Home | Optics | Telecentric lenses | TC16M series | TC16M120-Q

OPTO ENGINEERING

TC16M120-Q

Telecentric lens for 35 mm detectors, magnification 0.289 x, mount M58x0.75 FD = 6.56

SPECIFICATIONS

| Magnification | (x) | 0.29 |
|---|-----------|----------------|
| Image circle Ø | (mm) | 43.3 |
| Object field of view | | |
| with APS-H KAI-16050 32.4 mm diagonal w x h 26.93 x 17.95 | (mm x mm) | 93.18 x 62.12 |
| with CHR70 38 mm diagonal w x h 31.0 x 21.99 | (mm x mm) | 107.27 x 76.09 |
| with 8k x 5 μm detector | (mm) | 141.18 |
| Full frame 35 mm, 43.3 mm diagonal w x h 36.0 x 24.00 | (mm x mm) | 124.57 x 83.04 |
| with CMV50000 45.72 mm diagonal w x h 36.43 x 27.62 | (mm x mm) | 126.06 x 95.56 |







Optical specifications

| Working distance (1) | (mm) | 331.6 |
|----------------------------------|-------|---------------|
| wF/# (2) | | 16 |
| Telecentricity typical (max) (3) | (deg) | < 0.05 (0.08) |
| Distortion typical (max) (4) | (%) | < 0.05 (0.10) |
| Field depth (5) | (mm) | 15.8 |
| CTF@ 50 lp/mm | (%) | > 40 |

Mechanical specifications

| Mount (6) | | M58x0.75 FD6.56 |
|----------------------|------|-----------------|
| Phase adjustment (7) | | |
| Length (8) | (mm) | 578.1 |
| Diameter | (mm) | 180 |
| Mass | (g) | 5209 |
| | | |

Last update: 2020-07-16

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. Working F/#: the real F/# of a lens when used as a macro. Lenses with smaller apertures can be supplied on request.
- ${\it 3. } Maximum \ slope \ of \ chief \ rays \ inside \ the \ lens: \ when \ converted \ to \ milliradians, \ it \ gives \ the \ maximum$ measurement error for any millimeter of object displacement. Typical (average production) values and maximum (guaranteed) values are listed.
- 4. Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- 5. At the borders of the field depth the image can be still used for measurement but, to get a very sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 5.5 $\mu m_{\rm c}$
- 6. FD stands for Flange Distance (in mm), defined as the distance from the mounting flange (the "metal ring" in rear part of the lens) to the camera detector plane.
- 7. Indicates the availability of an integrated camera phase adjustment feature.
- 8. Measured from the front end of the mechanics to the camera flange.

COMPATIBLE PRODUCTS

Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the ${\tt Opto} \ {\tt Engineering} \\ \textbf{@} \ \textbf{technical support} \ {\tt department} \ {\tt before} \ {\tt purchasing} \ {\tt a} \ {\tt compatible} \ {\tt product}. \ {\tt Opto} \ {\tt opt$ Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.



LTCLHP series

High-performance telecentric illuminators

| LTCLHP120-R | Telecentric HP illuminator, beam diameter 150 mm, red |
|-------------|---|
| LTCLHP120-G | Telecentric HP illuminator, beam diameter 150 mm, green |

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.



LTRNST series

LED ring illuminators - straight type

| LTRN120RD | Ring LED illuminator, inner diameter 180 mm, straight type, red 630 nm |
|-----------|--|
| LTRN120GR | Ring LED illuminator, inner diameter 180 mm, straight type, green 525 nm |
| LTRN120BL | Ring LED illuminator, inner diameter 180 mm, straight type, blue 470 nm |
| LTRN120NW | Ring LED illuminator, inner diameter 180 mm, straight type, white |



LTBC series

Continuos LED backlight

| LTBC174174-W | Continuos LED backlight, 174x174 illumination area, white |
|--------------|---|
| LTBC174174-G | Continuos LED backlight, 174x174 illumination area, green |



LTBRDC series

Continuous LED bar lights

| LTZPFL160-00-6-W-24V | LED bar light, 6 LED rows, 160X26.3 illumination area, white, 24V |
|----------------------|---|
| LTZPFL160-00-6-R-24V | LED bar light, 6 LED rows, 160X26.3 illumination area, red, 24V |
| LTZPFL160-00-6-G-24V | LED bar light, 6 LED rows, 160X26.3 illumination area, green, 24V |
| LTZPFL160-00-6-B-24V | LED bar light, 6 LED rows, 160X26.3 illumination area, blue, 24V |



CMHO series

Clamping mechanics

CMHO120 Clamping mechanics for TCxx110, TCxx120 lenses and LTCLHP120-X illuminators



COE HR AS series

29 MP, 48MP and 71MP area scan cameras for high-speed applications

| COE29CUSB3IR-K Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, IR cut, IR Cut filter, K mount COE29MUSB3IR-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, IR cut, IR Cut filter, F-mount COE29MCLIR-K Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, IR cut, IR Cut filter, F-mount COE29MCLIR-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, K mount COE29MCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, K mount COE29MCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount | COE29MUSB3IR-K | Area scan camera CCD, USB3, 6576 \times 4384 monochrome, 35mm, 2fps, IR Cut filter, K mount |
|--|--|--|
| F-mount COE29CUSB3IR-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, IR cut, IR Cut filter, F-mount COE29MCLIR-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, K mount COE29CCLIR-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, K mount COE29MCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, F-mount COE29CCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount | COE29CUSB3IR-K | • |
| mount COE29MCLIR-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, K mount COE29CCLIR-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, K mount COE29MCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, F-mount COE29CCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount | COE29MUSB3IR-F | |
| Cut filter, K mount COE29CCLIR-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, K mount COE29MCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, F-mount COE29CCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount | COE29CUSB3IR-F | |
| mount COE29MCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, IR Cut filter, F-mount COE29CCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | COE29MCLIR-K | |
| CUt filter, F-mount COE29CCLIR-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, IR Cut filter, F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29CUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount | COE29CCLIR-K | |
| F-mount COE29MUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, K mount COE29CUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount | COE29MCLIR-F | |
| skylight/glass filter, K mount COE29CUSB3SK-K Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | COE29CCLIR-F | |
| mount COE29MUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | COE29MUSB3SK-K | |
| skylight/glass filter, F-mount COE29CUSB3SK-F Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | COE29CUSB3SK-K | Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, K |
| F-mount COE29MCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | | mount |
| skylight/glass filter, K mount COE29CCLSK-K Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | COE29MUSB3SK-F | Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, |
| filter, K mount COE29MCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | | Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, |
| skylight/glass filter, F-mount COE29CCLSK-F Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass | COE29CUSB3SK-F | Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, |
| | COE29CUSB3SK-F COE29MCLSK-K | Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass |
| | COE29CUSB3SK-F COE29MCLSK-K COE29CCLSK-K | Area scan camera CCD, USB3, 6576 x 4384 monochrome, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, USB3, 6576 x 4384 color, 35mm, 2fps, skylight/glass filter, F-mount Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, skylight/glass filter, K mount Area scan camera CCD, Camera Link, 6576 x 4384 color, 35mm, 4fps, skylight/glass filter, K mount Area scan camera CCD, Camera Link, 6576 x 4384 monochrome, 35mm, 4fps, |

| COE50MUSB3IR-K | Area scan camera CMOS, USB3, 7920 x 6004, monochrome, 6.8fps, IR Cut filter, K mount |
|--|--|
| COE50CUSB3IR-K | Area scan camera CMOS, USB3, 7920 x 6004, color, 6.8fps, IR Cut filter, K mount |
| COE50MUSB3IR-F | Area scan camera CMOS, USB3, 7920 x 6004, monochrome, 6.8fps, IR Cut filter, F-mount |
| COE50CUSB3IR-F | Area scan camera CMOS, USB3, 7920 x 6004, color, 6.8fps, IR Cut filter, F-mount |
| COE50MCLIR-K | Area scan camera CMOS, Camera Link, 7920 x 6004, monochrome, 27.3fps, IR Cut filter, K mount |
| COE50CCLIR-K | Area scan camera CMOS, Camera Link, 7920 x 6004, color, 27.3fps, IR Cut filter, K mount |
| COE50MCLIR-F | Area scan camera CMOS, Camera Link, 7920 x 6004, monochrome, 27.3fps, IR Cut filter, F-mount |
| COE50CCLIR-F | Area scan camera CMOS, Camera Link, 7920 x 6004, color, 27.3fps, IR Cut filter, F-mount |
| COE50MUSB3SK-K | Area scan camera CMOS, USB3, 7920 x 6004, monochrome, 6.8fps, skylight/glass filter, K mount |
| COE50CUSB3SK-K | Area scan camera CMOS, USB3, 7920 x 6004, color, 6.8fps, skylight/glass filter, K mount |
| COE50MUSB3SK-F | Area scan camera CMOS, USB3, 7920 x 6004, monochrome, 6.8fps, skylight/glass filter, F-mount |
| COE50CUSB3SK-F | Area scan camera CMOS, USB3, 7920 x 6004, color, 6.8fps, skylight/glass filter, F-mount |
| COE50MCLSK-K | Area scan camera CMOS, Camera Link, 7920 x 6004, monochrome, 27.3fps, skylight/glass filter, K mount |
| COE50CCLSK-K | Area scan camera CMOS, Camera Link, 7920 x 6004, color, 27.3fps, skylight/glass filter, K mount |
| COE50MCLSK-F | Area scan camera CMOS, Camera Link, 7920 x 6004, monochrome, 27.3fps, skylight/glass filter, F-mount |
| COE50CCLSK-F | Area scan camera CMOS, Camera Link, 7920 x 6004, color, 27.3fps, skylight/glass filter, F-mount |
| COE71MUSB3IR-K | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount |
| COE71CUSB3IR-K | Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, K mount |
| | Area Scarr Carriera Civios, Osbs, 10000 x 7034, color, sips, ik cut lilter, k mount |
| COE71MUSB3IR-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount |
| | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F- |
| COE71MUSB3IR-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount |
| COE71MUSB3IR-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, K |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F COE71CUSB3SK-K COE71CUSB3SK-K | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, K mount |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F COE71CUSB3SK-K COE71CUSB3SK-K | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F COE71CUSB3SK-K COE71CUSB3SK-K COE71MUSB3SK-F COE71CUSB3SK-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, F-mount |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F COE71CUSB3SK-K COE71MUSB3SK-K COE71MUSB3SK-F COE71MUSB3SK-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, skylight/glass |
| COE71MUSB3IR-F COE71CUSB3IR-F COE71MCLIR-K COE71CCLIR-K COE71MCLIR-F COE71CCLIR-F COE71CUSB3SK-K COE71CUSB3SK-K COE71CUSB3SK-F COE71CUSB3SK-F COE71CUSB3SK-F | Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, IR Cut filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, IR Cut filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, K mount Area scan camera CMOS, USB3, 10000 x 7094, monochrome, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, USB3, 10000 x 7094, color, 3fps, skylight/glass filter, F-mount Area scan camera CMOS, Camera Link, 10000 x 7094, monochrome, 3fps, skylight/glass filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, skylight/glass filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, skylight/glass filter, K mount Area scan camera CMOS, Camera Link, 10000 x 7094, color, 3fps, skylight/glass filter, K mount |



COE HR AS-X series

20MP, 26MP and 29MP area scan cameras for high-speed applications

| COE-260-M-10GIGE-100-IR-F | HR Area Scan camera PYTHON 25K, CMOS, 5120 \times 5120, 26 MP, 4.5 pix, APS-H, Gray, 10GigE, 40 fps, F - mount, Glass filter |
|---------------------------|---|
| COE-260-M-10GIGE-100-IR-I | HR Area Scan camera PYTHON 25K, CMOS, 5120 \times 5120, 26 MP, 4.5 pix, APS-H, Gray, 10GigE, 40 fps, M58x0.75 - mount, Glass filter |
| COE-290-M-GIGE-110-IR-F-A | HR Area Scan camera KAl29050-B1, CCD, Global shutter, 6576 × 4384, 29 MP, 5.5 pix, 35 mm, Gray, GigE, 4 fps, F - mount, Glass filter |

| COE-290-M-GIGE-110-IR-F-B | HR Area Scan camera KAI29050-B2, CCD, Global shutter, 6576 × 4384, 29 MP, 5.5 pix, 35 mm, Gray, GigE, 4 fps, F - mount, Glass filter |
|---------------------------|--|
| COE-290-M-GIGE-110-IR-I-A | HR Area Scan camera KAI29050-B1, CCD, Global shutter, 6576 \times 4384, 29 MP, 5.5 pix, 35 mm, Gray, GigE, 4 fps, M58x0.75 - mount, Glass filter |
| COE-290-M-GIGE-110-IR-I-B | HR Area Scan camera KAI29050-B2, CCD, Global shutter, 6576 × 4384, 29 MP, 5.5 pix, 35 mm, Gray, GigE, 4 fps, M58x0.75 - mount, Glass filter |
| COE-290-C-GIGE-110-IR-F-B | HR Area Scan camera KAI29050-B2, CCD, Global shutter, 6576 × 4384, 29 MP, 5.5 pix, 35 mm, Color, GigE, 4 fps, F - mount, Infrared cut filter |
| COE-290-C-GIGE-110-IR-I-B | HR Area Scan camera KAI29050-B2, CCD, Global shutter, 6576 \times 4384, 29 MP, 5.5 pix, 35 mm, Color, GigE, 4 fps, M58x0.75 - mount, Infrared cut filter |