

RT-HR-1F-71

1x High magnification telecentric lens with built-in coaxial illumination for detectors up to 2/3", WD 71 mm

SPECIFICATIONS

| | | |
|-------------------|------|------|
| Magnification | | 1 |
| 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) | 4.8 x 3.6 |
| with 1/2.5" detector (5.70 x 4.28 mm) | (mm x mm) | 5.7 x 4.3 |
| with 1/2" detector (6.4 x 4.8 mm) | (mm x mm) | 6.4 x 4.8 |
| with 1/1.8" detector (7.13 x 5.37 mm) | (mm x mm) | 7.1 x 5.4 |
| with 2/3" - 5 MP detector (8.45 x 7.07 mm) | (mm x mm) | 8.5 x 7.1 |

Optical specifications

| | | |
|-------------------------|------|------|
| Working distance | (mm) | 71 |
| wF/# 1 | | 15.6 |
| Distortion | (%) | 0 |
| Field depth | (mm) | 0.9 |
| Nominal resolving power | (µm) | 10.5 |

Mechanical specifications

| | | |
|-------------------|------|-------|
| Mount | | C |
| Length | (mm) | 116.1 |
| Diameter | (mm) | 18 |
| Mass | (g) | 65 |
| Focus lock screws | | - |
| Iris lock screws | | - |

Last update: 2018-11-08

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

| | |
|----------------------|--|
| LT3RZF050-60-2-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 |
|----------------------|---|



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

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|------------------------|--|
| 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 |