

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 Standard Lens	S40	50mm f/1.4, 55mm f/1.8
	S25	50mm f/1.4, 55mm f/1.8
With Telephoto 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.

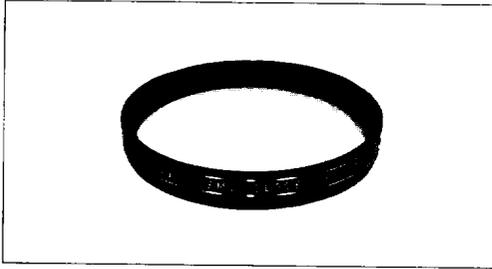
Distance	0.5m		1m		1.5m		2m	
Lens Name								
50mm f/1.4	S 40	(29~49.5cm)						
	S 25	(24.5~34cm)						
55mm f/1.8	S 40	(29~49cm)						
	S 25	(24.5~34cm)						
85mm f/1.8			T 80	(50.5~91.6cm)				
105mm f/2.8			T 80	(59~92cm)			T 160	(78~173cm)
120mm f/2.8			T 80	(60~93cm)			T 160	(79~174cm)
135mm f/2.5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



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Printed in Japan



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.