

PENTAX lens

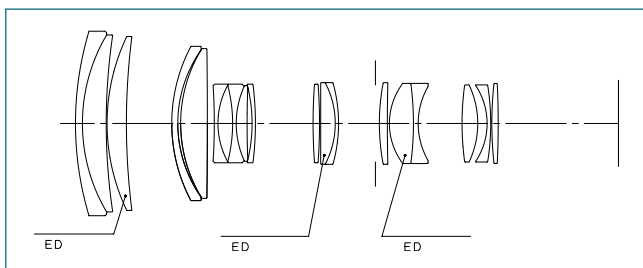
smc-DA*

Code No.	21660
Barcode	0027075129276

50 – 135mm f/2.8 ED [IF] SDM



- > Inner focussing
- > Super fast autofocus through Ultrasonic technology
- > Completely protected against spray and dust
- > Metal bayonet mount
- > Quick Focus for instant switching to manual focus control
- > New "Super Protection" coating for protecting the front lens element against dirt and grime



The smc-DA* 50–135mm covers the equivalent focal length of 75 to 205mm in 35mm film format, for moderate telephoto range coverage. The total high-quality structure of lens is the reason for a wide aperture over the entire focal length range. Additional special features include the super-fast "Supersonic Motor" utilising ultrasonic technology, a housing that is sealed against water and dust, and inner focussing design that prevents focus-shift while zooming. The smc-DA* 50–135mm is also equipped with PENTAX SP Special Coating on the front lens element that offers particularly effectively protection it against grime.

Standard Accessories	
Lens cap O-LC67	Code No. 31521
Rear cap	Code No. 31006
Lens Hood PH-RBK67	Code No. 38754
Soft bag S90-160	Code No. 33929

Packaging
Dimensions (WxHxD): 185x115x160mm
Weight: 1,100g

Lens	smc-DA* 50 – 135mm f/2,8 ED [IF] SDM
Lens mount	PENTAX K _{AF} metal bayonet
Angle of view	31,5° – 11,9°
Construction	18 Elements/ 14 Groups
Aperture control	Fully automatic
Smallest aperture	f22
Metering method	TTL Open aperture metering
Focusing range	1m – ∞
Magnification	approx. 1:5.9 (0.17x)
Filter size	67mm

DEPTH OF FIELD TABLE

f = 50mm

F	2.8	4.0	5.6	8.0	11.0	16.0	22.0
Metre							
1.0	0.983 1.017	0.977 1.025	0.968 1.035	0.954 1.051	0.938 1.071	0.913 1.107	0.884 1.154
1.3	1.269 1.333	1.256 1.347	1.239 1.367	1.215 1.399	1.186 1.440	1.141 1.514	1.092 1.615
1.5	1.457 1.546	1.439 1.567	1.416 1.595	1.383 1.640	1.344 1.700	1.283 1.811	1.218 1.965
2.0	1.918 2.090	1.885 2.131	1.843 2.188	1.783 2.281	1.713 2.408	1.609 2.657	1.501 2.039
3.0	2.806 3.223	2.731 3.330	2.637 3.483	2.507 3.743	2.363 4.129	2.156 4.992	1.953 6.679
5.0	4.458 5.695	4.260 6.057	4.023 6.619	3.714 7.692	3.389 9.656	2.960 16.874	2.573 17.233
10.0	7.979 13.409	7.345 15.710	6.642 20.384	5.811 36.895	5.027 ∞	4.109 ∞	3.374 ∞
∞	37.971 ∞	26.602 ∞	19.024 ∞	13.340 ∞	9.722 ∞	6.708 ∞	4.900 ∞

f = 70mm

F	2.8	4.0	5.6	8.0	11.0	16.0	22.0
Metre							
1.0	0.991 1.009	0.987 1.013	0.982 1.019	0.974 1.027	0.965 1.038	0.950 1.0567	0.932 1.079
1.3	1.283 1.318	1.275 1.326	1.266 1.336	1.252 1.352	1.235 1.373	1.207 1.409	1.176 1.455
1.5	1.476 1.525	1.466 1.536	1.453 1.551	1.433 1.574	1.410 1.603	1.372 1.655	1.330 1.722
2.0	1.954 2.048	1.935 2.069	1.911 2.098	1.875 2.144	1.832 2.203	1.764 2.310	1.690 2.454
3.0	2.891 3.118	2.847 3.171	2.790 3.245	2.709 3.363	2.614 3.523	2.470 3.827	2.317 4.270
5.0	4.690 5.355	4.568 5.523	4.416 5.764	4.206 6.169	3.970 6.764	3.631 8.061	3.295 10.480
10.0	8.791 11.597	8.358 12.450	7.844 13.805	7.182 16.500	6.497 21.838	5.608 47.502	4.819 ∞
∞	70.052 ∞	49.052 ∞	35.052 ∞	24.552 ∞	17.870 ∞	21.302 ∞	8.961 ∞

f = 90mm

F	2.8	4.0	5.6	8.0	11.0	16.0	22.0
Metre							
1.0	0.994 1.006	0.992 1.008	0.989 1.012	0.984 1.017	0.978 1.023	0.968 1.034	0.957 1.047
1.3	1.389 1.311	1.285 1.316	1.279 1.322	1.270 1.332	1.259 1.344	1.241 1.365	1.220 1.391
1.5	1.485 1.515	1.479 1.522	1.471 1.531	1.458 1.544	1.443 1.562	1.419 1.591	1.391 1.629
2.0	1.972 2.029	1.960 2.042	1.944 2.059	1.921 2.085	1.893 2.119	1.849 2.179	1.798 2.254
3.0	2.933 3.070	2.905 3.102	2.868 3.144	2.816 3.211	2.752 3.298	2.653 3.454	2.543 3.662
5.0	4.807 5.210	4.728 5.305	4.628 5.438	4.485 5.650	4.319 5.940	4.067 6.496	3.802 7.319
10.0	9.230 10.910	8.936 11.354	8.571 12.004	8.077 13.133	7.534 14.884	6.776 19.143	6.047 29.172
∞	115.757 ∞	81.043 ∞	57.900 ∞	40.543 ∞	29.497 ∞	20.293 ∞	14.770 ∞

f = 135mm

F	2.8	4.0	5.6	8.0	11.0	16.0	22.0
Metre							
1.0	0.997 1.003	0.996 1.004	0.994 1.006	0.992 1.008	0.989 1.011	0.984 1.017	0.978 1.023
1.3	1.295 1.305	1.292 1.308	1.290 1.311	1.285 1.315	1.280 1.321	1.271 1.331	1.260 1.343
1.5	1.493 1.507	1.490 1.511	1.486 1.515	1.479 1.521	1.472 1.529	1.459 1.543	1.445 1.560
2.0	1.986 2.014	1.980 2.020	1.973 2.028	1.961 2.040	1.947 2.056	1.924 2.082	1.897 2.115
3.0	2.967 3.033	2.954 3.048	2.936 3.067	2.909 3.097	2.876 3.135	2.823 3.201	2.762 3.284
5.0	4.906 5.098	4.867 5.141	4.816 5.199	4.741 5.290	4.651 5.407	4.508 5.615	4.348 5.888
10.0	9.620 10.412	9.466 10.599	9.268 10.859	8.986 11.275	8.657 11.841	8.160 12.925	7.634 14.521
∞	245.262 ∞	171.706 ∞	122.669 ∞	85.892 ∞	62.488 ∞	42.984 ∞	31.282 ∞

Viewing angle smc-DA* 50-135mm f/2.8 ED [IF] SDM

■ Angle-of-view for digital camera



15mm



16.5mm



21mm



25mm



43mm



55mm



75mm



120mm



140mm



200mm



300mm



600mm