

Entocentric lenses

vicotar®

VCN series

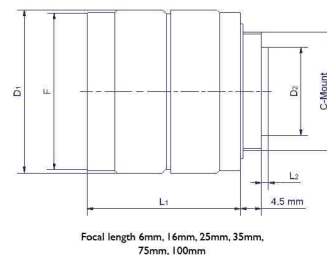
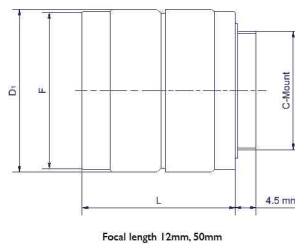
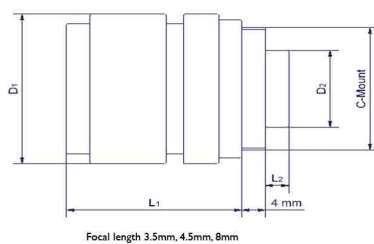
Product features

- Standard lenses with fixed focal length
- A wide range of lenses ($f = 3.5$ to 100 mm)
- Application for matrix and line cameras up to sensor diagonal/length 11 mm
- Manual, lockable focus and aperture adjustment
- Robust mechanical design
- C-mount (thread connection)



Engineering drawing

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Manual
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Properties

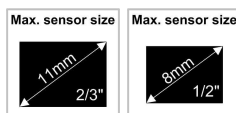
Optical properties

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

Mechanical properties

environmental temperature -10°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 2/3" sensor (hor. x vert.) [°]	Object angle for 1/2" sensor (hor. x vert.) [°]	Object angle for 1/3" sensor (hor. x vert.) [°]
VCN 1,4/3,5	2-10-220	3,5	1,4 ... 16C	--	--	104 × 77	77 × 58
VCN 1,4/4,5	2-10-221	4,5	1,4 ... 16C	--	--	79 × 60	60 × 45
VCN 1,4/6	2-10-222	6	1,4 ... 16C	--	--	57 × 44	44 × 33
VCN 1,4/8	2-10-223	8	1,4 ... 16C	--	60 × 45	45 × 34	34 × 26
VCN 1,4/12	2-10-224	12	1,4 ... 16C	--	--	31 × 23	23 × 17
VCN 1,4/16	2-10-225	16	1,4 ... 16C	--	31 × 23	23 × 17	17 × 13
VCN 1,4/25	2-10-226	25	1,4 ... 16C	--	20 × 15	15 × 11	11 × 8,2
VCN 1,9/35	2-10-231	35	1,9 ... 16C	--	14 × 11	11 × 8	8 × 6
VCN 1,8/50	2-10-228	50	1,8 ... 16C	--	10 × 7,5	7,5 × 5,6	5,6 × 4,2
VCN 2,7/75	2-10-229	75	2,7 ... 16C	--	6,7 × 5,0	5,0 × 3,7	3,7 × 2,8
VCN 3,5/100	2-10-230	100	3,5 ... 16C	--	5,0 × 3,8	3,8 × 2,8	2,8 × 2,1

Mechanical data

Name	Order no.	Min. working distance	Max. diameter of lens D1	Diameter D2	Length from bearing surface L1	Length L2	Filter thread connection F	Weight
VCN 1,4/3,5	2-10-220	0,2 m	30 mm	16 mm	31 mm	4,5 mm	--	80 g
VCN 1,4/4,5	2-10-221	0,2 m	31 mm	16 mm	30 mm	4,1 mm	--	71 g
VCN 1,4/6	2-10-222	0,2 m	30 mm	19,5 mm	30 mm	2,6 mm	M27 × 0,5	80 g
VCN 1,4/8	2-10-223	0,2 m	30 mm	17 mm	30 mm	3,25 mm	M27 × 0,5	55 g
VCN 1,4/12	2-10-224	0,3 m	30 mm	--	34,5 mm	--	M27 × 0,5	75 g
VCN 1,4/16	2-10-225	0,4 m	30 mm	16 mm	24,5 mm	1,4 mm	M27 × 0,5	40 g
VCN 1,4/25	2-10-226	0,5 m	30 mm	16 mm	24,4 mm	1,6 mm	M27 × 0,5	50 g
VCN 1,9/35	2-10-231	0,5 m	30 mm	16 mm	28 mm	2 mm	M27 × 0,5	50 g
VCN 1,8/50	2-10-228	1 m	32 mm	--	37,3 mm	--	M30,5 × 0,5	55 g
VCN 2,7/75	2-10-229	1 m	32 mm	20,5 mm	42,5	2,4 mm	M30,5 × 0,5	66 g
VCN 3,5/100	2-10-230	1 m	32 mm	20,5 mm	44,2 mm	2,4 mm	M30,5 × 0,5	59 g

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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
2-91-207	UV M30 x 0,5	protection glass for entocentric lens-systems
2-91-217	IR M30,5 x 0,5	daylight-cutting-filter 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
2-91-233	NF4 M30 x 0,5	neutral density, 4 x for entocentric lens-systems
2-91-265	RF M27 x 0,5	red filter for entocentric lens-systems
2-91-267	RF M30,5 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

You can find a multiplicity of filters in the chapter accessories. Please order the filters separately.

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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