  
**Order Number:** 474030-9000-000  
 Size 18x18 mm<sup>2</sup> type 1 1/2 H as per ISO 8255-1 with restricted thickness-related tolerance D=0.17 mm +/- 0.005 mm refractive index ...

[Price](#)

[Compatibility](#) [Basket](#)



**Immersion suction ring d=22.5 (10 pcs.)**  
**Order Number:** 444822-0000-000

[Price](#)

[Compatibility](#) [Basket](#)

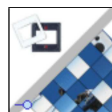


**Objective heater 22.5/32.5 S1 (D)**  
**Order Number:** 411860-9063-000  
 - with oil discharge channel - clamping via front dia. 22.5 mm - max. objective dia. 32.5 mm - temperature range of room temperaturu ...

[Price](#)

**Note:** This item is no longer available.

[Compatibility](#)



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

[Price](#)


**Note:** This item is no longer available.

[Compatibility](#)




**Objective heater 22.5/34 S1 (D)**  
**Order Number:** 411860-9064-000  
 - with oil discharge channel - clamping via front dia. 22.5 mm - max. objective dia. 34 mm - temperature range of room temperature ...

[→ Price](#) [Compatibility](#) [Basket](#)

 **Objective ring ACR for objective sleeve cylindrical long**  
**Order Number:** 424511-0000-000

[→ Price](#) [Compatibility](#) [Basket](#)

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

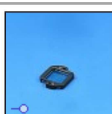
[→ Price](#) [Compatibility](#) [Basket](#)

 **Transmission grid M ApoTome for Axio Imager**  
**Order Number:** 423663-0000-000

[→ Price](#) [Compatibility](#) [Basket](#)


 **Transmission grid PL ApoTome for Axioplan 2**  
**Order Number:** 000000-1151-003

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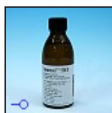
 **Transmission grid VL ApoTome for Axio Observer and Axiovert 200**  
**Order Number:** 000000-1151-004

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**Immersion**

 **Box of lens cleaning paper (300 sheets)**  
**Order Number:** 462975-0000-000


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 **Immersion oil Immersol 518 F fluorescence free, bottle 100 ml**  
**Order Number:** 444962-0000-000  
 (ISO 8036-1/2,  $n_D^{20}=1.518$  (23°C), halogen-free)


[→ Price](#) [Compatibility](#) [Basket](#)

 **Immersion oil Immersol 518 F fluorescence free, bottle 250 ml**  
**Order Number:** 444963-0000-000  
 (ISO 8036-1/2,  $n_D^{20}=1.518$  (23°C), halogen-free)

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 **Immersion oil Immersol 518 F fluorescence free, bottle 500 ml**  
**Order Number:** 444964-0000-000  
 (ISO 8036-1/2,  $n_D^{20}=1.518$  (23°C), halogen-free)

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 **Immersion oil Immersol 518 F fluorescence free, oiler 20 ml**  
**Order Number:** 444960-0000-000  
 (ISO 8036-1/2,  $n_D^{20}=1.518$  (23°C), halogen-free)

[→ Price](#) [Compatibility](#) [Basket](#)

