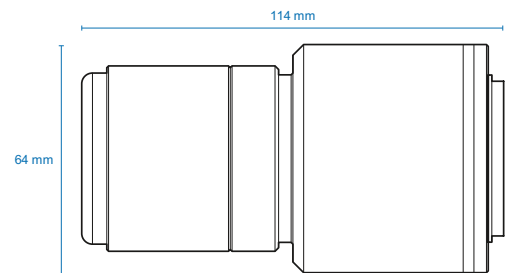


MC4K075X-F

Macro lens for 4k linescan cameras, magnification 0.75x, F-mount

SPECIFICATIONS


| Focusing (1) | | near | nominal | far |
|---|------|------------------|----------------|----------------|
| Magnification | (x) | 0.795 | 0.750 | 0.704 |
| Object field of view (mm x mm) | | | | |
| with KAI-04050 16 mm diagonal w x h 12.8 x 9.6 | | 16.1 x 12.1 | 17.1 x 12.8 | 18.2 x 13.6 |
| with 2k x 10 µm detector 20.48 | | 25.8 | 27.3 | 29.1 |
| with KAI-4022/4021 21.5 mm diagonal w x h 15.2 x 15.2 | | 19.1 x 19.1 | 20.3 x 20.3 | 21.6 x 21.6 |
| with KAI-08050 22.6 mm diagonal w x h 18.1 x 13.6 | | 22.8 x 17.1 | 24.1 x 18.1 | 25.7 x 19.3 |
| with 4k x 7 µm detector 28.67 | | 36.1 | 38.2 | 40.7 |
| Optical specifications | | | | |
| Working distance | (mm) | 131.4 | 137.3 | 143.9 |
| f/# (wF/#) (2) | | 6.3 (11) | ... | ... |
| Distortion typical (max) (3) | (%) | < 0.04 (0.08) | ... | ... |
| Field depth (4) | (mm) | 1.3 | ... | ... |
| CTF @ 50 lp/mm | (%) | > 50 | ... | ... |
| Image side numerical aperture | | 0.045 | ... | ... |
| Object side numerical aperture | | 0.036 | ... | ... |
| Mechanical specifications | | | | |
| Length (5) | (mm) | 113.6 | ... | ... |
| Diameter | (mm) | 64.0 | ... | ... |
| Mass | (g) | 567 | ... | ... |
| Mount (6) | | F | ... | ... |



NOTES

- Maximum and minimum magnification changes when focusing.
- F/# = F-number, wF/# = working F-number, the real F-number of a lens when used as a macro. Lenses with smaller apertures can be supplied on request.
- Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- At the borders of the field depth the image can be still used for measurement but to get a perfectly sharp image only half of the nominal field depth should be taken into account.
- Measured from the front end of the mechanics to the camera flange; take into account a +/- 2.5 mm tolerance due to the focussing mechanism.

COMPATIBLE PRODUCTS

 LTDM series
Diffusive strobed dome illuminators

| | |
|----------|--|
| LTDMC1-W | Diffusive strobed dome illuminator - large size medium power white |
| LTDMC2-R | Diffusive strobed dome illuminator - large size high power red |
| LTDMC2-G | Diffusive strobed dome illuminator - large size high power green |
| LTDMC2-W | Diffusive strobed dome illuminator - large size high power white |