

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



Model:	TC 12 144	
Magnification (X):	0,044 +/- 3%	
Object Field (mm):	1/4" (3,6 x 2,7):	81,0 x 60,7
	1/3" (4,8 x 3,6):	107,9 x 81,0
	1/2" (6,4 x 4,8):	143,9 x 107,9
	1/1.8" (7,13 x 5,37):	160,3 x 120,7 (*)
	2/3" (8,8 x 6,6):	diam. = 148,4
Working Distance (mm):	398,0 +/- 12	
Working F-number:	8	
MTF @70 lp/mm (%):	> 35	
Field Depth (mm):	260,0 @ F/ 8	
Image side N.A.:	0,062	
Object side N.A.:	0,003	
Telecentricity (degree):	< 0,08	
Distortion (%):	<0,08	
Mount:	C	
Length (mm):	462	
Maximum external diameter (mm):	200	
Weigh (g):	6500	

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

ACCESSORIES AND OPTIONS:



Collimated/Telecentric illumination:
compatible with LTCL144 illuminator;
green light suggested.



Coaxial illumination:
not available.



Back Light illumination:
compatible with LTBK96 illuminator.



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

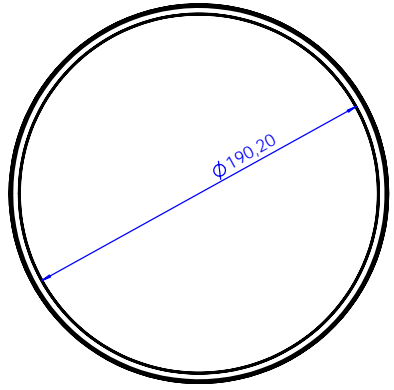
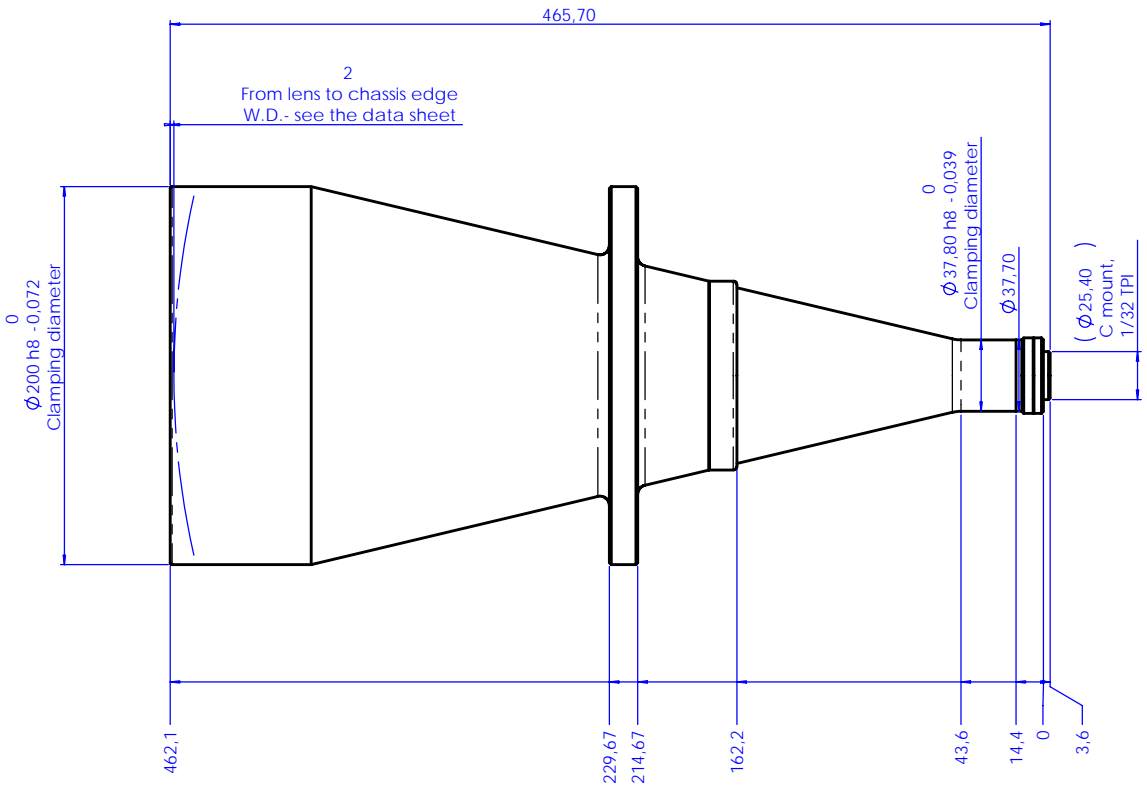
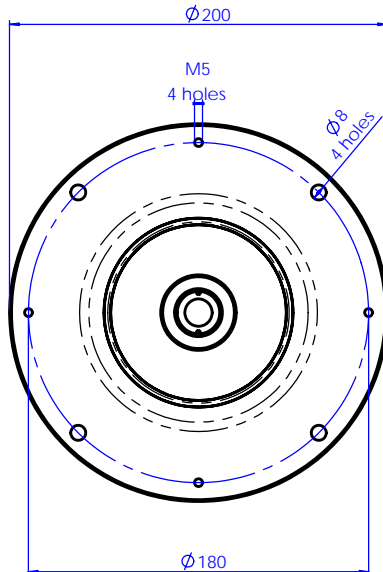


Direct illumination:
not available.



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	14/06/06	A.Vismara



Material	N.A.	Mass	6.5 kg	Scale	1:2				
Surface treatment	N.A.	Project/Prod./Item/Instrument	Telecentric lens 12 144						
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-	>1000-	>2000-		
-3	6	30	120	400	1000	2000			
±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	14/06/06	A.Vismara	02371-0-A		1/1			
	Draw	14/06/06	A.Vismara						
	Checked	x	C.Sedazzari						
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