

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



Part Number	TC 12 64	
<b>Magnification</b>		0,100 +/- 3%
<b>Field Of View</b>	<b>(mm x mm)</b>	
with 1/4" (3,6 x 2,7) detector		36,0 x 27,0
with 1/3" (4,8 x 3,6) detector		48,0 x 36,0
with 1/2" (6,4 x 4,8) detector		64,0 x 48,0
with 1/1.8" (7,13 x 5,37) detector		71,3 x 53,7
with 2/3" (8,8 x 6,6) detector		diam. = 66,0
<b>Working Distance</b>	<b>(mm)</b>	182,3 +/- 5
<b>Working F-number</b>		8
<b>Telecentricity</b>	<b>(degree)</b>	< 0,08
<b>Distortion</b>	<b>(%)</b>	<0,07
<b>Field Depth</b>	<b>(mm)</b>	67,0
<b>CTF @70 lp/mm</b>	<b>(%)</b>	> 50
<b>Image side N.A.</b>		0,0620
<b>Object side N.A.</b>		0,0062
<b>Mount</b>		C
<b>Length</b>	<b>(mm)</b>	225,9
<b>External diameter</b>	<b>(mm)</b>	100,0

Possible vignetting at the image corners with 1/1.8" detectors

### ACCESSORIES AND OPTIONS:



**Collimated/Telecentric illumination:**  
compatible with LTCL64 illuminator;  
green light suggested.



**Coaxial illumination:**  
compatible with LTCX64 illuminator.



**Back Light illumination:**  
compatible with LTBK64 and LTBK80  
illuminators.



**Clamping Mechanics:**  
compatible with CMH064.

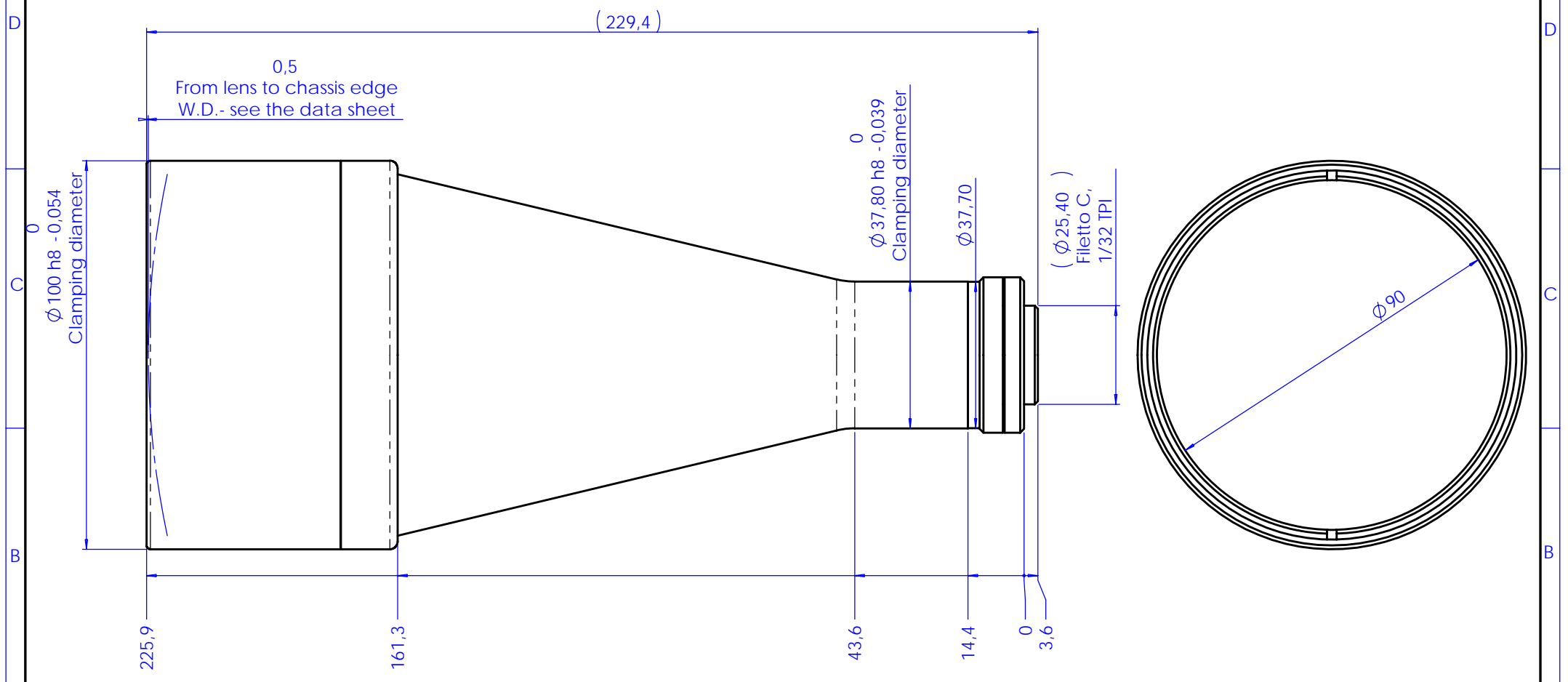


**Direct illumination:**  
compatible with LTRN64 diffusive  
anular illuminators.



**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	15/02/06	A.Vismara



Material	N.A.			Mass	1.0 kg	Scale	1:1
Surface treatment	N.A.			Project-Prod.Item/Instrument Telecentric lens 12 64			
Geometrical tolerance (ISO 2768-2)			Class	K	Description		
Linear tolerance (ISO 2768-2)			Class	m	Undimensioned bevels	1x45°	Assembly
0.5	>3-	>6-	>30-	>120	>400-	>1000	
+3	6	30	120	+400	1000	+2000	R 0.5
±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	01301-0-D	
			Draw	15/02/06	A.Vismara	Sheet	
			Checked	X	C. Sedazzari	1/1	
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