

Entocentric Objectives up to 2/3" Field of View • VCN Series

Uses

The VCN series comprises objectives with metal cases for usage under normal environmental conditions. VCN objectives are not suitable for measurement tasks as they cause perspective divergence. Distortion depends on the individual objective type.

Characteristics

- colour-corrected
- robust construction
- manual aperture settings
- can be locked in place
- filters and extension tubes are also available
- C-mount connection



Technical Data

Type	VCN1.4/3.5	VCN1.4/4.5	VCN1.4/6	VCN1.4/8	VCN1.4/12	VCN1.4/16	
focal length	3.5	4.5	6	8	12	16	mm
relative aperture	1.4 to 16C	1.4 to 16C	1.4 to 16C	1.4 to 16C	1.4 to 16C	1.4 to 16C	
length from bearing surface	31	30	34	35	20	25	mm
max. diameter of objective	29	29	29	29	29	30	mm
filter thread connection	without	without	M27 × 0.5	M27 × 0.5	M27 × 0.5	M27 × 0.5	
minimum working distance	0.2	0.2	0.2	0.2	0.3	0.4	m
object angle for 1" sensor (hor. × vert.)	—	—	—	—	—	—	°
object angle for 2/3" sensor (hor. × vert.)	—	—	—	60 × 45	—	31 × 23	°
object angle for 1/2" sensor (hor. × vert.)	104 × 77	79 × 60	57 × 44	45 × 34	31 × 23	23 × 17	°
object angle for 1/3" sensor (hor. × vert.)	77 × 58	60 × 45	44 × 33	34 × 26	23 × 17	17 × 13	°
weight	80	75	80	52	75	40	g
Order Number	2-10-220	2-10-221	2-10-222	2-10-223	2-10-224	2-10-225	

Type	VCN1.4/25	VCN1.9/35	VCN1.8/50	VCN2.7/75	VCN3.5/100	
focal length	25	35	50	75	100	mm
relative aperture	1.4 to 16C	1.9 to 16C	1.8 to 16C	2.7 to 16C	3.5 to 16C	
length from bearing surface	25	28	37	43	43	mm
max. diameter of objective	30	30	35	32	32	mm
filter thread connection	M27 × 0.5	M27 × 0.5	M30.5 × 0.5	M30.5 × 0.5	M30.5 × 0.5	
minimum working distance	0.5	0.5	1	1	1	m
object angle for 1" sensor (hor. × vert.)	—	—	—	—	—	°
object angle for 2/3" sensor (hor. × vert.)	20 × 15	14 × 11	10 × 7.5	6.7 × 5	5.0 × 3.8	°
object angle for 1/2" sensor (hor. × vert.)	15 × 11	11 × 8	7.5 × 5.6	5 × 3.7	3.8 × 2.8	°
object angle for 1/3" sensor (hor. × vert.)	11 × 8.2	8 × 6	5.6 × 4.2	3.7 × 2.8	2.8 × 2.1	°
weight	40	40	55	66	59	g
Order Number	2-10-226	2-10-231	2-10-228	2-10-229	2-10-230	

- Please order the filters and the extension tubes separately (chart: O-50, O-55).
- For a depth of focus diagram see chart O-40. For an introduction to depth of focus calculations see the charts O-58/O-59.

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Continuation

