

## ZOOM LENS

Art. No. 21507  
Barcode 0027075079762

- > Optimised for use with digital cameras
- > Special lens for PENTAX digital cameras
- > Equivalent to 24.5 – 69mm in 35mm film format
- > ED lens element for optimal image quality
- > "Quick Shift Focus System" for quickly switching between AF and MF
- > 2 aspherical lens elements

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

### Standard Accessories

Front Cap Art. No. 31653  
Rear Cap Art. No. 31006  
Lens hood PH-RBL67 Art. No. 38737

### Optional Accessories

Soft Bag S90-140 Art. No. 37726

### Application

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

Interesting photography begins where "snapshots" end. With a focal length of 24mm (equivalent in 35mm) impressive new wider-angle views that are unattainable with a standard zoom lens. This versatility is further enhanced by the ability to zoom to a focal length of approximately 70mm (equivalent in 35mm). And these achievements are underlined by maintaining a fixed aperture of f4.0 throughout the entire zoom 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

## 16-45mm / 4.0 ED AL



### Angle of View

- 83° to 35°

### Construction

- 13 Elements / 10 Groups

### Minimum Aperture

- 22

### Focusing Range

- 28cm to infinity

### Magnification

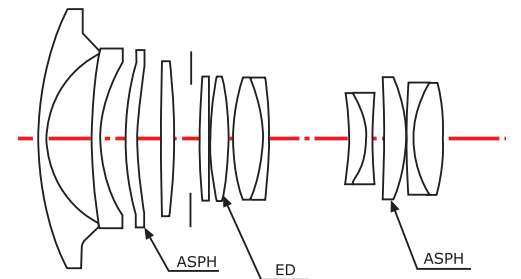
- approx. 1:3.8 (0.26x)

### Filter Size

- E67

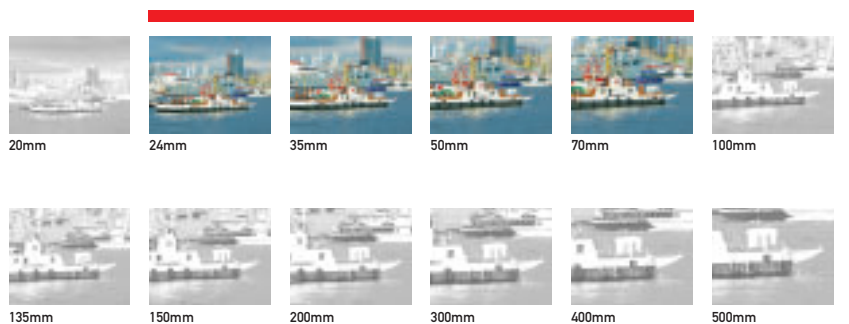
### Weight

- 365g



### Angle of View

- Focal length range for digital cameras



# PENTAX

# smc-DA

16-45mm / 4.0 ED AL

Depth of Field Table

f=16mm

F meters	4	5.6	8	11	16
0.28	0.27	0.27	0.27	0.26	0.25
	0.29	0.29	0.30	0.31	0.32
0.45	0.42	0.40	0.39	0.37	0.38
	0.49	0.52	0.55	0.61	0.75
0.60	0.53	0.51	0.48	0.45	0.41
	0.70	0.76	0.86	1.05	1.75
1.00	0.79	0.73	0.66	0.59	0.51
	1.43	1.74	2.66	9.11	∞
2.00	1.23	1.07	0.91	0.77	0.62
	6.47	14.95	∞	∞	∞
∞	2.79	2.03	1.46	1.10	0.80
	∞	∞	∞	∞	∞

f=20mm

F meters	4	5.6	8	11	16
0.28	0.27	0.27	0.27	0.26	0.26
	0.29	0.29	0.30	0.30	0.31
0.45	0.42	0.42	0.40	0.39	0.37
	0.48	0.49	0.52	0.55	0.62
0.60	0.55	0.53	0.51	0.48	0.44
	0.67	0.70	0.76	0.84	1.06
1.00	0.84	0.79	0.73	0.67	0.59
	1.25	1.40	1.71	2.38	8.00
2.00	1.40	1.25	1.09	0.94	0.77
	3.68	5.67	33.95	∞	∞
∞	4.12	2.97	2.12	1.57	1.12
	∞	∞	∞	∞	∞

f=28mm

F meters	4	5.6	8	11	16
0.28	0.28	0.28	0.27	0.27	0.27
	0.28	0.29	0.29	0.29	0.30
0.45	0.44	0.43	0.42	0.41	0.40
	0.47	0.47	0.49	0.50	0.53
0.60	0.57	0.56	0.54	0.53	0.50
	0.63	0.65	0.67	0.71	0.77
1.00	0.91	0.88	0.83	0.78	0.72
	1.12	1.17	1.27	1.42	1.77
2.00	1.63	1.52	1.38	1.24	1.06
	2.61	2.98	3.80	5.84	71.14
∞	7.94	5.70	4.02	2.95	2.06
	∞	∞	∞	∞	∞

f=35mm

F meters	4	5.6	8	11	16
0.28	0.28	0.28	0.28	0.27	0.27
	0.28	0.28	0.29	0.29	0.29
0.45	0.44	0.44	0.43	0.42	0.41
	0.46	0.47	0.47	0.48	0.50
0.60	0.58	0.57	0.56	0.55	0.53
	0.62	0.63	0.65	0.67	0.70
1.00	0.94	0.91	0.88	0.85	0.79
	1.07	1.11	1.16	1.23	1.39
2.00	1.74	1.66	1.55	1.43	1.27
	2.35	2.54	2.87	3.44	5.19
∞	12.35	8.85	6.22	4.55	3.16
	∞	∞	∞	∞	∞

f=45mm

F meters	4	5.6	8	11	16
0.28	0.28	0.28	0.28	0.28	0.27
	0.28	0.28	0.28	0.29	0.29
0.45	0.44	0.44	0.44	0.43	0.42
	0.46	0.46	0.46	0.47	0.48
0.60	0.59	0.58	0.57	0.57	0.55
	0.61	0.62	0.63	0.64	0.66
1.00	0.96	0.96	0.96	0.96	0.96
	1.05	1.07	1.10	1.14	1.22
2.00	1.83	1.76	1.68	1.59	1.45
	2.21	2.31	2.48	2.73	3.29
∞	19.19	13.74	9.64	7.04	4.87
	∞	∞	∞	∞	∞