

TC 4M 04

BI-TELECENTRIC LENS FOR
LARGE DETECTORS UP TO 1.2"
(21.5 MM DIAGONAL)



Part Number	TC 4M 04 (/C /F)	
Magnification		4,000 +/- 3%
Field Of View	(mm)	
with IBIS4-6600		2,6 x 1,9
with KAI2020		3,0 x 2,2
with KAI 2093		3,6 x 2,0
with MI-MV40		4,1 x 3,0
with KAI4011/4021		3,8 x 3,8
Working Distance	(mm)	57,1 +/- 2
Working F-number		22
Telecentricity	(degree)	< 0,1
Distortion	(%)	< 0,1
Field Depth	(mm)	0,1
CTF @50 lp/mm	(%)	> 30
Image side N.A.		0,0225
Object side N.A.		0,0900
Mount		C or F
Length	(mm)	206,4
External diameter	(mm)	28,0
Weight	(g)	530

ACCESSORIES AND OPTIONS:



Collimated/Telecentric illumination:
compatible with LTCL23 illuminator;
green light suggested.



Coaxial illumination:
not available.



Back Light illumination:
Compatible with LTBK36 and LTBK48
illuminators.



Clamping Mechanics:
compatible with CMH023.



Direct illumination:
compatible with LTRN23 diffusive
anular illuminators.



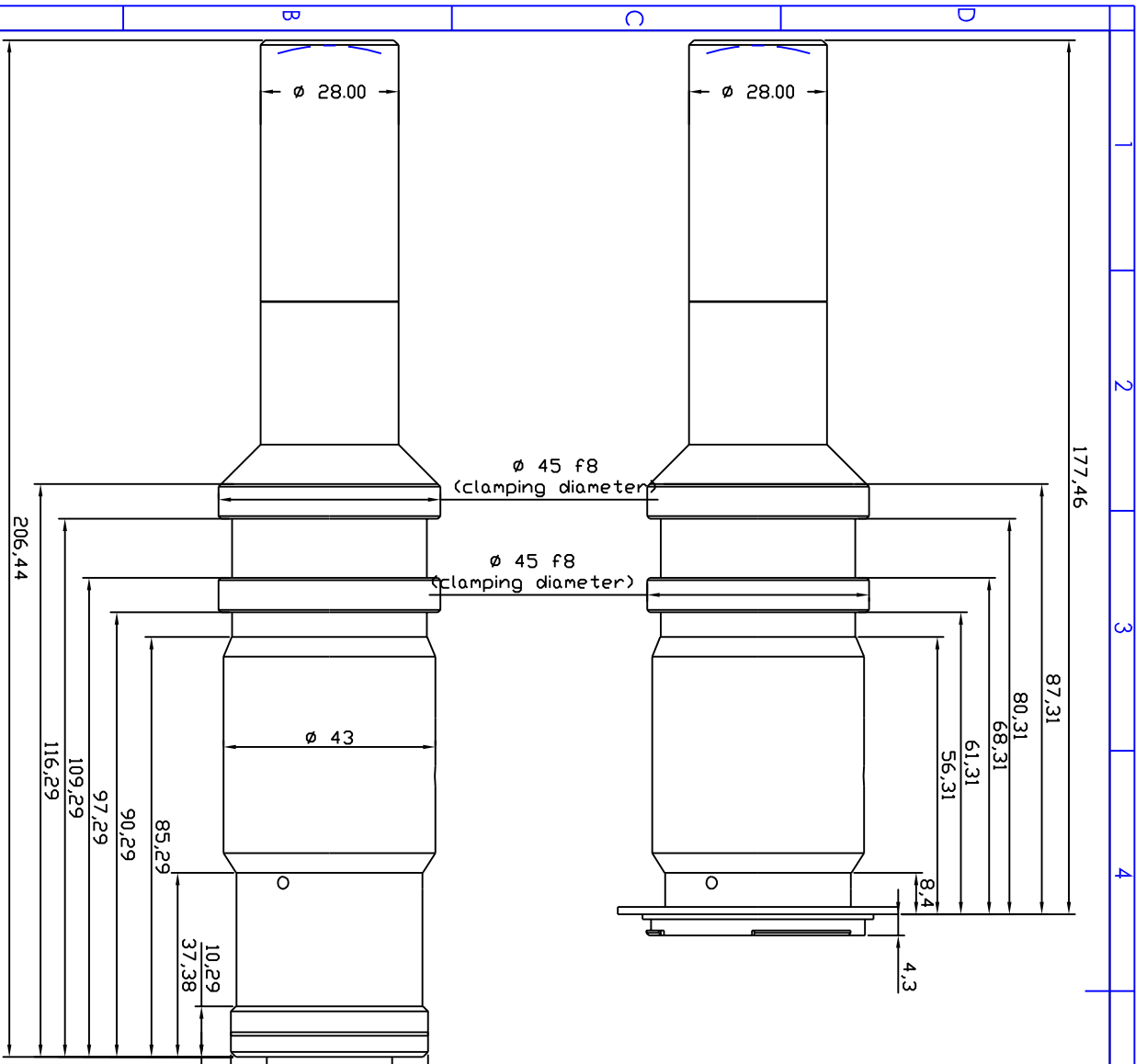
Filters:
filters can be inserted in the rear part
of the lens in the C-mount version.

MECHANICAL DRAWINGS: see next page >>

Rev No.	Description	Date	Name
A	Layout	07/06/05	A. Vismara

TC 4M 04/F (F-mount)

TC 4M 04/C (C-mount)



Material		N.A.		Mass		0.53 Kg		Scale		1:1	
Surface treatment		N.A.		Project/ProdItem/Instrument							
Geometrical tolerance (ISO 27692)											
U3	>3σ	>6σ	>30σ	>120	>400σ	>1000	>2000	Undimensioned	1x45°	Description	
+3	6	30	120	+400	1000	+2000	+4000	Undimensioned	R 0.5	Assembly	
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	rad			

Class	K	Class	m	bevels	Undimensioned	Name	Date	
Designed	07/06/05	A. Vismara				A. Vismara		
Drawn	07/06/05	A. Vismara				A. Vismara		
Checked	X	C. Sedqzchi				C. Sedqzchi		

ORTO ENGINEERING S.r.l. - 46100 Mantova Italy - Via Erenna, 29/2 - Tel. +39 0376 268325 - e-mail: info@orto-engineering.com - http://www.orto-engineering.com

Reproduction forbidden without specific authorization