



MICROSCOPE COMPONENTS FOR TRANSMITTED LIGHT APPLICATIONS

Objectives



Condensers



Illumination Systems



Eyepiece Tubes



Eyepieces



Nosepieces



CCTV Camera Adapters



Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. June 2007. ©1997-07 NIKON CORPORATION



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Yokohama Plant

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for Brightfield/Phase Contrast (DLL) 8~9

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- CFI Plan Fluor 10x / CFI Plan Fluor DLL 10x
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- Quartz Epi-FI Collector Lens
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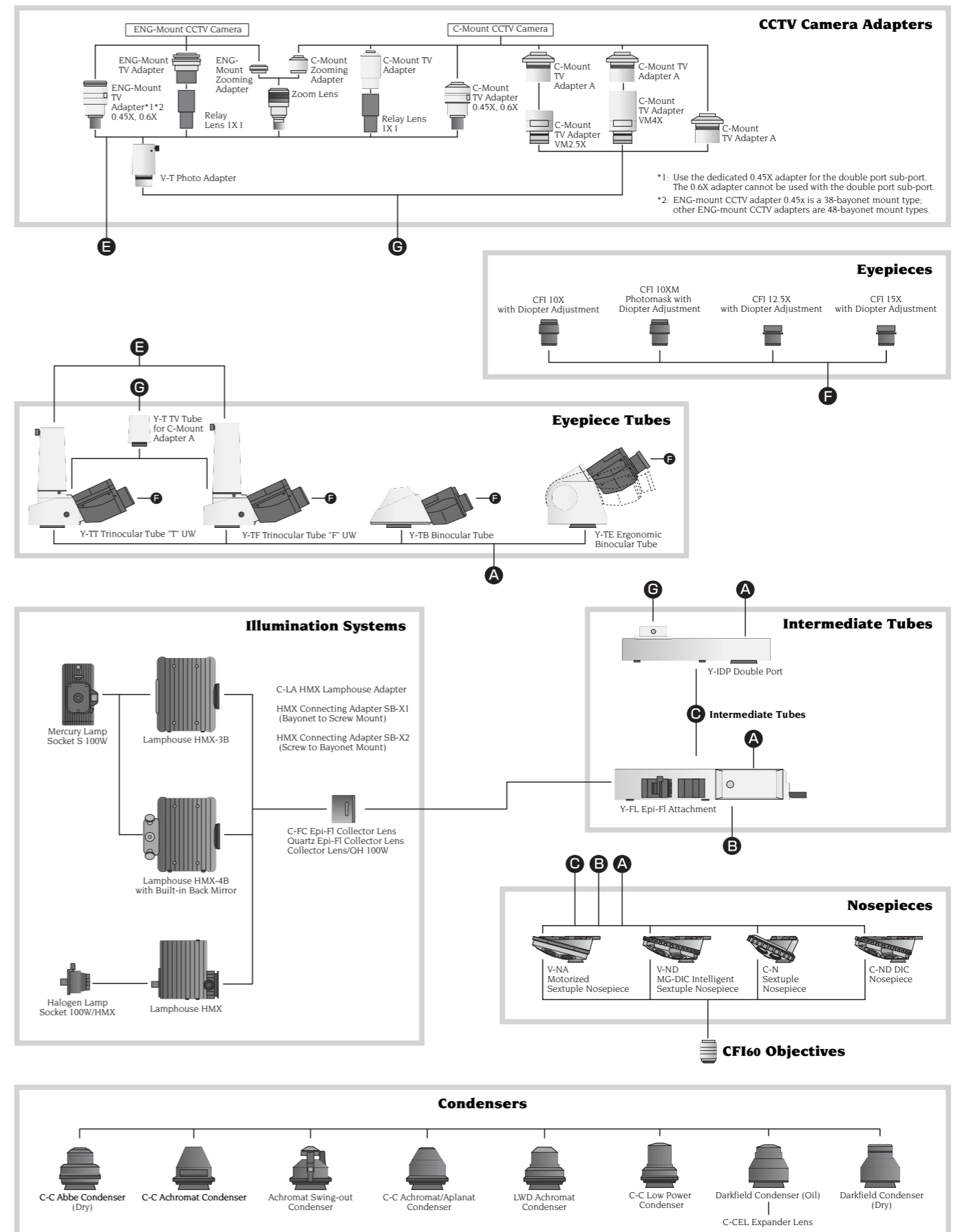
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- ENG-Mount Zooming Adapter
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- ENG-Mount TV Adapter 0.6x (for Trinocular Tube "F", "T")
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- C-Mount TV Adapter VM 4x

System Diagram



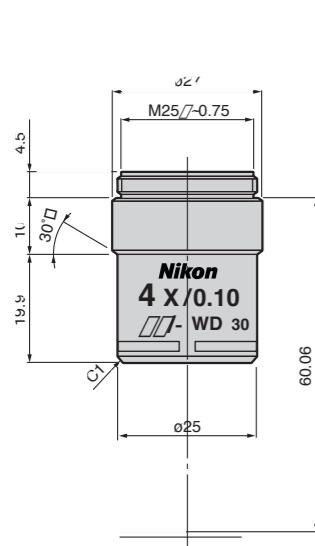
CFI₆₀ OBJECTIVES

CFI Achromat Series for Brightfield/Phase Contrast (DL)

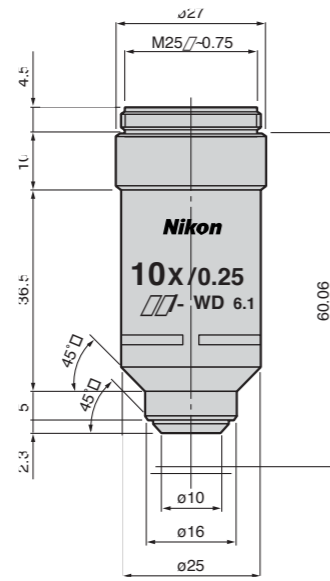
Correction for chromatic aberration in these objectives have been dramatically improved and are at the same level as the CFI Plan Achromat Series. These objectives were also corrected for spherical aberration and coma and image flatness across the 22mm field of view has been drastically improved.

The result: truly exceptional quality for this class of objectives.

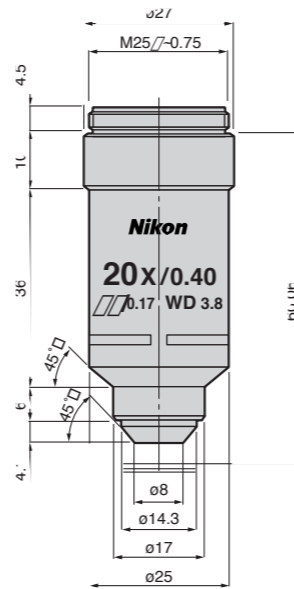
The DL phase contrast objectives in this series have more contrast than the DLL objectives for enhanced contrast with unstained specimens.



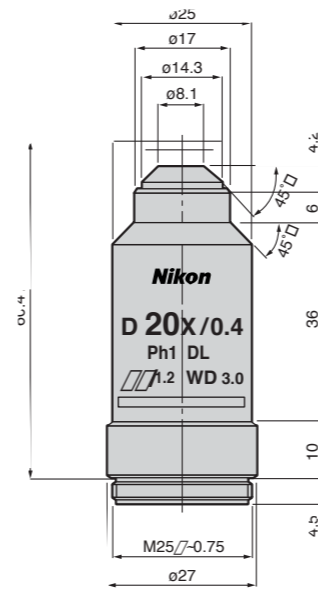
CFI Achromat 4x



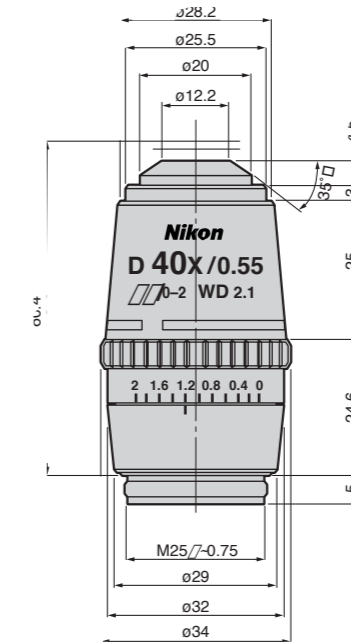
**CFI Achromat 10x
CFI Achromat DL 10x**



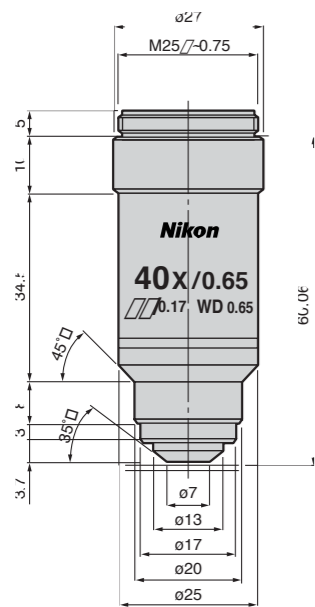
**CFI Achromat LWD 20x
CFI Achromat LWD DL 20x**



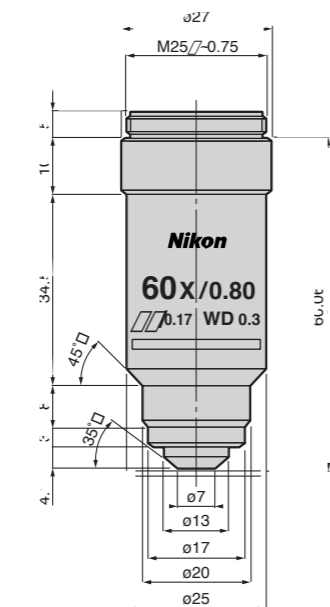
CFI Achromat LWD DL 20x F



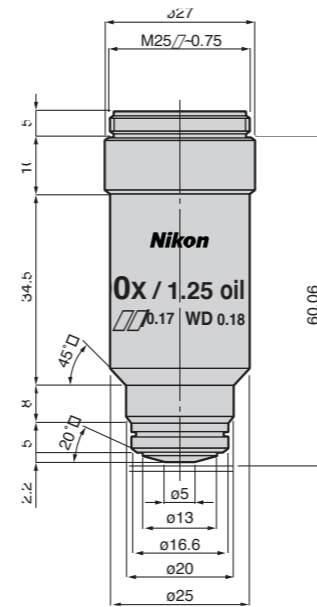
**CFI Achromat LWD 40x C
CFI Achromat LWD DL 40x C**



**CFI Achromat 40x
CFI Achromat DL 40x**



CFI Achromat 60x



**CFI Achromat 100x Oil
CFI Achromat DL 100x Oil**

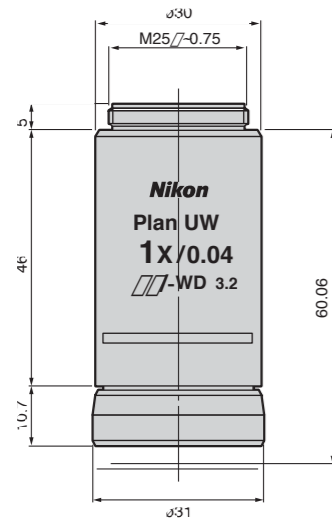
Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks	Phase ring
CFI Achromat 4x	0.10	30.0	50.0	27.50	72		
CFI Achromat 10x	0.25	6.1	20.0	4.40	85		
CFI Achromat DL 10x	0.25	6.1	20.0	4.40	85		ph1
CFI Achromat LWD 20x	0.40	3.8	10.0	1.72	90		
CFI Achromat LWD DL 20x	0.40	3.8	10.0	1.72	90		ph1
CFI Achromat 40x	0.65	0.65	5.0	0.65	130	Spring-loaded	
CFI Achromat DL 40x	0.65	0.65	5.0	0.65	130	Spring-loaded	ph2
CFI Achromat 60x	0.80	0.3	3.3	0.43	130	Spring-loaded	
CFI Achromat 100x Oil	1.25	0.18	2.0	0.27	130	Spring-loaded	
CFI Achromat DL 100x Oil	1.25	0.18	2.0	0.27	130	Spring-loaded	ph3
CFI Achromat LWD DL 20x F	0.40	3.0	10.0	1.72	90	Cover glass thickness 1.2mm	ph1
CFI Achromat LWD 40x C	0.55	2.7-1.7	5.0	0.91	195	Cover glass correction 0.2mm	
CFI Achromat LWD DL 40x C	0.55	2.7-1.7	5.0	0.91	195	Cover glass correction 0.2mm	ph2

CFI₆₀ OBJECTIVES

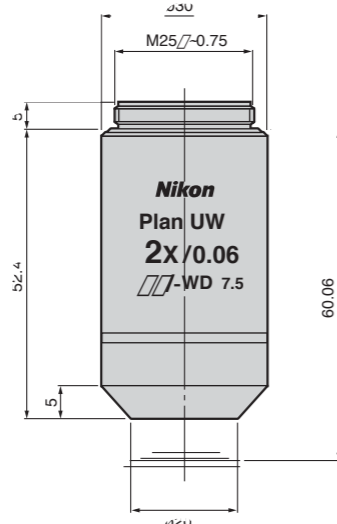
CFI Plan Achromat Series for Brightfield/Phase Contrast (DL)

These objectives provide incredible image flatness over the entire 25mm field of view, with chromatic aberration corrected throughout the entire visible spectrum. These objectives are suitable not only for routine laboratory work but for photomicrography.

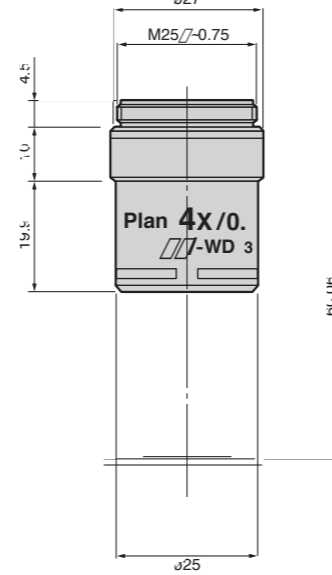
The DL phase contrast objectives in this series have more contrast than the DLL objectives for enhanced contrast with unstained specimens.



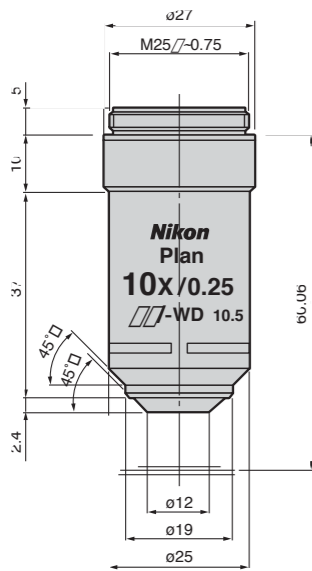
CFI Plan Achromat UW 1x



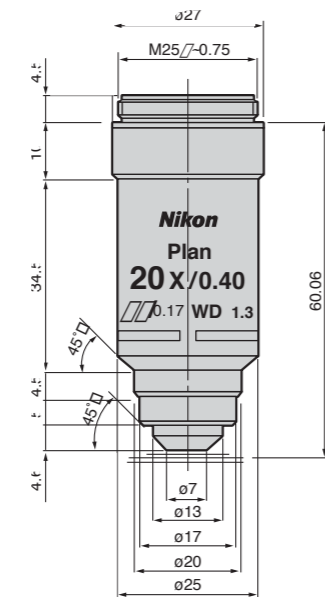
CFI Plan Achromat UW 2x



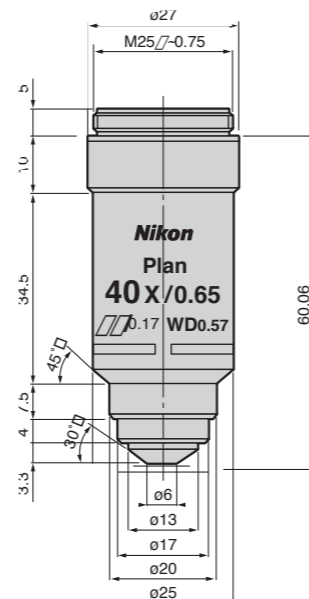
CFI Plan Achromat 4x



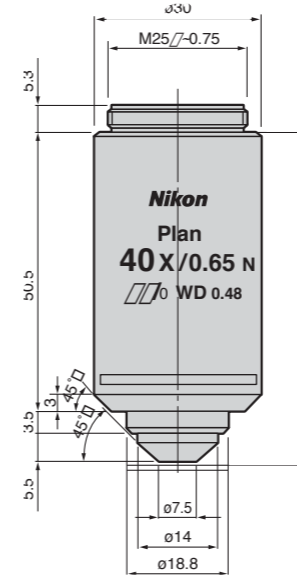
CFI Plan Achromat 10x
CFI Plan Achromat DL 10x



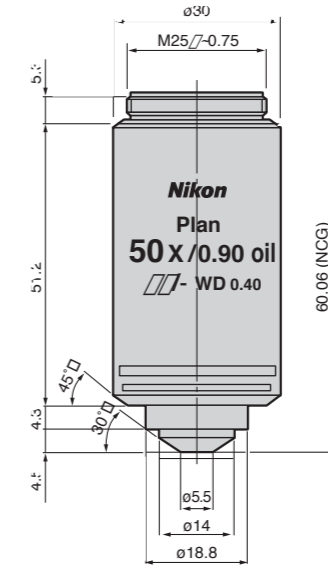
CFI Plan Achromat 20x
CFI Plan Achromat DL 20x



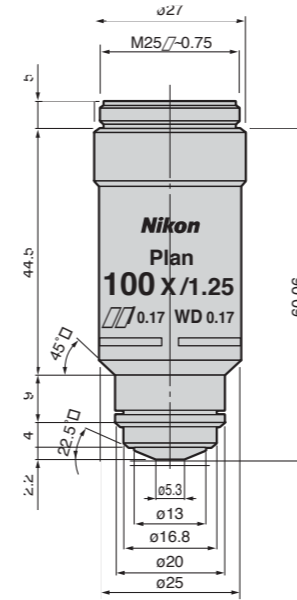
CFI Plan Achromat 40x
CFI Plan Achromat DL 40x



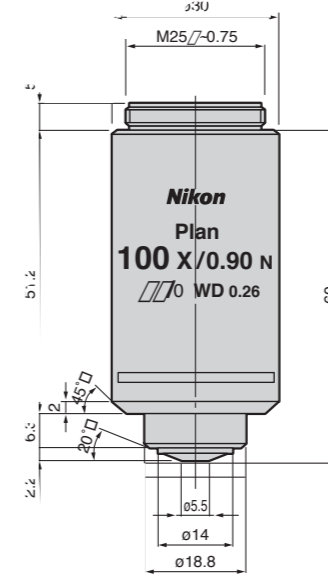
CFI Plan Achromat 40x NCG



CFI Plan Achromat 50x Oil



CFI Plan Achromat 100x Oil
CFI Plan Achromat DL 100x Oil



CFI Plan Achromat 100x NCG

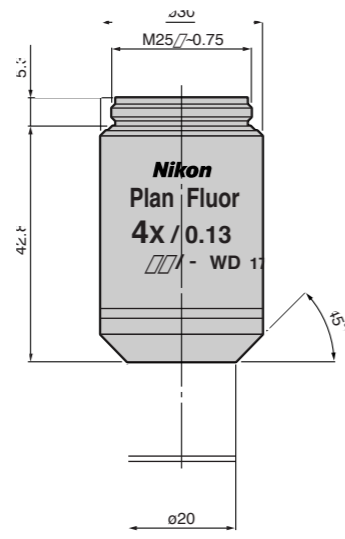
Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks	Phase ring
CFI Plan Achromat UW 1x	0.04	3.2	200.0	171.88	180		
CFI Plan Achromat UW 2x	0.06	7.5	100.0	76.39	110		
CFI Plan Achromat 4x	0.10	30.0	50.0	27.50	65		
CFI Plan Achromat 10x	0.25	10.5	20.0	4.40	85		
CFI Plan Achromat DL 10x	0.25	10.5	20.0	4.40	85		ph1
CFI Plan Achromat 20x	0.40	1.3	20.0	1.72	85		
CFI Plan Achromat DL 20x	0.40	1.3	20.0	1.72	85		ph1
CFI Plan Achromat 40x	0.65	0.57	5.0	0.65	115	Spring-loaded	
CFI Plan Achromat DL 40x	0.65	0.57	5.0	0.65	115	Spring-loaded	ph2
CFI Plan Achromat 40x NCG	0.65	0.48	5.0	0.65	160	Spring-loaded	No cover glass
CFI Plan Achromat 50x Oil	0.90	0.4	4.0	0.52	160	Spring-loaded	
CFI Plan Achromat 100x Oil	1.25	0.17	3.3	0.52	160	Spring-loaded	
CFI Plan Achromat DL 100x Oil	1.25	0.17	3.3	0.52	160	Spring-loaded	ph3
CFI Plan Achromat 100x NCG	0.90	0.26	2.0	0.18	160	Spring-loaded	No cover glass

CFI60 OBJECTIVES

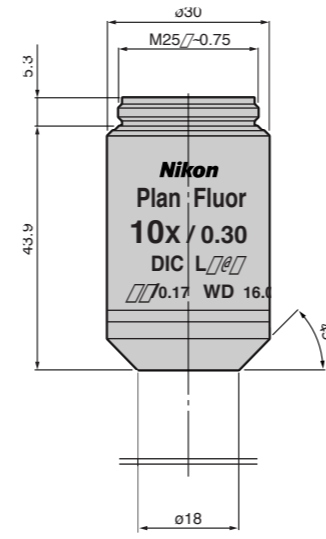
CFI Plan Fluor Series for Brightfield/Phase Contrast (DLL)

Featuring an extra-high transmission rate, especially in the ultraviolet wavelength, and flatness of field comparable to the CFI Plan Achromat series, these objectives are designed for fluorescence observation and photomicrography. Because of this improvement in quality, these objectives can function as multi-purpose objectives for brightfield, fluorescence, polarizing, and DIC observations.

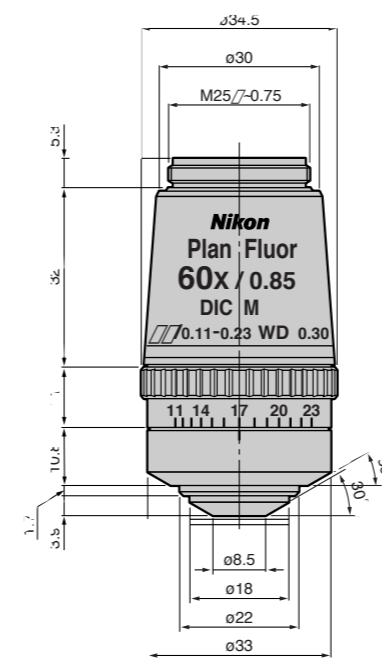
The DLL (low contrast) phase objectives for this series can also be used as universal objectives for phase contrast, fluorescence, DIC, and brightfield techniques.



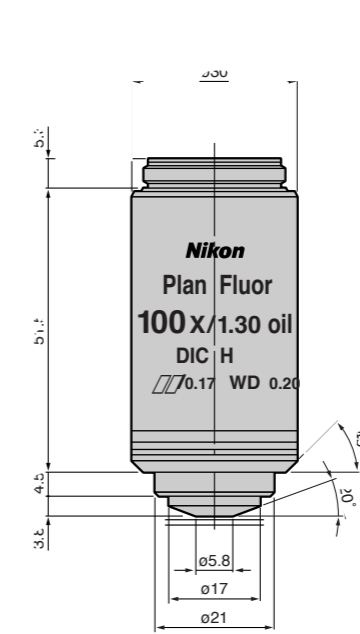
CFI Plan Fluor 4x



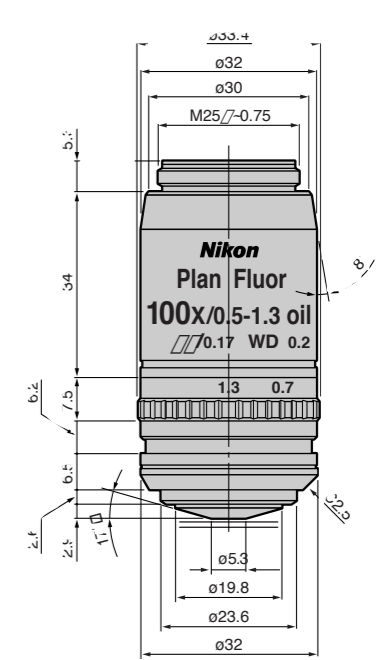
CFI Plan Fluor 10x
CFI Plan Fluor DLL 10x



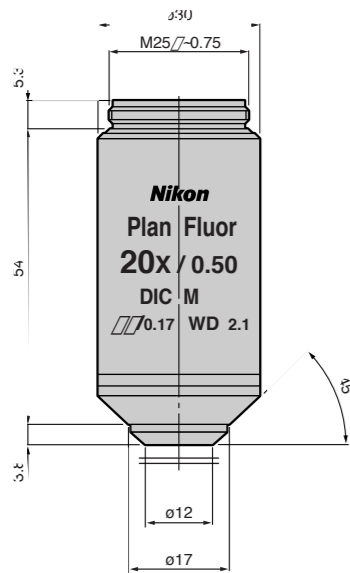
CFI Plan Fluor 60x C



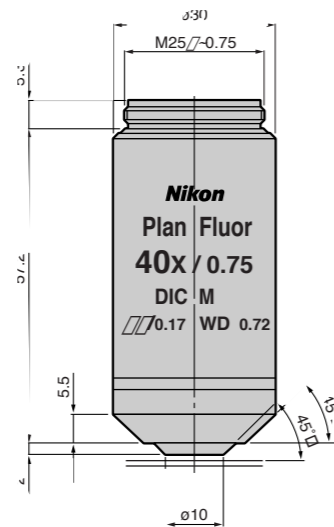
CFI Plan Fluor 100x Oil
CFI Plan Fluor DLL 100x Oil



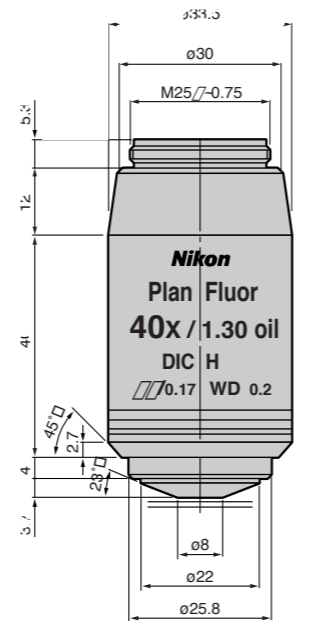
CFI Plan Fluor 100x Oil with
iris diaphragm



CFI Plan Fluor 20x
CFI Plan Fluor DLL 20x



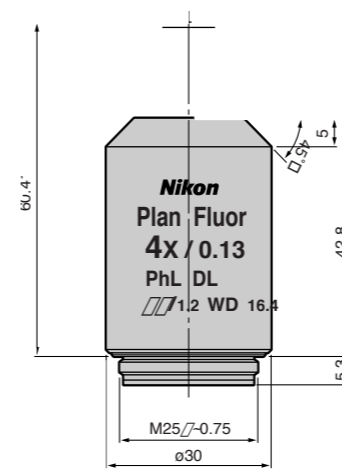
CFI Plan Fluor 40x
CFI Plan Fluor DLL 40x



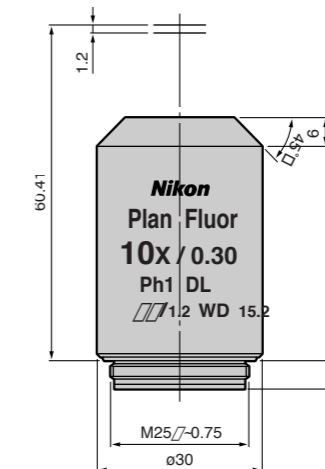
CFI Plan Fluor 40x Oil

CFI Plan Fluor Series for Phase Contrast (DL)

These objectives have more contrast than the DLL objectives for enhanced contrast with tissue culture specimens. These objectives are designed for use on inverted microscopes and therefore their markings are upside-down for easy reading.



CFI Plan Fluor DL 4x



CFI Plan Fluor DL 10x

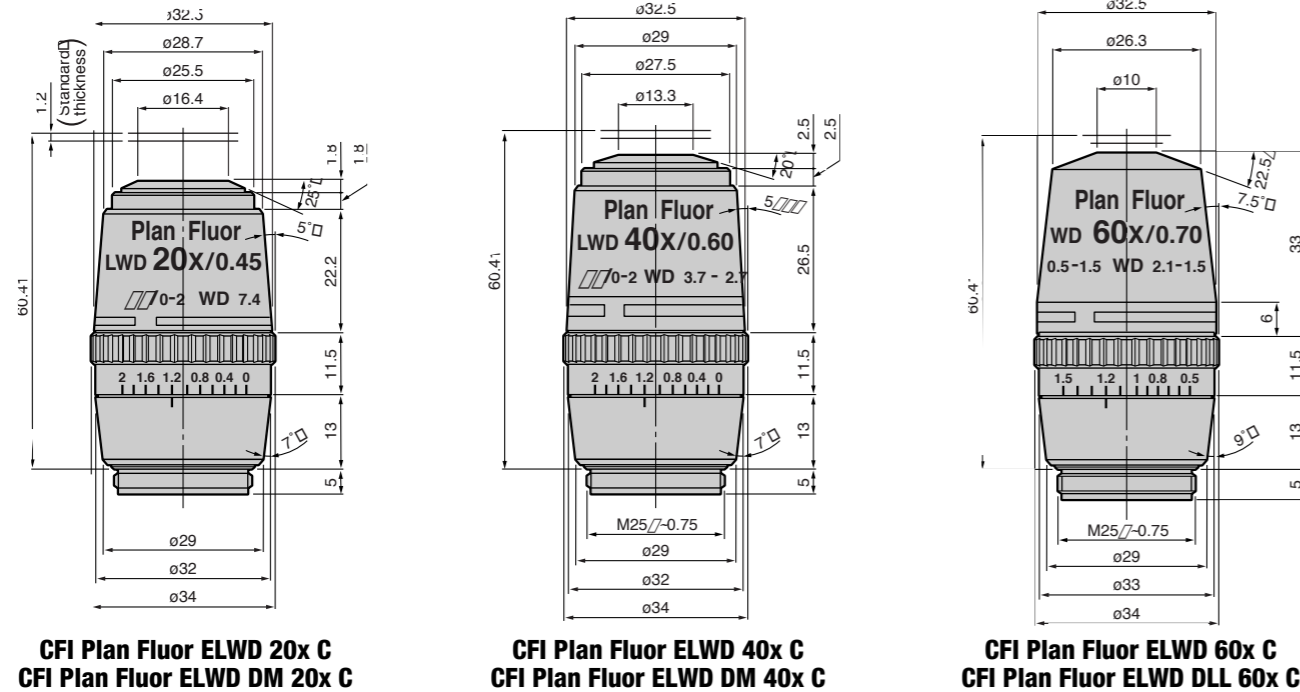
Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks	Phase ring
CFI Plan Fluor 4x	0.13	17.1	50.0	16.27	110		
CFI Plan Fluor 10x	0.30	16.0	20.0	3.06	120		ph1
CFI Plan Fluor DLL 10x	0.30	16.0	20.0	3.06	120		
CFI Plan Fluor 20x	0.50	2.1	10.0	1.10	175		
CFI Plan Fluor DLL 20x	0.50	2.1	10.0	1.10	175		ph1
CFI Plan Fluor 40x	0.75	0.72	5.0	0.49	210	Spring-loaded	
CFI Plan Fluor DLL 40x	0.75	0.72	5.0	0.49	210	Spring-loaded	ph2
CFI Plan Fluor 40x Oil	1.30	0.2	5.0	0.25	230	Spring-loaded Stopper	
CFI Plan Fluor 60x C	0.85	0.3	3.3	0.38	265	Spring-loaded Cover glass correction 0.11-0.23mm	
CFI Plan Fluor 100x Oil	1.30	0.2	2.0	0.25	250	Spring-loaded Stopper	
CFI Plan Fluor DLL 100x Oil	1.30	0.2	2.0	0.25	250	Spring-loaded Stopper	ph3
CFI Plan Fluor 100x Oil with iris diaphragm	0.5-1.3	0.2	2.0	0.25	285	Spring-loaded With iris diaphragm	

Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks	Phase ring
CFI Plan Fluor DL 4x	0.13	16.4	50.0	16.27	105	Cover glass thickness 1.2mm	phL
CFI Plan Fluor DL 10x	0.30	15.2	20.0	3.06	120	Cover glass thickness 1.2mm	ph1

CFI60 OBJECTIVES

CFI Plan Fluor ELWD Series for Brightfield/Phase Contrast (DM/DLL)

Offering superb flatness of field, high UV transmission rates, and high Numerical Apertures with extra long working distances, these objectives are well suited for fluorescence observations, especially with inverted microscopes. Because of their superior optical design, CFI Plan Fluor ELWD DM objectives can be used universally for all other observation techniques, including brightfield, fluorescence, phase contrast, and Nomarski DIC. The DM phase contrast objectives have higher contrast to enhance the image of very thin, highly detailed specimens with low phase gradients. The DLL objectives have less contrast for thicker, more contrasty specimens.



CFI Plan Fluor ELWD 20x C
CFI Plan Fluor ELWD DM 20x C

CFI Plan Fluor ELWD 40x C
CFI Plan Fluor ELWD DM 40x C

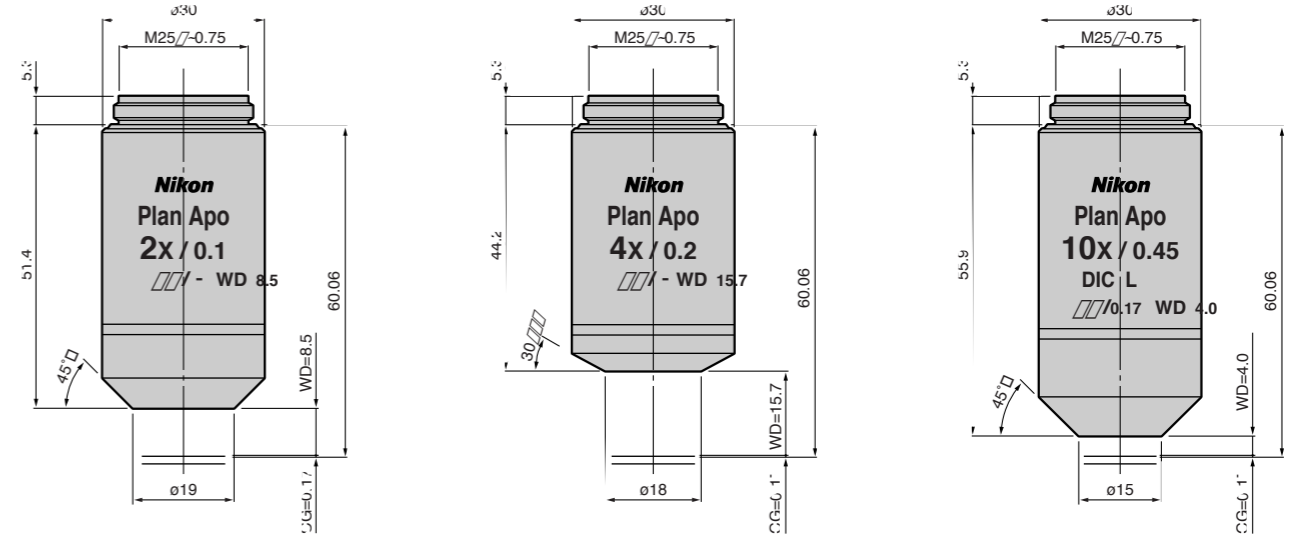
CFI Plan Fluor ELWD 60x C
CFI Plan Fluor ELWD DLL 60x C

Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks	Phase ring
CFI Plan Fluor ELWD 20x C	0.45	8.1-7.0	10.0	1.36	195	Cover glass correction 0-2mm	ph1
CFI Plan Fluor ELWD DM 20x C	0.45	8.1-7.0	10.0	1.36	195	Cover glass correction 0-2mm	
CFI Plan Fluor ELWD 40x C	0.60	3.7-2.7	5.0	0.76	195	Cover glass correction 0-2mm	ph2
CFI Plan Fluor ELWD DM 40x C	0.60	3.7-2.7	5.0	0.76	195	Cover glass correction 0-2mm	
CFI Plan Fluor ELWD 60x C	0.70	2.1-1.5	3.3	0.56	210	Cover glass correction 0.5-1.5mm	ph2
CFI Plan Fluor ELWD DLL 60x C	0.70	2.1-1.5	3.3	0.56	210	Cover glass correction 0.5-1.5mm	

CFI Plan Achromat Series for Brightfield/Phase Contrast (DM)

These objectives feature longer working distances with high Numerical Apertures and is designed to correct all optical aberrations throughout the visible spectrum from violet to red from center to edges across the entire 25mm field of view. Superior image flatness and color reproduction, plus resolving power at the theoretical limit of today's optical technology are also featured.

The DM phase contrast Plan Achromats have higher contrast to enhance images of very thin, highly detailed specimens with low phase gradients.



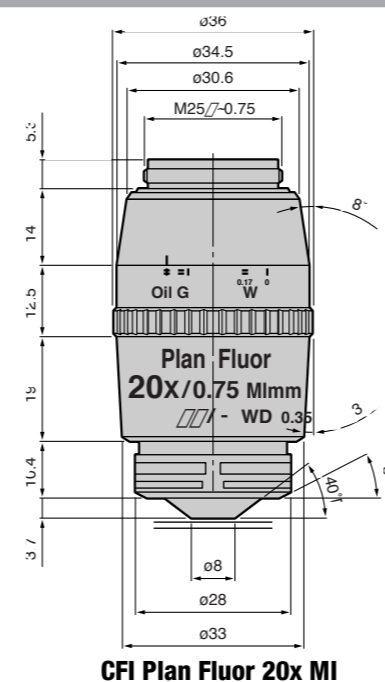
CFI Plan Achromat 2x

CFI Plan Achromat 4x

CFI Plan Achromat 10x

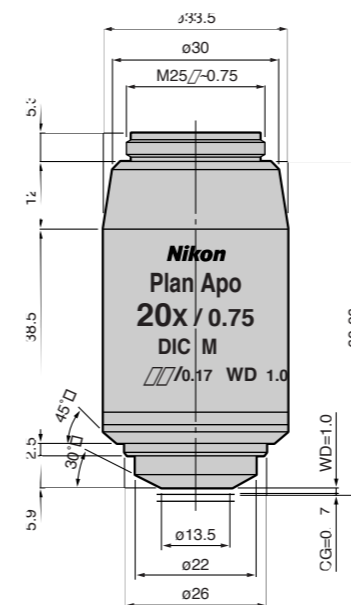
Multi-Immersion Objective for Brightfield

This multi-purpose immersion objective has a higher numerical aperture and superior contrast. The use of immersion media helps eliminate surface reflections and provides an image with higher contrast. It is an excellent objective for fluorescence, brightfield, and DIC observation techniques. This unique objective has a correction collar that allows it to be used with immersion oil, glycerin, and water (with and without a cover glass).

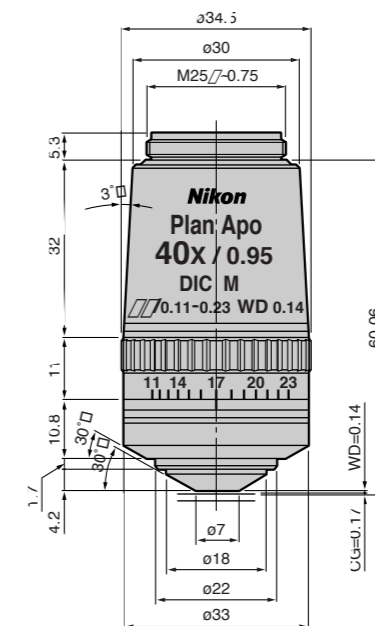


CFI Plan Fluor 20x MI

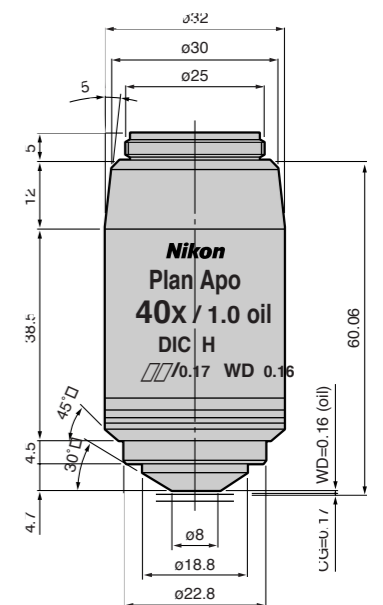
Objective (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks
CFI Plan Fluor 20x MI	0.75	0.35-0.33	10.0	0.49	300	Multi-immersion Oil-glycerine-water



CFI Plan Achromat 20x
CFI Plan Achromat DM 20x



CFI Plan Achromat 40x C
CFI Plan Achromat DM 40x C

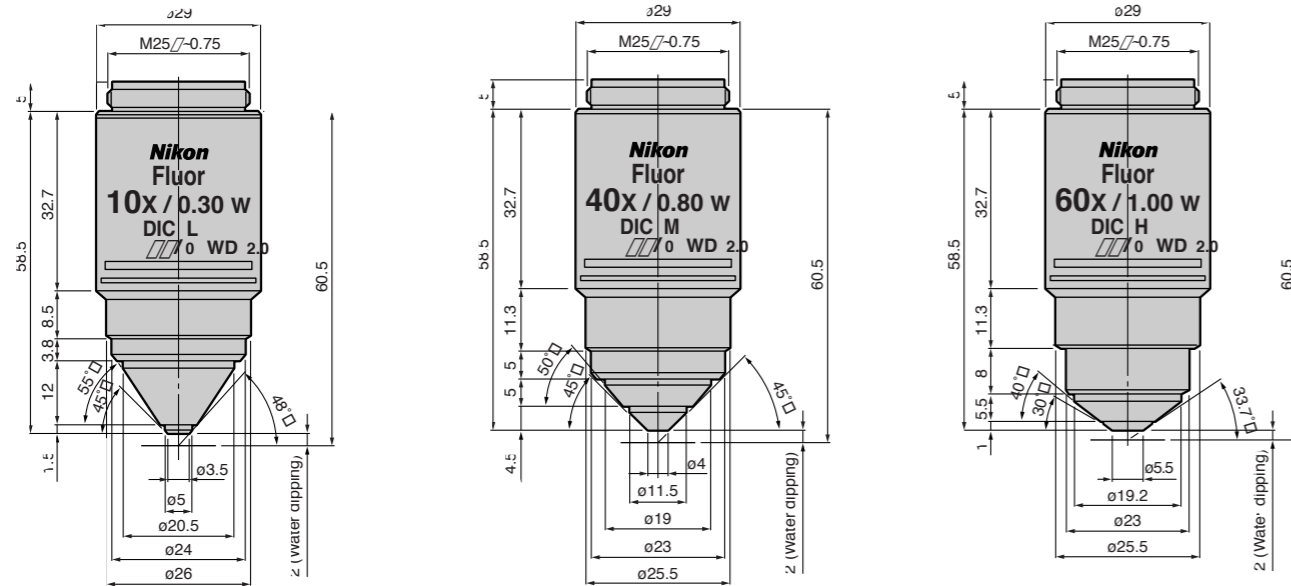


CFI Plan Achromat 40x Oil
CFI Plan Achromat DM 40x Oil

CFI60 OBJECTIVES

Water Dipping Series

These objectives (no cover glass) are designed with a narrow top and a 2mm working distance to allow microelectrodes to be inserted into the specimen at 45°. They use ceramic and glass nose cones to isolate them thermally and electronically. Since they are FLUOR lenses, they are designed for fluorescence and have very high transmission in the UV and IR wavelengths with a high signal-to-noise ratio for superior images.



CFI Fluor 10x W

CFI Fluor 40x W

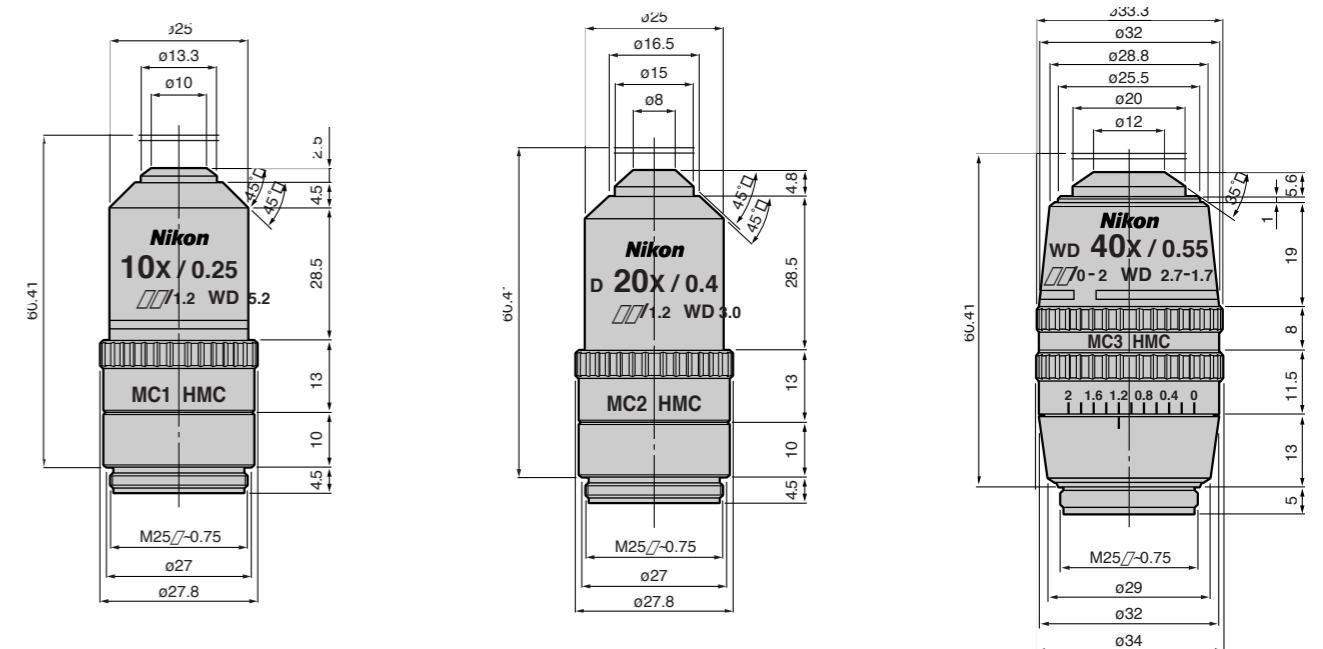
CFI Fluor 60x W

Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks
CFI Fluor 10x W	0.30	2.0	20.0	4.06	210	Water dipping
CFI Fluor 40x W	0.80	2.0	5.0	0.57	210	Water dipping
CFI Fluor 60x W	1.0	2.0	3.3	0.37	210	Water dipping

CFI HMC® Series for Hoffmann Modulation Contrast®

These objectives have been completely redesigned by Nikon, allowing the contrast direction to be changed using a modulator inside the objective. That direction, once set, is maintained over the entire magnification range from 10X to 40X.

Note: Hoffman Modulation Contrast and HMC are registered trademarks of Modulation Optics Inc.



CFI HMC 10x

CFI HMC 20x F

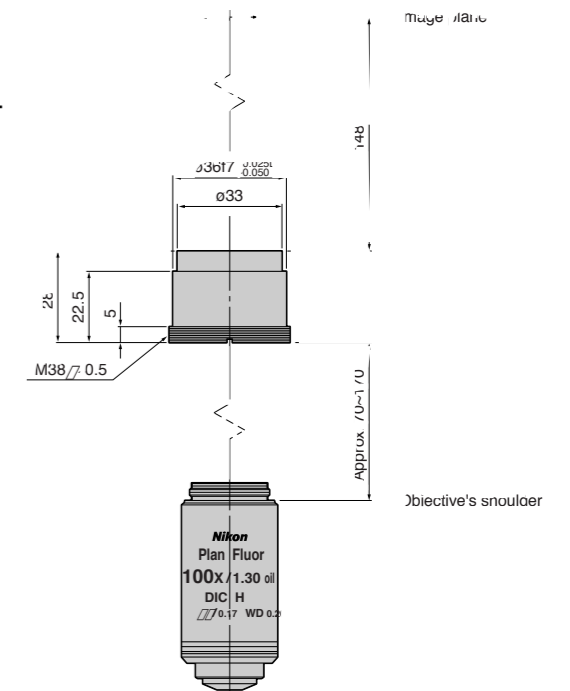
CFI HMC LWD 40x C

Objectives (magnification)	N.A.	W.D. (mm)	Focal length (mm)	Physical depth of focus (μm)	Weight (g)	Remarks
CFI HMC 10x	0.25	5.2	20.0	4.40	130	Cover glass thickness 1.2mm
CFI HMC 20x F	0.40	3.0	10.0	1.72	130	Cover glass thickness 1.2mm
CFI HMC LWD 40x C	0.55	2.7-1.7	5.0	0.91	210	Cover glass correction 0-2mm

2nd Objective Lens Unit

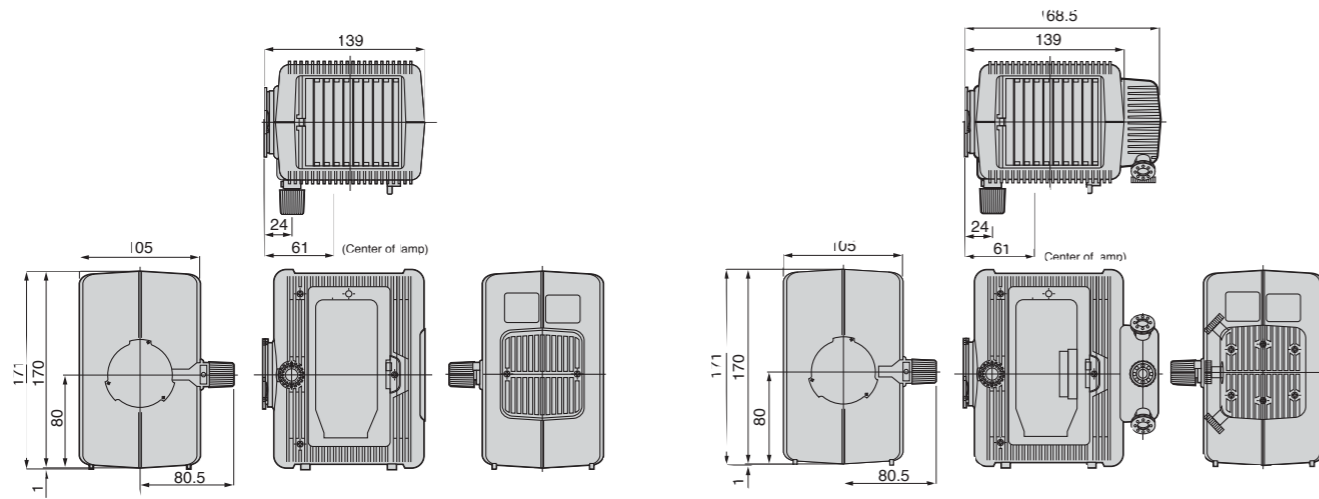
This unit is attached to infinity objectives when neither a binocular or trinocular eyepiece tube is used.

- Infinity Tube Lens Unit for CFI objectives (chromatic aberration-free infinity corrected objectives).
- Focusing distance: 200mm (7.87 in.)
- To obtain the optimal objective performance, keep the distance between the tube lens and the objective's shoulder within 100-200 mm (3.84-7.87 in.).



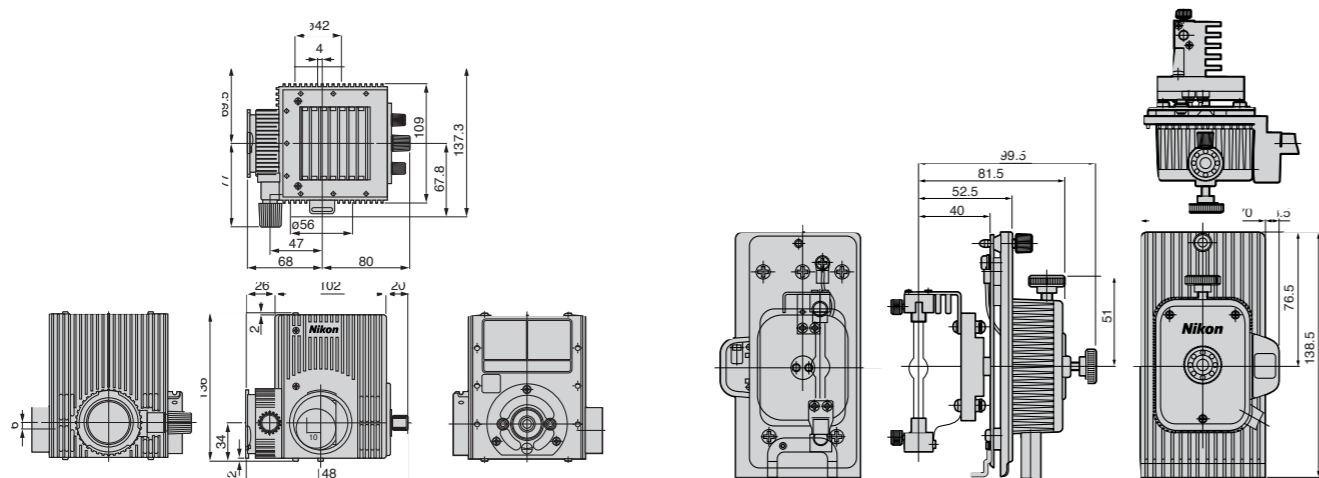
2nd Objective Lens Unit

Illumination Systems



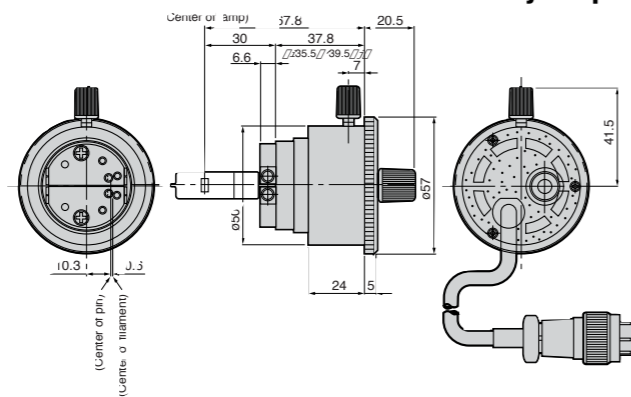
Lamphouse HMX-3B

Lamphouse HMX-4B, built-in back mirror

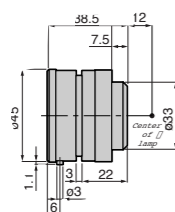


Lamphouse HMX

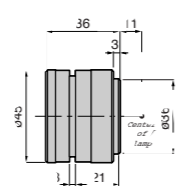
Mercury Lamp Socket S 100W for HMX-3B



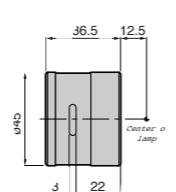
Halogen Lamp Socket 100W/HMX



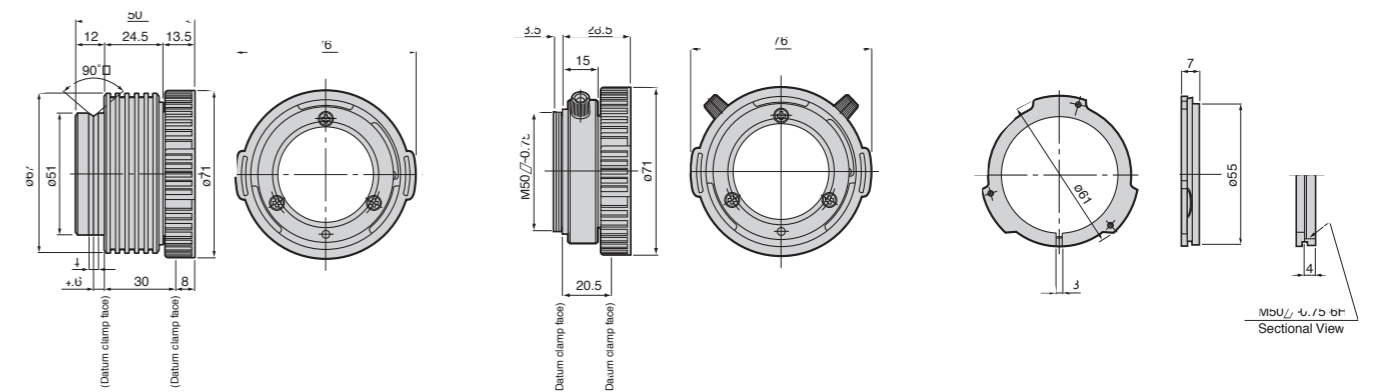
C-FC Epi-FI Collector Lens



Quartz Epi-FI Collector Lens



Collector Lens/QH100W

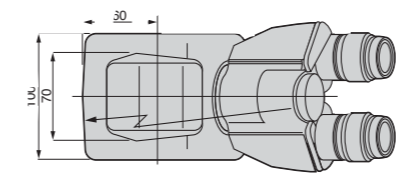


C-LA HMX Lamphouse Adapter

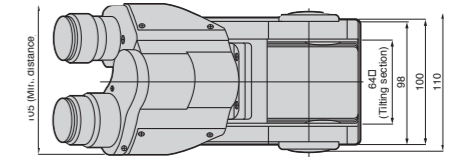
HMX Connecting Adapter SB-X1 (Bayonet to Screw)

HMX Connecting Adapter SB-X2 (Screw to Bayonet)

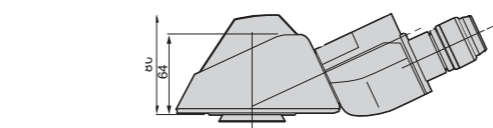
Eyepiece Tubes



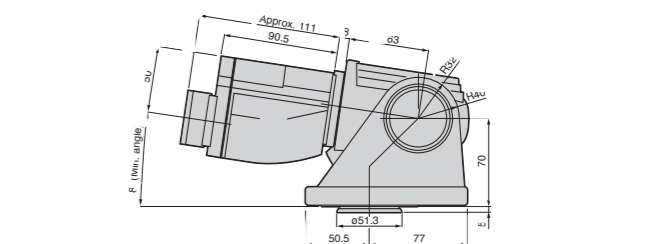
Y-TB Binocular Tube



Y-TE Ergonomic Binocular Tube



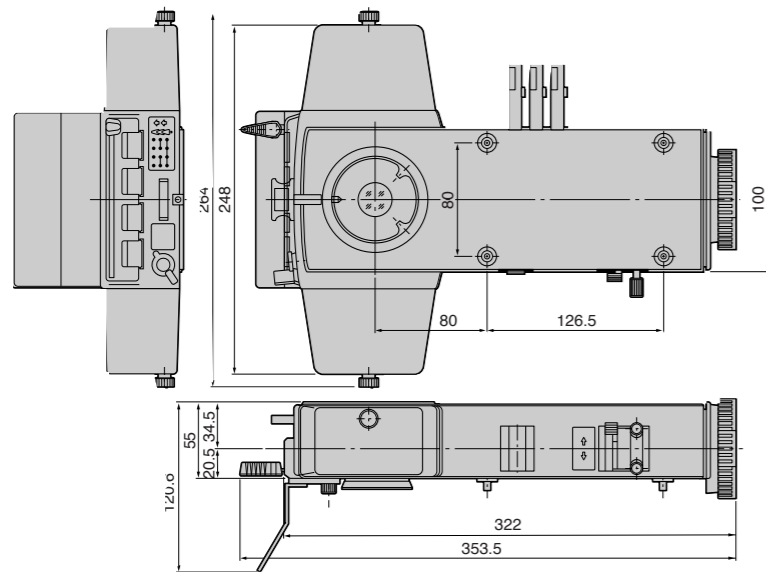
Y-TF Trinocular Tube "F" UW



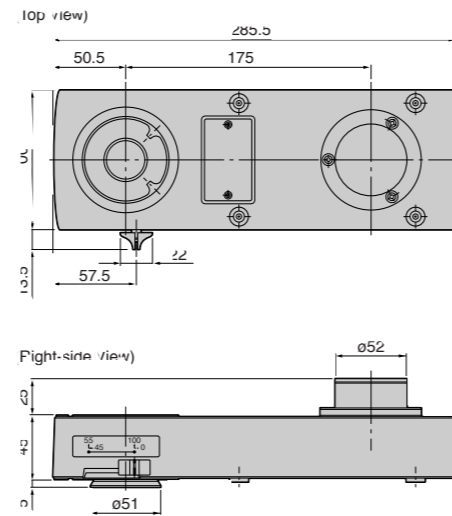
Y-TT Trinocular Tube "T" UW

Y-TB Binocular Tube	F.O.V. 22mm
Y-TE Ergonomic Binocular Tube	F.O.V. 22mm with tilting angle of 8° to 32° and telescopic mechanism of ±15mm movement
Y-TF Trinocular Tube "F" UW	Two-way: 100 : 0 or 0 : 100 (observation : photo) F.O.V. 22mm or 25mm with eyepiece reticule orientation adjustment mechanism
Y-TT Trinocular Tube "T" UW	Three-way: 100 : 0, 20 : 80, or 0 : 100 (observation : photo) F.O.V. 22mm or 25mm with eyepiece reticule orientation adjustment mechanism

Intermediate Tubes

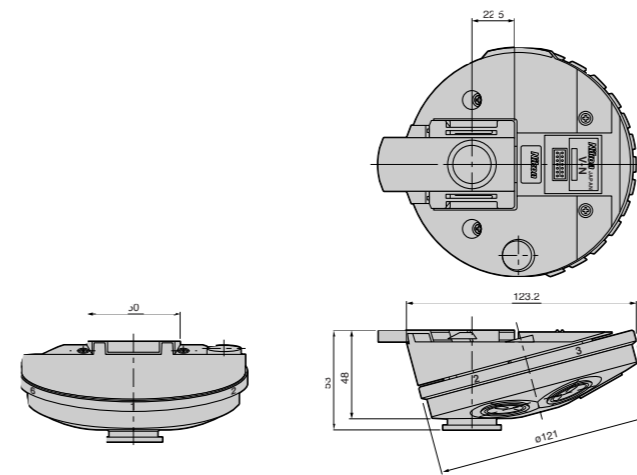


Y-FL Epi-FI Attachment

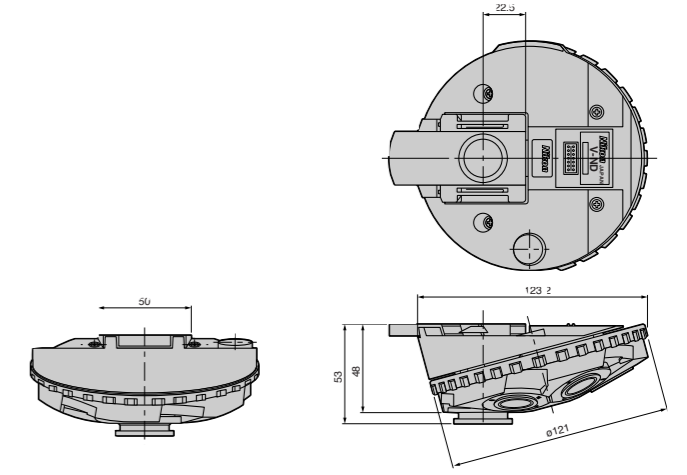


Y-IDP Double Port

Nosepieces

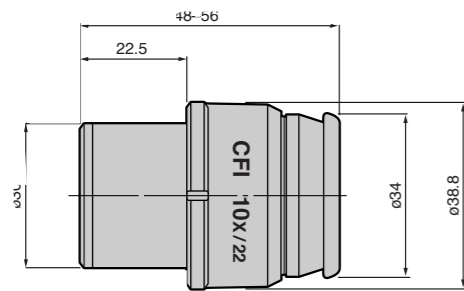


V-NA Motorized Sextuple Nosepiece

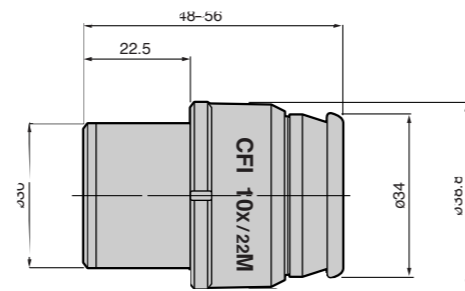


V-ND MG-DIC Intelligent Sextuple Nosepiece

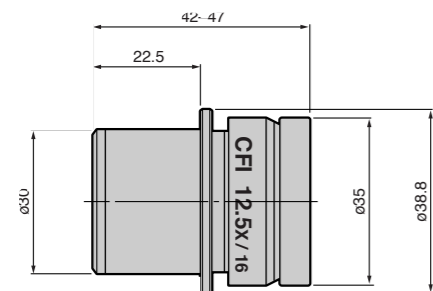
Eyepieces



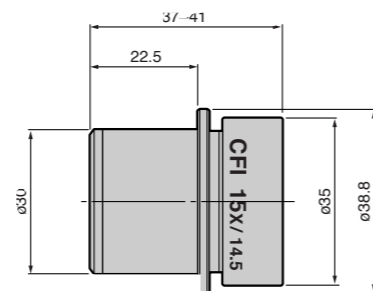
CFI 10x with diopter adjustment



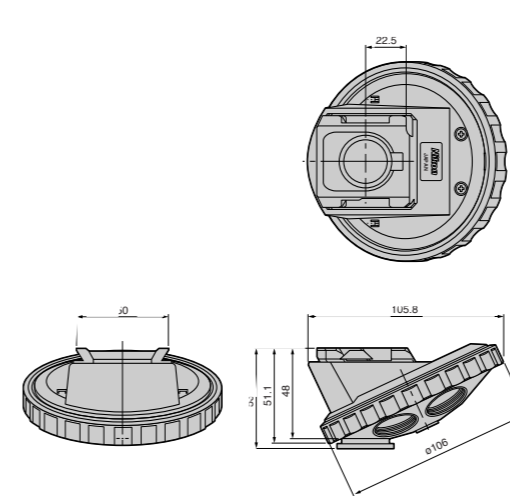
CFI 10x M Photomask with diopter adjustment



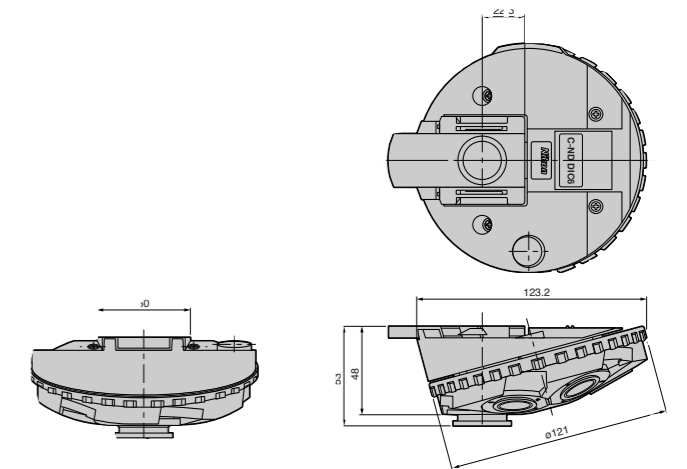
CFI 12.5x with diopter adjustment



CFI 15x with diopter adjustment



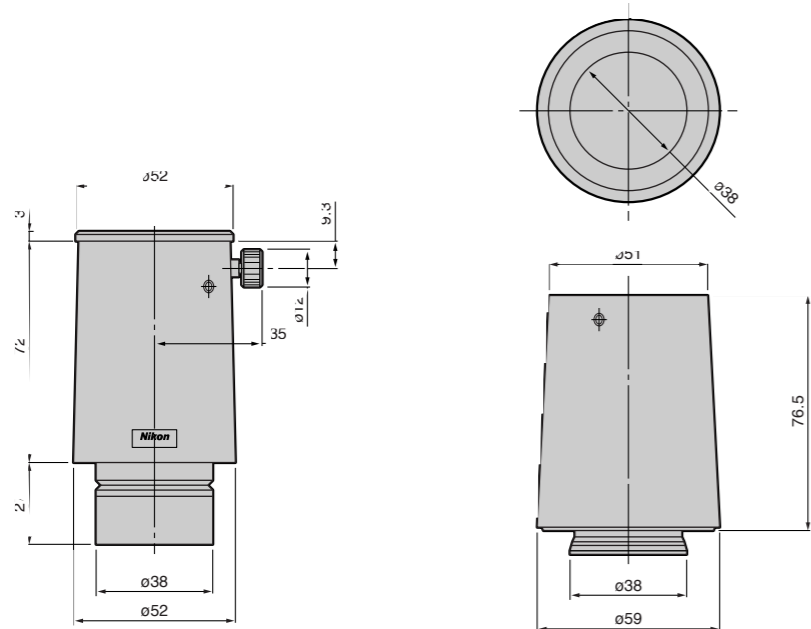
C-N Sextuple Nosepiece



C-ND Sextuple DIC Nosepiece

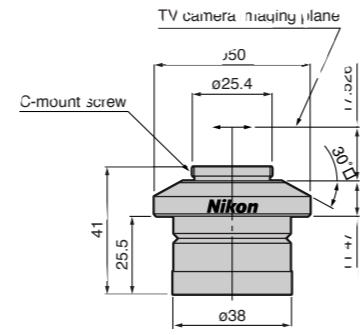
Type (magnification)	F.O.V.	Remarks
CFI 10x with diopter adjustment	22mm	
CFI 10x M Photomask with diopter adjustment	22mm	With photomask reticule
CFI 12.5x with diopter adjustment	16mm	
CFI 15x with diopter adjustment	14.5mm	

CCTV Camera Adapters

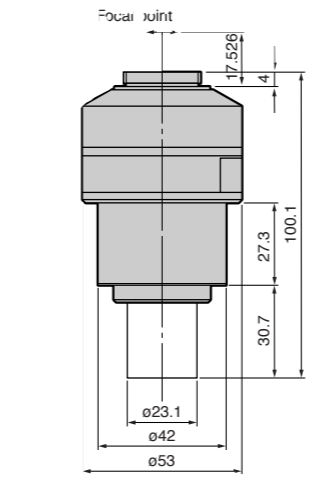


V-T Photo Adapter

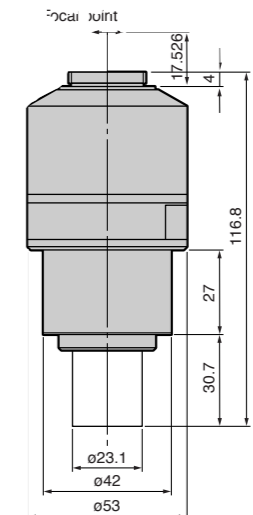
Y-T TV Tube for C-Mount Adapter A



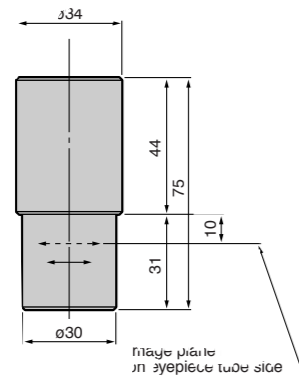
C-Mount TV Adapter A



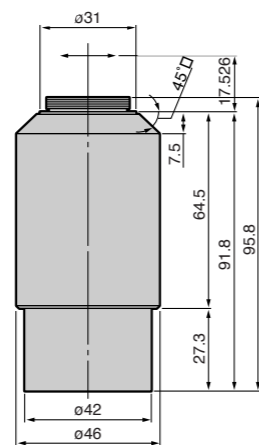
C-Mount TV Adapter 0.45x



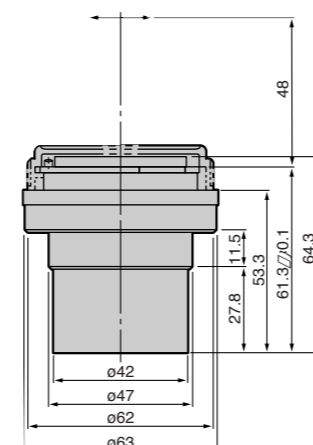
C-Mount TV Adapter 0.6x



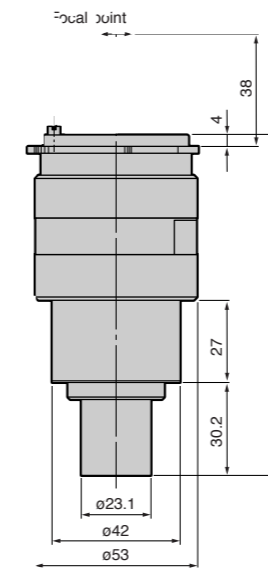
Relay Lens 1x I



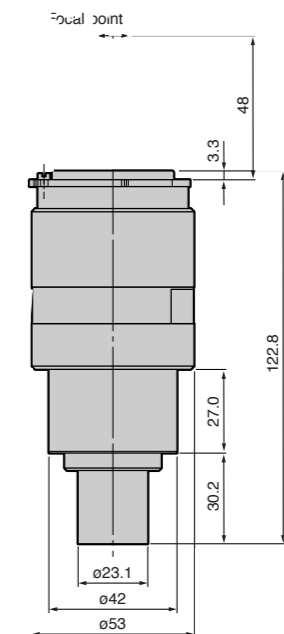
C-Mount TV Adapter



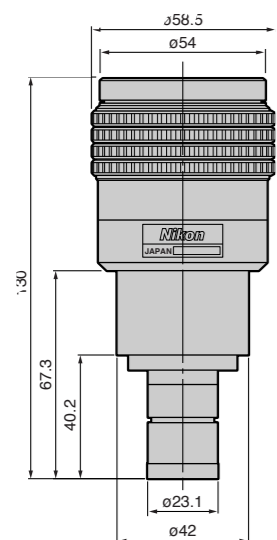
ENG-Mount TV Adapter



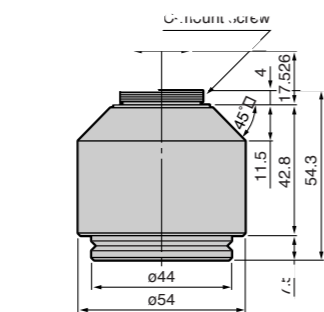
ENG-Mount TV Adapter 0.45x
(for Trinocular Tube "F", "T")



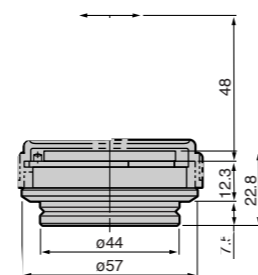
ENG-Mount TV Adapter 0.6x
(for Trinocular Tube "F", "T")



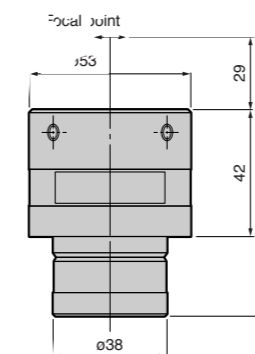
Zoom Lens



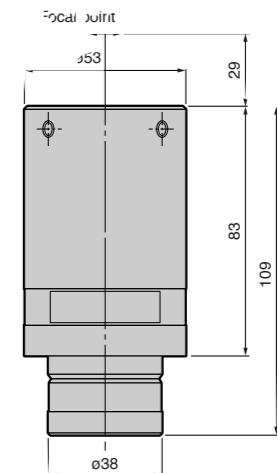
C-Mount Zooming Adapter



ENG-Mount Zooming Adapter



C-Mount TV Adapter VM 2.5x



C-Mount TV Adapter VM 4x