

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



Model:	TC 12 48	
Magnification (X):	0,134 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	26,9 x 20,2
	1/3" (4,8 x 3,6):	35,9 x 26,9
	1/2" (6,4 x 4,8):	47,8 x 35,9
	1/1.8" (7,13 x 5,37):	53,3 x 40,1 (*)
	2/3" (8,8 x 6,6):	diam. x 49,3
Working Distance (mm):	134,6 +/- 4	
Working F-number:	8	
MTF @70 lp/mm (%):	> 40	
Field Depth (mm):	24,0 @ F/ 8	
Image side N.A.:	0,062	
Object side N.A.:	0,008	
Telecentricity (degree):	< 0,1	
Distortion (%):	< 0,1	
Mount:	C	
Length (mm):	182	
Maximum external diameter (mm):	75	
Weigh (g):	700	

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

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 illuminator.



Clamping Mechanics:
compatible with Teleclamp48.

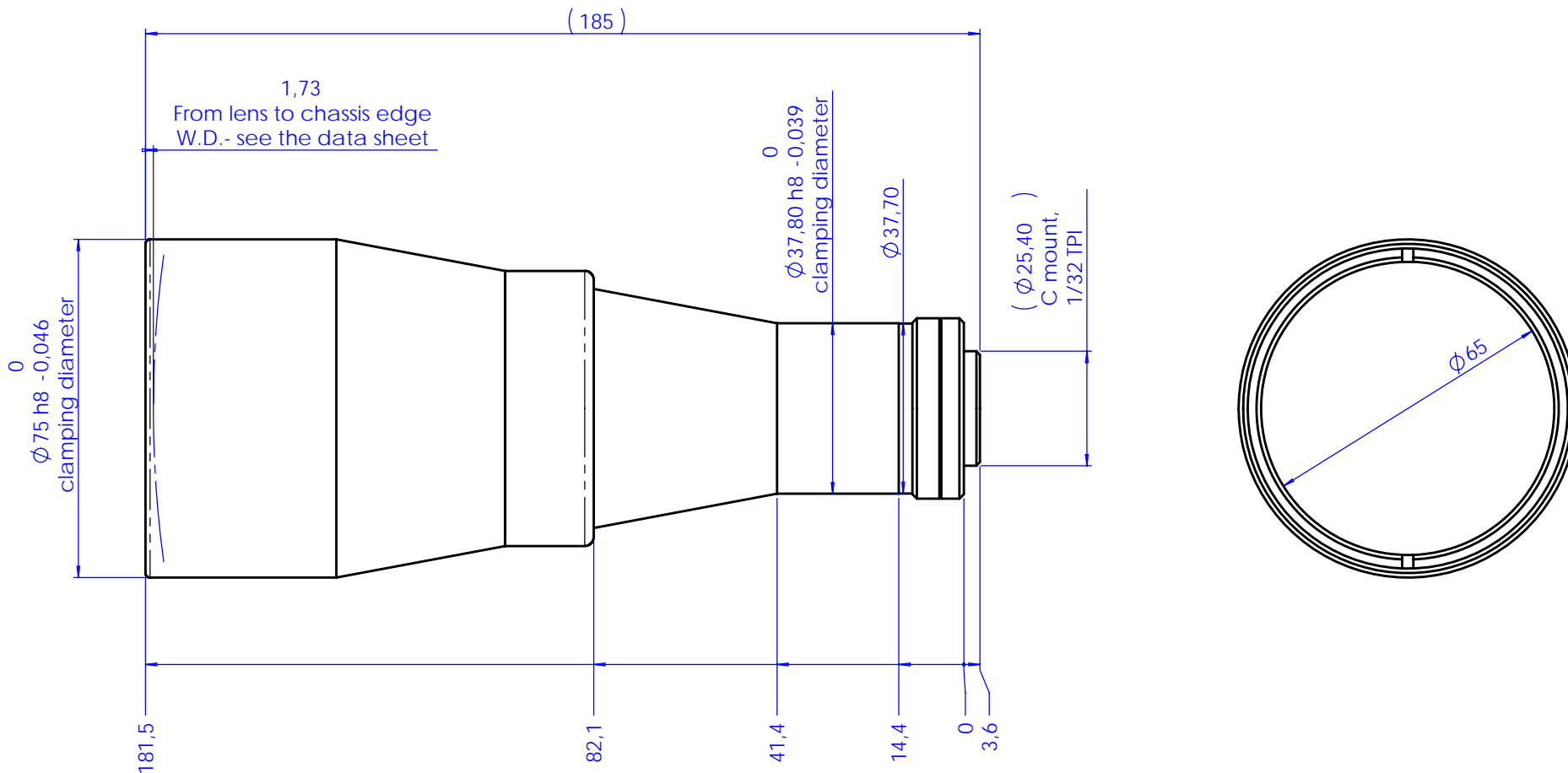


Direct illumination:
compatible with LTRN64 diffusive
anular illuminators.



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	0.7 kg	Scale	1:1																																							
Surface treatment	N.A.		Project-Prod.Item/Instrument		Telecentric lens 12 48																																								
Geometrical tolerance (ISO 2768-2)			Description		Assembly																																								
<table border="1"> <thead> <tr> <th colspan="2">Linear tolerance (ISO 2768-2)</th> <th>Class</th> <th>K</th> <th>Undimensioned bevels</th> <th>1x45°</th> <th>Undimensioned radii</th> <th>R 0.5</th> </tr> <tr> <th></th> <th></th> <th>Class</th> <th>m</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>>3-</td> <td>>6-</td> <td>>30-</td> <td>>120</td> <td>>400-</td> <td>>1000</td> <td>>2000</td> </tr> <tr> <td>+3</td> <td>6</td> <td>30</td> <td>120</td> <td>+400</td> <td>1000</td> <td>+2000</td> <td>+4000</td> </tr> <tr> <td>±0.1</td> <td>±0.1</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> <td>±1.2</td> <td>±2</td> </tr> </tbody> </table>			Linear tolerance (ISO 2768-2)		Class	K	Undimensioned bevels	1x45°	Undimensioned radii	R 0.5			Class	m					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	Drawing No.		Sheet
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