

BI-TELECENTRIC LENS FOR DETECTORS UP TO 1/2"



Model:	TC 12 16	
Magnification (X):	0,385 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	9,4 x 7,0
	1/3" (4,8 x 3,6):	12,5 x 9,4
	1/2" (6,4 x 4,8):	16,6 x 12,5
	1/1.8" (7,13 x 5,37):	18,5 x 14,0 (*)
	2/3" (8,8 x 6,6):	diam. = 17,2
Working Distance (mm):	45,3 +/- 1	
Working F-number:	8	
MTF @70 lp/mm (%):	> 40	
Field Depth (mm):	4,5 @ F/ 8	
Image side N.A.:	0,062	
Object side N.A.:	0,024	
Telecentricity (degree):	< 0,1	
Distortion (%):	< 0,08	
Mount:	C	
Length (mm):	93,0	
Maximum external diameter (mm):	37,7	
Weigh (g):	260	

(*) Vignetting at the image corners possible with a 1/1.8" detector

ACCESSORIES AND OPTIONS:



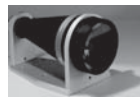
Collimated/Telecentric illumination:
compatible with LTCL16 illuminator;
green light suggested.



Coaxial illumination:
not available.



Back Light illumination:
Compatible with LTBK36 illuminator.



Clamping Mechanics:
the lens is light and can be directly
held by the camera.

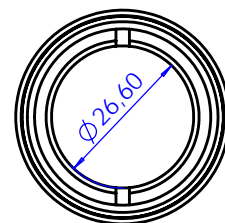
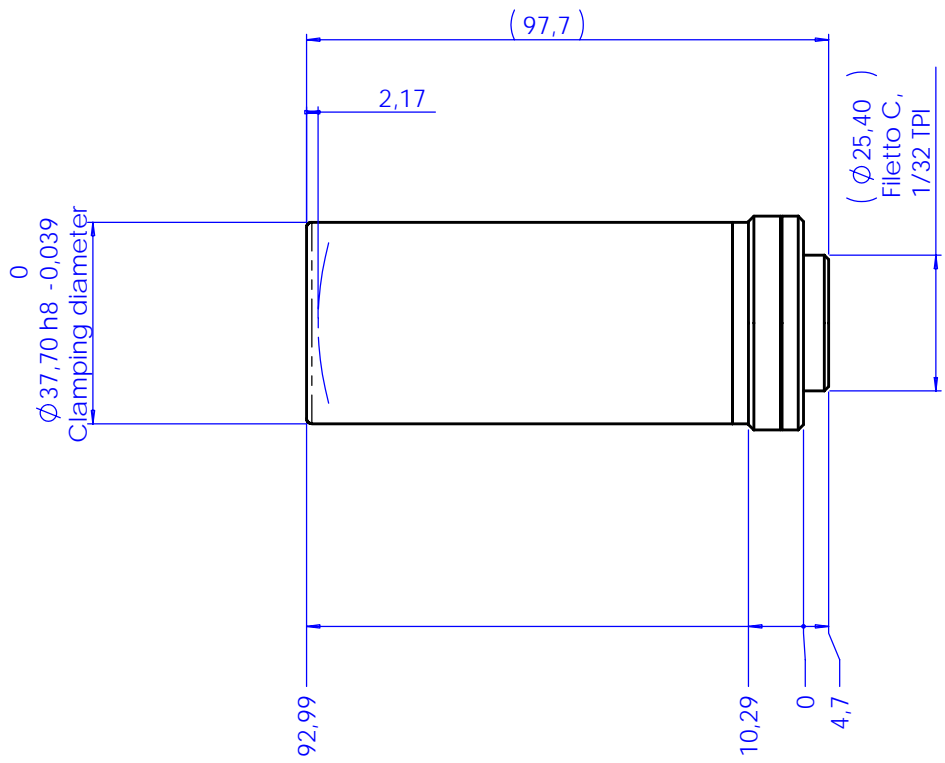


Direct illumination:
compatible with LTRN36 diffusive
anular illuminator.



Filters:
filters can be inserted in the rear part
of the lens, by means of TC Filter Kit.

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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