

# RT-HR-2F-110

2x High magnification telecentric lens with built-in coaxial illumination for detectors up to 2/3", WD 110 mm

## SPECIFICATIONS

Magnification		2
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)	2.4 x 1.8
with 1/2.5" detector (5.70 x 4.28 mm)	(mm x mm)	2.9 x 2.1
with 1/2" detector (6.4 x 4.8 mm)	(mm x mm)	3.2 x 2.4
with 1/1.8" detector (7.13 x 5.37 mm)	(mm x mm)	3.6 x 2.7
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm x mm)	4.2 x 3.5

### Optical specifications

Working distance	(mm)	110
wF/# 1		23.8
Distortion	(%)	0.78
Field depth	(mm)	0.4
Nominal resolving power	(µm)	8

### Mechanical specifications

Mount		C
Length	(mm)	87.36
Diameter	(mm)	18
Mass	(g)	55
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.



LTD series

Continuous LED domes

LT4WRG150-00-1-W-24V	LED dome light, 185 mm outer diameter, white, 24V
LT4WRG150-00-1-R-24V	LED dome light, 185 mm outer diameter, red, 24V
LT4WRG150-00-1-G-24V	LED dome light, 185 mm outer diameter, green, 24V
LT4WRG150-00-1-B-24V	LED dome light, 185 mm outer diameter, blue, 24V



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
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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.

<a href="#">LT2RZF050-60-2-R-24V</a>	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, red, 24V
<a href="#">LT2RZF050-60-2-G-24V</a>	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, green, 24V
<a href="#">LT2RZF050-60-2-B-24V</a>	LED ringlight, 2 LED rows, 50.8 mm outer diameter, 60°, blue, 24V



#### LTLAIC series

Continuous LED low angle diffused ringlights

<a href="#">LT3RZF050-60-1-W-24V</a>	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, white, 24V
<a href="#">LT3RZF050-60-1-R-24V</a>	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, red, 24V
<a href="#">LT3RZF050-60-1-G-24V</a>	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, green, 24V
<a href="#">LT3RZF050-60-1-B-24V</a>	LED ringlight, 1 LED row, 56.4 mm outer diameter, 60°, blue, 24V



#### LTLADC series

Continuous LED low angle direct ringlights

<a href="#">LTZZO130-75-3-W-24V</a>	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, white, 24V
<a href="#">LTZZO130-75-3-R-24V</a>	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, red, 24V
<a href="#">LTZZO130-75-3-G-24V</a>	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, green, 24V
<a href="#">LTZZO130-75-3-B-24V</a>	LED low angle ringlight, 3 LED rows, outer diameter 131 mm, 75°, blue, 24V



#### LTRNDC series

Continuous LED direct ringlights

<a href="#">LTZGK050-15-2-W-24V</a>	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, white, 24V
<a href="#">LTZGK050-15-2-R-24V</a>	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, red, 24V
<a href="#">LTZGK050-15-2-G-24V</a>	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, green, 24V
<a href="#">LTZGK050-15-2-B-24V</a>	LED ringlight, 2 LED rows, outer diameter 50 mm, 15°, blue, 24V
<a href="#">LTZGK070-45-3-W-24V</a>	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, white, 24V
<a href="#">LTZGK070-45-3-R-24V</a>	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, red, 24V
<a href="#">LTZGK070-45-3-G-24V</a>	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, green, 24V
<a href="#">LTZGK070-45-3-B-24V</a>	LED ringlight, 3 LED rows, outer diameter 70 mm, 45°, blue, 24V



#### LTBFC series

Continuous flat side-emitting LED backlights

<a href="#">LTPVRG25X36-00-1-W-24V</a>	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, white, 24V
<a href="#">LTPVRG25X36-00-1-R-24V</a>	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, red, 24V
<a href="#">LTPVRG25X36-00-1-G-24V</a>	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, green, 24V
<a href="#">LTPVRG25X36-00-1-B-24V</a>	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, blue, 24V



#### LTBRDC series

Continuous LED bar lights

<a href="#">LTZPFL040-00-6-W-24V</a>	LED bar light, 6 LED rows, 40X26.3 illumination area, white, 24V
<a href="#">LTZPFL040-00-6-R-24V</a>	LED bar light, 6 LED rows, 40X26.3 illumination area, red, 24V
<a href="#">LTZPFL040-00-6-G-24V</a>	LED bar light, 6 LED rows, 40X26.3 illumination area, green, 24V
<a href="#">LTZPFL040-00-6-B-24V</a>	LED bar light, 6 LED rows, 40X26.3 illumination area, blue, 24V