PRODUCT DATASHEET

# RT-TV-05M-800

0.5x Very long working distance telecentric lens for detectors up to 1/1.8"

OPTO ENGINEERING

## SPECIFICATIONS

| | | |
|---|---|---|
| Magnification | | 0.50 |
| Image circle Ø | (mm) | 8.9 |
| Max detector size | | 1/1.8" |

| Object field of view | | |
|---|---|---|
| with 1/3" detector (4.8 x 3.6 mm) | (mm x mm) | 9.6 x 7.2 |
| with 1/2.5" detector (5.70 x 4.28 mm) | (mm x mm) | 11.4 x 8.6 |
| with 1/2" detector (6.4 x 4.8 mm) | (mm x mm) | 12.8 x 9.6 |
| with 1/1.8" detector (7.13 x 5.37 mm) | (mm x mm) | 14.3 x 10.7 |

| Optical specifications | | |
|---|---|---|
| Working distance | (mm) | 800.00 |
| F/# | | 16.7 |
| Distortion | (%) | 0.04 |
| Field depth | (mm) | 3.89 |
| Nominal resolving power | (µm) | 22.40 |

| Mechanical specifications | | |
|---|---|---|
| Mount | | C |
| Length | (mm) | 279.6 |
| Diameter | (mm) | 58.0 |
| Mass | (g) | 475 |

*Last update: 2019-12-12*

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.

## 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. 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.

**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 |