

ZENZA **BRONICA**

**ETRsi**

**6x4.5**

*Advanced Bronica technologies for new imaging horizons!*









# ZENZA BRONICA ETRSi— BASED ON A VIVID AND IMAGINATIVE CREATIVE CONCEPT.

**Exactng Details for Sharp Depictions  
with Superior Image Reproductions.  
For New Possibilities in Image Presentations.**

The ETRSi fulfills the idealistic requirements of serious photographers looking for more vivid image reproductions. Extremely fine details and subtle nuances are all conveyed to the film. The  $6 \times 4.5$ cm size negative frame, which is about 2.7 times larger than the 35mm format, makes possible superb image quality, while the large-size viewing screen contains all vital information. This especially makes the format a valuable one for the professional photographer. The superior depiction of the ETRSi greatly increases the scope of the photographer in the pursuit of new image expressions.

**Extremely Satisfactory Photography,  
with a Compact Design Emphasizing  
Great Handling Ease.**

Creative picture-taking can not take place, even when the powers of expression are rich if there are too many limitations placed on the photographer. In the case of the ETRSi however, special importance has been placed on this point and there is a high degree of system flexibility. Not only has a compact and light-weight camera been developed, based on Bronica's exclusive lens shutter system, but Bronica has advanced the use of electronics in various sophisticated functions, resulting in enhanced precision. And, the pursuit of greater holding stability has also lead to an improvement in handling ease. Furthermore, the very flexible "system" design of the ETRSi, in which lenses, finders, film backs and focusing screens can be freely exchanged, as well as a full range of valuable accessories makes it possible to customize the "system" to match the user's intention in picture-taking. These versatile functions in a very compact camera have been successful in greatly increasing the creative freedom in photography.

**Technology is the Creative Power and the  
Basis of the Bronica Technical Concept.**

Image presentations of the highest quality has been the consistent goal of Bronica. It is also the reason for pursuing the large negative frame size, such as the SQ Series in the  $6 \times 6$ cm format, the GS-1 in the  $6 \times 7$ cm format and now the  $6 \times 4.5$ cm format of the ETRSi. By adding greater handling ease to the medium format camera, which already boasts superior powers of portrayal, even more varied image presentation are now possible. And, to attain such high goals, no technical effort has been spared. This is a concept born from Bronica's basic thinking, that the creative power of the photographer is the most important element and must be extended as much as possible with the assistance of modern technology.



# EVOLUTIONARY MULTI-FORMAT ZENZA BRONICA ETRSi— A FUSION OF QUALITY AND FLEXIBILITY AT THE HIGHEST LEVEL.

## **Complete System Flexibility—Based on Bronica's Advanced Design Concept.**

For a more distinct expression of the photographer's intentions, there is coexistence of high image quality with the superior power of portrayal of the 6×4.5cm size along with excellent handling ease.

This design concept is present with the ETRSi. An extremely high system capability has been attained, in which it is possible to choose a camera system suited for the photographer's individual purpose, by simply combining various system accessories with the main camera body. This has been made possible by a complete fusion of technical knowledge gained by Bronica through thirty years as an exclusive maker of medium precision format cameras and the most advanced electronic technologies.

## **Exceptional Images, with Professional Quality Zenzanon-PE Lenses.**

The Zenzanon-PE series lenses are based on the original design technology of the Zenzanon-PG lenses (GS-1; 6×7) and Zenzanon-PS lenses (SQ-Ai; 6×6), which are already noted as being among the sharpest in the world. The Zenzanon-PE lenses also take full advantage of MTF\* technology in their design, and have overall improvement in optical performance, such as resolving power, contrast, etc. Bronica's exclusive multi-layer coating increases optical transmittance, while further suppressing ghost and flare. Matched color

fidelity and unadulterated color balance are faithfully conveyed from the original image. The electronically controlled Seiko #0 lens shutter offers exacting shutter speed capability from lens to lens, as the timer is in the camera body.

In addition, the shutter synchronizes at all speeds up to 1/500 sec. Now, the ultimate in state of the art lens quality is available for each of the proven camera systems.

\* Modulation transfer function

## **Complete Finder Interchangeability for a Wide Variety of Image Expressions.**

There is complete finder interchangeability to match requirements for a wide variety of image expressions, such as waist-level or eye-level view-focusing, even low angle shooting. Also available, aperture-priority auto-exposure with TTL-metering with the AE-II Prism Finder E, which, together with the great handling ease of the ETRSi, vastly increases the scope of image expressions possible. Manual exposure control is also present, thus providing the greatest freedom in overall image creativity.

## **Film Back Interchangeability Provides Multi-Format Capability.**

Film back interchangeability makes possible the handling ease and wide variety of image expressions of the ETRSi. With one-touch exchanges, film type and frame size can match the photographic purpose or conditions. And, there is complete freedom in film back exchanges, even midway in the roll, or in daylight, all without limitations, while mistakes are also effectively prevented.

## **Lightweight Motor Winder System for Very Fast Shooting Actions.**

Simple, fast film winding operations makes it possible to concentrate on the subject, when following fastbreaking actions, with fast shooting action and handling ease greatly improved in the new, lightweight Motor Winder Ei.





**Varied New Mechanism for Greatly Enlarging the Scope of Image Expressions.**

One of the main characteristics of the medium format camera is the varied image expressions. Full of originality, these image can be obtained by utilizing the many photo technics which are available, such as multiple exposures, etc. Thus, in addition to the high image quality of the ETRSi, it is possible for the photographer to enjoy the full attraction of the medium format camera with varied new mechanisms.

**Designed with SCA System Compatibility for TTL Auto-Flash Operations.**

Because of the importance of flash photography for both professionals and advanced users, Bronica has developed an exclusive

C.C.C. (Current Control Center) System for auto-flash operations, based on direct metering at the film plane, when coupled to SCA System electronic flash units from Metz (Mecablitz) of West Germany. The SCA System becomes effective when the SCA System Adapter (386) is used and also provides ready-flash signal and auto-checking confirmation in the viewfinder area.



**Mechanical Shocks Minimized and Mirror Lock-Up Incorporated for Use in Precision Photography.**

Mechanical shock has been greatly reduced, by eliminating mechanical vibrations, while vibrations due to the reflex mirror action has been eliminated with a new mirror lock-up system. Vibration-free picture-taking is ideal when using a slow shutter speed, taking long telephoto shots and close-ups.

**Multiple Exposure Lever for Unique Image Expressions as Possible Only in the Medium Format.**

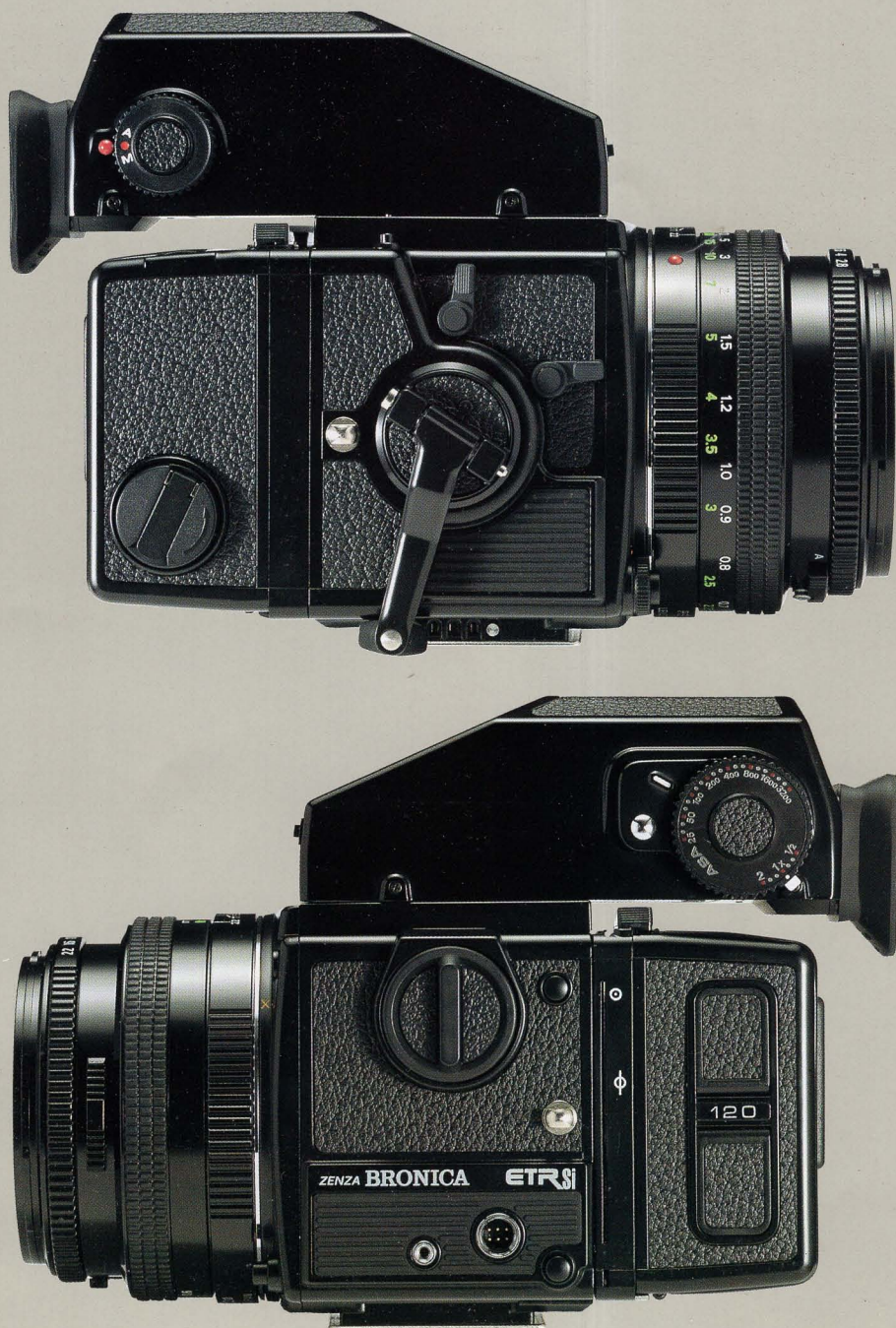
Multiple exposures, in which two or more exposures are made on the same frame, is an unique photographic effect which is most effective in the medium format because of the high image quality and large negative area. The multiple exposure lever of the ETRSi is not only easy to use but a red warning signal appears in the finder when in use, to avoid mistakes.

**Long Time Exposures for Producing New Images — with a New Bulb Mechanism.**

Long shutter speeds can be set freely, to match the intentions of the user, thus increasing the possibilities for producing new image expressions. Long time exposures can be used for photographing merchandises, for producing unique photo images, or for special photographic effects coupled to the electronic flash, which means that new photo technics are possible with the ETRSi.

**System Flexibility with a Full Range of Versatile Accessories.**

The ETRSi is based on the "system" design, with lenses, finders, film backs, winders, etc., used, as required, in combination with the main camera body for producing the "system" camera required by the user. And, a full range of versatile accessories are also available for extending the "system" camera to match photographic requirements.





# FINDER INTERCHANGEABILITY — THE INTERFACE BETWEEN IMAGE AND EXPRESSIONS.



## Satisfactory Image Expressions Start with Finder Selection.

Proper finder selection is the starting point in picture-taking. The choice of a suitable finder is an important factor for obtaining a satisfactory image. And, Bronica has developed a versatile finder system which meets the varied needs of the photographer. Auto-exposure or manual exposure control, different shooting angles and positions, etc., are all possible with a complete line of interchangeable finders, such as the exclusive AE prism finder, versatile rotary viewfinder, waist-level finder and prism finder. All can be used very simply with single-action attachment/detachment. And, the handling ease of the ETRSi for matching the photographic situation is increased when the proper finder is used.

## AE-II Prism Finder E— for Aperture-Priority TTL Auto-Exposures.

The Bronica AE-II Prism Finder E is a prism View-finder system with a choice of aperture-priority AE or manual exposure controls and shows a laterally-correct upright and bright finder image. Shutter speed and over/under-exposure warnings are displayed inside the finder, thus providing accurate shooting data at all times.

### Specifications of the AE-II Prism Finder E

**Magnification:** 0.82X with standard 75mm lens

**Finder field:** 40.6 × 51.6mm (96% × 94%)

**Exposure measurements:** TTL full aperture, with 2 silicon photocells; full area average reading; EV4 ~ 17 (at ASA/ISO 100)

**Film speed range:** ASA/ISO 25 ~ 3,200

**Shutter speed range:** 8 ~ 1/500 sec. (in stageless steps on Auto)

**Exposure compensations:** Over- and under-exposure adjustments possible up to one EV.

**Finder indications:** Color-coded LED digital display of shutter speeds in yellow (8 ~ 1/30 sec.), green (1/60 ~ 1/500 sec.) and red (over- and under-exposure warnings) below screen area, with half-stroke of shutter release button.

**AE dial:** A (Auto)—AE circuit automatically controls shutter speed, with LED display in finder; M (Manual)—AE and body control circuits operate independently, with blinking LED display of recommended shutter speed; ● (Off)—AE circuit is switched off and body control circuit only is in operation, without any finder display.

**Power source:** The 6 volt battery in the camera body is also used as the power source for the finder.

**Magnifier:** — 1.5 dptr supplied; can be exchanged for magnifier in — 4.5 to +1.5 dptr range.

**Size:** 82.5(W) × 125(L) × 53(H)mm with eyecup attached

**Weight:** 380 grams

## Rotary Finder E— for Multiple Shooting Angles.

Eyepiece rotates 90° to the left and right for reflex viewing in both horizontal and vertical formats, with an easy-viewing bright, upright image which is laterally correct. This also makes the Rotary Finder E ideal for low-angle shooting.

### Specifications of the Rotary Finder E

**Magnification:** 0.81X with standard 75mm lens

**Finder field:** 40.6 × 51.6mm (96% × 94%)

**Eyepiece adjustment:** 180° rotation, with click stops at 90° to left/right from the vertical

**Magnifier:** — 1.5 dptr supplied; can be exchanged for magnifier in — 4.5 to +1.5 dptr range

**Size:** 68(W) × 114(L) × 105.5(H)mm with eyecup attached

**Weight:** 448 grams







### All-Round Eye-Level Viewing — with the Prism Finder E.

Lightweight, compact finder with eye-level view-focusing is highly suited for quick camera work, as well as general composition. The bright, laterally-correct and upright image makes it an ideal finder for following fast-breaking actions, as well as converting the ETRSi into an "action" camera.

#### Specifications of the Prism Finder E

**Magnification:** 0.82X with standard 75mm lens

**Finder field:** 40.6 × 51.6mm (96% × 94%)

**Magnifier:** -1.5 dptr supplied; can be exchanged for magnifier in -4.5 to +1.5 dptr range

**Size:** 68(W) × 125(L) × 52(H)mm with eyecup attached

**Weight:** 277 grams



### Waist-Level Finder E — for General Purpose Reflex Viewing.

Compact waist-level finder has single-action hood plus flip-up magnifier for critical focusing action. A very easy-to-use finder for general composition work, as well as low-angle shooting, close-ups and copying work.

#### Specifications of the Waist-Level Finder E

**Magnification:** 1.15X with standard 75mm lens; (Magnifier magnification is 3.85X)

**Magnifier:** -1.5 dptr supplied; can be exchanged for magnifier in -4.5 to +1.5 dptr range

**Size:** 69(W) × 63(L) × 17(H)mm

**Weight:** 100 grams

### Focusing Screen Ei — Available in 8 Interchangeable Types.

Eight types of focusing screens are available for the ETRSi and can be interchanged on the basis of the lens, film back and picture-taking conditions. Exchanges are done quickly with a simple, single-action operation.

#### Microprism/Horizontal Split-Image

Horizontally-oriented split-image is surrounded by microprism ring, which makes it ideal for a wide range of view-focusing work. For general uses.

#### Microprism/Diagonal Split-Image

Diagonally-oriented split-image is surrounded by microprism ring and, therefore, suitable for subjects with horizontal lines. Also, suitable for general work.

#### Split-Image

Central split-image spot is horizontally oriented. For general uses.

#### Microprism

Focusing with central microprism spot and surrounding matte area. For general uses.

#### All Matte (Standard)

Full matte area screen shows very clear and bright image, which is ideal for portraits and sports shots, as well as convenient for long focal length lenses.

#### Grid-lines/Matte

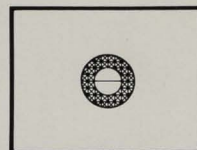
Full matte area screen with overall grid-lines, is ideal for very accurate composition work. For use in copying work and close-ups.

#### Microprism/Split-Image (135)

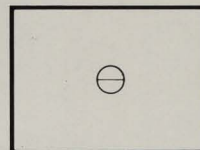
Split-image with microprism ring has frame lines for use with Film Back E 135 (wide and normal frames).

#### All Matte (135)

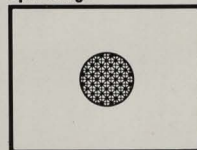
Full matte area screen also has frame lines for use with Film Back E 135-N and 135-W.



Microprism/Horizontal Split-Image



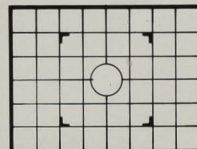
Split-Image



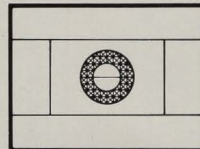
Microprism



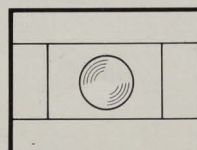
All Matte (Standard)



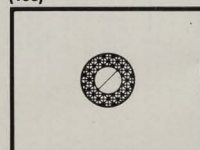
Grid-lines/Matte



Microprism/Split-Image (135)



All Matte (135)



Microprism/Diagonal Split-Image



# BRONICA'S EXCLUSIVE BACK-UP SYSTEM — INCREASES HANDLING EASE AND SAFETY IN MEDIUM FORMAT PHOTOGRAPHY

## Speedy-Action Back-Up System Meets all Photographic Conditions.

The multi-format film back system is a Bronica tradition and provides complete freedom in frame sizes and film types, with single-action film back interchangeability at anytime. This makes it possible to instantly change formats or film type to meet constantly changing conditions in the field and in the studio. Changes from color to black-and-white or from negative to transparency, etc. is made very easily. And, frame sizes or film speeds can be changed, even in mid-roll. The built-in Bronica safety features protect the photographer from mistakes, during the rush of interchanging film backs, because the Bronica film back system has been designed to provide the user with simple, fast and safe film back interchangeability. Shooting action with the ETRSi is greatly enhanced by simply attaching the Motor Winder Ei. There is a substantial improvement in the speedy shooting action and handling ease of the ETRSi, without a corresponding increase in weight. This provides the ETRSi with handling ease almost equal to the 35mm camera and makes it suitable for a multitude of uses.

## Safe Film Back System

The ETRSi has a built-in dark slide safety system for complete protection when interchanging film backs. The film back is not detachable without first inserting the dark slide and the dark slide is not detachable from a film back once it has been taken off the main camera body. This safety interlock means that there is full protection against accidental exposures.



### Film Back Ei 120/220

Exclusive film backs for 120 and 220 roll films provide improved film flatness, with 15 exposures available on the 120 and 30 exposures on the 220, in the 6 × 4.5cm format.

### Film Back E 135-W

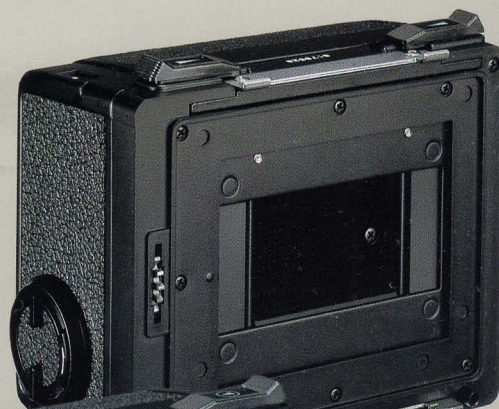
Exclusive film back for 135 roll film, with a horizontally wide frame area of 24 × 54mm, which is about 1.5 times the normal 35mm format.

### Film Back E 135-N

Exclusive film back for 135 roll film for taking pictures with a frame area of 24 × 36mm. A wide variety of films are available, from extremely fine grain to ultra high-speed.



Film Back-E 135-W



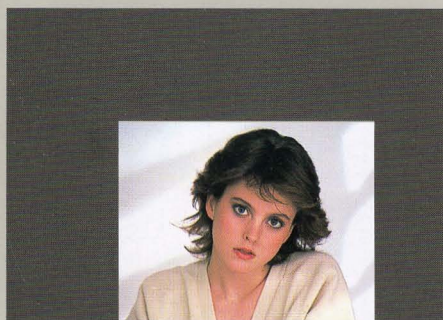
Film Back-E 135-N



Film Back-Ei 120



# GRAPHY.



## **Polaroid Film Back E— for Previewing Shooting Conditions.**

A very valuable film back for previewing photographic conditions. Developed with the Polaroid Corporation and highly suitable for checking lighting, composition and exposure, or the image expression, before taking the actual shot. Format is  $6 \times 4.5$ cm.



Polaroid Film Back E



## **Lightweight, Compact Motor Winder Ei— for Speedy Auto-Winding Operations.**

A lightweight, compact Motor Winder Ei has been newly developed by Bronica to provide the ETRSi with complete shooting "freedom" equalling that of the 35mm camera. Based on an extensive study of ergonomics, the Motor Winder Ei greatly improves fast shooting operations with the ETRSi and, at the same time, is very easily attached. And, there is complete electronic signal-synched controls for automatic winding and shutter cocking operations at all shutter speeds (even in the AE mode).

Also has release button, cable release socket and hot shoe. Can also be used with the ETRS.

## **Speed Grip E— for Fast, Manual Shooting Actions.**

The Speed Grip E improves holding stability in hand-held shooting and also makes shooting in the vertical and horizontal formats easy. The film winding lever provides fast handling and speedy shooting operations similar to the 35mm camera, with coincidental shutter cocking and film winding. Also, has hot shoe.



# SUPERB COLOR REPRODUCTION AND SUPERIOR SHARPNESS, WITH HIGH PERFORMANCE ZENZANON-PE LENSES.



## MTF-Based Optical Design; Bronica's Original Multi-Coating; Exceptional Optical Performance.

It is no exaggeration to say that lens quality is one of the key factors in determining the effectiveness of a camera system. The Zenzanon-PE lenses developed for the ETR, ETRC, ETRS, and ETRSi are based on a tradition of precision in optical design technology and exacting quality control, for the ultimate in performance to meet the strictest requirements of professional photographers everywhere. use of new state of the art assembly and Because of the design capability, including MTF-based optical design, there is an overall improvement in optical performance; resolving power, contrast, and an increase in optical transmission. Bronica's most advanced multi-layer lens coating provides that increased light transmittance, eliminating lens surface reflections and minimizes ghost and flare in "against-the-light", and other difficult lighting conditions. Furthermore, there is consistent color balance between each of the focal lengths of the Zenzanon-PE lenses, which provides more accurate fine color reproductions even with subjects that have very delicate or specific shades.

## Electronically Controlled Lens Shutter System. Flash Synchronization up to 1/500 Sec.

All Zenzanon-PE lenses incorporate an electronically controlled Seiko #0 lens shutter, which simplifies flash photography and provides the ultimate in control. The Seiko designed lens shutter system results in a more compact optic, while providing flash synchronization at all shutter speeds up to the fastest 1/500 second. From controlling ambient light with high-speed flash-work in the studio, to daylight fill-in flash for back-lit shots, the shutter speeds and apertures can be set without limitations. This simplifies accomplishing the exact balance between flash and continuous light sources. When used in TTL auto-flash operations with an SCA System electronic flash unit, very accurate flash exposure determination is possible.

### Zenzanon-PE 40mm F4

Particularly applicable for landscape, architectural and interior photography. Exaggerated perspective can be obtained, due to the wide angle of view and extreme depth of field that this lens offers.

### Zenzanon-PE 50mm F2.8

A fast wide-angle lens of exceptional image quality. Compact and easy to use.

### Zenzanon-PE 75mm F2.8

A fast, standard focal length lens offering needle-sharp definition. As the angle of view closely matches that of the human eye, the lens is aptly suited to convey a natural feel of the subject.

### Macro Zenzanon-PE 100mm F4

A true flat field macro lens with virtually zero distortion and precise resolving capabilities from center to edge of the film frame with a standard magnification of 1/8 (at a distance of about 1 meter), superb images are also rendered at infinity as well.

### Zenzanon-PE 150mm F3.5

Surprisingly compact. The lens is eminently suitable for use in portrait photography, sports, wildlife and commercial photographic applications.

### Zenzanon-PE 200mm F4.5

A moderate telephoto lens well suited to portraiture, landscapes, architectural detail and sports photography. The lens enhances the effect of separating the subject from its background, taking full advantage of depth compression.

### Zenzanon-PE 250mm F5.6

A true telephoto lens taking advantage of depth compression, separating the subject from the background for dramatic photographic impact.

### Zenzanon-EII 500mm F8

High performance optic with pronounced telephoto effect. For wild-life shots, sports, and nature at a distance photography.

### Zenzanon-PE 500mm F8

Two lens elements of low refractive index and low dispersion glass are used for thorough compensation of chromatic aberration which is common in telephoto lenses. And, a floating mechanism ensures high image quality and superior depiction, from the close focusing distance to infinity.

### Tele-Converter PE2x/PE1.4x

Designed with emphasis on the MTF theory and developed to maximize the superior capabilities of the Zenzanon-PE lens series. Not only increases focal length but increases image magnification without changing minimum focusing distance, actually increasing close-up capability.



Zenzanon-PE 40mm F4



Zenzanon-PE 50mm F2.8



Zenzanon-PE 75mm F2.8



Macro Zenzanon-PE 100mm F4





Zenzanon-PE 150mm F3.5



Zenzanon-PE 200mm F4.5



Zenzanon-PE 500mm F8



Zenzanon-PE 250mm F5.6



Zenzanon-EII 500mm F8

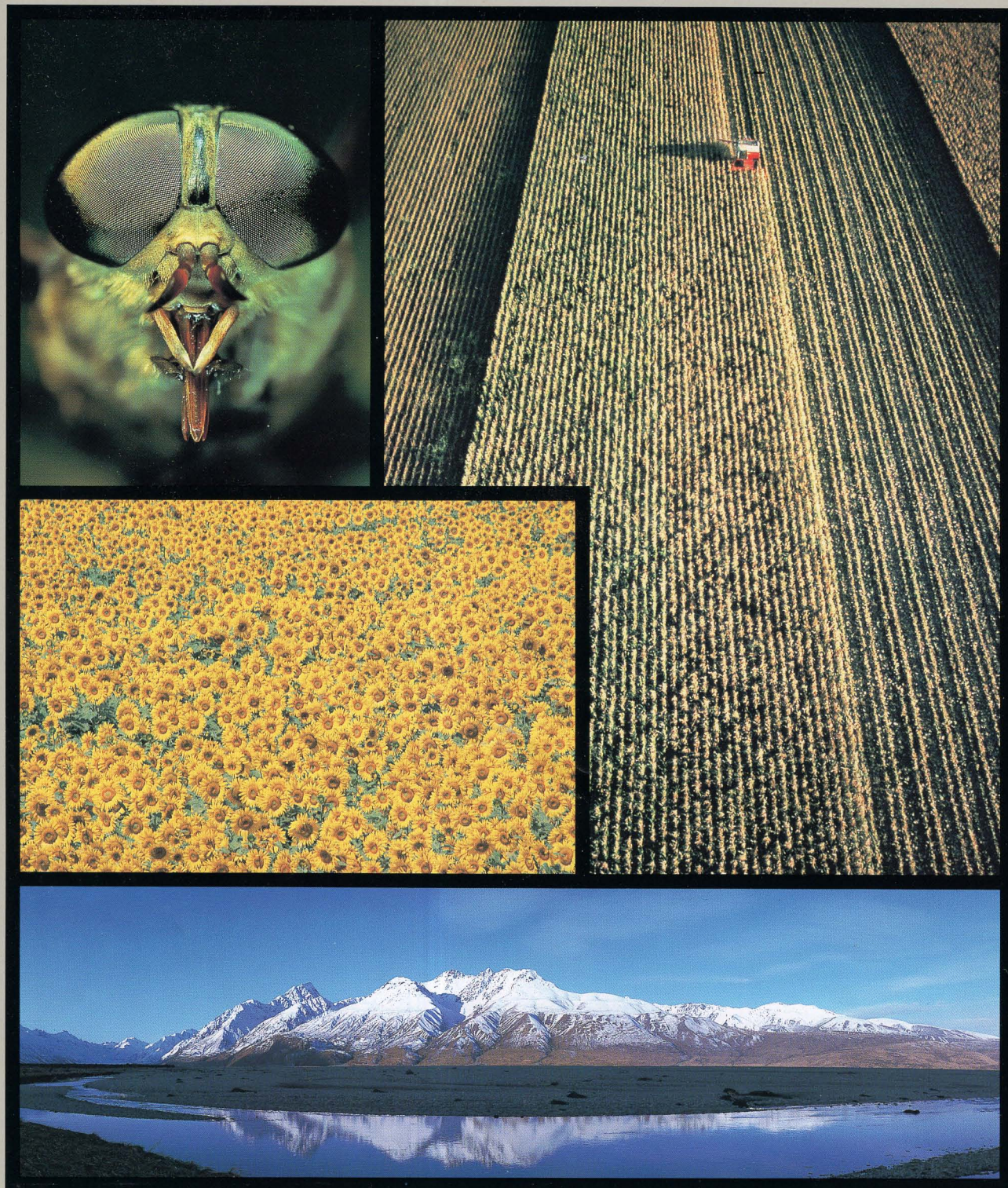


Tele-Converter PE 2X



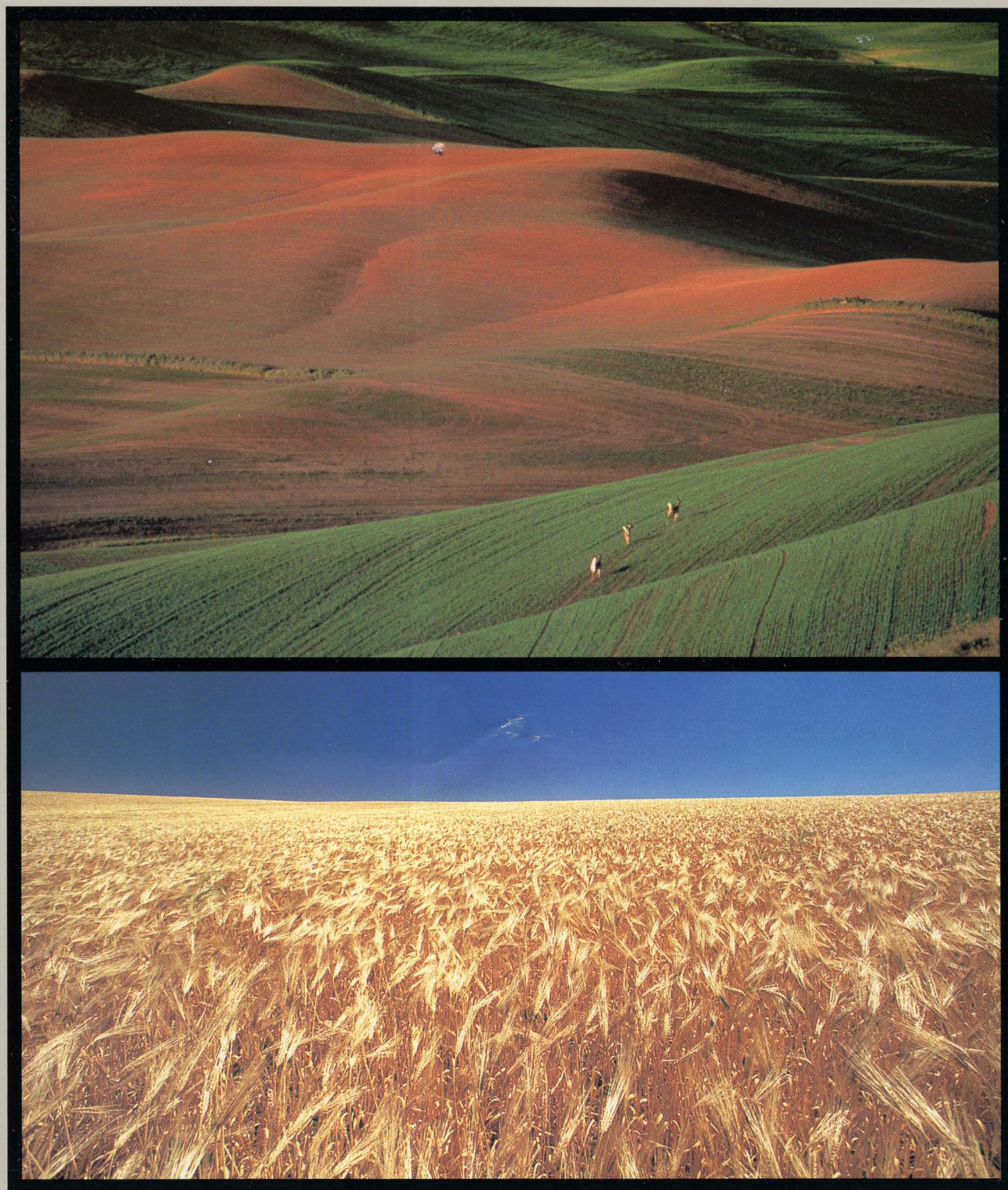
Tele-Converter PE 1.4X





Description	Lens construction	Angle of view	Aperture	Min. focusing distance	Filter size	Size	Weight	35mm equivalent focal length
ZENANON-PE 40mm F4	8-9	82.1°	F4~22 with half-click stop	0.35m	φ62mm	50.5 × φ82mm	510g	24mm
ZENANON-PE 50mm F2.8	7-9	69.7°	F2.8~22 with half-click stop	0.46m	φ62mm	50.5 × φ82mm	490g	30mm
ZENANON-PE 75mm F2.8	5-6	49.7°	F2.8~22 with half-click stop	0.6m	φ62mm	49.5 × φ82mm	440g	45mm
MACRO ZENANON-PE 100mm F4	4-6	38.4°	F4~32 with half-click stop	0.61m Magnification 1:4	φ62mm	86.7 × φ82mm	650g	60mm
ZENANON-PE 150mm F3.5	5-6	26.1°	F3.5~22 with half-click stop	1.5m	φ62mm	71 × φ82mm	635g	90mm





Description	Lens construction	Angle of view	Aperture	Min. focusing distance	Filter size	Size	Weight	35mm equivalent focal length
<b>ZENZANON-PE 200mm F4.5</b>	5-6	20.2°	F4.5~32 with half-click stop	2.0m	φ62mm	109×φ82mm	775g	120mm
<b>ZENZANON-PE 250mm F5.6</b>	6-6	16.2°	F5.6~45 with half-click stop	3.0m	φ62mm	147×φ82mm	910g	150mm
<b>ZENZANON-PE 500mm F8</b>	10-11	8.1°	F8~64 with half-click stop	8m	φ122mm	318×φ139mm	3,760g	300mm
<b>ZENZANON-EII 500mm F8</b>	6-7	8°	F8~45	8.5m	φ95mm	267×φ102mm	1,890g	300mm
<b>Tele-Converter PE 2X</b>	6-7	1/2 of prime lens	Exposure factor; 4X (2F/stops)	Same as prime lens	—	53×φ83mm	460g	—
<b>Tele-Converter PE 1.4X</b>	5-5	1/1.4 of prime lens	Exposure factor; 2X (1F/stops)	Same as prime lens	—	28×φ83mm	300g	—



# ETRSi VERSATILITY — INCREASES WITH OPTIONAL BRONICA ACCESSORIES.

## Close-Up Lenses E

Simple close-up shooting when fixed on the front of the lens, with exposure factor calculations not required. Available in two types, with different magnifications.



### Photographic Magnification of Close-Up Lenses

Zenanon-PE 75mm F2.8	Distance Scale	Focusing Distance	Magni- fication	Area Covered (cm)
C.U.L.-1(f=50)	∞	63.9	0.15×	28.0×36.7
	0.6m	38.5	0.32×	13.1×17.2
C.U.L.-2(f=25)	∞	38.0	0.30×	14.0×18.4
	0.6m	30.5	0.48×	8.8×11.5
C.U.L.-1+	∞	30.3	0.44×	9.5×12.5
C.U.L.-2(f=17)	0.6m	27.0	0.63×	6.7×8.7

\*The focusing distance is from film plane to subject Unit: cm

## Automatic Bellows Attachment E

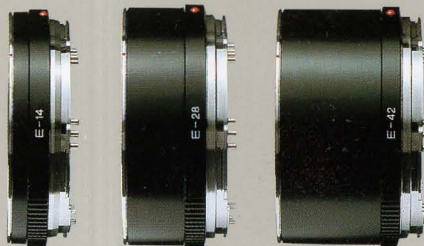
Variable magnification changes are possible by simply adjusting bellows, with no changes in camera operations. And, there is full exposure automation, when used with the AE-II Finder E. Photographic magnifications up to about 2X with the standard lens.

### Automatic Bellows Attachment E Close-Up Data

Lens	Bellows Extension	Magnification	Area Covered (cm)
75mm	Min.	0.76×	5.53×7.25
	Max.	2.28×	1.84×2.42
40mm	Min.	1.43×	2.94×3.85
	Max.	4.13×	1.02×1.33
50mm	Min.	1.14×	3.68×4.83
	Max.	3.31×	1.27×1.66
100mm	Min.	0.57×	7.37×9.67
	Max.	1.83×	2.30×3.01
150mm	Min.	0.38×	11.1×14.5
	Max.	1.18×	3.56×4.67
200mm	Min.	0.29×	14.5×19.0
	Max.	0.94×	4.47×5.86
250mm	Min.	0.23×	18.3×24.0
	Max.	0.74×	5.68×7.45

## Automatic Extension Tubes E

Available in 3 types, E-14, E-28 and E-42, which provide different extensions for increased close-up photography, without loss of automatic diaphragm action, full aperture exposure measurements and no changes in shutter action.



### Automatic Extension Tubes E Close-Up Data

Lens	Tube Used	Magnification	Area Covered (cm)
75mm	E-14	0.19~0.38×	22.1×29.0~11.1×14.5
	E-28	0.37~0.56×	11.4×14.9~7.5×9.8
	E-42	0.56~0.75×	7.5×9.8~5.6×7.3
40mm	E-14	0.35~0.55×	12.0×15.7~7.6×10.0
	E-28	0.70~0.90×	6.0×7.9~4.7×6.1
	E-42	1.05~1.25×	4.0×5.2~3.4×4.4
50mm	E-14	0.28~0.44×	15.0×19.7~9.5×12.5
	E-28	0.56~0.72×	7.5×9.8~5.8×7.7
	E-42	0.84~1.00×	5.0×6.6~4.2×5.5
100mm	E-14	0.14~0.40×	30.0×39.4~10.5×13.8
	E-28	0.28~0.54×	15.0×19.7~7.8×10.2
	E-42	0.42~0.68×	10.0×13.1~6.2×8.1
150mm	E-14	0.09~0.22×	46.7×61.2~19.1×25.0
	E-28	0.19~0.32×	22.1×29.0~13.1×17.2
	E-42	0.28~0.41×	15.0×19.7~10.2×13.4
200mm	E-14	0.07~0.20×	60.0×78.7~21.0×27.6
	E-28	0.14~0.28×	30.0×39.4~15.0×19.7
	E-42	0.22~0.35×	19.1×25.0~12.0×15.7
250mm	E-14	0.06~0.16×	70.0×91.8~26.3×34.4
	E-28	0.11~0.22×	38.2×50.1~19.1×25.0
	E-42	0.17~0.28×	24.7×32.4~15.0×19.7

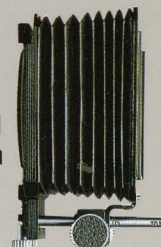
## Focusing Lever E

Used on the focusing ring of the lens, for providing speedy, smooth focusing action. Can be used with Zenanon-PE lenses from 40mm to 250mm.



## Professional Lens Hood E

Distracting glare and reflections are removed, by extending the lens hood while checking the effect in the finder.



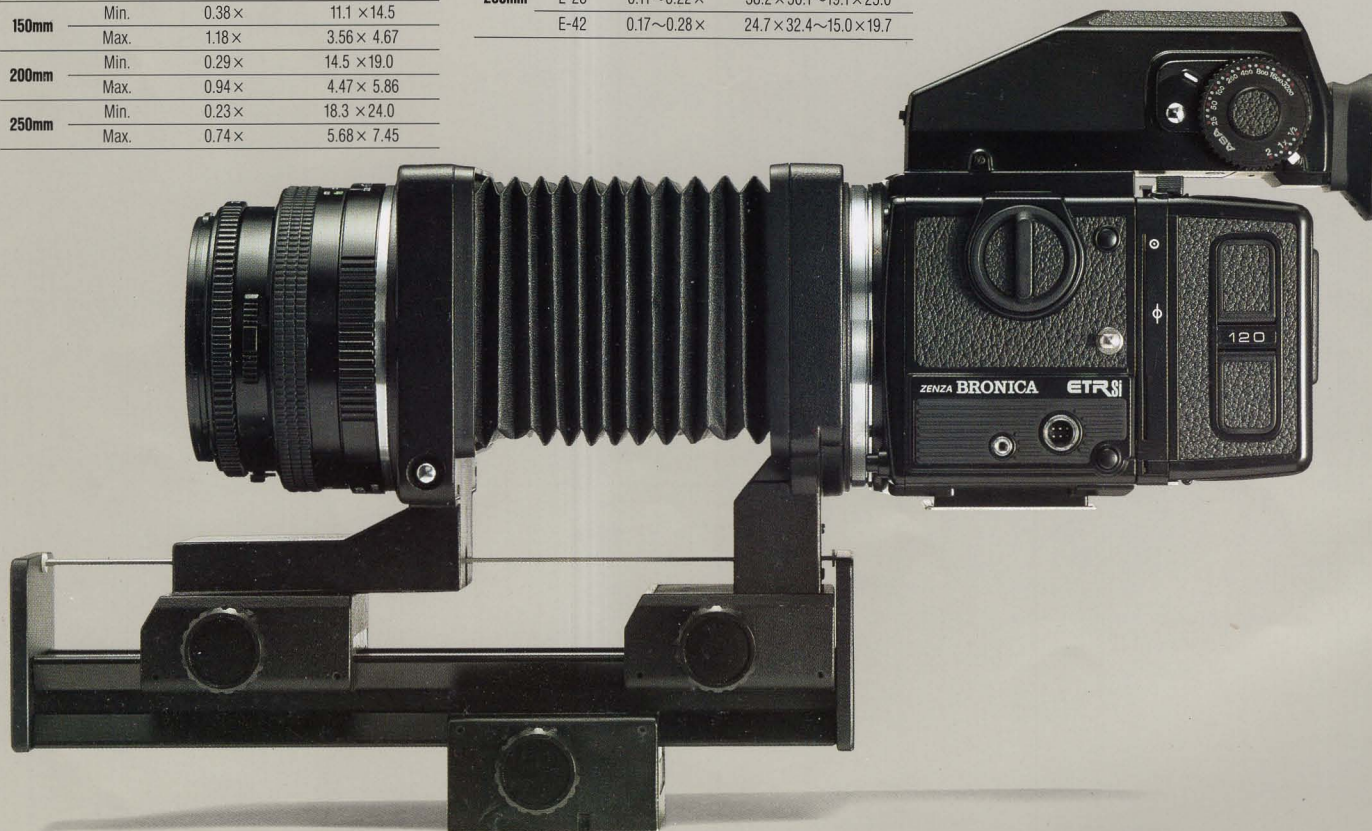
## Tripod Adapter E

(For Polaroid Film Back)

Since the Polaroid Film Back extends below the camera body, attachment on large-size tripods is not possible without using the adapter to raise the Film Back above the tripod head face.






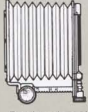








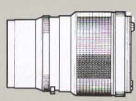
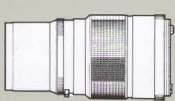
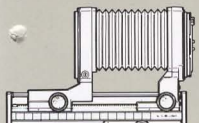
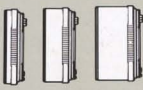

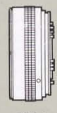


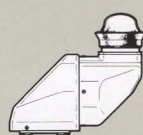

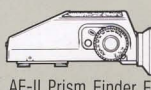
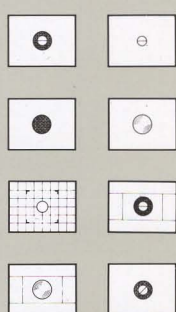
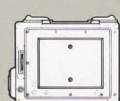

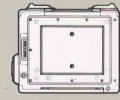
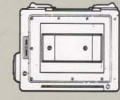
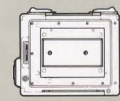
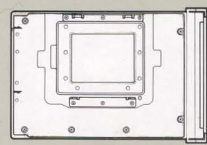
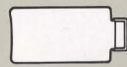


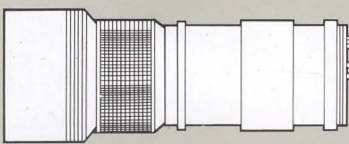
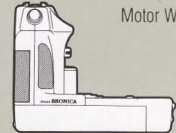
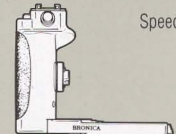

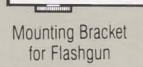
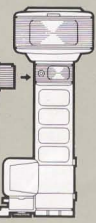

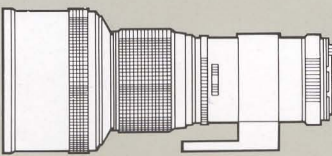


## Remote Camera Battery Pack Ei

For constant power even in freezing weather, when battery performance drops. Keep batteries warm in the battery pack by placing next to the body, with cord connection to the camera. Four AA-size batteries used. Cord can be disconnected.





# Zenza Bronica ETRSi System

 <p>Front Lens Cap E φ62mm</p>	 <p>Lens Hood E for 40/50mm</p>  <p>Lens Hood EII for EII/PE 75mm</p>  <p>Lens Hood E for 100mm</p>  <p>Lens Hood E for 150 ~ 250mm</p>  <p>Professional Lens Hood E</p>	 <p>Rapid Focusing Lever E</p>  <p>Close-Up Lens E No. 1 &amp; 2</p>  <p>Filter φ62mm L-1B</p>	 <p>Zenzanon-PE 40mm F4</p>  <p>Zenzanon-PE 50mm F2.8</p>  <p>Zenzanon-PE 75mm F2.8</p>  <p>Macro Zenzanon-PE 100mm F4</p>  <p>Zenzanon-PE 150mm F3.5</p>  <p>Zenzanon-PE 200mm F4.5</p>  <p>Zenzanon-PE 250mm F5.6</p>	 <p>Auto Bellows Attachment E</p>  <p>Auto Extension Tube E E-14, E-28, E-42</p>  <p>Tele-Converter PE 2X</p>  <p>Tele-Converter PE 1.4X</p>  <p>ETRSi Main Body</p>	 <p>Waist-Level Finder E</p>  <p>Rotary Finder E</p>  <p>Prism Finder E</p>  <p>AE-II Prism Finder E</p>  <p>Focusing Screens Ei</p>	 <p>Film Back Ei 120</p>  <p>Dark Slide Ei</p>  <p>Film Back Ei 220</p>  <p>Film Back ETRS 135-N</p>  <p>Film Back ETRS 135-W</p>  <p>Polaroid Film Back E</p>  <p>Dark Slide E for Polaroid Film Back E</p>
 <p>Front Lens Cap E φ102mm</p>	 <p>Filter φ95mm L-1B</p>	 <p>Zenzanon-EII 500mm F8</p>		 <p>Motor Winder Ei</p>  <p>Speed Grip E</p>	 <p>SCA 386 Adapter</p>  <p>Mounting Bracket for Flashgun</p>  <p>Flashgun</p>	
 <p>Front Lens Cap E φ122mm</p>		 <p>Zenzanon-PE 500mm F8</p>		 <p>Tripod Adapter E for Polaroid Film Back</p>  <p>Remote Camera Battery Pack Ei</p>		



## Specifications of the ZENZA BRONICA ETRSi

<b>Type:</b>	4.5 × 6cm format lens shutter single lens reflex camera, with interchangeable lens, film back, finder and focusing screen systems.
<b>Frame size:</b>	42.5 × 55.1mm (side/length ratio of 1:1.29 closely matches standard paper and reproduction sizes)
<b>Film:</b>	120 roll film (15 exposures); 220 roll film (30 exposures); 135 cartridge-loaded film; and Polaroid Land pack film. (Exclusive film backs for each film type.)
<b>Standard lens:</b>	Zenzanon-PE 75mm F2.8 lens, interchangeable type; 6 elements in 5 groups; multi-layer anti-reflection coated; 49.7° angle of view; F22 minimum aperture; 60cm minimum focusing distance; and helical focusing.
<b>Filter size:</b>	62mm diameter for PE 40-250mm lenses, 95mm for EII 500mm lens, and 122mm for PE 500mm lens.
<b>Lens mount:</b>	Exclusive four claw Bronica ETR bayonet mount.
<b>Lens diaphragm:</b>	Fully automatic instant reopening diaphragm action; equal-distance aperture scale graduations; depth of field previewing.
<b>Shutter:</b>	Electronic control SEIKO #0 between-lens leaf shutter; shutter speeds 8 to 1/500 sec. plus B (bulbs) and T (time); intermediate settings not possible; mechanical control setting of 1/500 sec.
<b>Film winding:</b>	Film winding crank; one complete forward revolution or ratcheted winding action.
<b>Mirror lock-up:</b>	Possible with mirror lock-up lever.
<b>Multiple exposure:</b>	Possible with multiple exposure lever; red warning sign in finder.
<b>Film back:</b>	Daylight loading interchangeable type; exclusive film backs for 120, 220 and 135 roll films and Polaroid Land pack film.
<b>Finder system:</b>	Interchangeable finder system; 94% of actual field of view (remains unchanged with different finders); choice of four optional finders, or Waist-Level Finder E, AE-II Prism Finder E, Rotary Finder E and Prism Finder E.
<b>Focusing screen:</b>	Interchangeable type; standard screen has matte spot.
<b>Flash synchronization:</b>	X-setting (up to 1/500 sec.); auto-flash control based on direct light measurements at the film plane are possible with optional SCA System Adapter.
<b>Battery checking:</b>	Red-colored LED lights up within screen area when battery check button is depressed, if there is sufficient power; also doubles as shutter closing signal.
<b>Battery:</b>	Single 6-volt silver oxide or alkaline-manganese battery; also powers AE-II Prism Finder E, when attached.
<b>Dimensions:</b>	92(W) × 87(H) × 69(L)mm (ETRSi main body only) 92(W) × 107(H) × 165(L)mm (with standard lens, Film Back Ei 120 and Waist-Level Finder E)
<b>Weight:</b>	480 grams (ETRSi main body only; without battery) 1,285 grams (with standard lens, Film Back Ei 120 and Waist-Level Finder E; without battery.)

## Specifications of the Motor Winder Ei

<b>Type:</b>	L-type, for right-hand holding, with shutter release button.
<b>For use with:</b>	Zenza Bronica ETR, ETRC, ETRS and ETRSi.
<b>Winding system:</b>	Single frame winding only.
<b>Winding speed:</b>	About 0.8 second (normal temperature)
<b>Power source:</b>	Six AA-size alkaline-manganese (DC 9V). (NiCd batteries also acceptable.)
<b>Number of frames:</b>	About 100 rolls of 120 roll film can be exposed with fresh alkaline-manganese batteries in one continuous shooting session (at normal temperature).
<b>Battery checking:</b>	Red-colored LED indication when battery check button (drive button) is depressed.
<b>Other features:</b>	Hot shoe; cable release socket.
<b>Dimensions:</b>	143(W) × 111(H) × 63(D)mm
<b>Weight:</b>	370 grams (without batteries)

Subject to changes in specifications without prior notice.

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