

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



Part Number	TC 23 48	
<b>Magnification</b>		0,184 +/- 3%
<b>Field Of View</b>	<b>(mm x mm)</b>	
with 1/4" (3,6 x 2,7) detector		19,6 x 14,7
with 1/3" (4,8 x 3,6) detector		26,1 x 19,6
with 1/2" (6,4 x 4,8) detector		34,8 x 26,1
with 1/1.8" (7,13 x 5,37) detector		38,8 x 29,2
with 2/3" (8,8 x 6,6) detector		47,9 x 35,9
<b>Working Distance</b>	<b>(mm)</b>	134,6 +/- 4
<b>Working F-number</b>		8
<b>Telecentricity</b>	<b>(degree)</b>	< 0,1
<b>Distortion</b>	<b>(%)</b>	< 0,10
<b>Field Depth</b>	<b>(mm)</b>	20,0
<b>CTF @70 lp/mm</b>	<b>(%)</b>	> 40
<b>Image side N.A.</b>		0,0620
<b>Object side N.A.</b>		0,0110
<b>Mount</b>		C
<b>Length</b>	<b>(mm)</b>	201,0
<b>External diameter</b>	<b>(mm)</b>	75,0
<b>Weight</b>	<b>(g)</b>	750

### ACCESSORIES AND OPTIONS:



**Collimated/Telecentric illumination:**  
compatible with LTCL48 illuminator;  
green light suggested.



**Coaxial illumination:**  
Compatible with LTCX36 illuminator.



**Back Light illumination:**  
Compatible with LTBK36 and LTBK48  
illuminators.



**Clamping Mechanics:**  
compatible with CMH048.

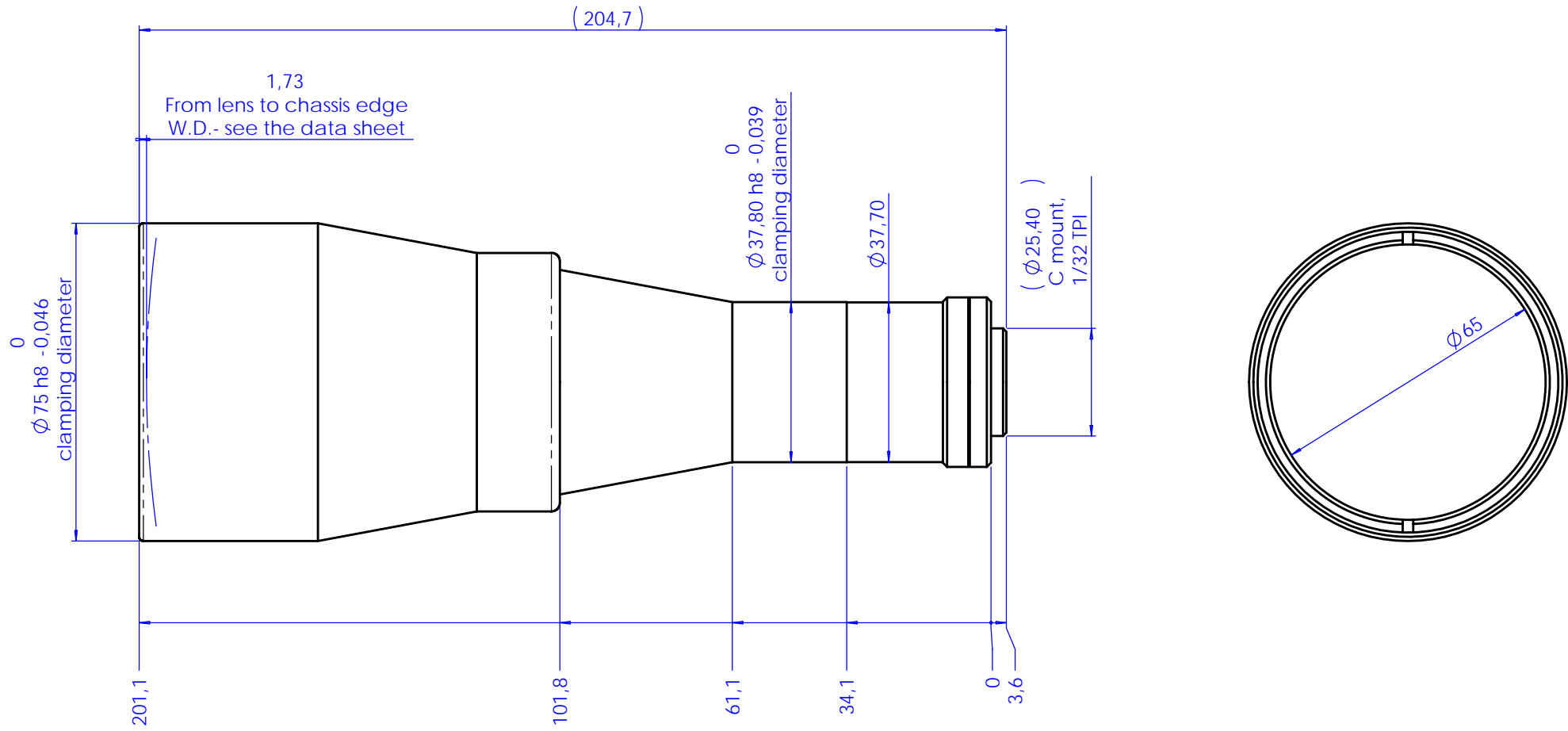


**Direct illumination:**  
compatible with LTRN64 diffusive  
anular illuminators.



**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	07/02/07	A.Vismara



Material	N.A.			Mass	0.75 kg	Scale	1:1
Surface treatment	N.A.			Project-Prod.Item/Instrument		Telecentric lens 23 48	
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
			Date	Name		Drawing No.	
www.opto-engineering.com			Designed	07/02/07	A.Vismara		01351-0-A
			Draw	07/02/07	A.Vismara		Sheet
			Checked	X	C. Sedazzari		1/1
<i>Reproduction forbidden without specific authorization</i>							

