

# TCL 120

## BI-TELECENTRIC LENS FOR 4KPIX LINEAR DETECTORS



Part Number	TCL 120	
<b>Magnification</b>		0,239 +/- 3%
<b>Field Of View</b>	<b>(mm)</b>	
with 4k x 7 $\mu$ m detector		120,0
with 2k x 14 $\mu$ m detector		120,0
with 2k x 10 $\mu$ m detector		85,7
with 2k x 7 $\mu$ m detector		59,8
with 1k x 10 $\mu$ m detector		42,7
<b>Working Distance</b>	<b>(mm)</b>	250,0 +/- 8
<b>Working F-number</b>		8
<b>Telecentricity</b>	<b>(%)</b>	<0,1
<b>Distortion</b>	<b>(mm)</b>	<0,15
<b>Field Depth</b>		14,0
<b>CTF @70 lp/mm</b>		>30
<b>Image side N.A.</b>	<b>(degree)</b>	0,0550
<b>Object side N.A.</b>	<b>(%)</b>	0,0130
<b>Mount</b>		F
<b>Length</b>	<b>(mm)</b>	423,8
<b>External diameter</b>	<b>(mm)</b>	146,0
<b>Weight</b>	<b>(g)</b>	3900

### ACCESSORIES AND OPTIONS:



**Collimated/Telecentric illumination:**  
compatible with LTCL96 illuminator;  
green light suggested.



**Coaxial illumination:**  
not available.



**Back Light illumination:**  
compatible with LTBK96 illuminator.



**Clamping Mechanics:**  
not available

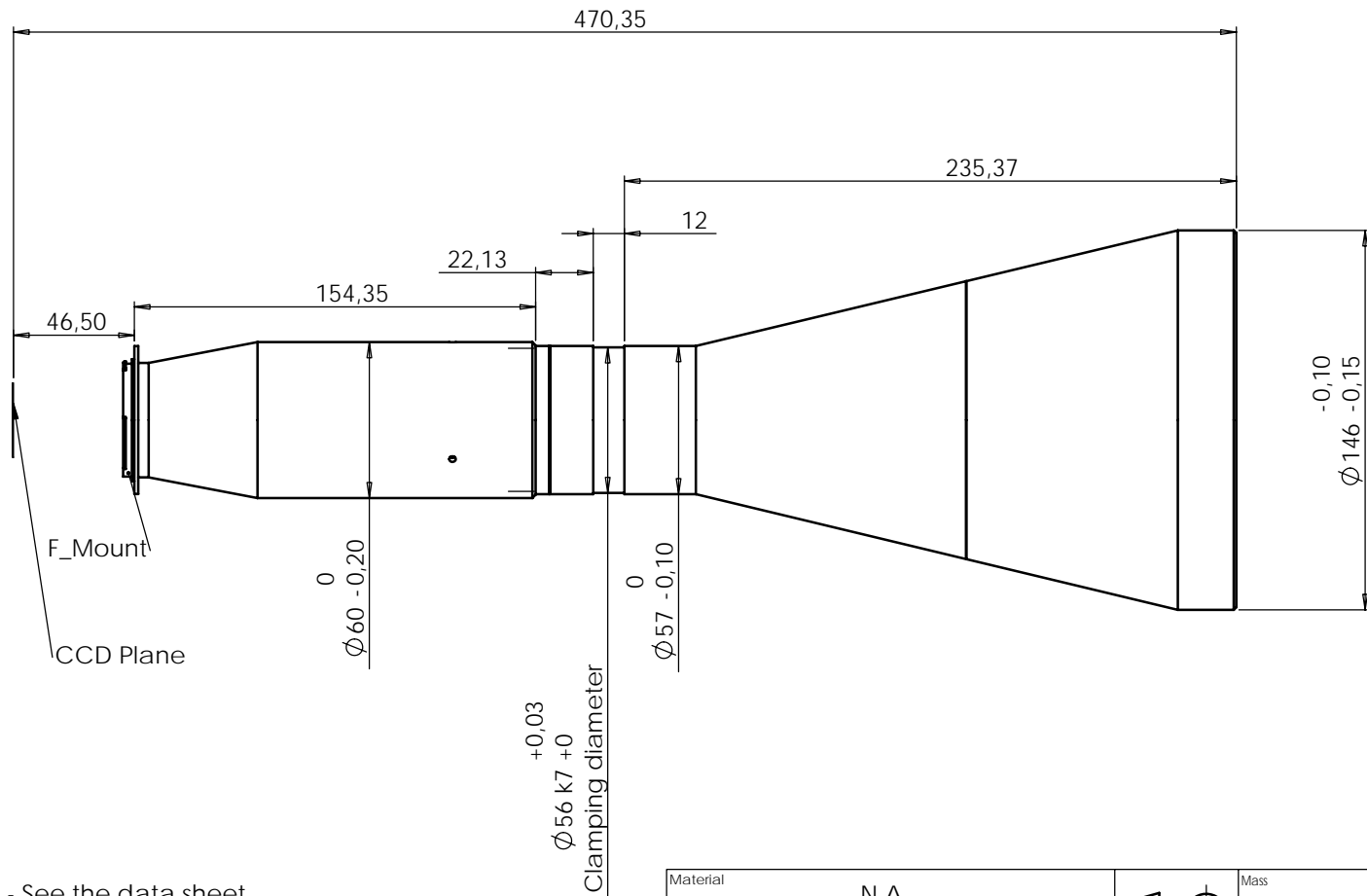


**Direct illumination:**  
not available



**Filters:**  
not available.

Rev No.	Description	Date	Name
E	Layout	05/07/07	A. Bnà



W.D- - See the data sheet

Material	N.A.			Mass	Scale	1:2	
Surface treatment	N.A.			Project-Prod.Item/Instrument TCL 120			
Geometrical tolerance (ISO 2768-2)			Class	K	Undimensioned bevels	1x45°	
Linear tolerance (ISO 2768-2)			Class	m			Undimensioned radii
0.5	>3-	>6-	>30-	>120	>400-	>1000	
±3	6	30	120	±400	1000	±2000	±4000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
Date			Name		Drawing No.		
Designed			05/07/07 A. Bnà		11034-0-E-TCL120		
Draw			05/07/07 A. Bnà		Sheet		
Checked			X C. Sedazzari		1/1		
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