

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



Model:	TC 12 120	
Magnification (X):	0,052 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	69,1 x 51,8
	1/3" (4,8 x 3,6):	92,1 x 69,1
	1/2" (6,4 x 4,8):	122,8 x 92,1
	1/1.8" (7,13 x 5,37):	136,7 x 103,0 (*)
	2/3" (8,8 x 6,6):	diam. = 126,6
Working Distance (mm):	336,5 +/- 10	
Working F-number:	8	
MTF @70 lp/mm (%):	> 45	
Field Depth (mm):	180,0 @	F/ 8
Image side N.A.:	0,062	
Object side N.A.:	0,003	
Telecentricity (degree):	< 0,08	
Distortion (%):	<0,1	
Mount:	C	
Length (mm):	403	
Maximum external diameter (mm):	180	
Weigh (g):	5300	

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

ACCESSORIES AND OPTIONS:



Collimated/Telecentric illumination:
compatible with LTCL120 illuminator;
green lighth suggested.



Coaxial illumination:
not available.



Back Ligth illumination:
compatible with LTBK96 illuminator.



Clamping Mechanics:
use the built-in holed flange to mount
the lens.

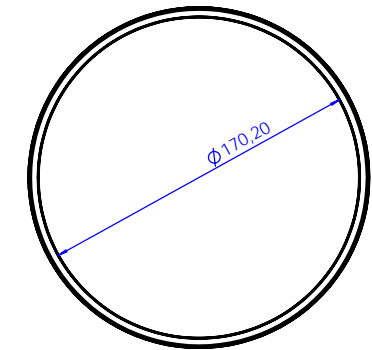
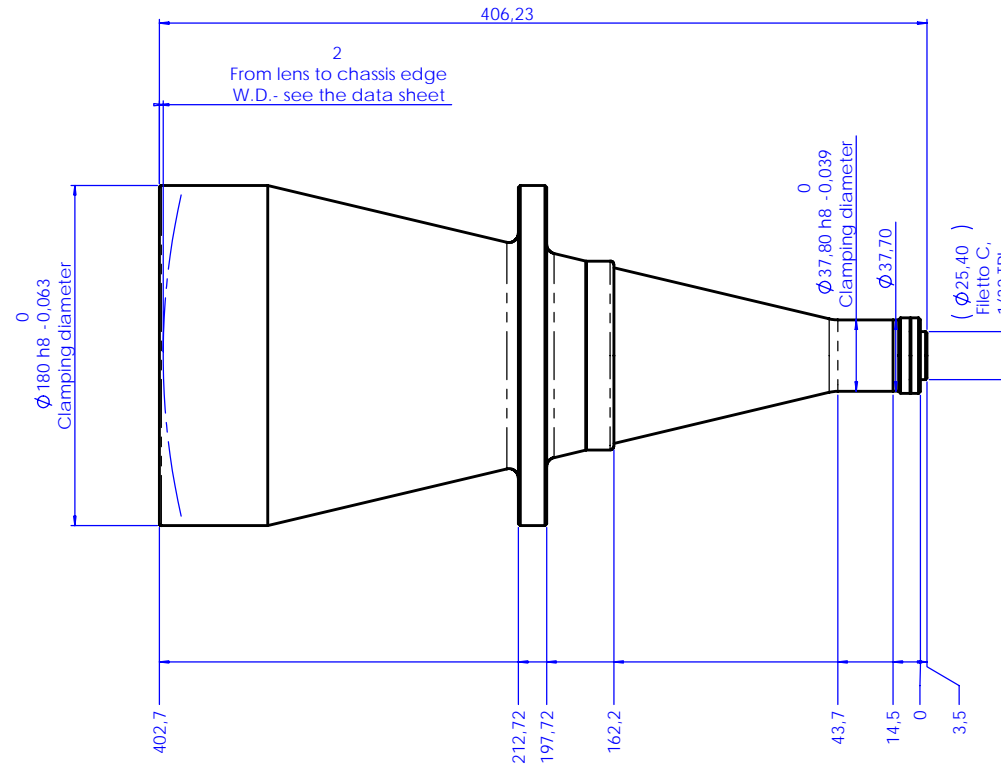
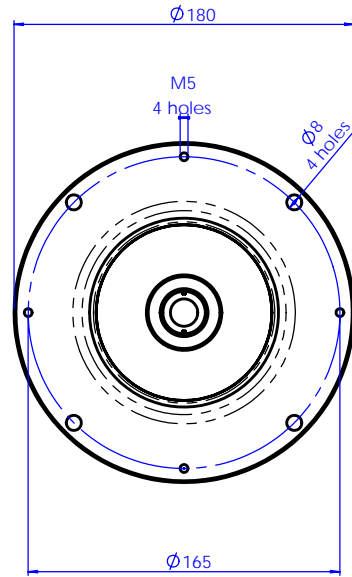


Direct illumination:
not available.



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	26/05/06	A.Vismara



Material	N.A.	Mass	5.3 kg	Scale	1:2
Surface treatment	N.A.	Project-Prod.Item/Instrument	Telecentric lens 12 120		
Geometrical tolerance (ISO 2768-2)		Class	K	Undimensioned Bevels	1x45°
Linear tolerance (ISO 2768-2)		Class	m	Undimensioned Radii	R 0.5
0.5	>3-	>6-	>30-	>120-	>400-
-3	6	30	120	400	1000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8
		Class	m	±1.2	±2
www.opto-engineering.com		Date	Name	Drawing No.	Sheet
Designed		26/05/06	A.Vismara	02521-0-A	1/1
Draw		26/05/06	A.Vismara		
Checked		x	C.Sedazzari		
Reproduction forbidden without specific authorization					
OPTO ENGINEERING S.r.l. - 46100 Mantova Italy - Via Cremona, 28 - Tel/Fax +39 0376 229585 - e-mail: info@opto-engineering.com - http://www.opto-engineering.com					