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## SIGMA LENS BOOK

## SIGMA

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#### CONTENTS

- 3) Changing lenses . . . It gives you a new perspective on the world.
- 5) Today the zoom lens is at the heart of the interchangeable lens system.

7) Choosing the lens that's best for you
— it depends on the subject you are

photographing.

 Focal length range, lens brightness and compactness — these are the three most important factors in selecting your lens.

11) Sigma's advanced optical quality technology and design that makes a

difference.

13) Lenses to match your view . . . a
Zoom lens, a Fish-Eye lens, a Super
Telephoto Lens and more.

15) Dynamic image creativity and increased depth of field — the Super Wide Sigma 21-35mm f3.5-4 zoom.

17) The zoom lens, it's always on your camera for quick response, unlimited shooting versatility — the Sigma One-Touch Zoom Master 35-70mm f2.8-4, and 28-85mm f3.5-4.5 Wide to Tele Macro Zoom.

21) Now capture those wide scenic landscape, and one-of-a-kind travel memories, with one multi purpose zoom—the Sigma One Touch Travel Macro Zoom 35-105mm f3.5-4.5 and The New 35-135mm f3.5-4.5.

25) The telephoto zoom . . . it captures the most natural expressions you've ever seen — the Sigma One Touch Mini Tele-Macro Zoom 70-210mm f4.5 and High Speed A.M.L. Macro Zoom, 80-200mm f3.5-4.

29) You have the whole world in your hands, even when its far away — the Sigma High Power Tele-Zoom 70-250mm f3.5-4.5 and 75-300mm

f4.5-5.6.

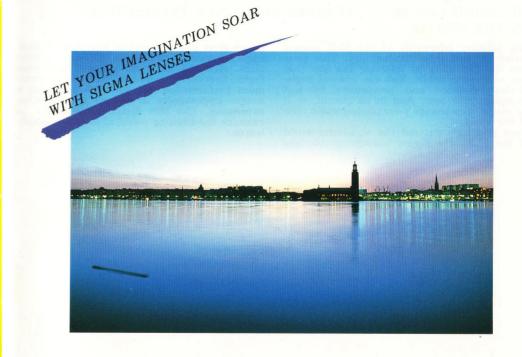
33) Change the view to instantly fit your imagination — the Sigma Circular Image Fish-Eye 8mm f4, and Full Frame Fish-Eve 16mm f2.8.

37) Beautiful out-of-focus ring fill the background — just part of the fantastic image creativity made possible by mirror optics — the Sigma Mirror 400mm f5.6, 600mm f8 and 1000mm f13.5.

41) Add a rear lens converter and double your image creativity — the Sigma 2X Tele-Macro Lens Converter.

43) Change the angle-of-view, change the perspective, and change your impression of the world.

45) Sigma Lenses Specification Chart



## CHANGING LENSES . . . IT GIVES YOU A NEW PERSPECTIVE ON THE WORLD.

The primary advantage of the SLR camera system is lens interchangeability. This gives you the flexibility of selecting the lens that best suits your needs. You can control angle-of-view, distance and perspective by just changing your lens. And in an instant, as if by magic, you change your photographic view of the world.

Once you have entered the wonderful world of the SLR, the Sigma interchangeable lens

group gives you the widest selection of wide angle, standard, telephoto, fish-eye, mirror ultra telephoto and macro lenses to choose from. Every Sigma quality lens offers maximum performance and provides you with a unique opportunity to expand your creative expression. Use this Sigma Lens Guide to examine the exciting world of interchangeable lenses.



#### TODAY, THE ZOOM LENS IS AT THE HEART OF THE INTERCHANGEABLE LENS SYSTEM.

More and more, today's 35mm SLR camera owners are discovering that their most practical lens choice is a zoom lens. The shooting mobility and flexibility of composition of the zoom lens far exceeds that of a multiple combination of fixed focal length lenses. The Sigma Double Zoom System, for example, covers wide angle, standard and telephoto

capabilities. The Sigma Triple Zoom System expands those capabilities to cover true super wide angle, standard to medium telephoto and super telephoto with just three lenses. And by adding such special effects lenses as the Sigma Fish-Eye or Mirror Ultra Telephoto you can build the ideal SLR lens system with a minimum number of lenses.









#### CHOOSING THE LENS THAT'S BEST FOR YOU -IT DEPENDS ON THE SUBJECT YOU ARE PHOTOGRAPHING.

The subject you choose to photograph will determine the lens you need. Although there is no strict rule for lens selection, there are rule of thumb theories for making picture taking more convenient. For example, a telephoto lens with a focal length of over 200mm

is recommended for sports shots, while a 24/ 28mm range wide angle lens is recommended for group shots and wide scenics. Here are a few guidelines for selecting the right lens for a specific occasion.



CANDID SHOTS: Quick response is the key to selecting the lens is the key to selecting the lens that will let you capture that ex-citing, once-in-a-lifetime candid shot. The lens must be compact for fast handling and bright enough to be used under all lighting conditions. Our recommenda-tion for candid shots is the Sigma Zoom Master 35-70mm f2.8-4 One Touch Macro Zoom Lens.



PORTRAITS: To create the proper highlight for a personal portrait, it is best to have an out-of-focus background. Using the telephoto range and a wide open aperture is the ideal way to accomplish this.

Our recommendation for portraits is the Sigma Compact Tele 70-210mm f4.5 One Touch Macro Zoom Lens.



SPORTS: In most cases, the best choice for sports shots is a telephoto lens with a longer than 200mm focal length. And if it's a zoom lens, you can achieve perfect framing at any distance. Our recommendation for sports is the Sigma High Power Super Tele-photo 75-300mm f4.5-5.6 One

Touch Macro Zoom Lens.



35-70mm F2.8-4













SCENICS (1): If you are interested in capturing a wide expanse of scenic beauty with dramatic perspective, you need a super wide angle zoom lens. And at the super wide angle range, you can almost forget about having to

focus. Our recommendation for wide scenics is the Sigma Super Wide Angle 21-35mm f3.5-4.5 Macro Zoom Lens.



SCENICS (2): If you want to capture a distant subject or magnifying just the most exciting element in the scene, you need a telephoto range lens. At a telephoto range of over 135mm, you're already creating special effects by elimi-nating perspective and depth. Our recommendation for distant scenics or scenic close-ups is the Sigma High Power 70-250mm f3.5-4.5 One Touch Macro Zoom

#### FOCAL LENGTH RANGE, LENS BRIGHTNESS AND COMPACTNESS —

The design objectives for the ideal zoom lens are a wide zoom range, exceptional lens brightness and compactness. To satisfy all three of these objectives in a single lens is a complex task... because, in terms of optical design, these requirements may work against each other. Before you select a lens, it is wise to examine your own priorities, as well as your photographic requirements. If, for example, the lens will always be on your camera body, weight and size compactness are your first priority. If your needs demand a multi-purpose lens, a wide to tele wide zoom range is your first priority. There are two ways to evaluate zoom range:

- (1) Zoom Ratio divide the largest focal length by the shortest focal length of the lens:
- (2) Angle-of-View Change Ratio subtract the minimum angle of view from the maximum angle of view of the lens. The Zoom Ratio method is best for evaluating telephoto zoom lens and the Angle-of-View Change Ratio is best for wide to telephoto zoom lenses.



## THESE ARE THE MOST IMPORTANT FACTORS IN SELECTING YOUR LENS.



• LENS BRIGHTNESS

• COMPACTNESS

## SIGMA'S ADVANCED OPTICAL QUALITY — TECHNOLOGY AND DESIGN THAT MAKE A DIFFERENCE.

In terms of ultra precise technology, lens production clearly leads the way. And through creative design originality and pioneering efforts in the development of new lens technology, Sigma has earned a worldwide reputation as the quality lens specialist.

Here are just some of the advantages Sigma lenses offer, thanks to this advanced technology:

• Every Sigma lens is compact and lightweight

for superior ease of operation.

• Every Sigma lens offers clear, crisp sharpness, high contrast and magnificent color-

true images.

 A unique and convenient Sigma Non-Stop Macro System provides switch-free macro operation.

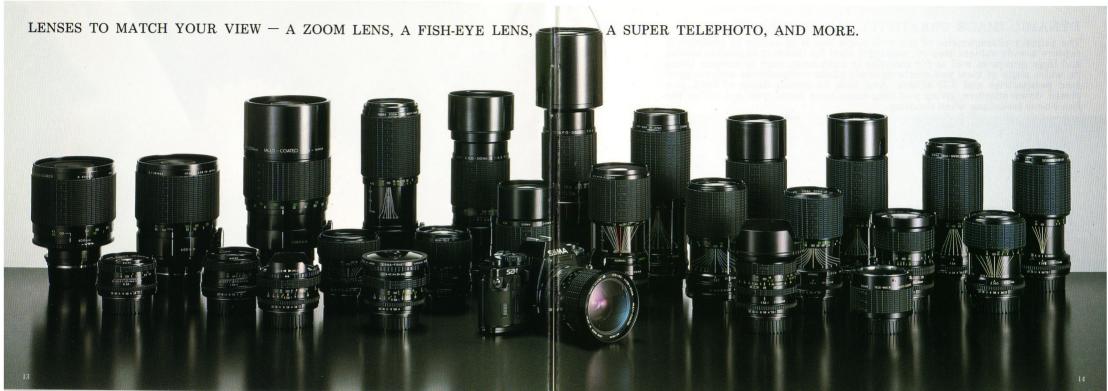
• Sigma's exclusive SYNC-II system custom matches the operating direction of the Sigma lens focusing and aperture ring so that it rotates in the same direction as that of the camera you own.

• A totally reliable and accurate Sigma fixed mount system perfectly matches every Sigma lens with virtually every camera's









#### DYNAMIC IMAGE CREATIVITY AND INCREASED DEPTH OF FIELD

The primary characteristic of the wide angle lens is its ability to completely capture a wide subject area . . . making it ideal for shooting expansive scenics and large groups as well as for shooting in tight areas, such as indoors. Using its wider angle of view you create dynamic photo compositions with exaggerated perspectives and 3-D effects. And with its greater depth of field, at a closed down aperture, giving you long range zone focus, you can utilize the Pan-Focus technique when shooting.



## WIDE ZOOM



### The Sigma Super Wide 21-35mm f3.5-4 Macro Zoom

Before Sigma introduced this truly ultra-wide angle zoom, the widest range for wide angle zoom lenses was 24mm. The Sigma 21-35 is the world's first, and only, super wide angle zoom lens. It covers all four of the most important focal lengths — 21mm, 24mm, 28mm, and 35mm — in one lens. And with the 21mm to 24mm focal lengths, you can create exciting changes in perspective that were not possible before. Incorporating Sigma's unique floating element system, all types of aberrations are virtually eliminated throughout the entire 21mm to 35mm zoom range.

Lens construction: 11 elements in 7 groups • Angle of View: 92°~63°
Minimum focusing distance: 50cm • Magnification: 1:12.5 • Zoom and focus control: 2 rotating rings • Filter size: 67/72mm • Dimensions: 78mm dia. × 93.8mm long • Weight: 465g.

22 16 11 8 5.6 4 3.5

## THE ZOOM LENS, IT'S ALWAYS ON YOUR CAMERA FOR QUICK RESPO NSE, UNLIMITED SHOOTING VERSATILITY.— STANDARD ZOOM



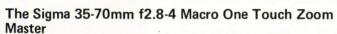
The Sigma 35-70mm and 28-85mm zoom lenses — both were designed to be the "standard" zoom lens. And either one is your perfect lens choice when you purchase your 35mm SLR camera. They cover the full range from wide angle to the basic 50mm (the range closest to that of the human eye) to medium telephoto. And with convenient, continuous macro focus capabilities you can take dramatic close-ups,



## STANDARD ZOOM







This standard range zoom covers the basic focal length range closest to the coverage of the human eye. Amazingly compact and offering one touch operation it assures quick response. With a surprisingly bright f2.8 aperture and covering the wide, standard and telephoto range, it provides much more creative versatility than any standard fixed focal length lens. This is the best zoom lens to start your SLR photography.

•Lens construction: 9 elements in 9 groups •Angle of View:  $63^{\circ} \sim 34^{\circ}$ •Minimum focusing distance: 50cm •Magnification: 1:6.7 •Zoom and Focus control: One Touch •Filter size: 52mm •Dimensions: 65.5mm dia × 63mm long •Weight: 368g



#### The Sigma 28-85mm f3.5-4.5 Wide to Tele Macro Zoom

This Sigma zoom lens offers the special advantage of wide angle, deep depth-of-field and exaggerated perspective, at the 28mm range. With an angle-of-view coverage change of a remarkable 46 degrees it takes you from the fantastic wide angle world to the sensitive portrait range, making it the perfect range for creative images. And it features Sigma's Non-Stop Macro capability too.

Lens Construction: 15 elements in 10 groups • Angle-of-view: 75°~29°
 • Minimum focusing distance: 50cm • Magnification: 1:5.5 • Zoom and Focus control: 2 rotating rings • Filter size: 67mm • Dimensions: 70mm dia. × 81.5mm long • Weight: 490g

## NOW CAPTURE WIDE SCENIC LANDSCAPES AND ALL OF THOSE TRAVEL- MEMORIES WITH ONE MULTI-PURPOSE ZOOM.— MULTI ZOOM



For traveling light, or for any shooting occasion where you don't want to carry heavy equipment, the Sigma One Touch Macro Travel Zoom 35-105mm f3.5-4.5 and the wide to Tele Macro Zoom 35-135mm f3.5-4.5 are the ideal lenses. With a wide angle of view range and a more than three time zoom power ratio it offers amazing versatility. And its exceptional compactness gives you the mobility you need for every travel occasion. When you want to carry just one lens with your camera, the Sigma 35-135mm or 35-105mm Zoom is the answer.



## **MULTI ZOOM**





#### The Sigma 35-105mm f3.5-4.5 Travel Macro Zoom

The focal range from 35mm to 105mm is ideal for every travel photo occasion. Sigma's 35-105mm is perfect for photographing from wide angle landscapes and medium range street scenes to telephoto portraits and macro closeups. And Sigma triple cam drive delivers this superior performance while weighing only 423g and measuring just 64mm wide by 88.5mm long.

With just touch of a button you can enter the macro world. Its compact body enables you to carry with ease.

•Lens construction: 10 elements in 10 groups •Angle of view: 63-23 •Minimum Focusing distance: Normal 1.6m Macro 30cm •Magnification: 1:4.5 •Zoom and Focus control: One Touch •Filter size: 55/62mm •Dimensions: 64mm dia, × 88.5mm long •Weight: 423g





## The New Sigma 35-135mm f3.5-4.5 Wide to Tele Macro Zoom

Sigma's newest wide-to-telephoto zoom lens covers the range of five fixed focal length lenses in just one superb zoom lens. With one of the most compact bodies in this lens category, it measures only 64.5mm dia. × 92mm long. And weighs just 490g.

A quick focus system lets you focus from 1.8m to infinity with just a 100 degree rotation. Its quick responsiveness and mobility put it far ahead of all other wide-to-telephoto zooms.

Lens construction: 15 elements in 11 groups • Angle-of-view: 63° ~18°
• Minimum focusing distance: Normal 1.8m (Macro 75cm at 135mm)
• Magnification: 1:4 (Macro at 135mm) • Zoom and Focus control: One Touch • Filter size: 55mm • Dimensions: 64.5mm dia. × 92mm long
• Weight: 490g

#### A TELEPHOTO ZOOM CAPTURES HER MOST NATURAL EXPRESSIONS.



Highlighting your sharply focused subject by surrounding her with a beautiful soft focus background is an important technique for portrait photography. To properly accomplish this, a telephoto lens is a "must".

"must".
The 70mm or 80mm medium range telephoto provides the best camera to subject distance for getting really natural facial expressions. The 200mm range lets you shoot from a longer distance without being noticed, to capture completely uninhibited expressions. And a telephoto zoom lets you select the focal length that best suits your needs. In addition to portraits, the telephoto zoom lens is also excellent for scenics and tele-candids.



## MINI TELE ZOOM





#### The Sigma 70-210mm f4.5 Compact Macro Zoom

With the ideal 70-210mm zoom range, this is the "standard" telephoto zoom lens. Its compact slim body weighs only 530g, providing excellent mobility for action photography. The Non-Stop Macro feature gives you 1:3.5 magnification, without switching to macro, down to a 1m working distance. Image quality is equal to, or better, than that of a fixed focal length lens — throughout the entire zoom and aperture range.

• Lens construction: 12 elements in 9 groups • Angle-of-View: 34° ~11.5° • Minimum focusing distance: 1m • Magnification: 1:3.5 • Zoom and Focus control: One Touch • Filter size: 52mm • Dimensions: 64mm dia. X 130.5mm long • Weight: 530g





## The Sigma 80-200mm f3.5-4 A.M.L. Macro High Speed Zoom

This quick response zoom, with its large f3.5 aperture brings fast shutter speeds to the ideal zoom range. It is perfect for shooting high speed subjects as well as for indoor photography. And for beautiful portraits, you can create an out-of-focus background by shooting with a shallow depth of field at a wide open f3.5. And Sigma's unique A.M.L. (Achromatic Macro Lens) macro system provides a high degree of macro quality with a big 1:2 magnification

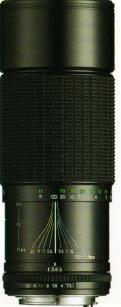
Lens construction: 12 elements in 8 groups ● Angle-of-View: 30°~12°
 Minimum focusing distance: Normal 1.5m Macro 60cm ● Magnification: Normal 1:6.2 Macro 1:2 ● Zoom and Focus control: One Touch ● Filter size: 52mm ● Dimensions: 66mm dia. × 132.5mm long ● Weight: 695g



For sports and nature photography, a focal length range of 250mm to 300mm is ideal. And even when shooting candids a powerful telephoto lens gives you fresh, new creative images. You can create a unique scenic shot with no depth of image or a super telephoto candid when your subject doesn't even know you have taken the picture. And Sigma's compact, lightweight Super Telephoto Zooms give you the mobility to take your camera with you wherever you go.



## TELE ZOOM





#### The Sigma 70-250mm f3.5-4.5 Macro High Speed Zoom

A high speed f3.5 telephoto zoom with 3.5X zoom power. Sigma designed this high quality lens without compromising power, brightness or compactness. It is truly a superb quality close focus zoom lens.

•Lens construction: 12 elements in 9 groups •Angle-of-View: 34° ~10° •Minimum focusing distance: Normal 2m, Macro 95cm at 250mm •Magnification: 1:2.5 (Macro at 250mm) •Zoom and Focus control: One Touch •Filter Size: 62mm •Dimensions: 68mm dia. X 145mm long •Weight: 812g





## The New Sigma 75-300mm f4.5-5.6 Macro Super Tele Zoom

One of the longest range telephoto zooms in the Sigma zoom series. With 4X zoom power, it covers the full telephoto range, from 75mm medium tele all the way up to 300mm super telephoto. And as a result of Sigma's exclusive Triple-Cam-Drive design, it weighs only 640g and takes a 55mm filter. The Non-Stop Macro feature provides 1:4 macro magnification, down to a 1.5m working distance without switching to macro.

•Lens construction: 13 elements in 10 groups •Angle-of-View: 32° ∼8° •Minimum focusing distance: 1.5m •Magnification: 1:4 •Zoom and Focus control: One Touch •Filter size: 55mm •Dimensions: 66mm dia. X 136mm long •Weight: 640g

#### CHANGE THE VIEW TO INSTANTLY FIT YOUR IMAGINATION.



Changing lenses changes your point of view of the world. The fantastic out-of-this-world, 180° angle of view you get with the fish-eye lens will quickly convince you of that. Experience this kind of photographic excitement with your SLR camera and a Sigma Circular Image Fish-Eye or Full-Frame Fish-Eye Lens. Both offer a 180° angle of view and Sigma's traditional compact design.







#### The Sigma Circular Image Fish-Eye 8mm f4

Change your lens, and you change your view of the world. And nowhere is this truer than with the exciting Sigma Fish-Eye lens. The Sigma 8mm Fish-Eye is a circular image fish-eye, bringing a 23mm circular image of its 180 degree angle-of-view coverage into your picture frame. The most compact lens of its type, it features an easy, flexible, bayonet lock filter changing system.

Lens construction: 11 elements in 7 groups (includes 1 filter)
 Angle-of-View: 180°
 Minimum focusing distance: 20cm
 Filter size: 22.5mm
 Dimensions: 68.5mm dia. X 58mm long
 Weight: 250g



## The Sigma Full-Frame Fish-Eye 16mm f2.8

While the Circular Image Fish-Eye gives you a circular image picture, this 16mm Fish-Eye gives you a full frame picture of its 180 degree angle of coverage. With this Fish-Eye lens you can create special effects and because its unique design creates less distortion, you can use it just as you would use an ordinary lens. Featuring an amazingly bright f2.8 aperture, it is very compact, and offers the same easy, bayonet lock filter change system as the 8mm Fish-Eye lens.

•Lens construction: 9 elements in 8 groups (includes 1 filter) •Angle-of-View: 180 •Minimum focusing distance: 15cm •Filter size: 22.5mm •Dimensions: 66mm dia. x 50mm long •Weight: 305g



#### BEAUTIFUL, OUT-OF-FOCUS RING EFFECTS FILL THE BACKGROUND -

Just part of the fantastic image creativity made possible by mirror optics.

The Sigma series of mirror telephoto lenses feature the Catadioptric (CAT) type mirror optics . . . and even though they are ultra telephotos that are extremely compact and lightweight. A photograph with a background of out-of-focus ring—like shapes, created by the highlight reflections picked up by the mirror optics brings a fantasy world to life.



## -MIRROR LENS





The Sigma 400mm f5.6 lens is a super compact Catadioptric type mirror lens designed for taking fantastic ultra-telephoto shots. Unlike conventional mirror lenses, however, it features an amazingly bright f5.6 aperture to give you ideal fast shutter speed. And it weighs a surprisingly light 550g.

A unique rear slot filter drawer system makes filter changing fast and easy. And its special macro capability gives you 1:4.3 magnification at 2m.

•Lens construction: 7 elements in 7 groups •Angle of view: 6°•Maximum Aperture: Fixed f5.6 •Minimum focusing distance: 2m •Magnification: 1:4.3 •Filter size: 30.5mm (rear) 86mm (front) •Dimensions: 92mm dia. × 111.5mm long •Weight: 550g

38

## MIRROR LENS





#### The Sigma Mirror 1000mm f13.5

With an angle of view of just 2.5° and an image magnification power of 20x that of a standard 50mm lens, you have the ability to bring that far distant subject right into your picture. Just as if it were right next to you. This is the world of the 1000mm Ultra Telephoto that you have always dreamed about. And even with such optical power, the Sigma 1000mm is ultra-compact, measuring just 92mm in diameter and 186.5mm in length; and weighing just 1050g. To give you the same mobility as a conventional 300mm telephoto lens.

•Lens construction: 6 elements in 6 groups •Angle-of-view: 2.5° •Maximum aperture: fixed f13.5 •Minimum focusing distance: 5m Magnification: 1:4.6 • Filter size: 30.5mm (rear)/86mm (front) •Dimensions: 92mm dia, × 186.5mm long •Weight: 1,050g



#### The Sigma Mirror 600mm f8

The perfect Ultra-Telephoto lens to bring that exciting, long distance subject right into your picture. It features exceptional mobility, a quick and easy filter change system, and amazing macro capability. Like all other Sigma mirror lens series, it provides crystal clear image quality made possible by its special silver coated mirror system.

•Lens Construction: 6 elements in 6 groups •Angle-of-view: 4° •Maximum Aperture: fixed f8 •Minimum focusing distance: 2m •Magnification: 1:3 •Filter size: 22.5mm (rear) 86mm (front) •Dimensions: 92mm dia. X 121.1mm long •Weight: 753g



When you want to limit the number of lenses in your system or you don't want to take too many lenses with you on a trip, the rear lens converter is the answer. By simply attaching the converter to the rear of your prime lens, you can double its focal length and image magnification — within the same minimum focusing distance. And just as with your other interchangeable lenses, it is fully compatible with your camera's automatic exposure control system.







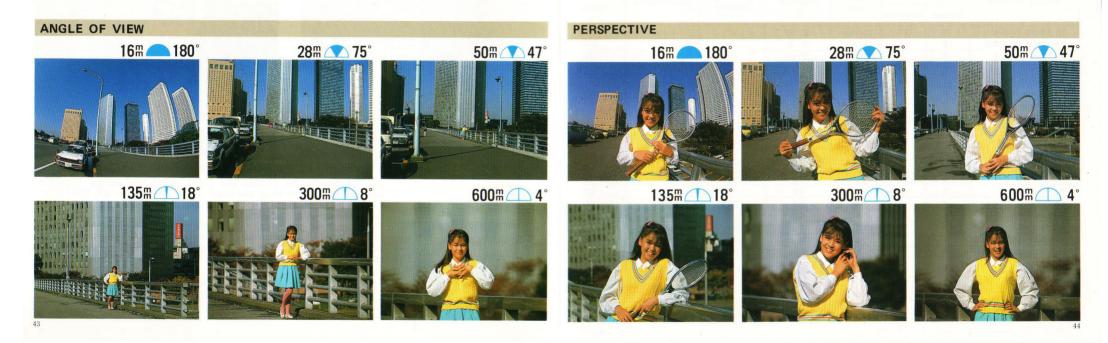
#### The Sigma 2X Tele-Macro Converter

All 2X converters double the focal length and image magnifica-tion of the lenses they are used with. The Sigma 2X Tele-Macro Converter, however, also becomes an automatic extension tube for close-up micro photography.

For example by attaching the Sigma 2X Tele-Macro Converter to a Sigma 35-70mm lens (1) it becomes a 70-140mm telephoto zoom lens; (2) it doubles the magnification of the lens within the same working distance; (3) it becomes a 1:1 life size magnifica-

tion micro lens. •Lens construction: 6 elements in 5 groups •Aperture coupling range:  $f1.4^{\sim}32$  •Focal length: 2X of front attached lens (with internal lens unit as 2X converter) •Magnification:  $43.2 \div$  Focal length of front attached lens (when used as extension tube without lens unit) •Dimensions: 60mm dia.  $\times$  43.2mm long •Weight: 180g





SIGMA LENSES	Lens Construction		Angle of	Minimum Aperture	Minimum Focusing	Magnification	Filter Size	Dimensions Dia. x Length	Weight
	Groups	Elements	view	(F)	Distance (cm)	maginification	(\$\psi\$mm)	(φmm) x (mm)	(g)
21-35mm F3.5-4	7	11	92°-63°	22~27	50	1:12.5	67/72	78.0×93.8	465
* 28-85mm F3.5-4.5	10	15	$75^{\circ}$ - $29^{\circ}$	22 - 32	50	1:5.5	67	70.0×81.5	490
* 35-70mm F2.8-4	9	9	63°-34°	22~32	50	1:6.7	52	65.5×63.0	368
* 35-105mm F3.5-4.5	10	10	$63^{\circ}$ - $23^{\circ}$	22~32	160* (30)	1:4.5	55/62	64.0x88.5	423
* 35-135mm F3.5-4.5	11	15	63°-18°	22~32	180* (75)	1:4	55	64.5×92.0	490
70-150mm F3.5-4	8	12	34°-16°	22 - 27	150* (58.5)	1:5.5* (1:2.7)	52	64.0×105.5	538
* 70-210mm F4.5	9	12	$34^{\circ}$ -11.5 $^{\circ}$	22	100	1:3.5	52	64.0x130.5	530
* 70-250mm F3.5-4.5	9	12	$34^{\circ}$ - $10^{\circ}$	22~32	200* (95)	1:2.5	62	68.0×145.0	812
* 75-300mm F4.5-5.6	10	13	32°-8°	22~27	150	1:4	55	66.0×136.0	640
* 80-200mm F3.5-4	8	12	30°-12°	22~27	150* (60)	1:6.2* (1:2)	52	66.0×132.5	695
8mm F4	7	11	180°	22	20	_	22.5 (Built-in)	68.5×58.0	250
16mm F2.8	8	9	180°	22	15	_	22.5 (Built-in)	66.0×50.0	305
18mm F2.8	9	11	100°	22	25	1:8	67	74.0×70.5	325
24mm F2.8	7	7	84°	22	18	1:4	52	64.0×38.5	165
28mm F2.8	6	7	75°	22	22	1:4.5	52	64.0×45.5	219
300mm F4.5	6	8	8°	22	250	1:8	67	74.0×193.0	935
400mm F5.6	5	7	6°	22	300	1:7.2	72	79.5×263.0	1,115
* MIRROR 400mm F5.6	7	7	6°	5.6 (fixed)	200	1:4.3	30.5/86	92.0×111.5	550
* MIRROR 600mm F8	6	6	<b>4</b> °	8 (fixed)	200	1:3	22.5/86	92.0×121.1	753
MIRROR 1000mm F13.5	6	6	$2.5^{\circ}$	13.5 (fixed)	500	1:4.6	30.5/86	92.0×186.5	1,050
2X Tele-Macro	5	6		Aperture control range: F1.4 ~ F32	and minimum of master lens	a rear converter, object, distance . When used as a = 43.2 ÷ focal ler	66.0×43.2	180	

● Sigma Lenses are available with mounts for Canon, Contax, Fujica, Konica, Minolta, Nikon, Olympus, Pentax K, Praktica, Ricoh, Rollel and Yashica. ● \* Leica mount is available. ● 2X Tele-Macro Extenders are available with mounts for Canon, Konica, Minolta, Nikon, Olympus, Pentax K and Praktica cameras. ● All Sigma Lenses and Tele-Macro Extenders provide full meter coupling and auto exposure coupling. ● Design and specification subject to change without notice.

Dimensions and weight are given with K mount included.