

MEDIUM FORMAT 6x6

BRONICA

SQ-Ai



For Mamiya and Bronica medium format cameras and accessories go to : www.ianbfoto.com



Advanced Bronica technologies for new imaging horizons!

SQ-Ai— A “System” Camera In the Bronica Tradition. Stimulates The Imagination And Gives High Level Image Expressions.



The creative photographer wants to enjoy image expressions and not simply recordings of a scene. The photographer wants images with more effective expressions, showing subtle details, conveying delicate nuances and producing vivid images. The SQ-Ai meets the creative desires for such individualistic image expressions. With an area about 3.5 times larger than the 35mm format, the visual impact of the 6×6cm format has always been favored by professional photographers everywhere. Bronica has

always endeavored to bring the 6×6 format camera, with such a strong power of expression, even closer to the user, by perfecting a real “system” camera responding to the creativity of the user. And, this was an important concept in the development of the SQ-Ai. Based on the earlier SQ-A Series, original Bronica mechatronic technologies developed during a history of manufacturing medium format cameras has resulted in a state of the art union of mechanisms and electronics. The development of this “system” camera copes

with the tremendous diversities possible in image expression. The resulting SQ-Ai is a medium format single lens reflex camera incorporating original Bronica “system” technology which answers the high image technique capabilities expected by the professional photographer. The “system” camera has always been a Bronica philosophy, ever since the founding of the company. Through years of developing medium format single lens reflex cameras, based on the “system” concept, the SQ-Ai is now the result. ■

The "System" Enlarges The Scope Of Your Imagination And Makes Possible Image Expressions Of Great Emotion

An Extraordinary "System" **Camera – Based on Superior** **Bronica System Engineering.**

In order to take pictures which convey the excitement felt when taking shots of widely different subjects, one must have a "system" in which the camera can freely capture widely different expressions. And, Bronica has pursued systemization for all types of photographic conditions, by interchanging lenses, finders, film backs, etc., for "greater possibilities in image expressions". The SQ-Ai has been perfected by fully utilizing superior Bronica system engineering technology, with due consideration for reliability and endurance, after extensive researches. The user's imagination is stimulated by new features, such as the SCA System which makes possible TTL auto-flash operations and the new compact, lightweight motor drive, and the resulting high performance "system" camera fulfills all image expression needs of the photographer.

Zenzanon PS Lenses – Enlarges the Scope of the 6x6 Format Camera.

The power of expression starts with the lens and, therefore, exhaustive researches are conducted for this purpose, including computer simulations for improving image performance and color reproduction, as well as counter-measures against ghost, flare, etc. High precision Zenzanon PS Lenses, which do not permit any compromise in color balance, contrast, resolving power, etc., make possible high image quality in which the subject is faithfully depicted, thus being highly acclaimed by professional users.



**New Film Winding Crank –
for Greatly Improved, Fast
Shooting Action.**

Newly-developed film winding crank permits faster shooting operations and meets the requirements of the professional user with faster handling and greater mobility.



**Compact and Lightweight
Motor Drive SQ-i has Great
Operational Ease.**

Newly-developed Motor Drive SQ-i has speedy, accurate operations and great holding ease. Switchable from single frame to continuous shooting and remote control operations also possible.

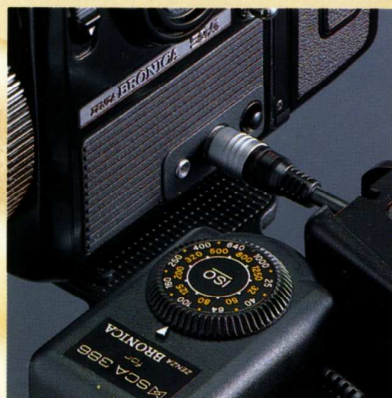


**Bronica Film Back System –
for Simple, Speedy & Accurate
Film Exchanges.**

Films can be exchanged in mid-roll with the Bronica film back system. Has dark slide safety system, as well as prevention of double exposures and winding of unexposed frames. Film Back SQ-i also has film speed and exposure compensation dials which couple to finders with built-in exposure meter.

**TTL Auto-Flash Operations –
with Built-in Bronica-Exclusive
SCA System.**

Newly-developed Bronica-exclusive CCC (Current Control Center) System makes possible auto-flash operations based on TTL direct film plane metering for fully utilizing the "flash synching at all shutter speed" feature of the lens shutter system. SCA 300 System compatible electronic flash units couple with the Bronica-exclusive SCA 386 Adapter.



**Diversified Image Expressions,
with a Wide Range of Versatile
Interchangeable Finders.**

Choosing the finder is the first step in getting the right image and there are many Bronica finders to choose from in this case, such as AE Prism Finder, ME Prism Finder, MF Finder, Prism Finder and Waist-Level Finder. These finders give the user a choice of AE or manual exposure, different shooting angles, etc., and, furthermore, finder exchange is simple and speedy, too.

**"System" Camera of
High Perfection and Great
Operational Ease.**

The SQ-Ai is a "System" camera of high perfection and great operational ease, with electromagnetic shutter button providing soft, smooth release action and variegated finder information displayed for easier, accurate viewing.

**Seeks a Higher Degree of
Systemization while Utilizing
SQ-A Series Accessories, Too.**

All SQ-A Series accessories can be used with the new model but the SQ-Ai also aims for a higher degree of systemization, as well as an union of sensibility and technology.



Superior Operational Performance, Which Is Easier, Unrestricted And More Advanced, Makes The Most Of The Power Of Depiction In The 6 x 6 Format.

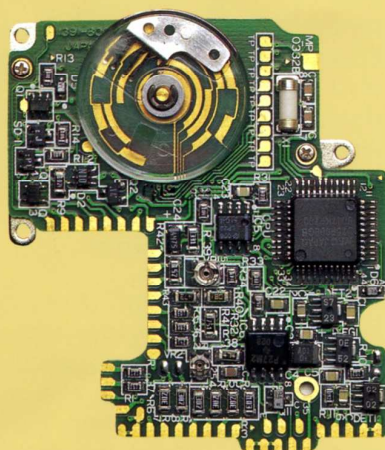


**Top Mechatronic Technology—
for Superior Operational
Performance.**

There is great freedom in imaging, based on consistent easy operations, which is a basic Bronica concept. And, a high performance 6 x 6cm format single lens reflex camera, with a high level union of mechanical and electrical technologies, has been perfected, by implementing basic operational features with the latest, modern Bronica technologies.

**TTL Auto-Flash – Utilizes
the Lens Shutter Merit
to the Maximum.**

There is flash synching at all shutter speeds, up to 1/500 sec., with the lens shutters of Zenzanon PS lenses. Great power in daylight fill-flash, macrophotography and other shots utilizing electronic flash techniques. And, the SCA System incorporated in the SQ-Ai couples with compatible SCA 300 System electronic flash units.



**SCA 386 Adapter – Provides
District Informations
in the Finder.**

The Bronica-exclusive SCA 386 Adapter, which makes flash synching possible with all compatible SCA 300 System electronic flash units, has a 6-pin connection. Thus, in addition to flash control signals, flash-ready and auto-check information are also transmitted, making possible simple and accurate data confirmations in the finder.



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Very Speedy Shooting Action – without a Lost Shot, with the Motor Drive SQ-i.

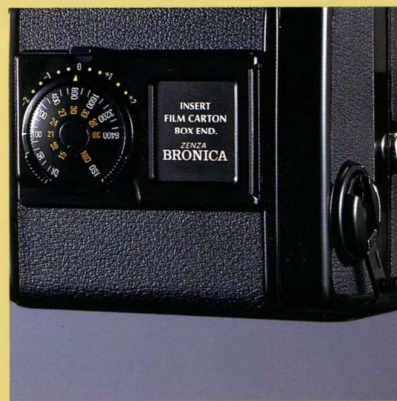
Compact and lightweight Motor Drive SQ-i greatly expands the possibilities in image expression, when, for example, capturing the constantly changing light or the feeling look in a person's expression. In addition to being able to switch from single frame to continuous sequential shooting, remote control cable or wireless is also possible, which increase the range of shooting capabilities even more.

Complete Finder Information – for Greatly Improved Operational Performance.

Operational information must be read speedily and accurately and instantly coped with, for accurate imaging with the required effect. And, the finder distinctly shows battery check, shutter closing signal, shutter release warning, multiple exposure warning, flash-ready signal and auto-check signal, making possible speedy judgements. This, of course, is a reflection of the Bronica concept emphasizing operational ease.

Bulb Shutter Mechanism – for a New Imaging World of Long Exposures.

The possibilities of even greater image expressions are available for the photographer, by utilizing long exposure technique for new image expressions in commercial photography, or for special image effects, or used for special presentation effects in combination with the electronic flash.



Built-in Film Speed Dial – Eliminates Exposure Errors with Film Back Exchanges.

The newly-developed Film Back SQ-i has film speed dial and exposure compensation dial, which couple automatically to finders with a built-in exposure meter. And, since there is no resetting of the film speed, in this case, there are no mistakes in resetting film speeds. And, a new film winding crank speeds up film loading in the film back, too.

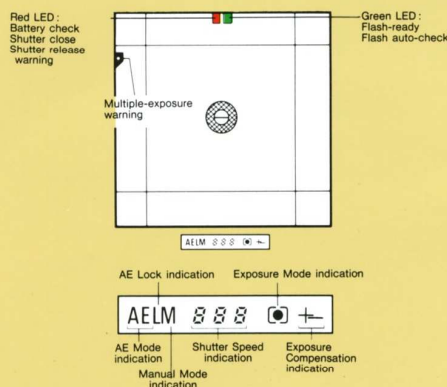
Flash Photography
Invites The Photographer
To Explore New Image Worlds.



Photographic technique in which electronic flash is freely utilized is indispensable for enlarging the image sphere and for enjoying creative image expressions. And, flash synching at all shutter speeds, up to 1/500 sec., is possible with the Bronica electronic control lens shutter system, while the SCA System in the SQ-Ai makes TTL auto-flash operations possible for maximum utilization of this feature.

Careful Composition is Possible, with Colorful Finder Display.

The photographer can concentrate on composing the picture in the finder because, in the case of the SQ-Ai, smooth and error-less photography is possible while checking the colorful display in the finder, at the same time.

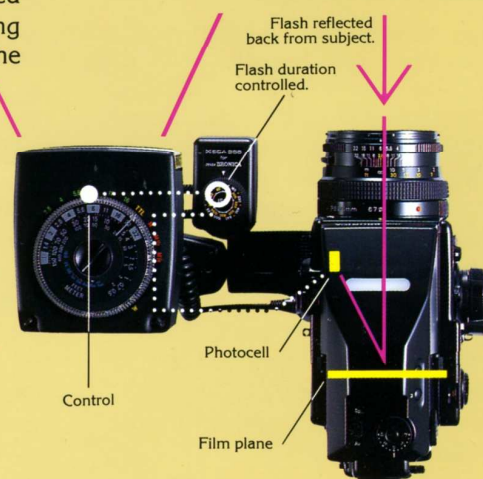


Choice of SCA 300 System Electronic Flash Units Enlarges Scope of SCA System.

Connecting the SCA 386 System Adapter makes it possible to use a wide range of compatible SCA 300 System electronic flash units, with TTL auto-flash operations and display functions in the SQ-Ai. Grip-type electronic flash-guns can also be used for greater flash output in TTL auto-flash operations, with power to spare.

Accurate Flash Exposures – with TTL-Direct Metering at the Film Plane.

Auto-flash operations based on TTL-direct light measurements at the film plane means highly accurate exposures, because the light reflected back through the lens and hitting the film plane is measured. And, the depth of field effect is easily controlled because the lens opening can be chosen freely.



Zenzanon-PS Lens Series—A Brilliant Second “Vision” With Both Delicate Color Reproduction Properties And Superior Power Of Depiction.



The lens, in a sense, is the “eye” of the camera and Zenzanon-PS Lenses have been designed to obtain image expressions close to that imaged. Zenzanon-PS Lenses are designed with emphasis placed on the MTF* optical theory, in order to improve overall performance, color balance, contrast, resolving power, gradation, etc. This results in clear and natural depictions, in combination with Bronica's original multi-layer lens coating.

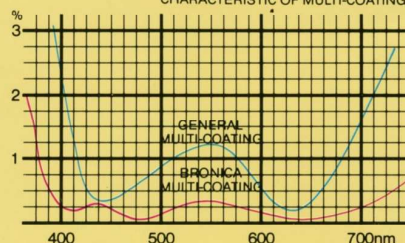
Bronica Multi-Coating – for Clear Image Quality and Natural Color Reproductions.

Bronica's original multi-layer lens coating technology has succeeded in minimizing optical noise to a high degree over a wider zone. Thus, natural depictions of greater clarity, not influenced by optical noises, such as ghost and flare, are possible, even under poor conditions, such as shooting against-the-light.

*Modulation Transfer Function.



COMPARISON OF SPECTRUM REFLECTION
CHARACTERISTIC OF MULTI-COATING



FISHEYE ZENZANON-PS 35mm F3.5

With a diagonal angle of view of 180°, this fisheye optic makes possible very unique image expressions, in combination with the square 6x6cm format.

ZENZANON-PS 40mm F4

For pictures with interesting visual effects. For pan-focusing, for deformed effects, etc., with wide angle of view and deep depth of field.

ZENZANON-PS 50mm F3.5

Wide-angle lens, fully compensated for distortion, has superior contrast and color balance.

ZENZANON-PS 65mm F4

Semi-wide lens has superior depiction from the near distance to infinity, with little perspective exaggeration and deformation.

ZENZANON-PS 80mm F2.8

General purpose lens for all kinds of subjects. Has superior contrast and ample marginal illumination from the full aperture, with fine color reproduction and natural depiction.

MACRO ZENZANON-PS 110mm F4

Fully compensated for distortion and image curvature, the lens has a minimum focusing distance of 0.66m and maximum image magnification of 1:4, without tubes or bellows. But, maximum performance is also obtained when used with close-up accessories, too.

ZENZANON-PS 135mm F4

For portraits, with faithful reproduction of texture and color. Rich power of expression makes it ideal for landscapes, snap-shots and even close-ups, because of the 1 meter minimum focus.

ZENZANON-PS 150mm F4

Based on MTF optical designing, with multi-layer coating, there is superior resolving power, contrast and color reproduction.

ZENZANON-PS 180mm F4.5

A moderate telephoto lens with excellent contrast and resolving qualities even at full aperture. Minimum 1 meter focusing distance makes lens ideally suited for commercial work, wedding, fine art, portraiture and fashion photography.

ZENZANON-PS 200mm F4.5

Has telephoto effect, or pulls in distant subjects and gives soft blurred effects. Sharp depiction, with superior contrast.

ZENZANON-PS 250mm F5.6

Has telephoto effects, or compressed perspective, pull-in power and natural blurs. Superior resolution and contrast, due to multi-coating and MTF optical design.

ZENZANON-PS 500mm F8

Has dynamic telephoto effect. Chromatic aberration is fully compensated, with floating mechanism and two low dispersion low refractivity elements. Has full-area high image quality and depiction.

TELE-CONVERTER PS2x/PS1.4x

Based on MTF optical theory. Maintains superior performance of prime lenses. Extends focal length but retains minimum focusing distance of prime lens.



FISHEYE ZENZANON-PS 35mm F3.5



ZENZANON-PS 40mm F4



ZENZANON-PS 50mm F3.5



ZENZANON-PS 65mm F4



ZENZANON-PS 80mm F2.8



MACRO ZENZANON-PS 110mm F4



ZENZANON-PS 135mm F4

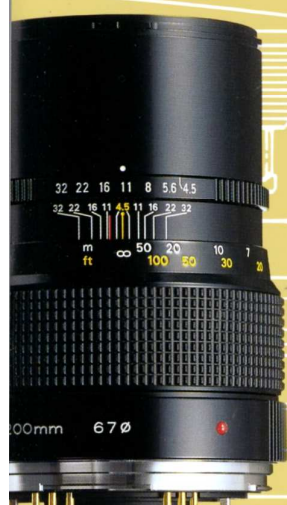


ZENZANON-PS 150mm F4

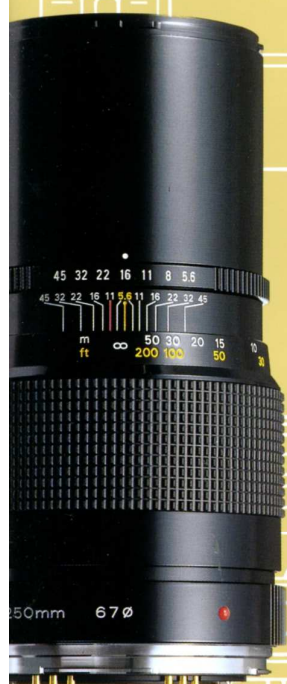


ZENZANON-PS 180mm F4.5

Description	Lens construction	Angle of view	Aperture	Min. focusing distance	Filter size	Size	Weight	35mm equivalent focal length
FISHEYE ZENZANON-PS 35mm F3.5	8-11	180°	F3.5~22 with half-click stop	0.28m	ø32.5mm	91 x ø98mm	960g	19mm
ZENZANON-PS 40mm F4	8-11	87°	F4~22 with half-click stop	0.4m	ø95mm	67.5 x ø98mm	650g	23mm
ZENZANON-PS 50mm F3.5	8-10	76°	F3.5~22 with half-click stop	0.5m	ø77mm	61.7 x ø82mm	590g	28mm
ZENZANON-PS 65mm F4	7-9	62.3°	F4~22 with half-click stop	0.6m	ø67mm	69.6 x ø82mm	665g	35mm
ZENZANON-PS 80mm F2.8	5-6	50.7°	F2.8~22 with half-click stop	0.8m	ø67mm	52 x ø82mm	490g	45mm
MACRO ZENZANON-PS 110mm F4	4-6	40°	F4~32 with half-click stop	0.66m Magnification 1:4	ø67mm	79 x ø83mm	685g	60mm
ZENZANON-PS 135mm F4	4-6	32.8°	F4~32 with half-click stop	1m	ø67mm	79 x ø83mm	755g	76mm
ZENZANON-PS 150mm F4	4-6	29.5°	F4~32 with half-click stop	1.5m	ø67mm	74 x ø83mm	750g	85mm



ZENANON-PS 200mm F4.5



ZENANON-PS 250mm F5.6



ZENANON-S 500mm F8



TELE-CONVERTER PS2X



ZENANON-PS 500mm F8



TELE-CONVERTER PS1.4X

Description	Lens construction	Angle of view	Aperture	Min. focusing distance	Filter size	Size	Weight	35mm equivalent focal length
ZENANON-PS 180mm F4.5	8-9	24.7°	F4.5~32 with half-click stop	1m	ø67mm	96.0xø83mm	865g	100mm
ZENANON-PS 200mm F4.5	5-7	22.8°	F4.5~32 with half-click stop	2.5m	ø67mm	107xø83mm	870g	110mm
ZENANON-PS 250mm F5.6	5-7	18.2°	F5.6~45 with half-click stop	3m	ø67mm	150.2xø83mm	1,010g	135mm
ZENANON-PS 500mm F8	10-11	9.2°	F8~64 with half-click stop	8m	ø122mm	307.5xø139mm	3,760g	270mm
ZENANON-S 500mm F8	6-7	9°	F8~45	8.5m	ø95mm	255xø102mm	1,890g	270mm
TELE-CONVERTER PS2X	6-7	1/2 of prime lens	Exposure factor: 4X	Same as prime lens	—	64.4xø84mm	600g	—
TELE-CONVERTER PS1.4X	5-5	1/4 of prime lens	Exposure factor: 2X	Same as prime lens	—	29xø84mm	370g	—

The First Step In Forming The Image Expression Starts With The Choice Of The Finder.

AE PRISM FINDER SQ-i

The finder is loaded with functions which are important for exposure determination, such as built-in prism system which shows a bright, laterally-correct upright image; an aperture-priority TTL automatic exposure system which can be switched to manual exposure control; a choice of spot metering or average metering; AE lock; and exposure compensation, etc. And, liquid crystal is utilized for LCD indications in the finder, such as AE or manual mode; appropriate shutter speed; spot or average metering mode; AE lock; exposure compensation setting condition.

ME PRISM FINDER S

Manual exposure control with three LEDs in the finder, for match-point TTL full-aperture exposure measurements, by adjusting built-in shutter speed dial (with intermediate settings) and aperture ring.

MF FINDER S

TTL manual exposure measurement type waist-level finder with built-in eyepiece adjustment ring and large eyecup. For careful composition work, in low-angle shots, closeups and copying work. Same metering system as the ME Prism Finder S.

WAIST-LEVEL FINDER S

For general photography, with flip-up magnifier for critical focusing and folding sides for cutting off distracting light rays.

PRISM FINDER S

Compact, lightweight eye-level finder. Has total reflection prism and shows laterally-correct upright image which is very bright up to the edges of the finder area. Makes possible camera work equalling the 35mm format camera.

PRISM FINDER 45D S

Accurate camera holding in hand-held shooting with 45° visual angle, for stable camera work. Laterally-correct upright image, in bright finder field and continuously adjustable eyepiece system assures accurate focusing.



AE PRISM FINDER SQ-i



ME PRISM FINDER S



MF FINDER S



WAIST-LEVEL FINDER S



PRISM FINDER S



PRISM FINDER 45D S

AE PRISM FINDER SQ-i

Magnifications:	0.7x (with standard 80mm lens)
Finder field:	52.3x52.3mm (94%x94%)
Exposure measurements:	TTL full aperture; full-area average measurements swichable to spot measurements. EV1~18(at ISO100)
Film speed range:	ISO25~6,400
Shutter range:	32~1/500 sec., controlled in 12th steps on AUTO. 16~1/500 sec. and B., on MANUAL
Finder indications:	Liquid crystal display (LCD) indication, with automatic backlight illumination in dim-light situations. Illuminated display of shutter speed (in 1/2 step increments) /AE lock/spot metering/Average metering /Exposure compensation.
Exposure compensation range:	±2EV (1/3re step increments.)
Eyepiece diopter correction:	Continuously variable -2.5 to +0.5 dptr. with stand eyepiece; -5 to -2 dptr. with minus eyepiece; 0 to +3 dptr. with plus eyepiece;
Size:	71(W)x153.2(L)x57(H)mm
Weight:	435grams

ME PRISM FINDER S

Magnification:	0.75X (with standard 80mm lens)
Finder field:	52.3x52.3mm (94%x94%)
Exposure measurements:	TTL full aperture, full area average reading; EV4~EV16 (at ISO 100)
Film speed range:	ISO 25 - 6,400
Shutter range:	8~1/500 sec. (in 1/2 stop increments)
Finder display:	Color-coded LED display over screen area; with proper exposure (green ●) or over-/under-exposure (red +/-) indications.
Size:	78.5(W)x134(D)x61(H) mm
Weight:	390 grams

MF FINDER S

Magnification:	1.0X (with standard 80mm lens)
Finder field:	52.3x52.3mm (94%x94%)
Exposure measurements:	TTL full aperture, full area average reading; EV4~EV16 (at ISO 100)
Film speed range:	ISO 25 - 6,400
Shutter range:	8~1/500 sec. (in 1/2 stop increments)
Finder display:	Color-coded LED display on left side of screen; with proper exposure (green ●) or over-/under-exposure (red +/-) indications.
Magnifier:	Adjustable; -3 to +2 dptr range
Size:	80(W)x83(D)x79(H) mm
Weight:	200 grams

* When the ME Prism Finder S or MF Finder S is attached, the settings "16S" and "B(bulb)" cannot be used.

WAIST-LEVEL FINDER S

Magnification:	1.15X (with standard 80mm lens); (magnifier magnification is 3.6X)
Finder field:	52.3x52.3mm (94%x94%)
Magnifier:	-1.5 dptr supplied; can be exchanged for magnifier in -4.5 to +1.5 dptr range
Size:	70(W)x75(D)x15(H) mm
Weight:	115 grams

PRISM FINDER S

Magnification:	0.75X (with standard 80mm lens)
Finder field:	52.3x52.3mm (94%x94%)
Magnifier:	-1.5 dptr supplied; can be exchanged for magnifier in -4.5 to +1.5 dptr range
Size:	71(W)x134(D)x58(H) mm
Weight:	310 grams

PRISM FINDER 45D S

Magnification:	0.73x (with standard 80mm lens)
Finder field:	52.3x52.3mm (94%x94%)
Eyepiece diopter correction:	Continuously variable -2.5 to +0.5 dptr. with standard eyepiece; -5 to -2 dptr. with minus eyepiece; 0 to +3 dptr. with plus eyepiece;
Size:	71(W)x129(L)x59.6(H)mm
Weight:	360 grams

Traditional Bronica Interchangeable Film Back System For More Versatile, Faster Photography.

The Bronica film back interchangeable system makes film changes very simple, for matching changing conditions and purposes. And, simple film changes make for smooth shooting, even when there are lots of shots to take. And, there is a wide range of formats to choose from. Furthermore, film back exchanges are not possible without inserting a dark slide which cannot be removed from a detached film back.

FILM BACK SQ-i 120/220

For 6x6 format (55.6x55.6mm) with 12 and 24 exposure rolls; exclusive film backs for 120 and 220 roll films to maintain film flatness. Has film speed dial and exposure compensation dial which couple to finder with built-in meter, for error-less film back exchanges. With crank type film winder for speedy film loading when detached.



FILM BACK SQ-i 120/220



FILM BACK SQ-i 120J/220J

FILM BACK SQ-i 120J/220J

For 6x4.5 format (42x55.6mm) with 15 and 30 exposure roll films. Has film speed dial for error-less film back exchanges.



FILM BACK SQ-i 135N

FILM BACK SQ-i 135N (24x36mm)

Standard 35mm format with 135 roll film. Permits use of special films, or ultra-high sensitivity film, infrared film, etc., and daylight fill-flash at all shutter speeds.



FILM BACK SQ-i 135W

FILM BACK SQ-i 135W (24x54mm)

For taking panorama pictures with the 135 roll film, with 1.5x larger area than standard 35mm format. Ideal for landscapes, architectural shots, etc. Exclusive focusing screen is available.



POLAROID FILM BACK SQ-i

POLAROID FILM BACK SQ-i

Developed with the technical cooperation of the Polaroid Corporation; for on-the-site previewing of composition and exposure. Film speed dial has film speed range of ISO 25-6400 and couples with exposure meter finders. Can use film types 660 and 100 series.



FILM BACK SQ-i 120/220 (55.6x55.6mm)



FILM BACK SQ-i 120J/220J (42x55.6mm)



FILM BACK SQ-i 135N (24x36mm)

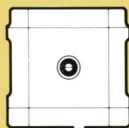


FILM BACK SQ-i 135W (24x54mm)



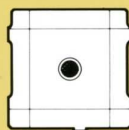
POLAROID FILM BACK SQ-i (56x56mm)

Wide Range Of Accessories
Add Expanse And Color
To Image Expressions.



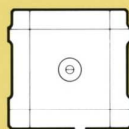
Microprism/Split-Image

Split-image spot surrounded by microprism ring. For general use. (Standard focusing screen.)



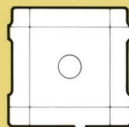
Microprism

Microprism spot, for focusing on subjects without strong lines. Full area matte for lenses with large F/numbers.



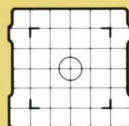
Split-Image

Central split-image spot for focusing subjects with strong vertical lines, by coinciding upper and lower halves.



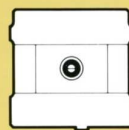
Matte

Full-area matte, including central spot. Suitable for telephoto lens.



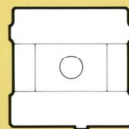
Grid-lines

Central matte spot with full-area grid-lines. For careful composition work, as well as an close-ups with the bellows attachment.



Focusing Screen S135

(Microprism/Split-Image & Matte)
For use with Film Back SQ-i 135N/W. Has frame lines for 24x36mm (N size) and 24x54mm (W size). (Can also be used with Film Back SQ 135N/W.)

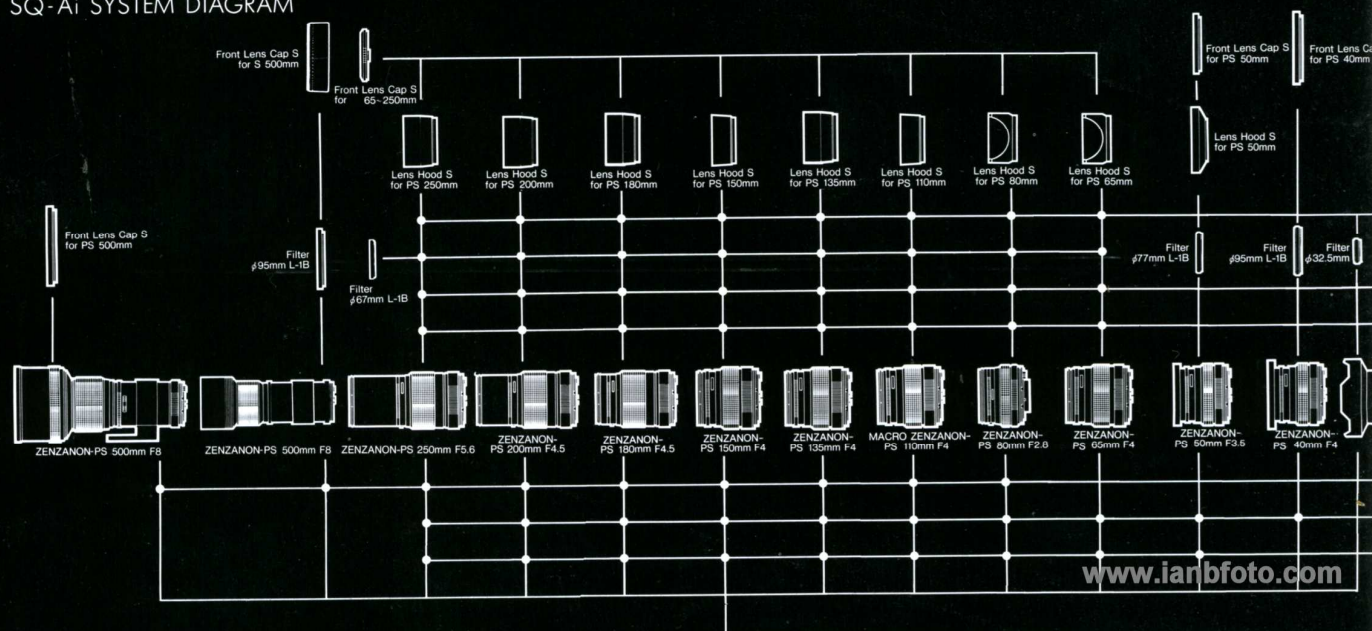


Auto Extension Tube S

Two types, S-18 and S-36, with different magnifications make simple close-up shooting possible with Zenzanon-PS 40mm to 250mm lenses.

S-18					
Lenses	Magnification	Area Covered (cm)	Focusing Distance (cm)	Exposure Factor	
40mm	0.43	12.8 x 12.8	25.1	1.4	
	0.62	9.0 x 9.0	23.0	1.6	
50mm	0.36	15.6 x 15.6	30.0	1.4	
	0.51	10.9 x 10.9	26.5	1.6	
65mm	0.28	20.1 x 20.1	41.1	1.3	
	0.43	12.9 x 12.9	33.7	1.5	
80mm	0.22	25.6 x 25.6	56.0	1.4	
	0.35	15.8 x 15.8	42.4	1.7	
110mm	0.17	33.4 x 33.4	86.9	1.3	
	0.42	13.2 x 13.2	50.5	1.9	
135mm	0.13	41.4 x 41.4	127.0	1.4	
	0.33	17.1 x 17.1	71.0	2.0	
150mm	0.12	46.4 x 46.4	156.7	1.4	
	0.25	22.2 x 22.2	93.5	1.8	
180mm	0.10	55.2 x 55.2	215.9	1.3	
	0.35	15.9 x 15.9	84.3	2.6	
200mm	0.09	60.2 x 60.2	256.0	1.4	
	0.20	28.1 x 28.1	145.3	1.9	
250mm	0.07	75.7 x 75.7	390.5	1.3	
	0.18	31.5 x 31.5	198.2	1.8	
S-36					
40mm	0.87	6.4 x 6.4	22.1	1.9	
	1.05	5.3 x 5.3	22.0	2.2	
50mm	0.71	7.8 x 7.8	24.7	1.9	
	0.86	6.4 x 6.4	24.2	2.1	
65mm	0.55	10.0 x 10.0	31.2	1.8	
	0.71	7.8 x 7.8	29.6	2.0	
80mm	0.43	12.8 x 12.8	38.6	1.9	
	0.57	9.8 x 9.8	35.2	2.2	
110mm	0.33	16.7 x 16.7	56.3	1.7	
	0.59	9.4 x 9.4	45.0	2.4	
135mm	0.27	20.7 x 20.7	78.9	1.8	
	0.46	12.1 x 12.1	60.7	2.5	
150mm	0.24	23.2 x 23.2	96.0	1.8	
	0.37	15.0 x 15.0	76.0	2.3	
180mm	0.20	27.6 x 27.6	129.1	1.7	
	0.49	11.3 x 11.3	73.6	3.4	
200mm	0.18	30.1 x 30.1	152.1	1.8	
	0.29	19.2 x 19.2	115.8	2.4	
250mm	0.15	37.8 x 37.8	225.5	1.7	
	0.25	22.2 x 22.2	159.2	2.2	

SQ-Ai SYSTEM DIAGRAM





Close-up Lens S

Close-ups are possible by attaching to the camera lens. There are two focal lengths, or No. 1 (67cm) and No. 2 (33cm).

Lenses	No. 1	
	Magnification	Area Covered (cm)
65mm	0.10~0.25	57.4~22.6
80mm	0.12~0.26	44.9~21.6
110mm	0.16~0.42	34.5~13.1
135mm	0.20~0.41	27.8~13.6
150mm	0.22~0.38	24.9~14.8
180mm	0.27~0.55	20.9~10.1
200mm	0.29~0.42	19.1~13.3
250mm	0.37~0.51	15.2~10.8
Lenses	No. 2	
	Magnification	Area Covered (cm)
65mm	0.19~0.34	28.6~16.2
80mm	0.25~0.39	22.4~14.4
110mm	0.32~0.60	17.2~9.3
135mm	0.40~0.63	13.8~8.8
150mm	0.45~0.63	12.4~8.9
180mm	0.54~0.85	10.4~6.6
200mm	0.58~0.74	9.5~7.5
250mm	0.73~0.93	7.6~6.0
Lenses	No. 1 + No. 2	
	Magnification	Area Covered (cm)
65mm	0.29~0.44	19.2~12.8
80mm	0.37~0.51	15.1~10.9
110mm	0.48~0.76	11.6~7.3
135mm	0.60~0.85	9.3~6.6
150mm	0.67~0.87	8.3~6.4
180mm	0.79~1.13	7.0~4.9
200mm	0.87~1.06	6.4~5.3
250mm	1.09~1.33	5.1~4.2

Area covered is indicated by length of one side of a square.



Focusing Lever S

For speedy, smooth focusing action, by attachment over the focusing ring of the attached lens.



Speed Grip S

Increase operational ease, with improved mobility, stable handling and speedy lever-winding. Also, has hot shoe.



Professional Lens Hood S

Extension is adjusted, while checking finder image, for cutting off distracting rays.

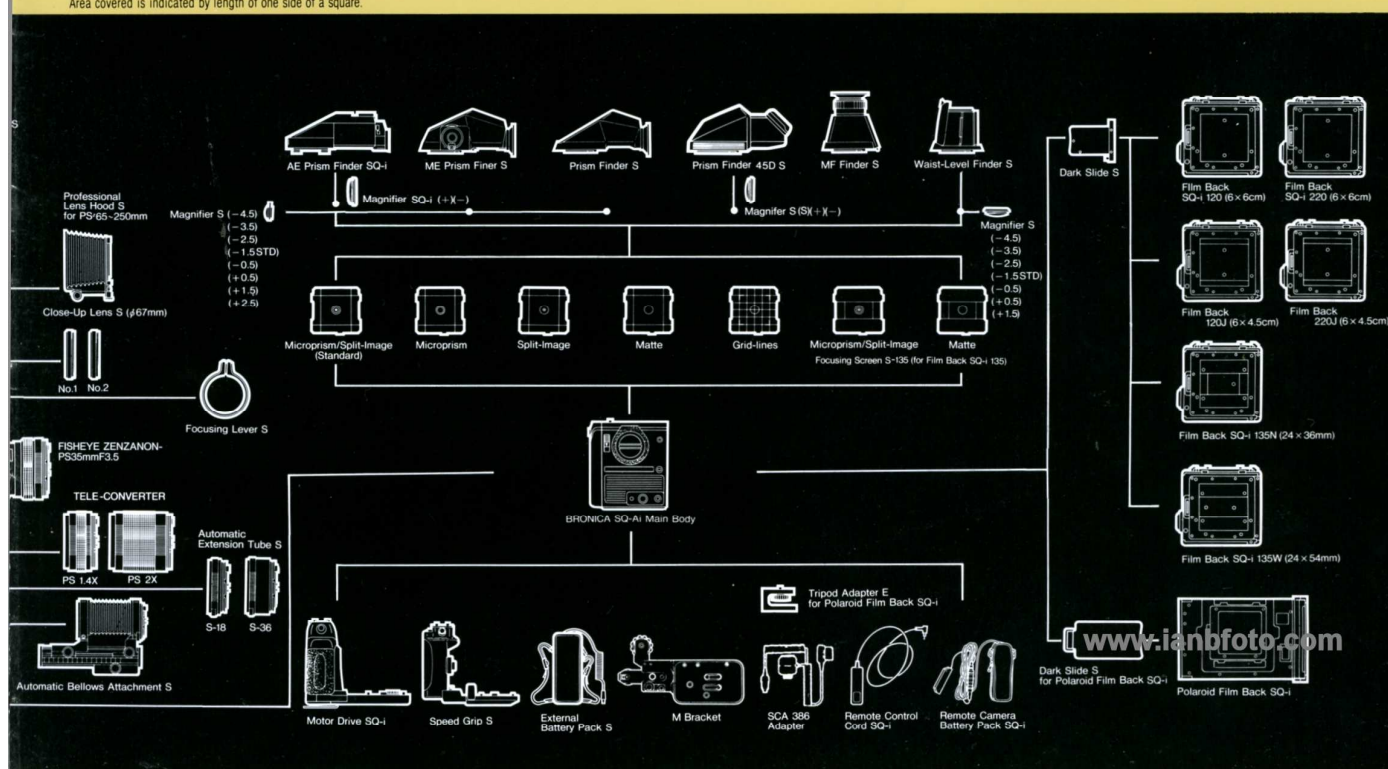
Automatic Bellows Attachment S

Provides continuous variations in magnifications from 0.64x to 1.98x, with the standard 80mm, lens, in macrophotography. There is also full coupling of the main body and lens, with a built-in coupling mechanism which makes shooting as simple as normal photography. And, exposure compensation is also no problem, with a finder with a built-in meter.



Lenses	Magnification	Area Covered Length of One Side (cm)	Focusing Distance (cm)	Exposure Factor
50mm	1.05~3.18	5.3~1.7	24.1~31.7	2.4~7.3
65mm	0.82~2.51	6.8~2.2	28.9~34.7	2.2~6.1
80mm	0.64~1.98	8.7~2.8	32.6~36.6	2.4~7.2
110mm	0.49~1.67	11.3~3.3	42.0~44.8	2.1~6.6
135mm	0.40~1.33	14.1~4.17	64.6~53.3	2.2~7.0
150mm	0.35~1.15	15.7~4.8	77.7~60.2	2.2~6.6
180mm	0.30~1.24	18.7~4.48	102.3~66.1	2.2~9.9
200mm	0.27~0.89	20.5~6.2	120.0~82.2	2.3~7.2
250mm	0.22~0.73	25.7~7.6	173.8~106.7	2.0~5.9

Value at time of minimum and maximum extensions of lens and bellows.



Specifications of the BRONICA SQ-Ai

Type	6 x 6cm format lens shutter single lens reflex camera, with interchangeable lens, film back, finder and focusing screen systems.
Frame size	55.6mm x 55.6mm
Film	120 roll film (12 exposures); 220 roll film (24 exposures), 135 cartridge-loaded film; and Polaroid land film. (Exclusive film backs for each film type).
Standard lens	Zenanon-PS 80mm F2.8 lens; interchangeable type; 6 elements in 5 groups; multi-layer anti-reflection coated; 50.7° angle of view; F22 minimum aperture; helical focusing from infinity to 80cm.
Filter size	67mm diameter on PS 65mm to 250mm lenses; 77mm diameter on PS 50mm lens; 95mm diameter on PS 40mm and S 500mm lenses; 122mm diameter on PS 500mm lens; 32.5mm diameter on Fisheye PS 35mm lens.
Lens mount	Exclusive four-claw Bronica SQ bayonet mount.
Focusing	Helical focusing system built into each lens.
Shutter	Electronic control SEIKO #0 between-lens leaf shutter; shutter speeds 16 to 1/500 sec. plus B (Bulb) and T (Time); intermediate settings not possible.
Film winding	Film winding crank; one complete forward revolution or ratcheted winding action.
Mirror lock-up	Mirror lock-up possible with switch lever on the side of camera main body for a single or continuous picture taking.
Multiple exposure	Multiple exposure possible with switch lever on the side of camera main body.
Film back	Daylight loading interchangeable type; exclusive Film Backs SQ-i 120 (12 exp.), SQ-i 120J (15 exp.), SQ-i 220 (24 exp.), SQ-i 220J (30 exp.), SQ-i 135N, SQ-i 135W and Polaroid Film Back S; with ASA/ISO film speed dial on Film Back SQ-i, SQ-iJ, SQ-i 135 and ASA/ISO film speed switch on Polaroid film Back S coupling to the finders with built-in exposure meter, when attached.
Finder system	Interchangeable finder system; 94% of actual field of view (remains unchanged with different finders); choice of six optional finders, or Waist-Level Finder S, AE Prism Finder SQ-i, ME Prism Finder S, MF Finder S, Prism Finder S, and Prism Finder 45D S.
Focusing screen	Interchangeable type; standard screen has Microprism/Split-Image.
Flash synchronization	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.
Battery checking	Red-colored LED lights up within screen area when battery check button is depressed, if there is sufficient power; also double as shutter closing signal.
Battery	Four 1.5-Volt alkaline-manganese batteries; also powers AE Prism Finder SQ-i MF Finder S and ME Prism Finder S, when attached. (LR44 x 4 pieces).
Dimensions	92mm wide x 109mm high x 179mm long (SQ-Ai main body with standard lens, Film Back SQ-i 120 and Waist-level Finder S).
Weight	1515g (SQ-Ai main body with standard lens, Film Back SQ-i 120 and Waist-level Finder S).

Specifications of the Motor Drive SQ-i

Type	L-type for right-hand holding, with shutter release button.
For use with	Bronica SQ-Ai.
Winding system	Motorized automatic film winding action. (Single frame exposed and consecutive frames exposed).
Winding speed	About 0.7 second (at normal temperature).
Power source	Six AA-size alkaline-manganese (DC 9V). (NiCd batteries also acceptable).
Number of frames	About 120 rolls of 120 roll film can be exposed with fresh alkaline-manganese batteries in one continuous shooting session (at normal temperature).
Battery checking	Red-colored LED indication when battery check button is depressed.
Other features	Drive button, Over-load warning LED, Remote control terminal, External power terminal, Hot shoe.
Dimensions	142.5mm wide x 116mm high x 66mm long.
Weight	420g

Subject to change in specifications with or without prior notice.

BRONICA

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