

RT-HR-6F-110

6x High magnification telecentric lens with built-in coaxial illumination for detectors up to 2/3", WD 110 mm

SPECIFICATIONS

Magnification		6
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)	0.8 x 0.6
with 1/2.5" detector (5.70 x 4.28 mm)	(mm x mm)	1.0 x 0.7
with 1/2" detector (6.4 x 4.8 mm)	(mm x mm)	1.1 x 0.8
with 1/1.8" detector (7.13 x 5.37 mm)	(mm x mm)	1.2 x 0.9
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm x mm)	1.4 x 1.2

Optical specifications

Working distance	(mm)	110
wF/# 1		55.6
Distortion	(%)	0.25
Field depth	(mm)	0.16
Nominal resolving power	(µm)	6.2

Mechanical specifications

Mount		C
Length	(mm)	114.17
Diameter	(mm)	18
Mass	(g)	65
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.



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.



LTDMC 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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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
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

LTPPFL040-00-6-W-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, white, 24V
LTPPFL040-00-6-R-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, red, 24V
LTPPFL040-00-6-G-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, green, 24V
LTPPFL040-00-6-B-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, blue, 24V