

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



Model:	TC 12 96	
Magnification (X):	0,068 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	52,9 x 39,7
	1/3" (4,8 x 3,6):	70,6 x 52,9
	1/2" (6,4 x 4,8):	94,1 x 70,6
	1/1.8" (7,13 x 5,37):	104,8 x 78,9 (*)
	2/3" (8,8 x 6,6):	diam. = 97,1
Working Distance (mm):	279,6 +/- 8	
Working F-number:	8	
MTF @70 lp/mm (%):	> 45	
Field Depth (mm):	120,0 @	F/ 8
Image side N.A.:	0,062	
Object side N.A.:	0,004	
Telecentricity (degree):	< 0,08	
Distortion (%):	<0,08	
Mount:	C	
Length (mm):	317	
Maximum external diameter (mm):	143	
Weigh (g):	2500	

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

ACCESSORIES AND OPTIONS:



Collimated/Telecentric illumination:
compatible with LTCL96 illuminator;
green lighth suggested.



Coaxial illumination:
not available.



Back Ligth illumination:
compatible with LTBK64 illuminator.



Clamping Mechanics:
compatible with Teleclamp96.

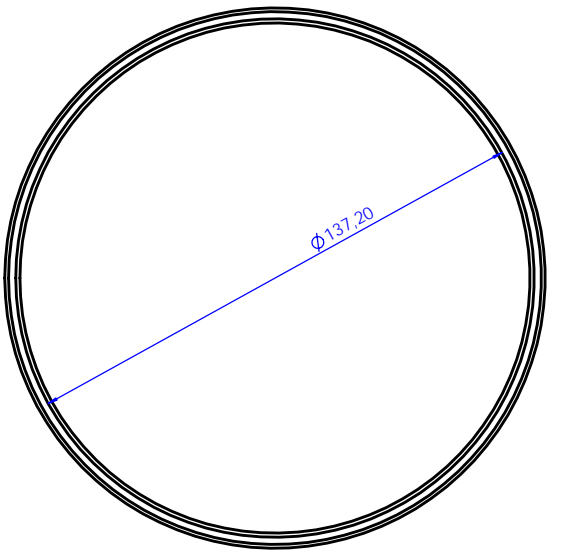
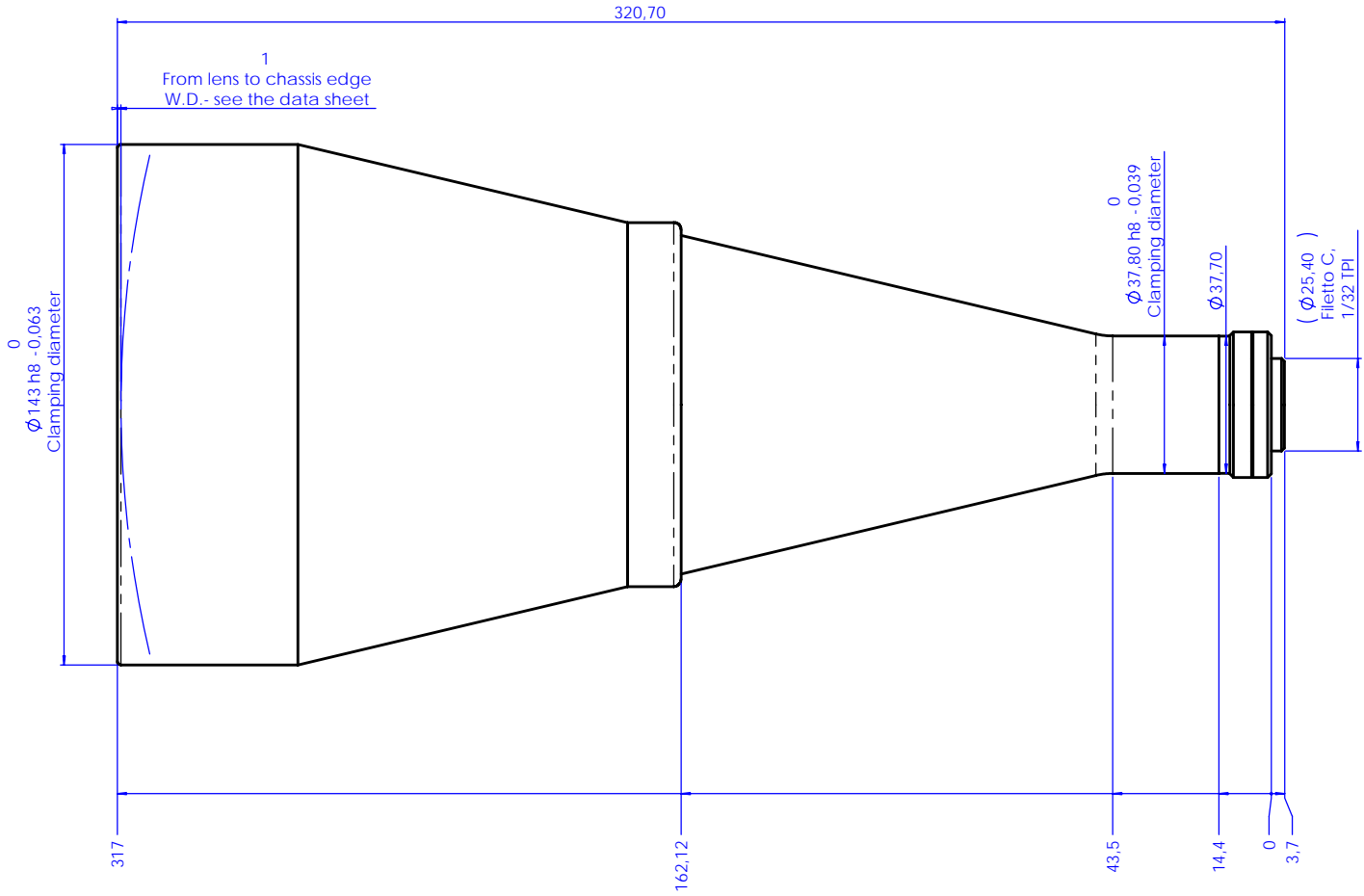


Direct illumination:
not available.



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	2.5 kg	Scale	1:1				
Surface treatment	N.A.	Project-Prod.Item/Instrument Telecentric lens 12 96							
Geometrical tolerance (ISO 2768-2)		Class	K	Undimensioned	Description Assembly				
Linear tolerance (ISO 2768-2)		Class	m	Bevels					
0.5	>3-	>6-	>30-	>120	>400-	>1000	>2000	Undimensioned	R 0.5
-3	-6	-30	-120	-400	-1000	-2000	-4000	radii	
± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2		
www.opto-engineering.com		Date	Name			Drawing No.	Sheet		
Designed		15/02/06	A.Vismara			02101-0-D	1/1		
Draw		15/02/06	A.Vismara						
Checked		x	C.Sedazzari						
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