

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



Part Number	TC 12 144	
<b>Magnification</b>		0,044 +/- 3%
<b>Field Of View</b>	<b>(mm x mm)</b>	
with 1/4" (3,6 x 2,7) detector		81,0 x 60,7
with 1/3" (4,8 x 3,6) detector		107,9 x 81,0
with 1/2" (6,4 x 4,8) detector		143,9 x 107,9
with 1/1.8" (7,13 x 5,37) detector		160,3 x 120,7
with 2/3" (8,8 x 6,6) detector		diam. = 148,4
<b>Working Distance</b>	<b>(mm)</b>	398,0 +/- 12
<b>Working F-number</b>		8
<b>Telecentricity</b>	<b>(degree)</b>	< 0,08
<b>Distortion</b>	<b>(%)</b>	<0,08
<b>Field Depth</b>	<b>(mm)</b>	339,0
<b>CTF @70 lp/mm</b>	<b>(%)</b>	> 35
<b>Image side N.A.</b>		0,0620
<b>Object side N.A.</b>		0,0027
<b>Mount</b>		C
<b>Length</b>	<b>(mm)</b>	462,1
<b>External diameter</b>	<b>(mm)</b>	200,0
<b>Weight</b>	<b>(g)</b>	6500

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

### ACCESSORIES AND OPTIONS:



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



**Coaxial illumination:**  
not available.



**Back Light illumination:**  
compatible with LTBK192 illuminator.



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

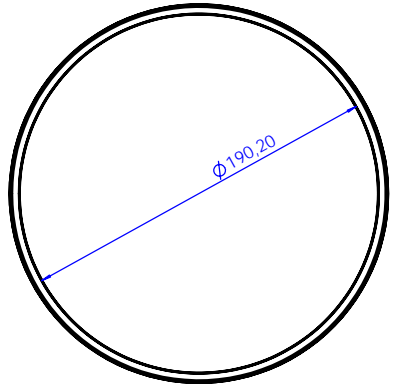
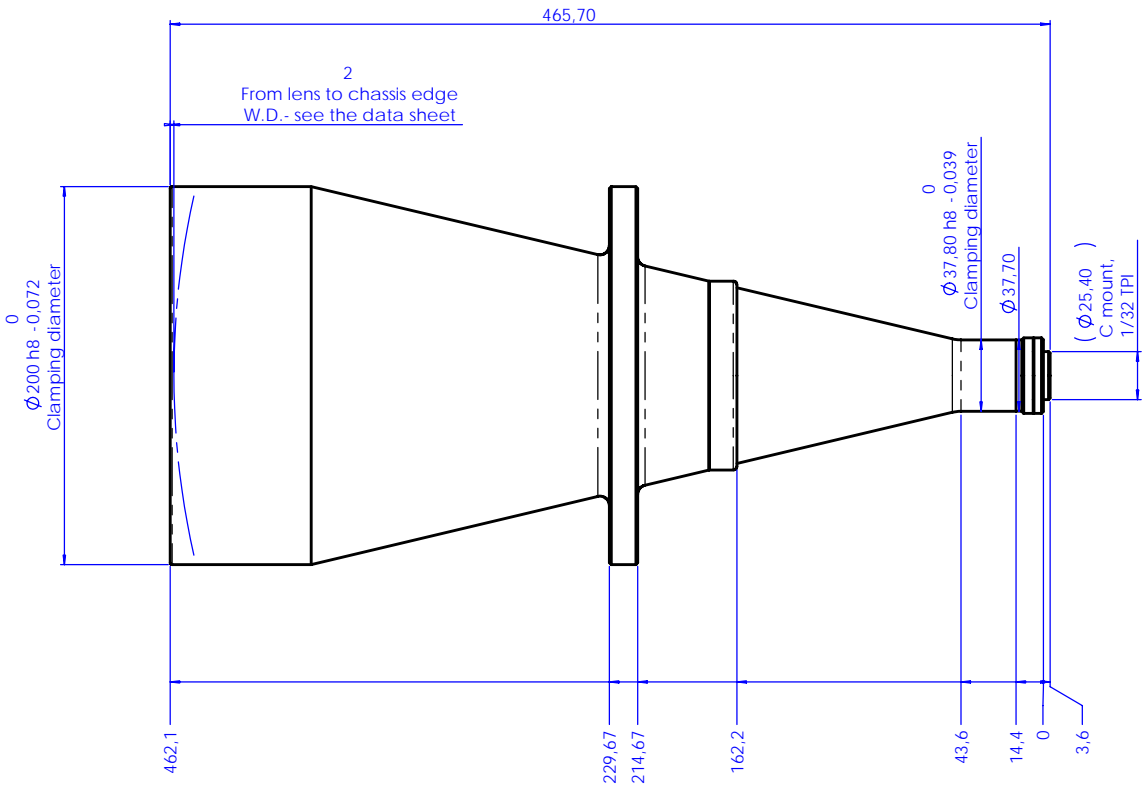
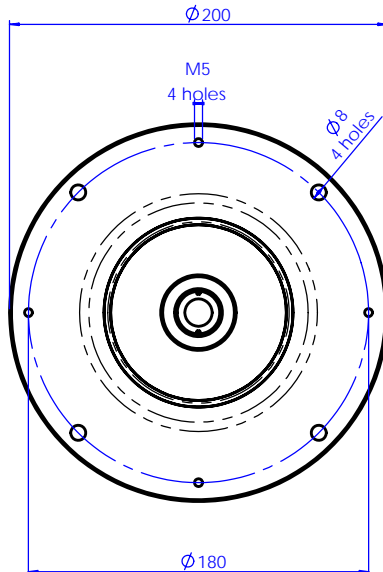


**Direct illumination:**  
not available.



**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 tolerances (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
					±1.2
Date		Name		Drawing No.	
Designed 14/06/06		A.Vismara		02371-0-A	
Draw 14/06/06		A.Vismara		Sheet 1/1	
Checked x		C.Sedazzari		Reproduction forbidden without specific authorization	
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