

Basler Lenses Give Vision Applications the Required Sharpness

Lenses depict the captured light on a camera's sensor. Combined with a camera and lighting, they are instrumental in determining the image quality. In the worst case, choosing the wrong lens can result in an irretrievable loss in image quality.

When choosing the right lens, the balance between the required imaging performance, i.e. high resolution with optical image quality, and price is of real interest. A very good imaging performance saves processing time in the further image analysis software and in many cases makes the analysis of even finest structures possible in the first place. If a basic imaging performance and average optical errors are acceptable or if these errors can actually be corrected through image processing, cost-efficient lenses are a better choice.

Whether there are high standards in terms of image quality or a focus on lower costs due to competitive pressure, Basler offers two product lines for both scenarios. The Standard product line stands for the best price/performance ratio and offers good basic performance. The Premium product line offers optimal imaging quality with much higher optical resolution but without neglecting the cost factor.

Both product lines support popular image circles of sensors available in Basler cameras, from 1/2.5" to Super 35 format, as well as all common focal lengths. The lenses are equipped with F-mount and C-mount and can also be conveniently used with CS-mount cameras with the help of an adapter.

For more information, please visit baslerweb.com/basler-lenses



Highlights of the Basler Standard Lenses

- Excellent price/performance ratio
- Solid basic performance
- Suitable for simple vision applications and price-sensitive systems
- Ideal for fast cameras with a low resolution

Highlights of the Basler Premium Lenses

- Designed and tested for the most demanding applications
- Best quality: very high resolution, low distortion, low vignetting
- Optimal for cameras with very high resolutions for the analysis of the smallest structures
- Still cost-optimized



Need Help Selecting the Right Lens for Your Application?

Find the right lens for your Basler camera! Several suitable lenses for your application are suggested to you based on data such as focal length, angle of view, working distance or object size. Test our convenient Lens Selector: baslerweb.com/lens-selector



BASLER LENS	MAXIMUM IMAGE CIRCLE	RESOLUTION [MP]	PIXEL PITCH [μ m]	FOCAL LENGTH [mm]	MOUNT	MAXIMUM RELATIVE APERTURE
Basler Premium Lenses						
Basler Lens C125-0418-5M-P	1/2.5" (7.3 mm)	5	2.2	4	C-mount	1:1.8
Basler Lens C125-0618-5M-P	1/2.5" (7.3 mm)	5	2.2	6	C-mount	1:1.8
Basler Lens C125-0818-5M-P	1/2.5" (7.3 mm)	5	2.2	8	C-mount	1:1.8
Basler Lens C125-1218-5M-P	1/2.5" (7.3 mm)	5	2.2	12	C-mount	1:1.8
Basler Lens C125-1620-5M-P	1/2.5" (7.3 mm)	5	2.2	16	C-mount	1:2.0
Basler Lens C125-2522-5M-P	1/2.5" (7.3 mm)	5	2.2	25	C-mount	1:2.2
Basler Lens C23-0824-5M-P	2/3" (11 mm)	5	3.4	8	C-mount	1:2.4
Basler Lens C23-1224-5M-P	2/3" (11 mm)	5	3.4	12	C-mount	1:2.4
Basler Lens C23-1620-5M-P	2/3" (11 mm)	5	3.4	16	C-mount	1:2.0
Basler Lens C23-2518-5M-P	2/3" (11 mm)	5	3.4	25	C-mount	1:1.8
Basler Lens C23-3520-5M-P	2/3" (11 mm)	5	3.4	35	C-mount	1:2.0
Basler Lens C23-5028-5M-P	2/3" (11 mm)	5	3.4	50	C-mount	1:2.8
Basler Lens C11-0824-12M-P	1.1" (17.5 mm)	12	3.5	8.5	C-mount	1:2.4
Basler Lens C11-1220-12M-P	1.1" (17.5 mm)	12	3.5	12	C-mount	1:2.0
Basler Lens C11-1620-12M-P	1.1" (17.5 mm)	12	3.5	16	C-mount	1:2.0
Basler Lens C11-2520-12M-P	1.1" (17.5 mm)	12	3.5	25	C-mount	1:2.0
Basler Lens C11-3520-12M-P	1.1" (17.5 mm)	12	3.5	35	C-mount	1:2.0
Basler Lens C11-5020-12M-P	1.1" (17.5 mm)	12	3.5	50	C-mount	1:2.0
Basler Standard Lenses						
Basler Lens C23-0816-2M-S	2/3" (11 mm)	2	5.5	8.6	C-mount	1:1.6
Basler Lens C23-1216-2M-S	2/3" (11 mm)	2	5.5	12	C-mount	1:1.6
Basler Lens C23-1616-2M-S	2/3" (11 mm)	2	5.5	16	C-mount	1:1.6
Basler Lens C23-2518-2M-S	2/3" (11 mm)	2	5.5	25	C-mount	1:1.8
Basler Lens C23-3520-2M-S	2/3" (11 mm)	2	5.5	35	C-mount	1:2.0
Basler Lens C23-5026-2M-S	2/3" (11 mm)	2	5.5	50	C-mount	1:2.6
Basler Lens C10-0814-2M-S	1" (16 mm)	2	7.5	8	C-mount	1:1.4
Basler Lens C10-1214-2M-S	1" (16 mm)	2	7.5	12.5	C-mount	1:1.4
Basler Lens C10-1614-3M-S	1" (16 mm)	3	7.5	16	C-mount	1:1.4
Basler Lens C10-2514-3M-S	1" (16 mm)	3	7.5	25	C-mount	1:1.4
Basler Lens C10-3514-8M-S	1" (16 mm)	8	7.5	35	C-mount	1:1.4
Basler Lens C10-5014-2M-S	1" (16 mm)	2	7.5	50	C-mount	1:1.4
Basler Lens F-S35-2528-45M-S-SD	Super 35 (32 mm)	45	3.2	25	F-mount	1:2.8
Basler Lens F-S35-3528-45M-S-SD	Super 35 (32 mm)	45	3.2	35	F-mount	1:2.8
Basler Lens F-S35-5028-45M-S-SD	Super 35 (32 mm)	45	3.2	50	F-mount	1:2.8
Basler Lens F-S35-7528-45M-S-SD	Super 35 (32 mm)	45	3.2	75	F-mount	1:2.8

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