
Entocentric Lens - VCN 1.4/16

Short description: entocentric lens, sensor max. 2/3", F1.4, focal length 16 mm, MOD 400 mm

Order number: 2-10-225



Characteristics

- manually adjustable standard lens with fixed focal length for C and CS mount cameras
 - for matrix and line cameras with 2/3" sensors
 - resolution of 100 lp/mm in the centre of the image
 - compact design, robust and durable
 - fixable focus and iris adjustment
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Technical data

Focal length	16 mm
F-number	1.4 - 16C
MOD	0.4 m
Sensor size (max)	2/3"
Angle of view with:	
• 2/3" sensor	30.7° x 23.3° x 37.9°
• 1/1.8" sensor	25.3° x 19.1° x 31.1°
• 1/2" sensor	22.6° x 17° x 28°
• 1/3" sensor	17° x 12.8° x 21.9°
• 1/4" sensor	12.1° x 7.8° x 14.4°
Lens length	24.5 mm
Lens diameter (max)	30.0 mm
Lens mount	C-Mount
Filter thread object-side	M27 x 0.5
Weight	40 g
Ambient temperature	-10 °C bis 50°C

Accessories for Entocentric Lenses - VCN 1.4/16

Order number	Title	Description
Extension tubes		
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)
2-90-410	Extension tube set C-mount	consist of extension rings with each 0.5 mm, 1 mm, 5 mm, 10 mm, 20 mm and 40 mm
Lens adapter c-mount		
2-90-414	CS to C-mount adapter 5.0 mm	for connecting C-mount lenses with CS-mount cameras, length: 5 mm
Neutral density filter		
2-91-256	ND filter 3.0 M27x0.5	optical density 3.0 - 0.1% transmission, f-stop reduction 10, filter thread M27x0.5
2-91-246	ND filter 1.2 M27x0.5	optical density 1.2 - 6.3% transmission, f-stop reduction 4, filter thread M27x0.5
2-91-236	ND filter 0.6 M27x0.5	optical density 0.6 - 25% transmission, f-stop reduction 2, filter thread M27x0.5
Daylight blocking filter		
2-91-216	IR filter M27x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M27x0.5
Polarising filters		
2-91-226	Pole filter M27x0.5	linear polarizing filter, range 420 nm - 780 nm, filter thread M27x0.5
Colour filter blue		
2-91-283	Colour filter blue M27x0.5	band-pass filter, range 350 nm - 600 nm, filter thread M27x0.5
UV Cut-Off Filter		
2-91-206	UV blocking filter M27x0.5	long-pass filter from 350 nm, usable as protective glass, filter thread M27x0.5
Colour filter red		
2-91-265	Colour filter red M27x0.5	long-pass filter from 630 nm, red, filter thread M27x0.5

Order number	Title	Description
<i>Colour filter green</i>		
2-91-296	Colour filter green M27x0.5	band-pass filter, range 430 nm - 620 nm, filter thread M27x0.5
<i>Colour filter yellow</i>		
2-91-270	Colour filter yellow M27x0.5	long-pass filter from 530 nm, yellow, filter thread M27x0.5
<i>Adapters for attaching lights to lenses</i>		
1-29-151	Adapter ring d14 - M27x0.5	for RK613, for attachment to lenses with filter thread M27x0.5
1-33-027	Adapter ring d20.4 - M27x0.5	for R-CLR-38x20, for attachment to lenses with filter thread M27x0.5
1-10-006	Adapter ring d27 - M27x0.5	for RK1220, for attachment to lenses with filter thread M27x0.5
1-29-670	Adapter ring d41 - M27x0.5	for R-CLR-69x41 and RK2036, for attachment to lenses with filter thread M27x0.5

Technical drawing of the camera assembly showing dimensions and components. The drawing includes the following dimensions and labels:

- Overall width: $\phi 30$
- Mounting flange diameter: $\phi 29$
- Mounting thread: M27, P=0.5
- TV LENS 16mm 1:1.4
- Distance between lens and sensor: 1 2 ∞ m
- CCD sensor size: C16 8 4 2 1.4
- Distance from mounting flange to sensor: 24.5
- Distance from mounting flange to lens: 17.52
- Distance from mounting flange to sensor (C MOUNT): $\phi 16$, U=1", P=1"/32
- Distance from mounting flange to sensor (C MOUNT): $\phi 29.4$
- Distance from mounting flange to sensor (C MOUNT): 4
- Distance from mounting flange to sensor (C MOUNT): 1.4

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