

An SMC Pentax Close-Up Lens is an extremely useful and convenient accessory. Simply screw it onto the front of any SMC Pentax lens of standard focal length — or telephoto up to 200mm — and that lens instantly becomes a close-up lens!

Features

- An SMC Pentax Close-Up Lens is conveniently small — only a few millimeters thick — so it is as handy as a filter.
- The master lens does not have to be removed from the camera before the SMC Pentax Close-Up Lens is attached to it.
- The automatic diaphragm and the open-aperture metering system continue to work perfectly.

- Unlike a close-up ring, there is no exposure factor with an SMC Pentax Close-Up Lens. So you can use higher shutter speeds.

Types and Sizes

There are two types of SMC Pentax Close-Up Lenses: S (Standard) for use with standard lenses and T (Telephoto) for use with telephoto lenses. The focal length of the close-up lens is indicated in centimeters. The shorter the focal length, the bigger the photographic magnification.

SMC Pentax Close-Up Lenses come in two sizes: 52mm diameter, and 58mm diameter for use with the T 95 and T 183 lenses. By using a 49 ~ 52mm adaptor, a 52mm close-up lens can be used with a 49mm SMC Takumar or Super Takumar lens.

Usage	Type	Useable Lenses
With Stand- ard Lens	S40	50mm f/1.4, 55mm f/1.8
	S25	50mm f/1.4, 55mm f/1.8
With Tele- photo Lens	T160	105mm f/2.8, 120mm f/2.8, 135mm f/3.5, 150mm f/4
	T80	85mm f/1.8, 105mm f/2.8, 120mm f/2.8, 135mm f/3.5, 150mm f/4
	T95	135mm f/2.5, 200mm f/4
	T183	135mm f/2.5, 200mm f/4

FOCUSING RANGE OF EACH LENS

Black dotted line (.....) indicates main lens only.

Distance Lens Name	0.5m	1m	1.5m	2m
50mm f/1.4	S 40 S 25 (29 ~ 49.5 cm) (24.5 ~ 34 cm)			
55mm f/1.8	S 40 S 25 (29 ~ 49 cm) (24.5 ~ 34 cm)			
85mm f/1.8		T 80 (50.5 ~ 91.6 cm)		
105mm f/2.8		T 80 T 160 (59 ~ 92 cm)		(78 ~ 173 cm)
120mm f/2.8		T 80 T 160 (60 ~ 93 cm)		(79 ~ 174 cm)
135mm f/2.5		T 95 T 183 (71 ~ 109 cm)		(93.5 ~ 197 cm)
135mm f/3.5		T 80 T 160 (66 ~ 94.5 cm)		(89.5 ~ 175 cm)
150mm f/4		T 80 T 160 (70.5 ~ 95.5 cm)		(98.5 ~ 176 cm)
200mm f/4		T 95 T 183 (84 ~ 114 cm)		(113 ~ 202 cm)



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MAGNIFICATION AND PHOTOGRAPHING AREA OF EACH LENS

Magnification means photographed size compared to actual size. For instance, when 10cm object is photographed in 2 cm size, its magnification is $2/10 = 1/5x$.

Lens Name	Type	Magnification	Photographing Area
50mm f/1.4	S40	1/7.8 ~ 1/3.7	18.6 x 28.0 ~ 8.7 x 13.0
	S25	1/4.9 ~ 1/2.8	12.0 x 18.0 ~ 6.7 x 10.0
55mm f/1.8	S40	1/7.0 ~ 1/3.1	16.7 x 25.0 ~ 7.4 x 11.0
	S25	1/4.4 ~ 1/2.4	10.7 x 16.0 ~ 5.8 x 8.7
85mm f/1.8	T80	1/9.4 ~ 1/4.2	22.7 x 34.0 ~ 10.0 x 15.0
105mm f/2.8	T160	1/15.2 ~ 1/5.5	36.5 x 54.7 ~ 13.3 x 20.0
	T80	1/7.7 ~ 1/4.0	18.5 x 27.7 ~ 9.6 x 14.4
120mm f/2.8	T160	1/13.3 ~ 1/4.7	32.0 x 48.0 ~ 16.0 x 24.0
	T80	1/6.7 ~ 1/3.4	16.0 x 24.0 ~ 8.0 x 12.0
135mm f/2.5	T95	1/7.1 ~ 1/3.7	17.0 x 25.5 ~ 9.0 x 13.5
	T183	1/13.6 ~ 1/5.1	32.7 x 49.0 ~ 12.0 x 18.0
135mm f/3.5	T160	1/11.9 ~ 1/4.9	28.6 x 42.8 ~ 11.7 x 17.6
	T80	1/6.0 ~ 1/3.3	14.4 x 21.6 ~ 8.0 x 12.0
150mm f/4	T160	1/10.7 ~ 1/4.7	25.7 x 38.5 ~ 11.3 x 16.9
	T80	1/5.4 ~ 1/3.1	13.0 x 19.5 ~ 7.3 x 11.0
200mm f/4	T95	1/4.8 ~ 1/2.6	11.5 x 17.2 ~ 6.2 x 9.3
	T183	1/9.1 ~ 1/3.8	21.8 x 32.7 ~ 9.1 x 13.6

Optical Performance

SMC Pentax Close-Up Lenses are designed and made by computer, for absolute optical accuracy and uniform performance. And, like SMC Pentax lenses, each one is Super-Multi-Coated to minimize light reflections on the surface.

Use with Filters

SMC Pentax Close-Up Lenses can be used together with Pentax filters (excepting the polarizing filter). A lens hood can also be attached to the filter when used with the close-up lens.