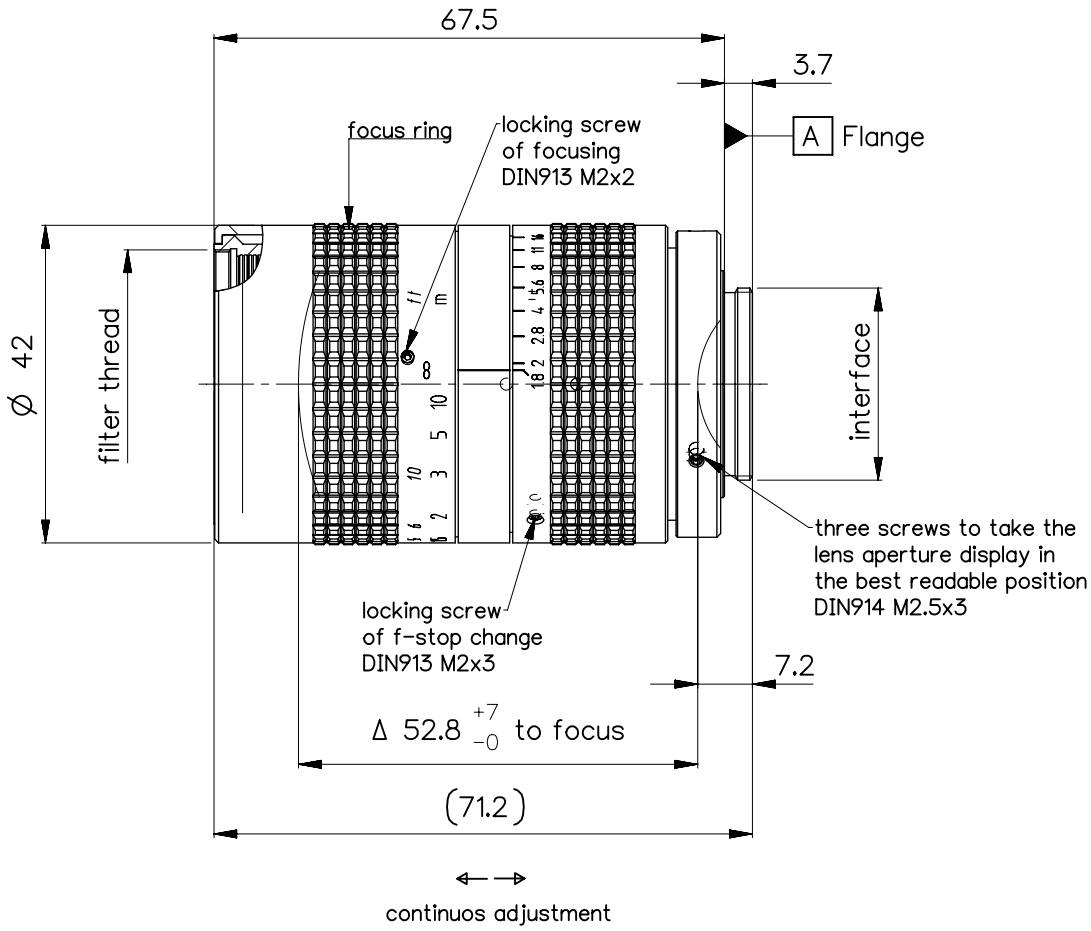
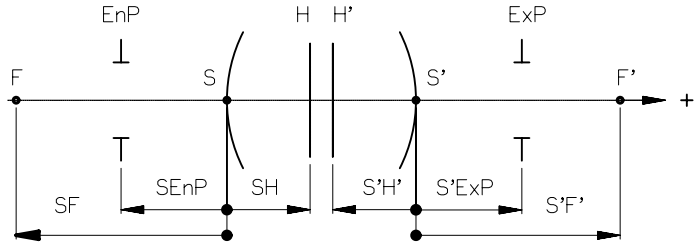
order number	lens name	spectral range λ (nm) ***
0020-003-000-40	MeVis-C 1.8/50mm	450-950 nm
0020-003-000-42	MeVis-C NIR 1.8/50mm	850-1400 nm



Specification		ON	5801-9021
image circle max. (mm)	16	working distance (mm)	670 ... ∞
focal length f' (mm)	50.9	interface	C-mount (1-32 UN 2A)
magnification β' [range]	-0.05 [0.075...0]	filter thread	M35.5 x0.5
spectral range λ (nm)	***	weight (g)	205

schematic diagram *) in air



design includes CCD cover glass:	yes 1mm K7			
SF (mm)	-20.4	f-stop	Ø EnP	Ø ExP
S'F' (mm) *)	18.5	1.8	27.1	22.6
HH' (mm) *)	-5.5	2	25.7	21.5
SH (mm)	30.5	2.8	19.6	15.3
S'H' (mm) *)	-32.4	4	12.9	10.7
SEnP (mm)	40.5	5.6	9.2	7.7
S'ExP (mm) *)	-24.0	16	3.2	2.7

NX

PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED

DIN A 4

EU-D	AL-T1A	US-D	US-ML	not export controlled
			PDM Status Freigabe	-

REV	ECC	DATE	APPROVED
a	Neuausg		
b	11-358	19.07.11	Kuehne
c	12-0185	09.03.12	Schuber
d	14-0184	31.07.14	Schiffe
e	20-0119	06.02.20	Hornbog

GENERAL TOLERANCE OF DIMENSION, FORM, POS.

SURF. TREATMT

BASIC TOLERANCING PRINCIPLE ISO 8015

FIRST ISSUE	DATE	NAME
	24.01.11	Kuehne
CHKD	24.01.11	Schaeffler

SCALE 1:1

MATERIAL

TITLE

MeVis-C 1.8/50

DRAWING NO. 0020-003-100-00-0001e

SHEET 1 OF 1

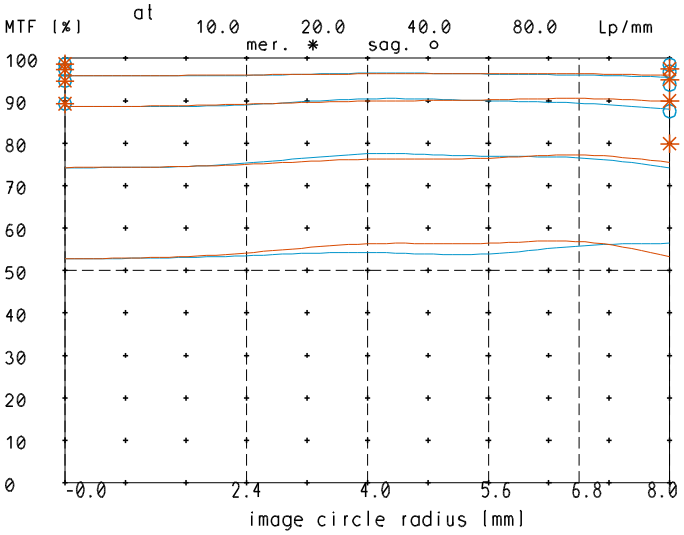
REPLACES

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

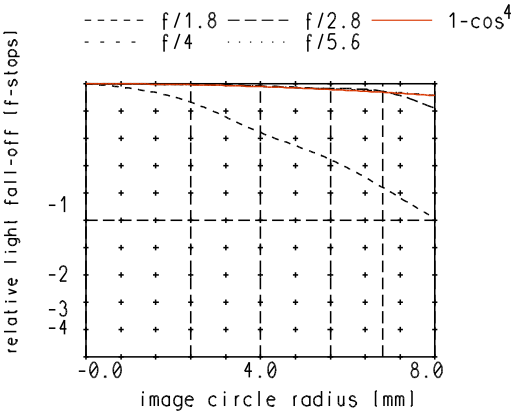
QIOPTIQ

MeVis-C_1.8/50

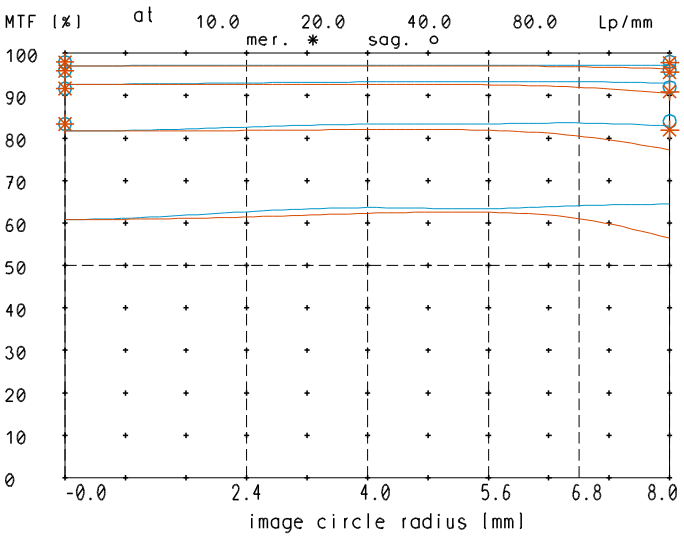
MTF at ratio 0.05 f/ 1.8



relative light fall-off at ratio 0.05

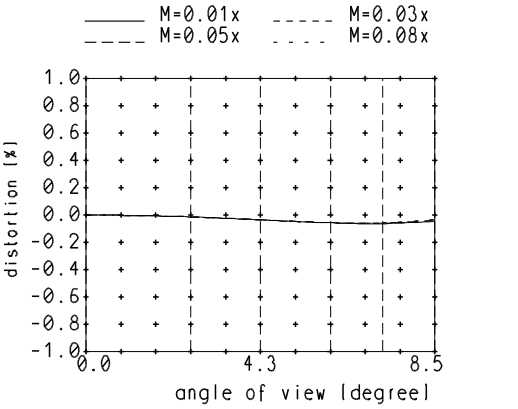


MTF at ratio 0.05 f/ 2.8

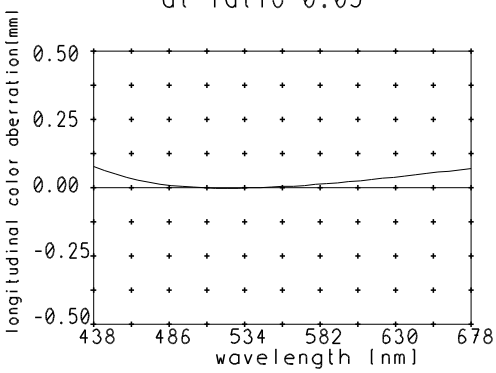


sagittal, o Diffraction limited value
meridional * Diffraction limited value

Distortion at ratio 0.01x to 0.08x



Longitudinal color aberration at ratio 0.05



Named frequencies (line pairs/mm) in modular transfer function (MTF) as well as diagrams of relative light fall-off, distortion and longitudinal color aberration refer to film plane.