

# High resolution, entocentric lenses

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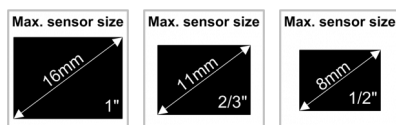
VCH series

## Product features

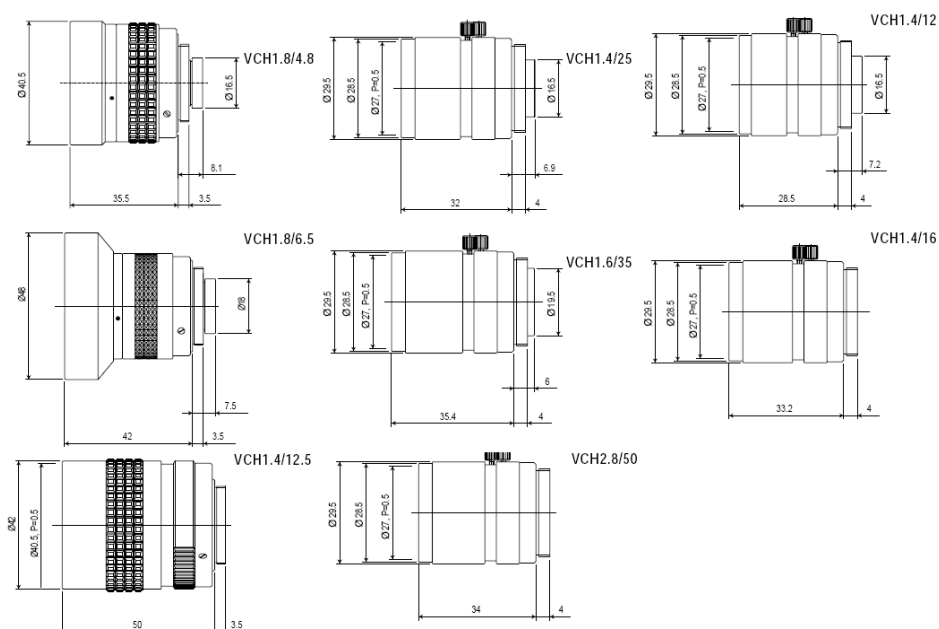
- High resolution lenses with fixed focal length
- A wide range of lenses ( f = 4,8 up to 50 mm)
- Application for matrix and line cameras up to sensor diagonal/length 16 mm
- Small, light and fast
- C-mount (thread connection)




## Options



## Engineering drawing



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### Properties

Optical properties

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

Mechanical properties

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

### 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 1,4/12	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 1,4/12	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

### 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.

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### 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 attach the RK1220 to entocentric lenses with filter thread M27x0.5