

BI-TELECENTRIC LENS FOR DETECTORS UP TO 2/3"



Model:	TC 23 04	
Magnification (x):	2,00 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	1,8 x 1,4
	1/3" (4,8 x 3,6):	2,4 x 1,8
	1/2" (6,4 x 4,8):	3,2 x 2,4
	1/1.8" (7,13 x 5,37):	3,6 x 2,7
	2/3" (8,8 x 6,6):	4,4 x 3,3
Working Distance (mm):	57,1 +/- 2	
Working F-number:	11	
MTF @70 lp/mm (%):	> 30	
Field Depth (mm):	0,2 @ F/ 11	
Image side N.A.:	0,045	
Object side N.A.:	0,090	
Telecentricity (degree):	< 0,08	
Distortion (%):	< 0,08	
Mount:	C	
Length (mm):	101,4	
Maximum external diameter (mm):	28,0	
Weigh (g):	130	

ACCESSORIES AND OPTIONS:



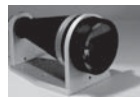
Collimated/Telecentric illumination:
not necessary/recommended at this magnification.



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.

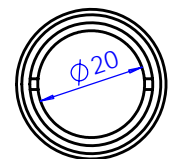
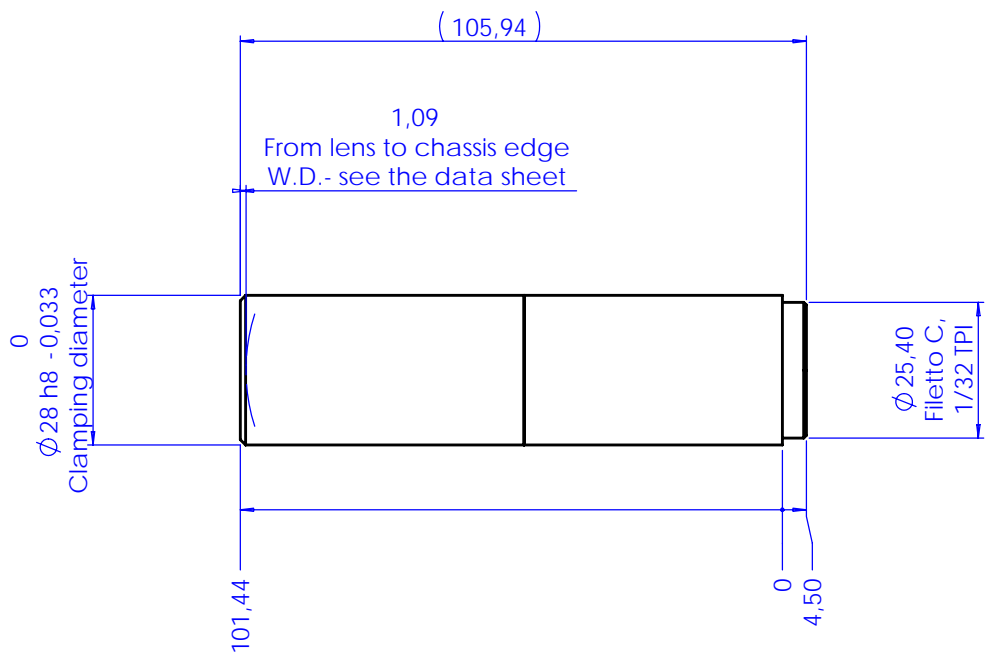


Direct illumination:
compatible with LTRN23 diffusive anular illuminators.



Filters:
filter caps available on request.

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



Material	N.A.			Mass	0.13 kg	Scale	1:1
Surface treatment	N.A.			Project-Prod.Item/Instrument Telecentric lens 23 04			
Geometrical tolerance (ISO 2768-2)			Class	K	Undimensioned bevels		
Linear tolerance (ISO 2768-2)			Class	m	Undimensioned radii		
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
Date				Name			
Designed		07/06/05	A.Vismara		Drawing No.		
Draw		07/06/05	A.Vismara		02041-0-A		
Checked		X	C. Sedazzari		Sheet		
					1/1		
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