

ZOOM LENS

Art. No. 21547
Barcode 0027075108646

- > Optimised for use with digital cameras
- > Universal zoom lens for the most usual photograph situations
- > Aspherical lens elements for improved image quality
- > "Quick Shift Focus System" for quickly switching between AF and MF
- > Equivalent to 28 – 85mm in 35mm film format

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-RA52	Art. No. 38741
Case S80-120	Art. No. 33924

Application

The smc-DA series of lenses are specifically designed for and are intended to be used with the PENTAX digital SLR cameras. They are designed to optimally match the performance of the digital technology and design of PENTAX digital cameras.

This standard zoom is universally applicable and covers the wide angle as well as the short tele-photo/portrait range. With its 1:3 reproduction ratio capacity it can also offer valuable service in the macro range.



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

As of January 2005

smc-DA

18–55mm / 3.5–5.6 AL



Angle of View

- 76° to 29°

Construction

- 12 Elements / 9 Groups

Minimum Aperture

- 22 – 38

Focusing Range*

- 25cm to infinity

Magnification

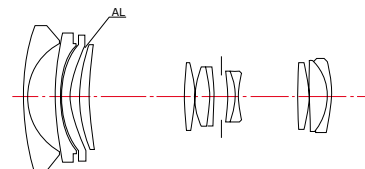
- approx. 1:3 (0.34x)

Filter Size

- E52

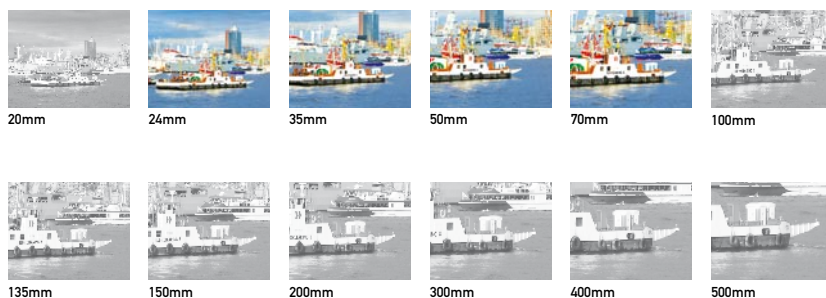
Weight

- 225g



Angle of View

■ Focal length range for digital cameras



PENTAX

smc-DA

18-55mm / 3.5-5.6 AL

Depth of Field Table

f=18mm

F meters	3.5	5.6	8	11	16	22
0.250	0.243	0.240	0.236	0.231	0.224	0.216
	0.257	0.262	0.267	0.275	0.289	0.309
0.350	0.333	0.324	0.315	0.304	0.288	0.271
	0.370	0.382	0.398	0.422	0.469	0.547
0.450	0.418	0.403	0.386	0.367	0.341	0.315
	0.489	0.514	0.549	0.601	0.722	0.968
0.600	0.538	0.511	0.481	0.450	0.407	0.367
	0.681	0.737	0.821	0.963	1.376	3.058
1.000	0.822	0.752	0.682	0.613	0.528	0.457
	1.290	1.543	2.041	3.497	∞	∞
2.000	1.359	1.162	0.992	0.843	0.679	0.557
	3.937	8.688	∞	∞	∞	∞
∞	3.905	2.556	1.814	1.342	0.949	0.713
	∞	∞	∞	∞	∞	∞

f=18mm

F meters	3.8	5.6	8	11	16	22
0.250	0.245	0.243	0.240	0.237	0.232	0.226
	0.255	0.258	0.261	0.265	0.273	0.284
0.350	0.338	0.333	0.326	0.318	0.306	0.293
	0.363	0.370	0.379	0.391	0.414	0.447
0.450	0.428	0.419	0.407	0.393	0.373	0.352
	0.475	0.488	0.506	0.532	0.582	∞
0.600	0.558	0.541	0.519	0.495	0.460	0.425
	0.650	0.677	0.717	0.776	0.902	1.131
1.000	0.876	0.830	0.775	0.717	0.639	0.567
	1.169	1.269	1.439	1.735	2.677	8.259
2.000	1.533	1.386	1.229	1.078	0.899	0.754
	2.910	3.698	5.902	24.487	∞	∞
∞	6.081	4.192	2.958	2.172	1.158	1.125
	∞	∞	∞	∞	∞	∞

f=45mm

F meters	5.2	5.6	8	11	16	22	32
0.250	0.248	0.248	0.247	0.246	0.244	0.242	0.238
	0.252	0.252	0.253	0.255	0.257	0.259	0.264
0.350	0.345	0.345	0.342	0.340	0.335	0.330	0.322
	0.355	0.356	0.358	0.361	0.367	0.374	0.386
0.450	0.441	0.440	0.436	0.431	0.423	0.414	0.400
	0.460	0.460	0.465	0.471	0.482	0.495	0.519
0.600	0.582	0.581	0.573	0.564	0.549	0.533	0.507
	0.619	0.621	0.630	0.642	0.663	0.691	0.744
1.000	0.948	0.943	0.921	0.895	0.855	0.811	0.749
	1.059	1.065	1.095	1.136	1.212	1.320	1.552
2.000	1.788	1.772	1.690	1.598	1.466	1.335	1.164
	2.272	2.299	2.458	2.692	3.203	4.160	8.421
∞	15.780	14.540	10.201	7.440	5.139	3.758	2.608
	∞	∞	∞	∞	∞	∞	∞

f=55mm

F meters	5.6	8	11	16	22	32	38
0.250	0.248	0.248	0.247	0.246	0.244	0.241	0.240
	0.252	0.252	0.253	0.255	0.257	0.260	0.262
0.350	0.346	0.344	0.342	0.339	0.335	0.329	0.326
	0.354	0.356	0.358	0.362	0.367	0.375	0.380
0.450	0.443	0.440	0.436	0.430	0.423	0.412	0.406
	0.458	0.461	0.465	0.472	0.481	0.497	0.507
0.600	0.586	0.580	0.574	0.562	0.550	0.530	0.519
	0.615	0.621	0.629	0.644	0.663	0.696	0.718
1.000	0.957	0.942	0.922	0.890	0.856	0.804	0.777
	1.047	1.067	1.094	1.144	1.210	1.341	1.436
2.000	1.824	1.766	1.692	1.583	1.470	1.315	1.327
	2.215	2.310	2.453	2.738	3.187	4.401	5.726
∞	19.456	14.128	10.297	7.104	5.189	3.593	3.038
	∞	∞	∞	∞	∞	∞	∞