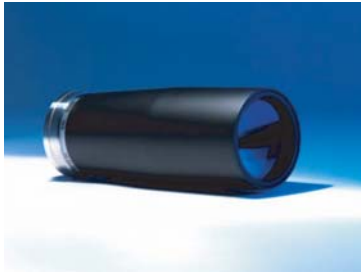


BI-TELECENTRIC LENS FOR DETECTORS UP TO 1/2"



Model:	TC 12 24	
Magnification (X):	0,255 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	14,1 x 10,6
	1/3" (4,8 x 3,6):	18,8 x 14,1
	1/2" (6,4 x 4,8):	25,1 x 18,8
	1/1.8" (7,13 x 5,37):	28,0 x 21,1 (*)
	2/3" (8,8 x 6,6):	diam. = 25,9
Working Distance (mm):	69,2 +/- 2	
Working F-number:	8	
MTF @70 lp/mm (%):	> 45	
Field Depth (mm):	10,0 @	F/ 8
Image side N.A.:	0,062	
Object side N.A.:	0,016	
Telecentricity (degree):	< 0,1	
Distortion (%):	< 0,08	
Mount:	C	
Length (mm):	118	
Maximum external diameter (mm):	44	
Weigh (g):	370	

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

ACCESSORIES AND OPTIONS:



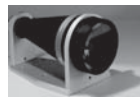
Collimated/Telecentric illumination:
compatible with LTCL24 illuminator;
green light suggested.



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.

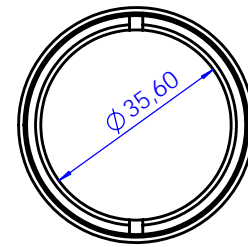
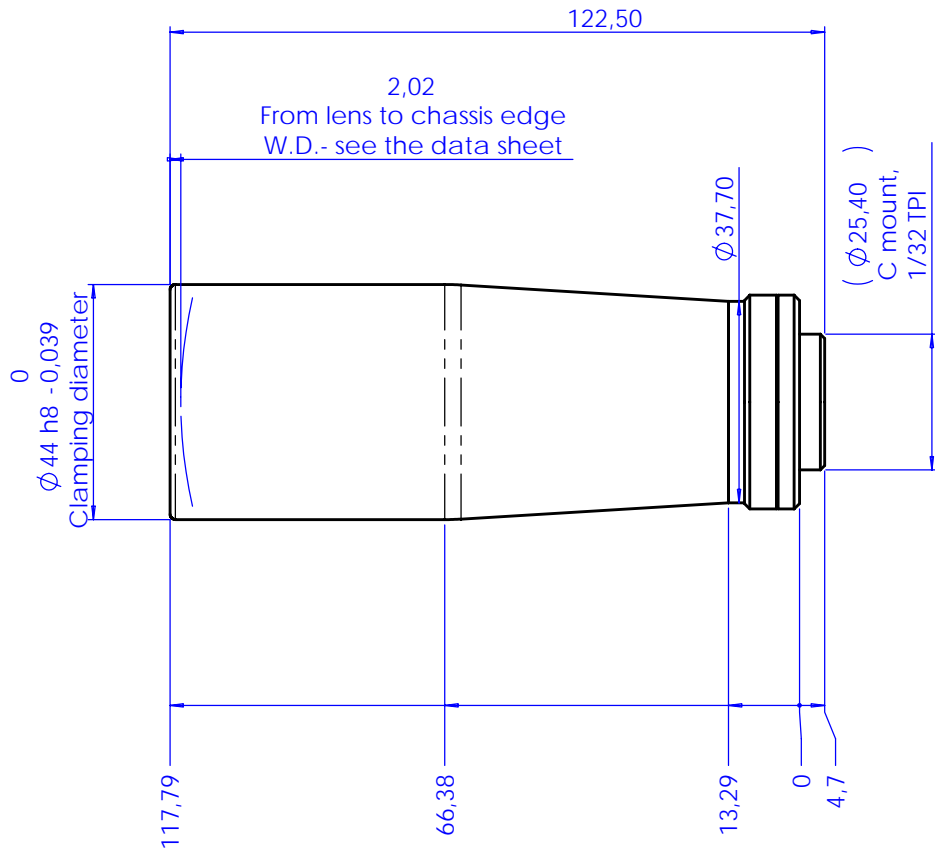


Direct illumination:
compatible with LTRN36 diffusive
anular illuminators.



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	19/07/06	A.Vismara



Material	N.A.			Mass	0.37 kg	Scale	1:1
Surface treatment	N.A.			Project-Prod.Item/Instrument Telecentric lens 12 24			
Geometrical tolerance (ISO 2768-2)			Class	K	Undimensioned bevels		
Linear tolerance (ISO 2768-2)			Class	m	1x45°		
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
					Undimensioned radii		
					R 0.5		
Description			Assembly				
Drawing No.			Date		Name		
01551-0-D			19/07/06		A.Vismara		
Sheet			Date		Name		
1/1			19/07/06		A.Vismara		
Checked			Date		Name		
X			19/07/06		A.Vismara		
www.opto-engineering.com			Checked		C. Sedazzari		
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