

PENTAX lens

smc-DA

Code No.	21697
Barcode	0027075134812

18 – 250mm f/3,5~6,3 ED AL [IF]



Manual-focus



Autofocus



Digital cameras



85.5mm

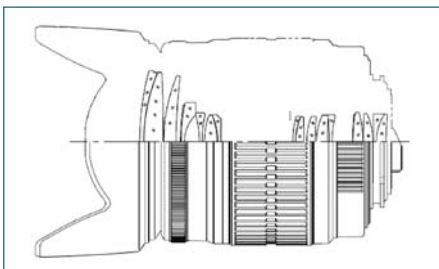
75.0mm

weight: 455g



- > Enormous zoom range of 18–250mm (28–383mm in 35mm film format)
- > Flexible range of applications from wide angle photography to telephoto
- > Minimum focusing distance of 45cm
- > Effective compensation against colour shifting through the use of high-quality lens elements
- > Metal bayonet lens mount

The smc-DA 18–250mm/f3.5~6.3 ED AL [IF] is a special development within the digital photo range. The phrase “universal lens” especially applies to this lens as it covers the entire focal range between 27.5–382.5mm (in 35mm film format), making it the optimal lens choice for nearly any photographic opportunity. The strength of this lens lies in its varied uses. If you don’t know what to expect when going on a photo shoot then this should be the lens of choice. High-quality aspherical lens (AL) elements assure brilliant images and extra-low-dispersion (ED) elements efficiently correct aberrations.



Standard Accessories

Front lens cap	Code no. 31608
Rear lens cap	Code no. 31006
Lens Hood PH-RBB62	Code no. 38756
Softbag S90-100	Code no. 37725

Packaging

Dimensions (LxWxH): 126x95x110mm
Weight: 600g

Lens	smc-DA 18–250mm f/3,5~6,3 ED AL [IF]
Lens mount	PENTAX K _{AF} -Bayonet
Angle of view	76°–6,5°
Construction	16 elements/13 groups
Aperture control	Automatic
Smallest aperture	22–45
Metering	TTL open aperture metering
Focusing range	0.45m – ∞
Magnification	approx. 1:3.6 (0.28x)
Filter size	62mm

DEPTH OF FIELD TABLE

f = 18mm

F	3.5	4.0	5.6	8.0	11.0	16.0	22.0
Meter							
0.45	0.24 0.49	0.42 0.49	0.40 0.52	0.39 0.55	0.37 0.61	0.34 0.73	0.32 0.99
1.0	0.83 1.28	0.81 1.34	0.75 1.56	0.68 2.08	0.61 3.69	0.53 ∞	0.45 ∞
2.0	1.37 3.85	1.31 4.50	1.16 9.33	0.99 ∞	0.84 ∞	0.67 ∞	0.55 ∞
3.0	1.76 11.60	1.65 21.08	1.41 ∞	1.16 ∞	0.95 ∞	0.74 ∞	0.60 ∞
7.0	2.58 ∞	2.36 ∞	1.88 ∞	1.45 ∞	1.13 ∞	0.84 ∞	0.65 ∞
30.0	3.55 ∞	3.13 ∞	2.33 ∞	1.69 ∞	1.27 ∞	0.91 ∞	0.96 ∞
∞	4.00 ∞	3.48 ∞	2.51 ∞	1.79 ∞	1.32 ∞	0.94 ∞	0.71 ∞

f = 35mm

F	4.0	5.6	8.0	11.0	16.0	22.0	27
Meter							
0.45	0.44 0.46	0.43 0.47	0.43 0.48	0.42 0.49	0.41 0.51	0.39 0.53	0.38 0.56
1.0	0.93 1.08	0.91 1.11	0.88 1.17	0.84 1.25	0.78 1.41	0.72 1.68	0.68 2.01
2.0	1.72 2.39	1.65 2.55	1.54 2.89	1.42 3.47	1.26 5.28	1.11 14.44	1.01 ∞
3.0	2.40 4.01	2.27 4.46	2.06 5.65	1.84 8.53	1.57 59.59	1.34 ∞	1.20 ∞
7.0	4.40 17.42	3.96 31.88	3.34 ∞	2.80 ∞	2.21 ∞	1.77 ∞	1.53 ∞
30.0	8.42 ∞	6.93 ∞	5.22 ∞	4.00 ∞	2.89 ∞	2.18 ∞	1.18 ∞
∞	11.66 ∞	8.97 ∞	6.30 ∞	4.60 ∞	3.19 ∞	2.34 ∞	1.92 ∞

f = 50mm

F	4.5	5.6	8.0	11.0	16.0	22.0	32.0
Meter							
0.45	0.44 0.46	0.44 0.46	0.44 0.46	0.43 0.47	0.42 0.48	0.42 0.49	0.40 0.51
1.0	0.96 1.05	0.95 1.06	0.93 1.08	0.91 1.12	0.87 1.18	0.83 1.26	0.77 1.44
2.0	1.83 2.21	1.81 2.24	1.73 2.37	1.65 2.54	1.53 2.91	1.41 3.51	1.25 5.40
3.0	2.63 3.49	2.58 3.59	2.43 3.92	2.27 4.44	2.05 5.68	1.84 8.61	1.57 64.91
7.0	5.26 10.50	5.06 11.42	4.52 15.70	3.99 29.56	3.35 ∞	2.80 ∞	2.21 ∞
30.0	12.36 ∞	11.29 ∞	8.92 ∞	7.07 ∞	5.26 ∞	4.03 ∞	2.91 ∞
∞	9.230 ∞	8.936 ∞	8.571 ∞	8.077 ∞	7.534 ∞	6.776 ∞	6.047 ∞

f = 100mm

F	5.6	8.0	11.0	16.0	22.0	32.0	38.0
Meter							
0.45	0.45 0.45	0.44 0.46	0.44 0.46	0.44 0.46	0.44 0.47	0.43 0.47	0.43 0.48
1.0	0.98 1.02	0.98 1.03	0.97 1.04	0.95 1.05	0.94 1.07	0.91 1.11	0.90 1.13
2.0	1.94 2.07	1.91 2.09	1.88 2.13	1.84 2.20	1.78 2.28	1.70 2.44	1.65 2.54
3.0	2.87 3.15	2.82 3.21	2.76 3.29	2.66 3.45	2.55 3.65	2.38 4.06	2.30 4.34
7.0	6.35 7.80	6.11 8.19	5.84 8.75	5.43 9.86	5.01 11.66	4.43 16.72	4.15 22.63
30.0	21.00 52.54	18.70 76.03	16.38 179.28	13.58 ∞	11.27 ∞	8.79 ∞	7.76 ∞
∞	70.58 ∞	50.03 ∞	36.39 ∞	25.03 ∞	18.21 ∞	12.53 ∞	10.56 ∞

f = 200mm

F	5.6	8.0	11.0	16.0	22.0	32.0	38.0
Meter							
0.45	0.45 0.45	0.45 0.45	0.45 0.46	0.44 0.46	0.44 0.46	0.44 0.46	0.43 0.47
1.0	0.99 1.01	0.99 1.01	0.99 1.02	0.98 1.02	0.97 1.03	0.96 1.05	0.94 1.07
2.0	1.97 2.03	1.97 2.03	1.96 2.05	1.94 2.07	1.91 2.10	1.87 2.14	1.83 2.21
3.0	2.95 3.05	2.94 3.07	2.91 3.10	2.87 3.14	2.83 3.20	2.76 3.29	2.67 3.43
7.0	6.71 7.25	6.71 7.31	6.61 7.44	6.45 7.66	6.26 7.94	5.98 8.45	5.64 9.24
30.0	26.66 24.30	25.88 35.69	24.61 38.42	22.76 44.05	20.87 53.44	18.34 82.95	15.84 294.99
∞	252.69 ∞	198.70 ∞	144.53 ∞	99.39 ∞	72.31 ∞	49.74 ∞	294.99 ∞

f = 250mm

F	5.6	8.0	11.0	16.0	22.0	32.0	38.0
Meter							
0.45	0.45 0.45	0.45 0.45	0.45 0.45	0.44 0.46	0.44 0.46	0.44 0.46	0.43 0.47
1.0	0.99 1.01	0.99 1.01	0.99 1.01	0.98 1.02	0.97 1.03	0.96 1.04	0.95 1.06
2.0	1.98 2.02	1.97 2.03	1.96 2.04	1.94 2.06	1.92 2.08	1.89 2.12	1.85 2.18
3.0	2.96 3.05	2.95 3.06	2.93 3.08	2.89 3.12	2.85 3.16	2.79 3.24	2.72 3.35
7.0	6.82 7.19	6.77 7.25	6.69 7.34	6.56 7.51	6.41 7.72	6.17 8.10	5.88 8.65
30.0	27.50 33.01	26.92 33.89	25.92 35.62	24.41 38.94	22.92 43.85	20.58 55.54	18.26 85.04
∞	369.00 ∞	292.93 ∞	213.09 ∞	146.55 ∞	106.63 ∞	73.37 ∞	52.22 ∞

Angle-of-view smc-DA 18-250mm 3.5~6.3 ED AL [IF]

■ Focal length range digital cameras



15mm



18mm



24mm



28mm



43mm



55mm



75mm



120mm



140mm



200mm



300mm



600mm