

TC 2M 24

BI-TELECENTRIC LENS FOR
LARGE DETECTORS UP TO 1”
(16 MM DIAGONAL)



Part Number	TC 2M 24 (/C /F)	
Magnification		0,510 +/- 3%
Field Of View	(mm)	
with IBIS4-6600		20,6 x 15,2
with KAI2020		23,2 x 17,4
with KAI 2093		27,9 x 15,7
Working Distance	(mm)	69,2 +/- 2
Working F-number		16
Telecentricity	(degree)	< 0,1
Distortion	(%)	< 0,1
Field Depth	(mm)	4,0
CTF @50 lp/mm	(%)	> 30
Image side N.A.		0,0310
Object side N.A.		0,0160
Mount		C or F
Length	(mm)	222,8
External diameter	(mm)	44,0
Weight	(g)	770

ACCESSORIES AND OPTIONS:



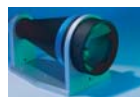
Collimated/Telecentric illumination:
compatible with LTCL24 illuminator;
green light suggested.



Coaxial illumination:
not available.



Back Light illumination:
Compatible with LTBK36 and LTBK48
illuminators.



Clamping Mechanics:
compatible with CMHO24.



Direct illumination:
compatible with LTRN36 diffusive
anular illuminators.



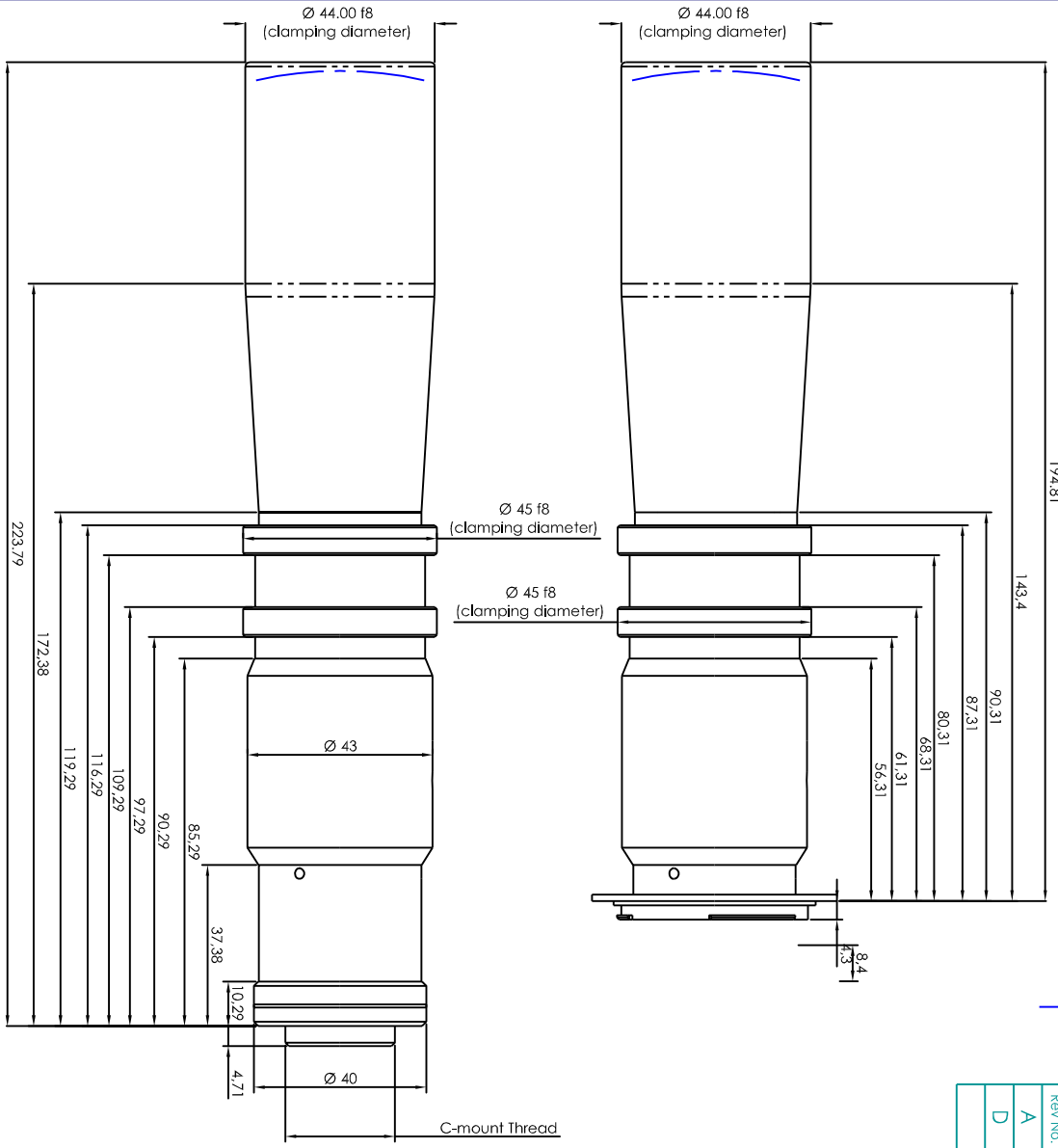
Filters:
filters can be inserted in the rear part
of the lens in the C-mount version.

MECHANICAL DRAWINGS: see next page >>

Rev. No.	Description	Date	Name
A	First light	01/05/03	A. Vismara
D	Redesign	18/07/06	A. Vismara

TC 2M 24/F (F-mount)

TC 2M 24/C (C-mount)



Material	N.A.	Mass	0.41 Kg	Scale	1:1
Surface treatment	N.A.	Project/Prod/Item/Instrument	Telecentric lens TC2M24		
Geometrical tolerance (ISO 27692)		Class	K	Undimensioned	1x45°
Upper tolerance (ISO 27692)		Class	m	bevels	
Lower tolerance (ISO 27692)		Class	rad	Undimensioned	R 0.5
		Class	±2	rad	
		Class	±1.2		
		Class	±0.8		
		Class	±0.5		
		Class	±0.3		
		Class	±0.2		
		Class	±0.1		
		Class	>3*		
		Class	6		
		Class	30		
		Class	+400		
		Class	1000		
		Class	+2000		
		Class	+4000		
		Class	>120		
		Class	>400*		
		Class	>1000*		
		Class	>2000*		
		Class	>4000*		
		Class	>2000		
		Class	+2000		
		Class	+4000		
		Class	±2		
		Class	±1.2		
		Class	±0.8		
		Class	±0.5		
		Class	±0.3		
		Class	±0.2		
		Class	±0.1		

Designed	18/07/06	A. Vismara
Drow	18/07/06	A. Vismara
Checked	X	C. Sedozzi
Date	18/07/06	A. Vismara
Name	A. Vismara	
Drawing No.	18323-0-A-TC2M24	
Sheet	1/1	

OPTO ENGINEERING S.r.l. - 46100 Mantova Italy - Via Cremona, 28 - Tel. +39 0376 229565 - e-mail: info@opto-engineering.com - http://www.opto-engineering.com