

RT-HR-4M-110

4x Telecentric lens for detectors up to 2/3", WD 110 mm

SPECIFICATIONS

Magnification		4.00
Image circle Ø	(mm)	11
Max detector size		2/3"
Phase adjustment		Yes

Object field of view

with 1/3" detector (4.8 x 3.6 mm)	(mm x mm)	1.2 x 0.9
with 1/2.5" detector (5.70 x 4.28 mm)	(mm x mm)	1.4 x 1.1
with 1/2" detector (6.4 x 4.8 mm)	(mm x mm)	1.6 x 1.2
with 1/1.8" detector (7.13 x 5.37 mm)	(mm x mm)	1.8 x 1.3
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm x mm)	2.1 x 1.8

Optical specifications

Working distance	(mm)	110.00
wF/# 1		39.2
Distortion	(%)	0.54
Field depth	(mm)	0.20
Nominal resolving power	(µm)	6.60

Mechanical specifications

Mount		C
Length	(mm)	94.6
Diameter	(mm)	18.0
Mass	(g)	60
Focus lock screws		-
Iris lock screws		-

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NOTES

- 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.
- F/# = F-number, wF/# = working F-number, the real F-number of a lens when used as a macro.

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.



LTLAIC series (discontinued models)

Continuous LED low angle diffused ringlights

LT2RZF050-60-2-W-24V	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, white, 24V
LT2RZF050-60-2-R-24V	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, red, 24V
LT2RZF050-60-2-G-24V	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, green, 24V
LT2RZF050-60-2-B-24V	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, blue, 24V



LTLAIC series

Continuous LED low angle diffused ringlights

LT3RZF050-60-1-W-24V	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, white, 24V
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All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only.

LT3RZF050-60-1-R-24V	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, red, 24V
LT3RZF050-60-1-G-24V	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, green, 24V
LT3RZF050-60-1-B-24V	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, blue, 24V



LTLADC series

Continuous LED low angle direct ringlights

LTZZO130-75-3-W-24V	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, white, 24V
LTZZO130-75-3-R-24V	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, red, 24V
LTZZO130-75-3-G-24V	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, green, 24V
LTZZO130-75-3-B-24V	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, blue, 24V



LTRNDC series

Continuous LED direct ringlights

LTZGK050-15-2-W-24V	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, white, 24V
LTZGK050-15-2-R-24V	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, red, 24V
LTZGK050-15-2-G-24V	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, green, 24V
LTZGK050-15-2-B-24V	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, blue, 24V
LTZGK070-45-3-W-24V	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, white, 24V
LTZGK070-45-3-R-24V	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, red, 24V
LTZGK070-45-3-G-24V	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, green, 24V
LTZGK070-45-3-B-24V	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, blue, 24V



LTBFC series

Continuous flat side-emitting LED backlights

LTPVRG25X36-00-1-W-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, white, 24V
LTPVRG25X36-00-1-R-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, red, 24V
LTPVRG25X36-00-1-G-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, green, 24V
LTPVRG25X36-00-1-B-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, blue, 24V



LTBRDC series

Continuous LED bar lights

LTZPFL040-00-6-W-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, white, 24V
LTZPFL040-00-6-R-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, red, 24V
LTZPFL040-00-6-G-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, green, 24V
LTZPFL040-00-6-B-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, blue, 24V



LTCXC series

Continuous LED coaxial lights

LT2QOG025-00-X-W-24V	LED coaxial light, 25x25.6 mm light emitting area, white, 24V
LT2QOG025-00-X-R-24V	LED coaxial light, 25x25.6 mm light emitting area, red, 24V
LT2QOG025-00-X-G-24V	LED coaxial light, 25x25.6 mm light emitting area, green, 24V
LT2QOG025-00-X-B-24V	LED coaxial light, 25x25.6 mm light emitting area, blue, 24V



LTPR series

LED patterns projectors

LTPRHP3W-W	LED pattern projector 3W, HP, white
LTPRHP3W-R	LED pattern projector 3W, HP, red
LTPRHP3W-G	LED pattern projector 3W, HP, green
LTPRHP3W-B	LED pattern projector 3W, HP, blue
LTPRUP-W	90W strobed LED pattern projector white
LTPRUP-R	90W strobed LED pattern projector red
LTPRUP-G	90W strobed LED pattern projector green

