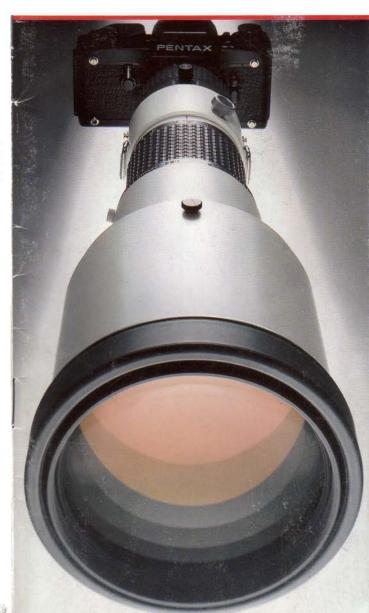
PENTAX 35mm SLR Lenses

Advanced Technology and Unsurpassed Quality



PENTAX®

Asahi Optical Co., Ltd C.P.O. 895, Tokyo 100-91, JAPAN

Pentax Europe n.v. Weiveldlaan 3-5, 1930 Zaventem, BELGIUM

Pentax Handelsgesellschaft mbH. Postfach 54 0169, 2000 Hamburg 54, WEST GERMANY

Pentax U.K. Limited. Pentax House, South Hill Avenue, South Harrow, Middelsex HA2 OLT, U.K.

Pentax France Z.I. Argenteuil, 12, Rue Ambroise-Croizat, 95100 Argenteuil, FRANCE

Pentax Nederland Spinveld 25, 4815 HR Breda, THE NETHERLANDS Pentax (Schweiz) AG Industriestrasse 2, 8305 Dietlikon ZH, SWITZERLAND

Pentax Scandinavia AB Box 650, S-751 27 Uppsala, SWEDEN

Pentax Norge A.S. Cecilie Thoresens Vei 11, Lambertseter, 1101 Oslo 11, NORWAY

Pentax Corporation 35 Inverness Drive East, Englewood, Colorado 80112, U.S.A.

Pentax Canada Inc. 3131 Universal Drive, Missassauga, Ontario L4X 2E5, CANADA Asahi Optical Brasileira R. Capitão Antonio Rosa 376, Sala 121 Ed. PBK, São Paulo, BRAZIL



051101/ENG

9/88 Printed in Belgium





One of the biggest advantages of the 35mm single-lens reflex (SLR) system is that it offers interchangeable lenses which can satisfy every creative demend and meet any photographic situation. The SMC Pentax 35mm SLR lens system is designed to maximize this advantage with a wide-ranging and varied selection of lenses to choose from.

SMC Pentax 35mm SLR lenses are of the highest quality to assure sharp, clear images without flare or ghost effects. They are also designed for maximum ease of operation in a wide variety of photographic situations.

All SMC Pentax lenses are treated with

Pentax's exclusive Super-Multi-Coating a remarkable seven-layer coating process that cuts the reflection ratio to a minimum and improves color fidelity and brightness. Pentax's techological expertise has led to the development of such advanced features as ED (extra-low dispersion) lens elements for reduced chromatic aberration, the IF (inner focus) mechanism for better balance and easier focusing and the FREE (fixed rear element extension) system for stable perfomance throughout the focal range of the lens.

Put a quality SMC Pentax lens on an outstanding Pentax 35mm SLR camera body, and capture a moment of life.



Wide-Angle Lenses







SMC PENTAX-A 28mf/2

SMC PENTAX-F 28mf/2.8

SMC PENTAX-A 28mf/2.8





SITC PENTAX-A 35mf/2

SMC PENTAX-4 35-1/2.8

Fully Compatible SMC Pentax Lenses

Pentax ensures full compatibility between its lenses and camera bodies, so any Pentax bayonet-mount lens can be used with any Pentax 35mm bayonet-mount camera body without modification or attachment.

A-series lenses feature automatic diaphragm control with any Pentax 35mm SLR currently on the market (except the K1000) while the F-series lenses offer autofocus convenience when mounted on the SFX/SF7 body. With the SFX/SF7 body, A-series lenses with a maximum aperture of f/2.8 or larger can be converted into auto-focus lenses by means of the SMC Pentax-F AF Adapter 1.7X, and those with a maximum aperture of f/5.6 or larger (except special-application lenses such as macro and soft-focus) can be used in the SFX/SF7's focus indication mode without the adapter for faster, more accurate manual focusing.

With any combination of Pentax lenses and camera bodies you can be assured of optimum quality and performance from the Pentax system.

Wide-angle lenses have a broad angle of view, allowing the photographer to capture a large area or shoot close to a subject in a tight location. These lenses also have a large depth of field, so picture elements both near and far appear in sharp focus with the pan-focus effect.

Wide-angle lenses with a focal length between 15mm and 24mm are classified as ultra-wideangle lenses and can produce extraordinary special effects using unnatural perspective. The 28mm and 35mm lenses are classified as wideangle lenses and produce more natural images similar to those perceived by the human eye.

SMC PENTAX-A 15. This lens offers a spectacular angle of view and creative perspective with minimum distortion even at the edges, making it ideal for panoramic landscapes. It features four built-in filters (UV, skylight, Y2, O2) and a built-in lens hood.

SMC PENTAX-A 20mmf/2.8 This lens provides an image area almost six times that of a standard 50mm lens, and its fast f/2.8 maximum aperture and extended depth of field make it perfect for landscapes and fast-moving subjects. Pentax's original floating mechanism ensures sharp, stable image quality throughout the focusing range.

SMC PENTAX-A 24 mf/2.8 With a compact design and a large maximum aperture, this ultra-wide-angle lens is favored for scenic and architectural photography. Depending on your composition, this lens can emphasize the perspective or create a natural image.

SITC PENTAX-A 28mm 1/2 Most popular and manageable of SMC PENTAX-F 28 mm 1/2.8 all wide-angle lenses, 28mm lenses SMC PENTAX-A 28 mf/2.8 can be used for many different types of subjects - from casual snapshots and group shots to interiors and scenery. The F 28mm f/2.8 offers auto-focus convenience with the SFX/SF7 body. The A 28mm f/2 features a large maximum aperture while the A 28mm f/2.8 boasts an extremely compact design.

SMC PENTAX-A 35mmf/2 With a natural perspective, the SMC PENTAX-A 35mm [/2.8] 35mm wide-angle lenses can be used as a standard lens, especially when photographing in close quarters. Offering an image area twice the size provided by a standard lens, these lenses are compact and of exceptional optical quality.

Standard Lenses





SMC PENTAX-F 50mf/1.4







SITC PENTAX-A 50mf/1.7



SMC PENTAX-A 50mf/2

Standard lenses have a perspective most similar to what the human eye sees in real life. Compared to other lenses, they are more compact and lightweight and have a wider depth-of-field control range since they can be designed with larger maximum apertures. They handle a wide variety of applications - use them for wide-angle effects or telephoto effects, depending on the situation.

SMC PENTAX-A 50mmf/1.2 SMC PENTAX-F 50mmf/1.4 SMC PENTAX-F 50mmf/1.7 SMC PENTAX-A 50mmf/1.7 SMC PENTAX-A 50mmf/2

SMC Pentax standard lenses are the most versatile for all types of photography. They approximate the natural viewing perspective of the human eye and their fast max-

imum apertures make low-light shooting easy. Pentax offers a full line of compact 50mm lenses: two F-series lenses feature auto-focus convenience in combination with the SFX/SF7 body while three A-series lenses, ranging from the super-fast f/1.2 to the economical f/2, offer automatic diaphragm control.



Choose

of View























Your Angle



Telephoto Lenses



SINC PENTAX-A 85mf/1.4



SITC PENTAX-A 100-1/2.8



SMC PENTAX-A* 135mf/1.8

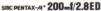




SMC PENTAX-F 135mf/2.8[IF] SMC PENTAX-A 135mf/2.8



SMC PENTAX-A 200-1/4





SMC PENTAX-A - 300-f/2.8ED[IF]



These lenses are divided into two groups according to focal length: medium-telephoto lenses are ideal for portraits with focal lengths of up to 135mm, while telephoto lenses, with focal lengths of between 200mm and 300mm, are suited to sports and stage photography. As the focal length increases, the telephoto effect becomes stronger and perspective appears more compressed. These lenses also have a shallower depth of field, which means that backdrops have a soft, unfocused quality.

SMC PENTAX-A* 85 mm 1/1.4 This is an all-round portrait lens. A large maximum aperture allows available-light shooting while the FREE focusing system ensures a minimum of distortion throughout its focusing range.

SMC PENTAX-A 100 mm 1/2.8 This compact lens is excellent for portraits, casual snapshots, hand-held sports action, news photography and other medium-range applications.

SMC PENTAX-A* 135mf/1.8 SMC PENTAX-F 135mmf/2.8[IF] SITC PENTAX-A 135mmf/2.8

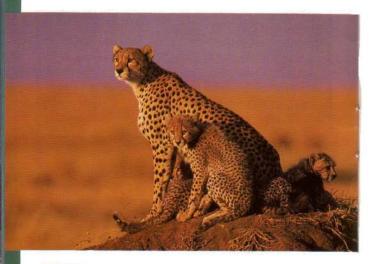
These lenses can isolate the subject from the background. The F 135mm f/2.8 [IF] fea-

tures an inner focusing mechanism for better balance, a floating mechanism for exceptional reproduction quality and an auto-focus mechanism for use with the SFX/SF7 body. The A* 135mm f/1.8 features the FREE focusing system for maximum clarity and sharpness over the entire focusing range. The A 135mm f/2.8 lens is extremely compact and lightweight for shooting versatility.

SMC PENTAX-A* 200 mf/2.8ED This focal length is especially SMC PENTAX-A 200mmf/4 suited for sports and stage photography. The super-fast A* 200mm f/2.8 ED features extra-low dispersion lens elements for minimized chromatic aberration. The A 200mm f/4 is among the lightest in its class.

SMC PENTAX-A* 300 mmf/2.8 ED[IF] These lenses are favored SMC PENTAX-F*300mmf/4.5 ED[IF] for strong telephoto effects. The compact F* 300mm f/4.5 ED [IF] offers autofocus convenience with the SFX/SF7 body, extra-low dispersion lens elements for reduced chromatic aberration, an inner focusing mechanism for better balance and a minimum focusing distance of 2m. The super-fast A* 300mm f/2.8 ED [IF] also features extra-low dispersion lens elements and an inner focusing mechanism.

Super-Telephoto Lenses





Super-telephoto lenses have focal lengths of over 400mm. Like telescopes, they allow you to capture large images of distant subjects. They are ideal for nature and sports photography, in which subjects are often too far away or too dangerous to approach closely. On the other hand, these lenses require delicate focusing and are often subject to camera shake, so use of a tripod and a cable release is recommended.

SMC PENTAX-A* 400mm f/2.8 ED [IF] With powerful telephoto effects, these lenses bring the subject in close. The A* 400mm f/2.8 ED [IF] features extra-low dispersion lens elements for minimum aberration and maximum sharpness and an inner focusing mechanism for better handling, and its super-fast maximum aperture allows hand-held shooting at faster shutter speeds. The A 400mm f/5.6 is extremely compact and lightweight and its FREE focusing system ensures sharp, clear images over the entire focusing range.



SMC PENTAX-A 400mm f/5.6



SMC PENTAX 500mm f/4.5



SMC PENTAX-F. 600mm f/4 ED [IF]

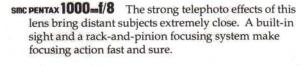
SMC PENTAX **500mm f**/**4.5** This light-weight super-telephoto lens offers a relatively fast maximum aperture and high costperformance. It can capture distant subjects in detail and is ideal for nature and sports photography.

smc Pentax-f* 600mm f/4 ED [IF] This new AF Supertelephoto lens has a very high image quality and good portability. Excellent quality ED lens elements used in this lens reduce possible chromatic aberrations to the minimum and ensure high contrast images. A focusing limiter can be set to any position up to infinity so that quick and easy focusing operation can be done whether in automatic focusing or manual focusing mode. In order to protect its front lens element against scratches and dust, a PF filter is provided. The lens comes with a set of six filters and one gelatin filter holder.

Super-Telephoto Lenses



SITC PENTAX 1000-1/8





SINC PENTAX-A* 1200mf/8 ED[IF]



color rendition even in the out-of-focus areas.



SMC PENTAX REFLEX 1000mf/11

SMC PENTAX-M REFLEX 2000mf/13.5

SINC PENTAX REFLEX 2000 mmf/11 Despite their extremely powerful telephoto effects, these lenses offer a dramatically reduced size and a close minimum focusing distance thanks to a reflex optical design which incorporates two mirror elements. The M Reflex 2000mm f/13.5 features the longest focal length among all SMC Pentax lenses. Exposure is controlled by means of three built-in ND (neutral density) filters and shutter speed variation. They also feature three built-in filters (skylight, Y2 and R2).



Zoom Lenses



SMC PENTAX-F ZOOM 24mm-50mm f/4



SMC PENTAX-A ZOOM 24mm-50mm f/4





SMC PENTAX-F ZOOM 28mm f/3.5-80mm f/4.5 SMC PENTAX-A ZOOM 28mm -135mm f/4



SMC PENTAX-F ZOOM 35mm f/3.5-70mm f/4.5



SMC PENTAX-F ZOOM 35mm f/4-105mm -f/5.6





SMC PENTAX-F ZOOM 35mm f/3.5-135mm f/4.5 SMC PENTAX-A ZOOM 35mm f/3.5-135mm f/4.



SMC PENTAX-F+ ZOOM 250mm-600mm f/5.6 ED [IF]

Zoom lenses are extremely popular among photographers of all levels because one zoom lens can replace several single-focal-length lenses and allow the photographer to change the angle of view at will within the focal range of the lens. Pentax offers an extensive lineup of high-quality zoom lenses from wide-angle to telephoto. A combination of these lenses can cover most generally used focal lengths.

IMC PENTAX-F ZOOM 24mm-50mm f/4 These compact wide-to-IMC PENTAX-A ZOOM 24mm-50mm f/4 standard zoom lenses are suited to all general types of photography and offer superb optical performance over the entire focal range. Both feature a minimum focusing distance of 0.4m which even covers the macro range. The F Zoom 24mm-50mm f/4 offers a fast, accurate auto-focus mechanism with the SFX/SF7 body.

SMC PENTAX-F ZOOM 28mm f/3.5-80mm f/4.5 With a 3X zoom ratio, this lens produces sharp, high-contrast images from wide-angle to medium telephoto. It features a one-touch macro setting. It offers auto-focus convenience with the SFX/SF7 body.

SMC PENTAX-A ZOOM 28mm -135mm f/4 This lens offers an extremely high zoom ratio of 5X and covers the complete range from wide angle to medium telephoto. It also features a macro setting.

SMC PENTAX-F ZOOM 35mm f/3.5-70mm f/4.5 Excellent for portraits, landscapes and snapshots, this standard zoom lens is amazingly compact and esay to use. It is one of the most compact auto-focus standard zoom lens on market, offers auto-focus convenience with the SFX/SF7 body and a macro setting.

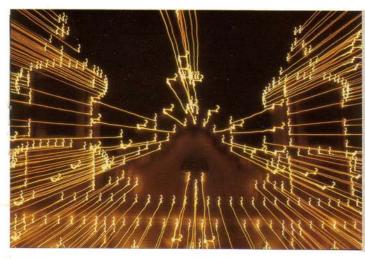
SMC PENTAX-F ZOOM 35mm f/4-105mm -f/5.6 With a maximum length of 71mm (2.8") this extremely compact lightweight lens has been designed to be used as a standard zoom. With a high 3X zoom ratio from 35mm wide-angle to 105mm telephoto, it also offers a tele macro setting which enables the photographer to approach as close as 42cm to the subject for large detailed images at 1/4X life size.

SMC PENTAX-F ZOOM 35mm f/3.5-135mm f/4.5 With a zoom ratio SMC PENTAX-A ZOOM 35mm f/3.5-135mm f/4.5 of 4X, these lenses cover most general-purpose photography from wide angle to telephoto, yet are compact enough to be used as a standard lens. Both feature a macro setting. The F Zoom 35mm f/3.5-135mm f/4.5 offers auto-focus convenience with the SFX/SF7 body.

SMC PENTAX-F* ZOOM 250mm-600mm f/5.6 ED [IF] A high performance super-telephoto zoom lens. Excellent quality ED lens elements used in focusing lens groups reduce aberrations to a minimum. Both focusing and zooming operations are very easy and smooth due to its inner-focusing system and single focusing/zooming ring. The lens comes with a set of six filters and one gelatin filter holder.



SITC PENTAX-F ZOOM 70-1/4-210-1/5.6





SITC PENTAX 200M 135m - 600mf/6.7

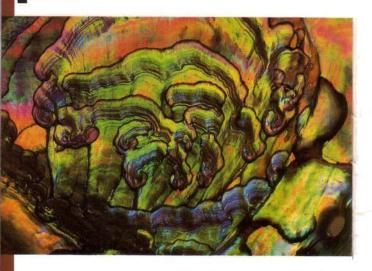
smc PENTAX-F 200M 70 mmf/4-210 mmf/5.6 An excellent zoom lens for all types of medium-telephoto photography, including portraits and sports action. The F Zoom 70 mm f/4-210 mm f/5.6 incorporates an extra-low dispersion lens element for outstanding color rendition and compact design.

smc PENTAX 200M 135mm - 600 mm / 6.7 Powerful and fast for its class, this zoom lens covers focal lengths from medium telephoto to super telephoto, making it ideal for professional-quality nature and sports photography. A one-touch zoom/focus ring allows fast operation.



smc Pentax reflex zoom 400 mf/8-600 mf/12 Thanks to a reflex optical design, this extremely compact, lightweight super-telephoto zoom lens measures only 10cm in length. The reflex design also ensures reduced chromatic aberration and sharp images at all focal lengths plus a minimum focusing distance of 3m. Exposure is controlled by three screw-on ND (neutral density) filters and shutter speed variation. Screw-on skylight, Y2 and R2 filters are also provided. This is an excellent lens for hand-held shooting of moving subjects in sports and action photography.

Macrophoto Lenses





SMC PENTAX-F MACRO 50mm 1/2.8



SMC PENTAX-F MACRO 100mm f/2.8



Pentax macrophoto and bellows lenses are specifically designed to let you capture small subjects in extreme detail. They reveal the amazing world of macro beyond the scope of normal lenses and are recommended for professional and academic applications.

smc Pentax-F macro 50mm f/2.8 This new AF macro lens gives superb performance from infinity to life-size magnification. By its floating-focus system, accurate focusing is assured from infinity down to minimum focusing distance (0.2 m). Chromatic difference of magnification and astigmatism are well corrected and a sharp image is assured even at maximum aperture.

SMC PENTAX-F MACRO 100mm f/2.8 The F Macro 100mm f/2.8 offers magnifications from infinity to life size and its FREE focusing system keeps lens extension to a minimum. A built-in focus range limiter divides the focusing range into two sections - from infinity to 1/4X and from 1/4X to life size - to reduce auto-focus speed in each section.

SMC PENTAX-A* MACRO **200mm f/4 ED** With magnifications up to life size, this lens features extra-low dispersion lens elements and a FREE focusing system for minimized chromatic aberration and sharp, crisp images. Its longer focal length lets you capture life-size macro images from further away (55cm or 1.8 ft.) than 50mm and 100mm macro lenses and allows more space for complicated lighting equipment.



Special-Application Lenses



SMC PENTAX-A FISH-EYE 16mm 1/2.8



An exaggerated 180° angle of view and an amazing depth of field make this lens an invaluable creative tool. Its fast maximum aperture of f/2.8 allows shooting under poor lighting conditions and compared to conventional fish-eye lenses, it has very little spherical aberration and much improved contrast and resolving power. It has three built-in filters (skylight, Y2 and O2) and a rear mount for gelatin filters.

These special-application lenses are designed to produce unique visual effects not possible with normal lenses for professional and academic purposes. The ability to interchange these lenses without modification is one of the biggest advantages of the 35mm SLR camera. For creating unique images, these lenses are unrivaled.



SMC PENTAX SHIFT 28mmf/3.5

The 360° rotation of the lens barrel allows a maximum shift of 11mm, helping the photographer to solve the problem of converging lines. With this lens it is possible to correct the perspective or to exaggerate it for creative effect. An indispensable lens for architectural photography, it comes with three built-in filters (skylight, Y2 and O2) and a rear gelatin filter mount.





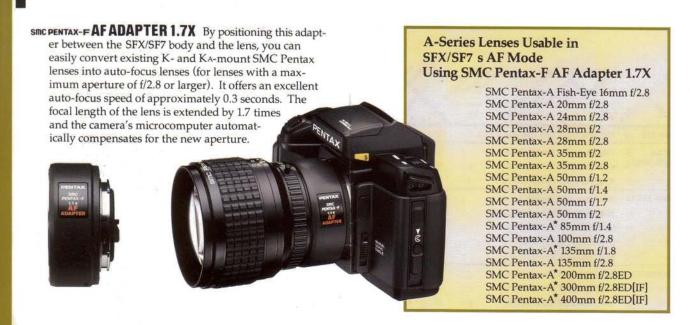


SMC PENTAX SOFT 85mm 1/2.2



Exclusively developed for soft-focus photography, this compact lens is simple to use and economically priced, yet creates outstanding images. It offers a very large area of soft-focus flare around the subject, a wide range of soft-focus control and excellent color reproduction. In combination with optional rear converters, it can be used in many different applications including portraits and still lifes.

AF Adapter



Rear Converters



PENTAX REAR CONVERTER-A 1.4X-5 Positioned between a PENTAX REAR CONVERTER-A 2X-S PENTAX REAR CONVERTER-A 1.4X-L PENTAX REAR CONVERTER-A 2X-L

camera body and a taking lens, these rear converters increase the effective focal

length of the lens. The two 1.4X models boost the focal length by 40% and nearly double the image area while the two 2X models double the focal length. The S models fit most SMC Pentax lenses while the L models are specifically designed for telephoto and super-telephoto lenses to bring out their optimum performance. All rear converters can be used with automatic diaphragm control and open-aperture light metering.

SMC Pentax 35mm SLR Lens Speci fications

		niagre of Lens	.6	· Artele of View	c	onstruction Diap	rests .	Minimum Disk	Marighten Dist	n trini	Weight	· Filler Sit	2 Inthi
	·Type	· Math	Mint	Anghee	· Lens	Jiap.	•17	· R	· Mark le On	.%	• ot	Filler	
	FISH-EYE	SMC Pentax-A Fish Eye 16mm f/2.8	22	180	7-9	- FA	0.2	0.7	65 x 56	320	11.2	BI	
	ULTRA WIDE-ANGLE	SMC Pentax-A 15mm f/3.5	22	111	12-13	FA	0.3	1	80 x 81.5	595	20.8	BI	
		SMC Pentax-A 20mm f/2.8	22	94	9-10	FA	0.25	0.8	70 x 43.5	245	8.6	67	
		SMC Pentax-A 24mm f/2.8	22	84	8-9	FA	0.25	0.8	63 x 41.5	205	7.2	52	
	WIDE-ANGLE	SMC Pentax-A 28mm f/2	22	75	7-8	FA	0.3	1	63 x 41.5	215	7.5	49	0.0
		SMC Pentax-F 28mm f/2.8	22	75	7-7	FA	0.3	1	64 x 37	180	6.3	49	
		SMC Pentax-A 28mm f/2.8	22	75	7-7	FA	0.3	1	63 x 36.5	170	6	49	
		SMC Pentax-A 35mm f/2	22	63	7-7	FA	0.3	1	63 x 41.5	205	7.2	49	
		SMC Pentax-A 35mm f/2.8	22	63	6-6	FA	0.3	1	63 x 36.5	170	6	49	
	STANDARD	SMC Pentax-A 50mm f/1.2	22	47	6-7	FA	0.45	1.5	64.5 x 47.5	345	12.1	52	
		SMC Pentax-F 50mm f/1.4	22	47	6-7	FA	0.45	1.5	65 x 37	230	8.1	49	
		SMC Pentax-F 50mm f/1.7	22	47	5-6	FA	0.45	1.5	65 x 37	200	7	49	
		SMC Pentax-A 50mm f/1.7	22	47	5-6	FA	0.45	1.5	63 x 31	165	5.8	49	
		SMC Pentax-A 50mm f/2	22	47	5-5	FA	0.45	1.5	63 x 31	145	5.1	49	
	TELEPHOTO	SMC Pentax-A* 85mm f/1.4	22	28.5	6-7	FA	0.85	2.8	74 × 66	555	19.4	67	
		SMC Pentax-A 100mm f/2.8	22	24.5	5-5	FA	1	3.3	63 x 56	260	9.1	49	
		SMC Pentax-A* 135mm f/1.8	22	18	6-7	FA	1.2	3.9	80 x 97.5	865	30.3	77	
		SMC Pentax-F 135mm f/2.8 [IF]	32	18	7-8	FA	0.7	2.3	68 x 80	395	13.8	52	
		SMC Pentax-A 135mm f/2.8	32	18	4-4	FA	1.2	3.9	65 x 76.5	340	11.9	52	
		SMC Pentax-A* 200mm f/2.8 ED	32	12.5	6-6	FA	1.8	5.9	91 x 137.5	850	29.8	77	
		SMC Pentax-A 200mm f/4	32	12.5	6-6	FA	1.9	6.2	63.5 x 111	410	14.4	52	
		SMC Pentax-A* 300mm f/2.8 ED[IF] *	32	8.2	8-8	FA	3	9.8	133 x 236	2,970	104	49	
		SMC Pentax-F* 300mm f/4.5 ED[IF] *	32	8.2	7-9	FA	2	6.6	84 x 160	880	30.8	67	
	SUPER TELEPHOTO	SMC Pentax-A*400mm f/2.8 ED[IF] #	32	6.2	8-8	FA	4	13.1	164 x 325	6,000	210	49	
		SMC Pentax-A 400mm f/5.6*	45	6.2	6-7	FA	2.8	9.2	85 x 277	1,240	43.4	77	
		SMC Pentax 500mm f/4.5*	45	5	4-4	M	10	32.8	126.5 x 440	3.370	118	52	
		SMC Pentax-F*600mm f/4 ED[IF]	32	4.1	7-9	FA	5	16.4	181 x 457	6,830	239.1	BI	
		SMC Pentax 1000mm f/8#	45	2.5	5-5	M	30	98.4	143 x 738	5,290	185.2	52	
		SMC Pentax Reflex 1000mm f/11*	-	2.5	6-8	ND	8	26.2	119 x 248	2,300	80.5	BI/52	•
		SMC Pentax-A* 1200mm f/8 ED[IF] *	45	2.1	8-9	FA	8	26.2	170 x 684	8,580	300.3	49	
		SMC Pentax-M Reflex 2000mm f/13.5*	-	1.2	6-8	ND	20	65.6	180 x 530	8,000	280	BI/52	

^{....}Lens hood and tripod socket built in

FA Fully automatic

M Manual

ND Controlled by ND filters

BI Filters built in

Note: Lens length does not include mount portion.

^{....} For Rear Converter-A 1.4X-S

^{•} For Rear Converter-A 2X-S

^{....} For Rear Converter-A 1.4X-L

^{....} For Rear Converter-A 2X-L

SMC Pentax 35mm SLR Lens Specifications

				** State Corpulation of the State of the Sta								
	• Hadre of Lane	a ^s	· Angle befree		Onstruction .	hragh . M	Inimum ing	Maximum Dir	and then	· Weight	٥	jike Intri
• TYPE	- Name	Minin	Angleegie	· Lens	rous Diar	·m	· Kr.	· Marti Let	. %	• ot	Filler	
ZOOM	SMC Pentax-F Zoom 24mm-50mm f/4	22	84-47	10-11	FA	0.4	1.3	69.5 x 67	380	13.3	58	0.0
	SMC Pentax-A Zoom 24mm-50mm f/4	22	84-47	10-11	FA	0.4	1.3	64 x 67.5	375	13.1	58	••
	SMC Pentax-F Zoom 28mm f/3.5-80mm f/4.5	22-32	75-30.5	9-12	FA	0.8 (0.4)	2.6 (1.3)	69.5 x 75	390	13.7	58	••
	SMC Pentax-A Zoom 28mm-135mm f/4	22	75-18	15-17	FA	1.7 (0.4)	5.6 (1.3)	80 x 112	820	28.7	77	••
	SMC Pentax-F Zoom 35mm f/3.5-70mm f/4.5	22-32	63-34.5	8-8	FA	0.7 (0.32)	2.3 (1.0)	67 x 50	235	8.2	49	• •
	SMC Pentax-F Zoom 35mm f/4-105mm f/5.6	22	63-23.5	12-14	FA	1.4 (0.42)	4.6 (1.4)	72 x 71	345	12.1	58	
	SMC Pentax-F Zoom 35mm f/3.5-135mm f/4.5	22-32	63-18	12-16	FA	1.6 (0.75)	5.2 (2.5)	71 x 91.5	485	17	58	••
	SMC Pentax-A Zoom 35mm f/3.5-135mm f/4.5	22	63-18	12-16	FA	1.6 (0.75)	5.2 (2.5)	63 x 91.5	450	15.8	58	
	SMC Pentax-F* Zoom 250mm-600mm f/5.6 ED [IF]	32	9.9-4.1	15-17	FA	3.5	11.5	149 x 439	5,400	189	43-112	••
	SMC Pentax-F Zoom 70mm f/4-210mm f/5.6	32-45	34.5-11.8	9-13	FA	1.1	3.6	71 x 98.5	555	19.4	49	
	SMC Pentax Zoom 135mm-600mm f/6.7 *	45	18-4.1	12-15	M	6	19.7	105 x 589	4,070	142.5	52	0 0
	SMC Pentax Reflex Zoom 400mm f/8-600mm f/12	_	6.2-4.1	7-12	ND	3	9.8	82 x 108	730	25.6	+	
MACRO	SMC Pentax-F Macro 50mm f/2.8	32	47	7-8	FA	0.2	0.6	68 x 70	385	13.5	52	
	SMC Pentax-F Macro 100mm f/2.8	32	24.5	8-9	FA	0.31	1	74 x 103.5	590	20.7	58	
	SMC Pentax-A* Macro 200mm f/4 ED *	32	12.5	9-10	FA	0.55	1.8	70.5 x 145	895	31.3	58	000
SHIFT	SMC Pentax Shift 28mm f/3.5	32	75	11-12	M	0.3	1	80 x 92.5	610	21.4	BI	
SOFT-FOCUS	S SMC Pentax Soft 85mm f/2.2	5.6	28.5	1-2	M	0.57	1.9	72 x 51.5	235	8.2	49	
AF ADAPTER	SMC Pentax-F AF Adapter 1.7X			4-6				64 x 26	135	4.7		
REAR	Rear Converter-A 1.4X-S			4-5				64.5 x 21.5	145	5.1		
CONVERTER	Rear Converter-A 2X-S			6-7				64.5 x 39	210	7.4		
	Rear Converter-A 1.4X-L			5-5				65.5 x 28.5	175	6.1		
	Rear Converter-A 2X-L			5-6				65.5 x 63	255	8.9		
FAFull NDCon BIFilte	s hood and tripod socket built in y automatic MManual trolled by ND filters ers built in un filters can be screwed into the lens fr	ront;							For I For I For I	Rear Cor Rear Cor	nverter-A	A 2X-S A 1.4X-L

Design and specifications are subject to change without notice.

.... 40.5mm special filters into the lens rear.

Note: Lens length does not include mount portion.

Pentax's Advanced Optical Tec | hnologies

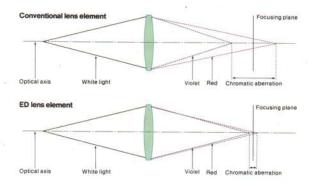
Super-Multi-Coating

All Pentax lenses are treated with our exclusive Super-Multi-Coating — a remarkable seven-layer lens coating process that reduces the reflection ratio to a mere 0.2% per lens surface. It dramatically improves both color fidelity and brightness and eliminates flare and ghost effects. In the case of multi-element zoom lenses, Super-Multi-Coating can increase brightness up to 50% over conventional lens coating processes.

Extra-low Dispersion (ED) Lens Elements

Pentax employs special extra-low dispersion lens elements for some SMC Pentax lenses. These elements minimize chromatic aberration, a problem difficult to solve especially with telephoto and large-aperture lenses.

ED Lens Element for Minimized Chromatic Aberration



Inner Focus (IF) Mechanism

Unlike conventional lenses in which entire optical elements move back and forth for focusing, the IF mechanism moves only part of the optical elements to ensure better balance and easier focusing, even with large-aperture telephoto lenses. It also reduces minimum focusing distance and ensures remarkable image quality at close distances.

Floating Mechanism

By separating the lens elements into the front and rear element groups and moving the two groups independently during focusing, this mechanism ensures excellent reproduction quality over the entire focusing range. It also compensates for curvature of field with largeaperture ultra-wide-angle lenses.

FREE (Fixed Rear Element Extension) Focusing System

Unlike standard focusing systems that move all lens elements as a single unit during focusing, this system extends only the front lens element groups and keeps the rear element groups fixed. This keeps curvature of field and spherical aberration to a minimum, thus ensuring sharp, distortion-free images throughout the focusing range of the lens.

Computerized Lens Design System

Pentax has developed a sophisticated computer system for designing high-performance, high-quality SMC Pentax lenses. Its outstanding capabilities are especially evident in the design of our complex multi-element zoom lenses with high zooming ratios. Combining exacting design of complicated lens-element constructions (12 elements in 9 groups for the SMC Pentax-A Zoom 28mm f/3.5—80mm f/4.5 and 17 elements in 15 groups for the SMC Pentax-A Zoom 28mm—135mm f/4, for example) with elaborate calculations for the four-group curvilinear movement of the lens-element groups, we not only ensure optimum performance over the entire focal range of these lenses, but also make them compact and easy to handle.

Four-group Curvilinear Movement on a Zoom Lens (SMC Pentax-A Zoom 28mm f/3.5—80mm f/4.5)

