

TC2MHR144-C

High resolution telecentric lens for 1" detectors, magnification 0.089x, C-mount

SPECIFICATIONS

Magnification	(x)	0.089
Image circle Ø	(mm)	16.8
Object field of view8	(mm	ı x mm or Ø)
with IMX174/IMX249 13.3 mm diag w x h 11.35 x 7.13		127.47 x 80.07
with IMX255/IMX267 16.1 mm diag w x h 14.19 x 7.51		159.44 x 84.38
with IMX253/IMX304 17.6 mm diag w x h 14.16 x 10.37		Ø = 116.53
with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2		Ø = 170.28
with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6(7)		Ø = 152.76



to improve reliability, functionality, design or other. Photos and pictures

are for illustration purposes only.

All product specifications and data are subject to change without notice

Optical specifications

optical specifications			
Working distance (1)	(mm)	396.0	
wF/# (2)		16	
Telecentricity typical (max) (3)	(deg)	<0.05 (0.10)	
Distortion typical (max) (4)	(%)	<0.05 (0.10)	
Field depth (5)	(mm)	151.5	
CTF@ 50 lp/mm	(%)	> 40	

Mechanical specifications

Mount		С	
Phase adjustment(9)		Yes	
Length (6)	(mm)	510.8	
Diameter	(mm)	200	
Mass	(g)	5895	
Last underer 2018 OC 12			

Last update: 2018-06-12

NOTES

- 1. Working distance: distance between the front end of the mechanics and the object. Set this distance within +/-3% of the nominal value for maximum resolution and minimum distortion.
- 2. Working F-number (wF/#): the real F-number of a lens when used as a macro. Lenses with smaller apertures can be supplied on request.
- Maximum slope of chief rays inside the lens: when converted to milliradians, it gives the maximum measurement error for any millimeter of object displacement. Typical (average production) values and maximum (guaranteed) values are listed.
- Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- 5. At the borders of the field depth the image can be still used for measurement but, to get a perfectly sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 5 μ m.
- 6. Measured from the front end of the mechanics to the camera flange.
- With KAI-08050 (22.6 mm diagonal) detectors, the FOV of TC4MHRyyy-x lenses may show some vignetting at the image corners.
- 8. For the fields with the indication "Ø =", the image of a circular object of such diameter is fully inscribed into the detector.

COMPATIBLE PRODUCTS

Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.



High-performance telecentric illuminators

LTCLHP144-R	Telecentric HP illuminator, beam diameter 180 mm, red
LTCLHP144-G	Telecentric HP illuminator, beam diameter 180 mm, green



LED ring illuminators - straight type

TBC234234-G Continuous LED backlight, 234x234 illumination area, green Image: LTBRDC series Continuous LED bar lights LTZPFL200-00-6-W-24V LED bar light, 6 LED rows, 200X26.3 illumination area, white, 24V LTZPFL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, red, 24V LTZPFL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, red, 24V LTZPFL200-00-6-6-24V LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-6-24V LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-6-24V LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-6-24V LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-6-24V LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-7 LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-7 LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-7 LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V ILTZPFL200-00-6-7 LED bar light, 6 LED rows, 200X26.3 illumination area, red, 24V ILTZPFL200-00-6-7 LED bar light, 6 LED rows, 200X26.3 illumination area, red, 24V ILTZPFL200-00-6-7 Red, 2004000 <			
TRN1448L Ring LED Illuminator, inner diameter 200 mm, straight type, blue 470 nm TRN1448W Ring LED Illuminator, inner diameter 200 mm, straight type, white Fig: LTBC series Continuous LED backlight Continuous LED backlight, 234-234 illumination area, white TBC234234-6 Continuous LED backlight, 234-234 illumination area, white Fig: LTBRDC series Continuous LED backlight, 6 LED rows, 200X26.3 illumination area, white, 24V TZPF1200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, white, 24V TZPF1200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, green, 24V TZPF1200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, green, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, white, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, white, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, white, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, white, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.3 illumination area, 24V FUPL200-00-6-R-24V LED bar light, 6 LED rows, 200X26.	LTRN144RD	R	ing LED illuminator, inner diameter 200 mm, straight type, red 630 nm
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TZPFL200-00-6-B-24V LED bar light, 6 LED rows, 200X26.3 illumination area, blue, 24V Image: CMH0 series Clamping mechanics CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics Image: CMH0145 Clamping mechanics for TCox130, TCox144 lenses and LTCLHP144-X illuminators Image: CMH0144 Clamping mechanics for TCox130, TCox144 lenses Image: CMH0145 LEB bar length with Sony Preglus CMOS sensor IMX249 Image: CMH0145 USB3 Vision camera with Sony Preglus CMOS sensor IMX249 Image: CMH0147 Clamping mechanics Image: CMH028 USB3 Vision camera with Sony Preglus CMOS sensor IMX267 Imm485-2089 USB3 Vision camera wit	TZPFL200-0	00-6-R-2	LED bar light, 6 LED rows, 200X26.3 illumination area, red, 24V
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