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## vicotar® Telecentric Lens - T152/0.36

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|---------------------------|-----------------------------------------------------------------------------------------|
| <b>Short description:</b> | Telecentric Lens, C-mount, Sensor opt. 1",<br>variable aperture, W/NIR                  |
| <b>Order number:</b>      | 2-05-329<br><b>This product is being replaced!</b>                                      |
| <b>EAN:</b>               | 4251692620441                                                                           |
| <b>Actual Notice:</b>     | Termination to 31.12.2022.<br>Please check the use of: TO42/16.0-120-V-BW<br>(2-05-624) |



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### Characteristics

- telecentric measurement objective with object-sided telecentric beam path
  - high-quality imaging
  - color-optimized and bright
  - adjustable aperture, arrestable
  - robust industrial design
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## Technical data

|                                              |                           |
|----------------------------------------------|---------------------------|
| Image scale                                  | 0.359                     |
| Spectral range                               | 380 nm - 900 nm           |
| Working distance                             | 110.0 mm                  |
| Object field diagonal (max.)                 | 44.5 mm                   |
| Sensor format (opt.)                         | 1"                        |
| Suitable for camera resolution               | 5 MPixel                  |
| Aperture                                     | Variable aperture         |
| Lens mount                                   | C-Mount                   |
| Filter thread, object-side                   | M52 x 0.75 (depth 4.3 mm) |
| Weight                                       | 390 g                     |
| Usable object field with:                    |                           |
| • 1" sensor (12.8 x 9.6 mm <sup>2</sup> )    | 35.6 mm x 26.7 mm         |
| • 2/3" sensor (8.8 x 6.6 mm <sup>2</sup> )   | 24.5 mm x 18.3 mm         |
| • 1/1.8" sensor (7.1 x 5.4 mm <sup>2</sup> ) | 20.0 mm x 15.0 mm         |
| • 1/2" sensor (6.4 x 4.8 mm <sup>2</sup> )   | 17.8 mm x 13.3 mm         |
| • 1/3" sensor (4.8 x 3.6 mm <sup>2</sup> )   | 13.3 mm x 10.0 mm         |
| • 1/4" sensor (3.4 x 2.2 mm <sup>2</sup> )   | 9.4 mm x 6.1 mm           |

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## Can be combined with

| Order number                         | Title                    | Description                                                                  |
|--------------------------------------|--------------------------|------------------------------------------------------------------------------|
| <b><i>TZB51-UDC-a Serie</i></b>      |                          |                                                                              |
| 1-10-941                             | TZB51-B470/UDC/-a        | telecentric light, blue, If diameter: 49 mm, flashable by flash controller   |
| 1-10-942                             | TZB51-W5K7/UDC/-a        | telecentric light, white, If diameter: 49 mm, flashable by flash controller  |
| 1-10-943                             | TZB51-IR880/UDC/-a       | telecentric light, IR850, If diameter: 49 mm, flashable by flash controller  |
| 1-10-940                             | TZB51-R625/UDC/-a        | telecentric light, red, If diameter: 49 mm, flashable by flash controller    |
| 1-10-944                             | TZB51-G525/UDC/-a        | telecentric light, green, If diameter: 49 mm, flashable by flash controller  |
| <b><i>TZB51 series</i></b>           |                          |                                                                              |
| 1-10-201                             | TZB51-B470-24V           | telecentric light, blue, If diameter: 49 mm, static, cable open-ended        |
| 1-10-198                             | TZB51-W5K7-24V           | telecentric light, white, If diameter: 49 mm, static, cable open-ended       |
| 1-10-202                             | TZB51-IR880-24V          | telecentric light, IR850, If diameter: 49 mm, static, cable open-ended       |
| 1-10-200                             | TZB51-R625-24V           | telecentric light, red, If diameter: 49 mm, static, cable open-ended         |
| 1-10-215                             | TZB51-G525-24V           | telecentric light, green, If diameter: 49 mm, static, cable open-ended       |
| <b><i>Beam splitter STE60x60</i></b> |                          |                                                                              |
| 1-20-050                             | STE60x60-VIS             | Beam splitter unit for coaxial light system, optimized for 450-700 nm        |
| 1-20-022                             | Adapter STE60x60 - TZO56 | Attachment of the STE60x60 to telecentric lenses and lightings with d = 56mm |

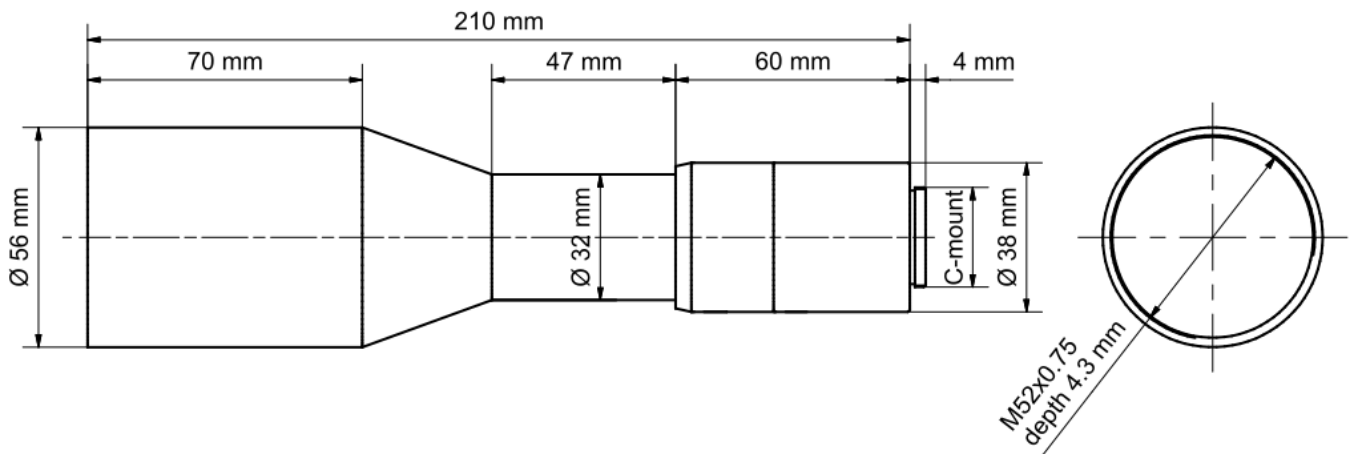
## Accessories for Telecentric Lenses - T152/0.36

| Order number             | Title | Description |
|--------------------------|-------|-------------|
| <b><i>Lens mount</i></b> |       |             |

| Order number                    | Title                        | Description                                                                          |
|---------------------------------|------------------------------|--------------------------------------------------------------------------------------|
| 2-90-125                        | Lens Holder d32-30           | Holder for telecentric lenses and lightings with d = 32 mm, with 30 mm extn.         |
| <b>Extension tubes</b>          |                              |                                                                                      |
| 2-90-415                        | Extension ring 0.5 mm        | 26 x 31 x 0.5 reduces the minimum object distance (MOD)                              |
| 2-90-416                        | Extension ring 1.0 mm        | 26 x 31 x 1.0 reduces the minimum object distance (MOD)                              |
| <b>Thread adapter c-mount</b>   |                              |                                                                                      |
| 5-00-011                        | Thread adapter C-Mount-M42   | Adapter for mounting of lenses with C-mount on cameras with M42x1 mount              |
| 2-90-414                        | CS to C-mount adapter 5.0 mm | for connecting C-mount lenses with CS-mount cameras, length: 5 mm                    |
| <b>Neutral density filter</b>   |                              |                                                                                      |
| 2-91-174                        | ND filter 3.0 M52x0.75       | optical density 3.0 - 0.1% transmission, f-stop reduction 10, filter thread M52x0.75 |
| 2-91-164                        | ND filter 1.2 M52x0.75       | optical density 1.2 - 6.3% transmission, f-stop reduction 4, filter thread M52x0.75  |
| 2-91-154                        | ND filter 0.6 M52x0.75       | optical density 0.6 - 25% transmission, f-stop reduction 2, filter thread M52x0.75   |
| <b>Daylight blocking filter</b> |                              |                                                                                      |
| 2-91-131                        | IR filter M20.5x0.5          | long-pass filter from 830 nm, daylight absorbing filter, filter thread M20.5x0.5     |
| 2-91-134                        | IR filter M52x0.75           | long-pass filter from 830 nm, daylight absorbing filter, filter thread M52x0.75      |
| <b>Polarising filters</b>       |                              |                                                                                      |
| 2-91-144                        | Pole filter M52x0.75         | linear polarizing filter, range 420 nm - 780 nm, filter thread M52x0.75              |
| <b>Colour filter blue</b>       |                              |                                                                                      |
| 2-91-290                        | Colour filter blue M52x0.75  | band-pass filter, range 350 nm - 600 nm, filter thread M52x0.75                      |
| <b>UV Cut-Off Filter</b>        |                              |                                                                                      |
| 2-91-124                        | UV blocking filter M52x0.75  | long-pass filter from 350 nm, usable as protective glass, filter thread M52x0.75     |

| Order number                                   | Title                         | Description                                                                        |
|------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------|
| <b>Colour filter red</b>                       |                               |                                                                                    |
| 2-91-259                                       | Colour filter red M20.5x0.5   | long-pass filter from 630 nm, red, filter thread M20.5x0.5                         |
| 2-91-262                                       | Colour filter red M52x0.75    | long-pass filter from 630 nm, red, filter thread M52x0.75                          |
| <b>Colour filter green</b>                     |                               |                                                                                    |
| 2-91-303                                       | Colour filter green M52x0.75  | band-pass filter, range 430 nm - 620 nm, filter thread M52x0.75                    |
| <b>Colour filter yellow</b>                    |                               |                                                                                    |
| 2-91-277                                       | Colour filter yellow M52x0.75 | long-pass filter from 530 nm, yellow, filter thread M52x0.75                       |
| <b>Deflection mirror 90° series</b>            |                               |                                                                                    |
| 2-25-115                                       | Deflection mirror 90-56       | 90° deflection, attachment for telecentric lenses and lightings with d = 56 mm     |
| <b>Adapters for attaching lights to lenses</b> |                               |                                                                                    |
| 1-29-676                                       | Adapter ring d41 - M52x0.75   | for R-CLR-69x41 and RK2036, for attachment to lenses with filter thread M52x0.75   |
| 1-29-772                                       | Adapter ring d73 - M52x0.75   | for R-CLR-100x73 und RK3652, for attachment to lenses with filter thread M52x0.75  |
| 1-29-870                                       | Adapter ring d104 - M52x0.75  | for R-CLR-132x104 and RK5268, for attachment to lenses with filter thread M52x0.75 |
| <b>Beam splitter STE60x60</b>                  |                               |                                                                                    |
| 1-20-022                                       | Adapter STE60x60 - TZO56      | Attachment of the STE60x60 to telecentric lenses and lightings with d = 56mm       |

## Drawings



Dimensional drawing in mm