

ZOOM LENS

Code No. 21567
Barcode 0027075113695

- > Optimised for use with digital cameras
- > Equivalent to 75–300mm in 35mm film format
- > Special ED lenses for the correction of unwanted color fringing
- > "Quick Shift Focus System" for quickly switching between AF and MF
- > Compact and light – an ideal travel lens

Attention: this lens is designed exclusively for use on PENTAX digital cameras.

Standard Accessories

Front Cap	Art. No. 31515
Rear Cap	Art. No. 31006
Lens hood PH-RBB52	Art. No. 38744

Optional Accessories

Soft Bag S80 – 120	Art. No. 33924
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Application

The smc-DA series of lenses are particularly developed and designed for use with PENTAX digital cameras. They are designed to fulfil the high digital image technology standards of PENTAX digital SLR cameras and are intended exclusively for use with these cameras.

A 50–200mm focal length for a digital camera is equivalent to a 75–300mm focal length in 35mm film format and offers a wide range of uses. Whether for animal photography or for sports – or for anywhere where the photographer cannot get near enough to the subject. With its versatile zoom range, light-weight and compact dimensions this zoom is an ideal a travel lens.



The manufacturer reserves the right to changes in technology, design, equipment and scope of supply without advance notice.

As of June 2005



Angle of View

- 31.5° – 8.1°

Construction

- 11 elements / 10 groups

Minimum Aperture

- 22 ~ 32

Focusing Range

- 1.1m–∞

Magnification

- approx. 1:4.2 (0.24x)

Filter Size

- E52

Weight

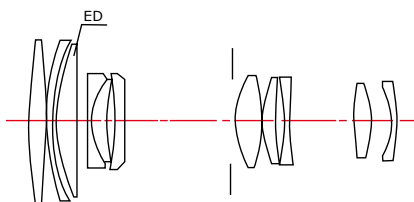
- 255g

smc-DA

50–200mm/4~5,6 ED



66.5mm



Viewing angle

■ Angle-of-view for digital cameras



20mm



24mm



35mm



50mm



70mm



100mm



135mm



150mm



200mm



300mm



400mm



500mm

PENTAX

smc-DA

50-200mm/4~5,6 ED

Depth of Field Table

f=50mm

F meters \	4	5.6	8	11	16	22
1.10	1.07 1.13	1.06 1.14	1.04 1.16	1.03 1.19	0.99 1.23	0.96 1.29
1.20	0.16	1.15	1.13	1.11	1.07	1.03
	1.24	1.25	1.28	1.31	1.37	1.45
1.50	1.44	1.42	1.39	1.35	1.29	1.22
	1.57	1.59	1.64	1.70	1.80	1.96
2.00	1.89	1.84	1.79	1.72	1.61	1.51
	2.13	2.19	2.28	2.40	2.65	3.02
3.00	2.73	2.64	2.51	2.37	2.16	1.96
	3.33	3.48	3.74	4.12	4.97	6.63
5.00	4.26	4.03	3.72	3.39	2.97	2.58
	6.05	6.61	7.68	9.62	16.73	155.93
10.00	7.35	6.65	5.82	5.03	4.11	3.38
	15.69	20.34	36.69	∞	∞	∞
∞	26.62	19.04	13.35	9.73	6.71	4.90
	∞	∞	∞	∞	∞	∞

f=80mm

F meters \	4	5.6	8	11	16	22	25
1.10	1.09 1.11	1.08 1.12	1.08 1.13	1.07 1.14	1.05 1.15	1.04 1.17	1.03 1.18
1.20	1.18	1.18	1.17	1.16	1.14	1.12	1.11
	1.22	1.22	1.23	1.24	1.26	1.29	1.30
1.50	1.47	1.47	1.45	1.43	1.40	1.37	1.36
	1.53	1.54	1.55	1.58	1.61	1.66	1.68
2.00	1.94	1.93	1.91	1.87	1.82	1.76	1.73
	2.06	2.07	2.11	2.15	2.22	2.32	2.38
3.00	2.87	2.84	2.78	2.70	2.58	2.46	2.40
	3.15	3.18	3.27	3.38	3.59	3.87	4.03
5.00	4.62	4.54	4.37	4.18	3.89	3.59	3.46
	5.45	65.56	5.84	6.24	7.03	8.31	9.14
10.00	8.53	8.27	7.70	7.09	6.26	5.50	5.18
	12.09	12.66	14.30	17.06	25.18	59.04	181.23
∞	55.74	45.80	32.09	23.36	16.09	11.72	10.33
	∞	∞	∞	∞	∞	∞	∞

f=100mm

F meters \	4	5.6	8	11	16	22	27
1.10	1.09 1.11	1.09 1.11	1.09 1.12	1.08 1.12	1.07 1.13	1.06 1.15	1.05 1.16
1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14
	1.21	1.21	1.22	1.23	1.24	1.26	1.27
1.50	1.48	1.48	1.47	1.46	1.44	1.41	1.40
	1.52	1.52	1.53	1.55	1.57	1.60	1.62
2.00	1.96	1.96	1.94	1.92	1.88	1.84	1.81
	2.04	2.05	2.07	2.09	2.14	2.20	2.24
3.00	2.91	2.89	2.85	2.80	2.72	2.63	2.55
	3.10	3.11	3.17	3.23	3.35	3.51	3.65
5.00	4.74	4.70	4.58	4.44	4.23	3.99	3.82
	5.29	5.35	5.51	5.73	6.13	6.71	7.28
10.00	8.97	8.82	8.39	7.92	7.23	6.56	6.08
	11.30	11.56	12.38	13.60	16.28	21.33	28.78
∞	83.43	71.53	50.10	36.46	25.10	19.28	14.92
	∞	∞	∞	∞	∞	∞	∞

f=135mm

F meters \	5.2	5.6	8	11	16	22	29
1.10	1.09 1.11	1.09 1.11	1.09 1.11	1.09 1.11	1.08 1.12	1.08 1.13	1.07 1.13
1.20	1.19	1.19	1.19	1.19	1.18	1.17	1.16
	1.21	1.21	1.21	1.22	1.22	1.23	1.24
1.50	1.49	1.49	1.48	1.48	1.46	1.45	1.44
	1.51	1.51	1.52	1.53	1.54	1.55	1.57
2.00	1.98	1.98	1.97	1.95	1.93	1.91	1.88
	2.02	2.03	2.04	2.05	2.07	2.10	2.14
3.00	2.96	2.94	2.92	2.89	2.84	2.78	2.72
	3.06	3.06	3.09	3.12	3.18	3.26	3.35
5.00	4.84	4.83	4.76	4.68	4.54	4.39	4.23
	5.17	5.18	5.27	5.38	5.57	5.82	6.14
10.00	9.36	9.31	9.05	8.74	8.26	7.76	7.24
	10.74	10.80	11.18	11.70	12.69	14.12	16.14
∞	140.35	130.33	91.28	66.43	45.71	33.29	25.29
	∞	∞	∞	∞	∞	∞	∞

f=200mm

F meters \	5.6	8	11	16	22	32
1.10	1.10 1.10	1.10 1.10	1.09 1.11	1.09 1.11	1.09 1.11	1.08 1.12
1.20	1.20	1.20	1.19	1.19	1.19	1.18
	1.20	1.21	1.21	1.21	1.22	1.22
1.50	1.49	1.49	1.49	1.48	1.48	1.46
	1.51	1.51	1.51	1.52	1.53	1.54
2.00	1.99	1.98	1.98	1.97	1.95	1.93
	2.01	2.02	2.02	2.04	2.05	2.07
3.00	2.97	2.96	2.94	2.92	2.89	2.84
	3.03	3.04	3.06	3.09	3.12	3.18
5.00	4.92	4.88	4.84	4.77	4.69	4.56
	5.09	5.13	5.18	5.26	5.36	5.55
10.00	9.66	9.52	9.35	9.08	8.78	8.32
	10.37	10.54	10.75	11.14	11.63	12.57
∞	271.90	190.42	138.57	95.36	69.43	47.83
	∞	∞	∞	∞	∞	∞