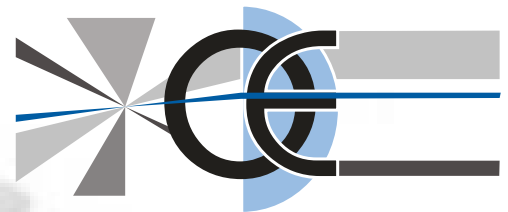


# BI-TELECENTRIC LENS FOR 1/2" (1/1.8") TO 1/4" DETECTORS



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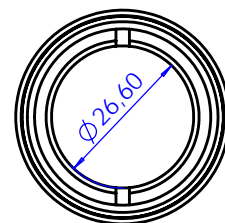
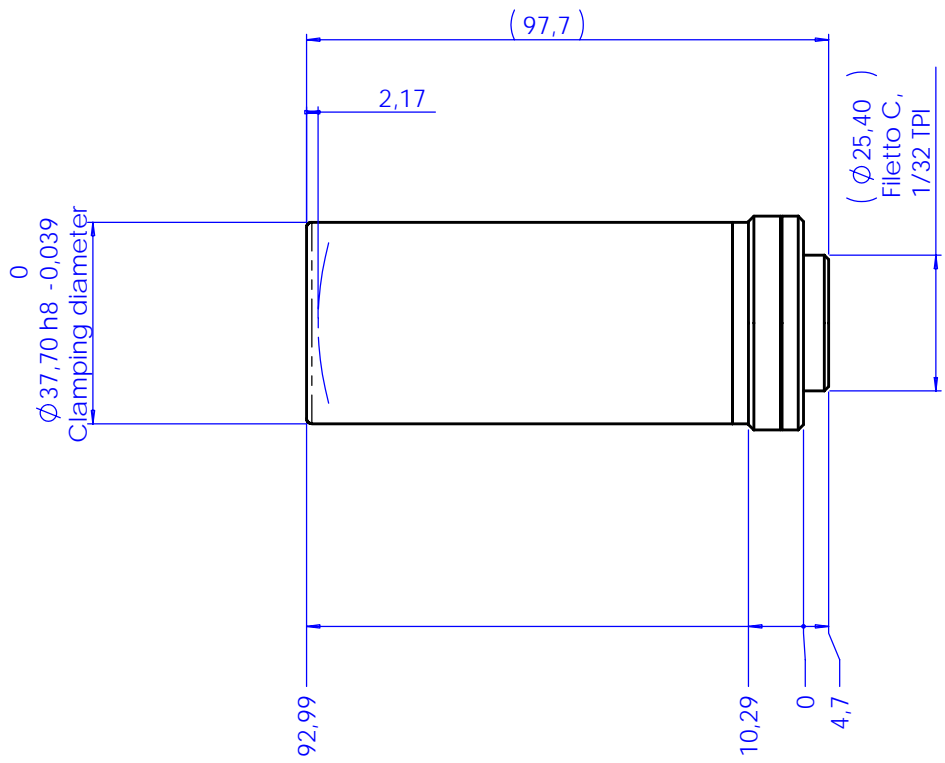


<b>Model:</b>	<b>TC 12 16</b>		
<b>Magnification (X):</b>	0,4		
<b>Object Field (mm):</b>	1/4" (3,6 x 2,7):	9,00	x 6,75
	1/3" (4,8 x 3,6):	12,00	x 9,00
	1/2" (6,4 x 4,8):	16,00	x 12,00
	1/1.8" (7,13 x 5,37):	17,82	x 13,42 (5)
	2/3" (8,8 x 6,6):	∅ =	16,50
<b>Working Distance (mm):</b>	45,3 +/- 1		
<b>Working F-number:</b>	8		
<b>MTF @70 lp/mm (%):</b>	> 40		
<b>Field Depth (mm):</b>	4,5 @ F/ 8		
<b>Image side N.A.:</b>	0,062		
<b>Object side N.A.:</b>	0,024		
<b>Telecentricity (degree):</b>	< 0,1		
<b>Distortion (%):</b>	< 0,08		
<b>Mount:</b>	C		
<b>Length (mm):</b>	92,0		
<b>Maximum external diameter (mm):</b>	37,8		
<b>Weigh (g):</b>	260		

## NOTES:

- 1) The inner aperture diaphragm can be supplied on request with smaller apertures in order to achieve a larger Field Depth
- 2) Tailored diffusive Ring Light available on request
- 3) Custom flanges and mechanical interfaces can be provided on request
- 4) Can be coupled to a collimated light illuminator like LT CL 16
- (5) Small vignetting at the image corners possible

Rev No.	Description	Date	Name
A	First light	01/05/03	A.Vismara
D	Redesign	15/02/06	A.Vismara



Material	N.A.			Mass	0.26 kg	Scale	1:1
Surface treatment	N.A.			Project-Prod.Item/Instrument Telecentric lens 12 16			
Geometrical tolerance (ISO 2768-2)			Class	K	Undimensioned bevels	1x45°	Description Assembly
Linear tolerance (ISO 2768-2)			Class	m			
0.5	>3-	>6-	>30-	>120	>400-	>1000	>2000
+3	6	30	120	+400	+1000	+2000	+4000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
www.opto-engineering.com			Date	Name	Drawing No.		
			Designed	15/02/06	A.Vismara	01851-0-D	
			Draw	15/02/06	A.Vismara	Sheet	
			Checked	X	C. Sedazzari	1/1	
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