

## High resolution, entocentric lenses

vicotar®

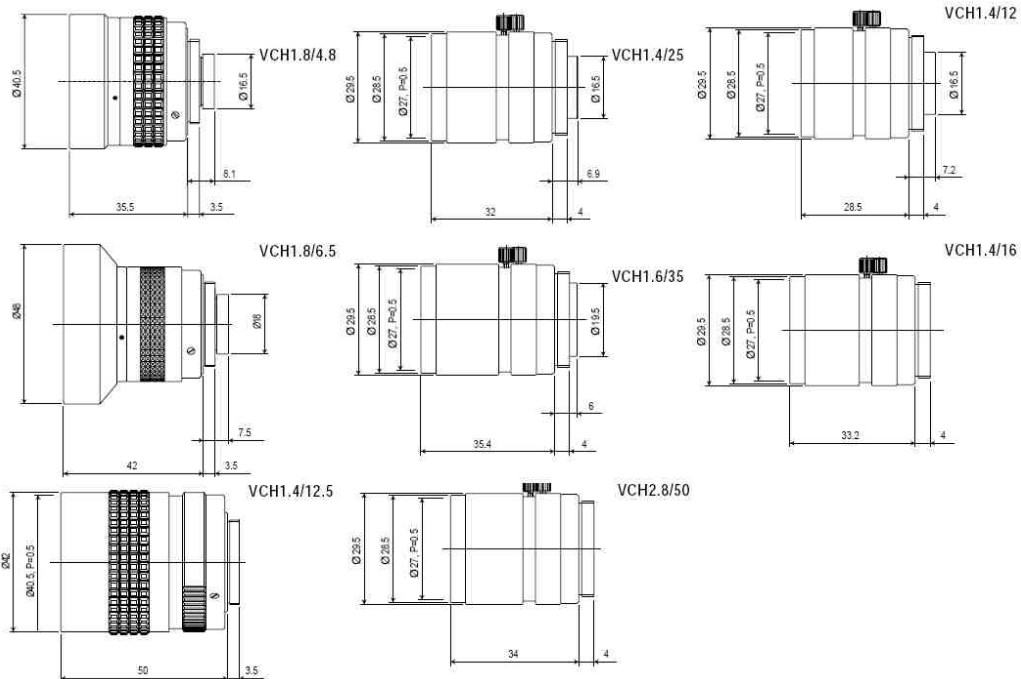
VCH series

### Product features

- High resolution lenses with fixed focal length
- A wide range of lenses ( $f = 4,8$  up to 50 mm)
- Application for matrix and line cameras up to sensor diagonal/length 16 mm
- For especially high requirements
- Small, light and fast
- Manual, lockable focus and aperture adjustment
- Robust mechanical design
- C-mount (thread connection)



### Engineering drawing



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### Properties

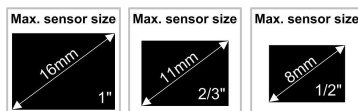
#### Optical properties

Spectral range 380...900nm / colour-corrected

#### Mechanical properties

Environmental temperature -20°C ... 50°C

### Options



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### Optical data

Name	Order no.	Focal length [mm]	F-number	Object angle for 1" sensor (hor. x vert.) [°]	Object angle for ¾" sensor (hor. x vert.) [°]	Object angle for ½" sensor (hor. x vert.) [°]	Object angle for ¼" sensor (hor. x vert.) [°]
VCH 1,8/4,8	2-10-212	4,8	1,8 ... C	--	85 × 69	67 × 53	53 × 42
VCH 1,8/6,5	2-10-213	6,5	1,8 ... C	89 × 73	68 × 54	52 × 41	41 × 32
VCH 1,4/12	2-10-214	12	1,4 ... C	--	--	30 × 23	23 × 17
VCH 1,4/12,5	2-10-215	12,5	1,4 ... C	54 × 42	39 × 30	29 × 22	22 × 17
VCH 1,4/16	2-10-216	16	1,4 ... C	--	31 × 23	23 × 17	17 × 13
VCH 1,4/25	2-10-217	25	1,4 ... C	--	20 × 15	15 × 11	11 × 8,5
VCH 1,6/35	2-10-218	35	1,6 ... C	--	14 × 11	10 × 7,9	8,0 × 6,1
VCH 2,8/50	2-10-219	50	2,8 ... C	--	10 × 7,5	7,3 × 5,5	5,7 × 4,2

### Mechanical data

Name	Order no.	Min. working distance	Max. diameter of lens	Length from bearing surface	Filter thread connection	Weight	Special features
VCH 1,8/4,8	2-10-212	0,3 m	40,5 mm	35,5 mm	--	105 g	large sensor
VCH 1,8/6,5	2-10-213	0,2 m	48 mm	42 mm	--	120	large sensor
VCH 1,4/12	2-10-214	0,25 m	29,5 mm	28,5 mm	M27 × 0,5	55 g	low distortion
VCH 1,4/12,5	2-10-215	0,3 m	42 mm	50 mm	M40,5 × 0,5	135 g	high resolution
VCH 1,4/16	2-10-216	0,25 m	29,5 mm	33,2 mm	M27 × 0,5	63 g	high resolution
VCH 1,4/25	2-10-217	0,25 m	29,5 mm	32 mm	M27 × 0,5	55 g	high resolution
VCH 1,6/35	2-10-218	0,4 m	29,5 mm	35,4 mm	M27 × 0,5	64 g	high resolution, fast lenses
VCH 2,8/50	2-10-219	0,9 m	29,5 mm	34 mm	M27 × 0,5	55 g	high resolution, distortionfree

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### Important advice

#### Protection glass

High-quality front lens of the objective can be protected against impurities and damages by means of protection glass. You shall be screw-on first lens.

#### Care instruction

Clean easily dirty lens with an optics brush or cleaned air. Adherent contamination can be removed by using an optical cleaning tissue. Please use only alcohol as a solvent, do not use acetone or other chemicals.

### Accessories

Order no.	Name	Description
2-91-206	UV M27 x 0,5	protection glass for entocentric lens-systems
2-91-216	IR M27 x 0,5	daylight-cutting-filter for entocentric lens-systems
2-91-226	Pol M27 x 0,5	polarizing filter, linear, for entocentric lens-systems
2-91-236	NF4 M27 x 0,5	neutral density, 4 x for entocentric lens-systems
2-91-246	NF16 M27 x 0,5	neutral density, 16 x for entocentric lens-systems
2-91-256	NF1000 M27 x 0,5	neutral density, 1000 x for entocentric lens-systems
2-91-265	RF M27 x 0,5	red filter for entocentric lens-systems
1-10-006	RK1220 adapter ring M27x0.5	to attache the RK1220 to entocentric lenses with filter thread M27x0.5

### Intended use for accessories

#### Note:

This area is reserved for future examples that will demonstrate the cooperation of optic components and accessories.

We're going to show you the variety of combinations of the Vision & Control component system!

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