



# ZENZA BRONICA GS-1

Revolutionary 6×7 Format Versatility.

## The Multi-Format Camera

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# Ideal 6×7cm Format—with Bronica

## GS-1—The Lightweight, Active 6×7cm Format Camera

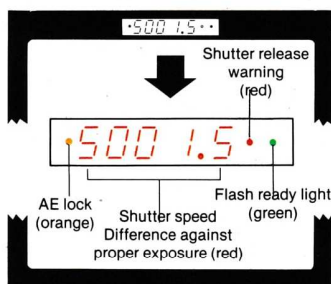
The new GS-1 changes the concept of the 6×7cm format camera and replaces the image of a bulky, heavy camera with a main camera body of great simplicity and compactness, with total weight only about 1,800 grams, when equipped for standard uses.

It has always been Bronica's contention that medium format cameras should also have handling ease and great versatility and the GS-1 has been successfully developed along this concept, by embodying the latest in mechanical-electronics technology developments. The GS-1, with the "ideal format" ratio, has also been developed to meet demands for a system camera of great versatility in the field and has a full range of interchangeable lenses, film backs, finders, etc.

## The Multi-Format System for All Types of Work

A combination matching any assignment is possible with the Bronica system, by freely exchanging lenses, finders, film backs, etc., on the main camera body. Besides interchangeable lenses, there are Waist-Level Finder and Prism Finder for manual exposure control, AE Prism Finder for aperture-priority auto-exposure and even auto-flash control, based on direct metering at the film plane, by using the Speed Grip and dedicated Electronic Flash. And, the Bronica film back system not only means free exchange of films during shooting sessions but multi-format capability for taking pictures in the 6×7, 6×6 and 6×4.5cm formats on 120/220 roll films, 24×36 and 24×69 formats on 35mm roll films and even Polaroid Land Pack film. This means that one camera can be used for various formats and film types, in color or black-and-white, with very simple film back exchanges.

## Auto-Exposure in the 6×7cm Format



### ● Aperture-priority TTL-AE

Thru-the-lens aperture-priority auto-exposure, based on a centerweighted average reading, is possible by attaching the AE Prism Finder G on the GS-1 and setting the shutter speed dial to A. Then, set the lens opening and the proper shutter speed is automatically set, from 16 to 1/500 sec., in 1/8th increments, by a built-in microcomputer, based on film speed data from the film back and exposure measurement data from the finder's silicon photocells.

The AE Prism Finder G also shows a bright, erect image which is laterally correct and ideal for fast, moving subjects. And, the selected shutter speed can be previewed by stroking the shutter button halfway which lights up an LED display in the finder, with 1/2 settings also shown between 1/2 to 1/500 sec., and over/underexposure indicated by flashing "16" or "500" on and off. An AE lock is effective for 16 seconds, with an orange-colored LED appearing on the display.

### ● Manual Exposure Control for Creativity

Manual exposure control, an important technique for creative photography, is also possible. Simply move the shutter speed dial off A and then set the required shutter speed and aperture. The shutter speed set will flash on and off on the LED display and indicate the manual mode, with the difference from the proper shutter speed displayed digitally, up to ±3 steps (in 0.5 step increments), and with larger differences indicated by a flashing "3" or "−3".

## New Electronically-Controlled Leaf Shutter

All Zenzanon lenses incorporate a newly-developed leaf shutter, based on time-proven characteristics of earlier lens shutters, which is controlled by accurate digital signals from the electronic control circuit in the main camera body and synchs at all shutter speeds up to the fastest 1/500 sec., with electronic flash units. This means that fill-in flash is possible at all shutter speeds and that there are no limitations on the use of the electronic flash for fast shooting actions.



## Auto. Exposures and Manual Operations—

### ● AE Prism Finder G

Newly-designed finder shows a laterally-correct upright image and provides aperture-priority automatic exposure control, based on thru-the-lens center-weighted average meterings. Lightweight, compact finder has automatic coupling of film speed dial and exposure compensation dial on the film back. Has 7 segment LED display, for previewing shutter speed, as well as LED flash ready-light, battery check and shutter release signal. AE lock is also possible.

- **Magnification:** 0.87x (with standard 100mm lens)
- **Finder field:** 52.3×64.9mm (94%×94%)
- **Exposure measurements:** TTL full aperture, with 2 SPC; full area average reading; EV2 ~ EV17 (ASA/ISO 100)
- **Film speed range:** ASA/ISO 3 ~ 6,400
- **Shutter range:** 16 ~ 1/500 sec. (in 1/8 steps on Auto)
- **Exposure compensation:** ±3 steps, in 1/3rd increments
- **Exposure control mode:** Aperture-priority AE and Manual
- **Finder indications:** 5 digit 7 segment LEDs
  - **Aperture-priority AE:** Shutter speeds, with intermediate 1/2 speed also indicated between 1/2 to 1/500 sec.
  - **Manual:** Preset shutter speed, and difference against proper exposure
  - **Others:** AE lock, shutter release warning and flash readylight
- **AE lock:** AE lock for 16 seconds
- **Eyepiece diopter:** −1.5 dptr supplied; can be exchanged for diopters in −4.5 to +2.5 dptr range
  - **Size:** 84(W)×134(L)×58(H)mm
  - **Weight:** 460 grams



## Newly-Designed Optics of High Contrast and Great Sharpness

New lightweight, compact Zenzanon-PG interchangeable lenses have been developed to complement the newly-designed GS-1 and, as befits lenses for professional users, have great resolving power and superb color balance, with superior image quality and natural color rendition, and, furthermore, provide sufficient illumination up to the edges, by incorporating a newly-developed Special No. 0 lens shutter.



### ● Zenzanon-PG 65mm F4

Wide-angle lens with minimum image distortion. Ideal for landscapes and snapshots.

- **Lens construction:** 7-9
- **Angle of view:** 68.5°
- **F/4 ~ 22** (with half click stops)
- **Shutter:** Seiko #0; T·B·16 ~ 1/500 sec.·A
- **Min. focusing distance:** 0.6m
- **Filter:** φ72mm
- **Size:** φ87×71mm
- **Weight:** 715 grams



### ● Zenzanon-PG 100mm F3.5

Commonly used as the standard lens. Universal optic for a wide range of purposes, with angle of view approximating the natural field of vision.

- **Lens construction:** 5-6
- **Angle of view:** 48°
- **F/3.5 ~ 22** (with half click stops)
- **Shutter:** Seiko #0; T·B·16 ~ 1/500 sec.·A
- **Min. focusing distance:** 0.75m
- **Filter:** φ72mm
- **Size:** φ87×67.5mm
- **Weight:** 630 grams



### ● Zenzanon-PG 150mm F4

A medium telephoto which is ideal for portraits because of its pleasing perspective.

- **Lens construction:** 5-5
- **Angle of view:** 33°
- **F/4 ~ 22** (with half click stops)
- **Shutter:** Seiko #0; T·B·16 ~ 1/500 sec.·A
- **Min. focusing distance:** 1.5m
- **Filter:** φ72mm
- **Size:** φ87×62mm
- **Weight:** 650 grams



# ica-Created Multi-Format Versatility.

## —with Interchangeable Finder System

### ● Prism Finder G

Eye-level finder, incorporating newly-developed prism, shows bright, laterally-correct upright image. Lightweight and compact.

- **Magnification:** 0.87x (with standard 100 mm lens)
- **Finder field:** 52.3 × 64.9 mm (94% × 94%)
- **Eye-piece diopter:** -1.5 dptr supplied; can be exchanged for diopters in -4.5 to +2.5 dptr range
- **Size:** 84(W) × 134(L) × 58(H) mm
- **Weight:** 430 grams



### ● Waist-Level Finder G

Reflex viewing finder for general uses. Ideal for studied composition work, with high-powered magnifier and effective light screening.

- **Magnification:** 1.5x (with standard 100mm lens)
- **Finder field:** 52.3 × 64.9 mm (94% × 94%)
- **Eye-piece diopter:** -1.5 dptr supplied; can be exchanged for diopters in -4.5 to +2.5 dptr range
- **Size:** 84(W) × 77.5(L) × 17(H) mm
- **Weight:** 100 grams



### Film Speed Dial and Exposure Compensation Dial on Film Backs couple to the Main Camera Body.



ASA/ISO film speed dial and exposure compensation dial on all film backs automatically couple to the AE Prism Finder G.

## Function-Oriented Compact Body

The main camera body of the new GS-1 has been developed as a lightweight, compact body for providing the medium format with great handling ease and portability for not losing a single shutter chance. At the same time, by incorporating the latest modern mechanical-electronical technologies, it has been possible to develop a medium format of multi-functions and multi-purpose uses, thus changing the medium format image of the past. The main camera body, which is the center of the new GS-1 system, incorporates the shutter control circuit, as well as circuits for signal transmission, exposure measurement and sensor function, etc.

● **Electro-magnetic shutter release system:** No shutter chances are lost because of the speedy reaction upon lightly touching the shutter button. And, remote control is also possible, with the body's cable release socket which accepts an Electro-Magnet Cable Release.

● **Single-action multiple exposures:** Creative effects are possible by simply moving a lever on the main camera body.

● **Large-size lock-up type reflex mirror:** Bright, easy-viewing mirror is locked up with a lever on the main camera body, even continuously.

● **Single forward rotation film winding crank.**

● **X-synching electronic flash (at all shutter speeds up to 1/500 second)**

● **Interchangeable focusing screens:** Various types can be interchanged freely, to match the assignment and/or lens, with types having lines for the 6 × 6 and 6 × 4.5 formats also available.

● **Auto-flash control with direct metering at the film plane:** The use of an exclusive dedicated electronic flash unit with the Speed Grip makes possible auto-flash control with direct metering at the film plane, as well as confirmation of an LED flash readylight, when the AE Prism Finder G is also attached.

## Multi-Format Versatility—with Complete Freedom in Changing Formats and Film Types.

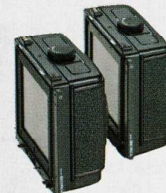
The Bronica film back system gives the user complete freedom in the use of various format sizes and film types, with very speedy and simple film back exchanges, even during shooting sessions or in mid-roll.

### ● Film Backs GS 120/220 (6 × 7)



Exclusive 6 × 7 cm format film backs for 120 and 220 roll films; 10 exposures on former and 20 on latter; film winding crank on main camera body is used.

### ● Film Backs GS 120/220 (6 × 6)



Exclusive 120 and 220 roll film backs for the 6 × 6 cm format; 12 exposures on former and 24 on latter; film back detachment requires dark slide insertion.

### ● Film Backs GS 120/220 (6 × 4.5)



Exclusive film backs for 6 × 4.5 cm format; 15 exposures on 120 roll film and 30 exposures on 220; vertical format pictures when used in the horizontal mode.

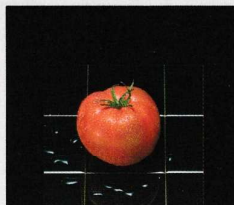
### ● Film Backs GS 135-N (24 × 36)/135-SW (24 × 69)



Exclusive film backs for 135 roll films; normal full-frame size with 135-N and two full-frames horizontally with 135-SW; wide variety of film types available.



### ● Polaroid Film Back G



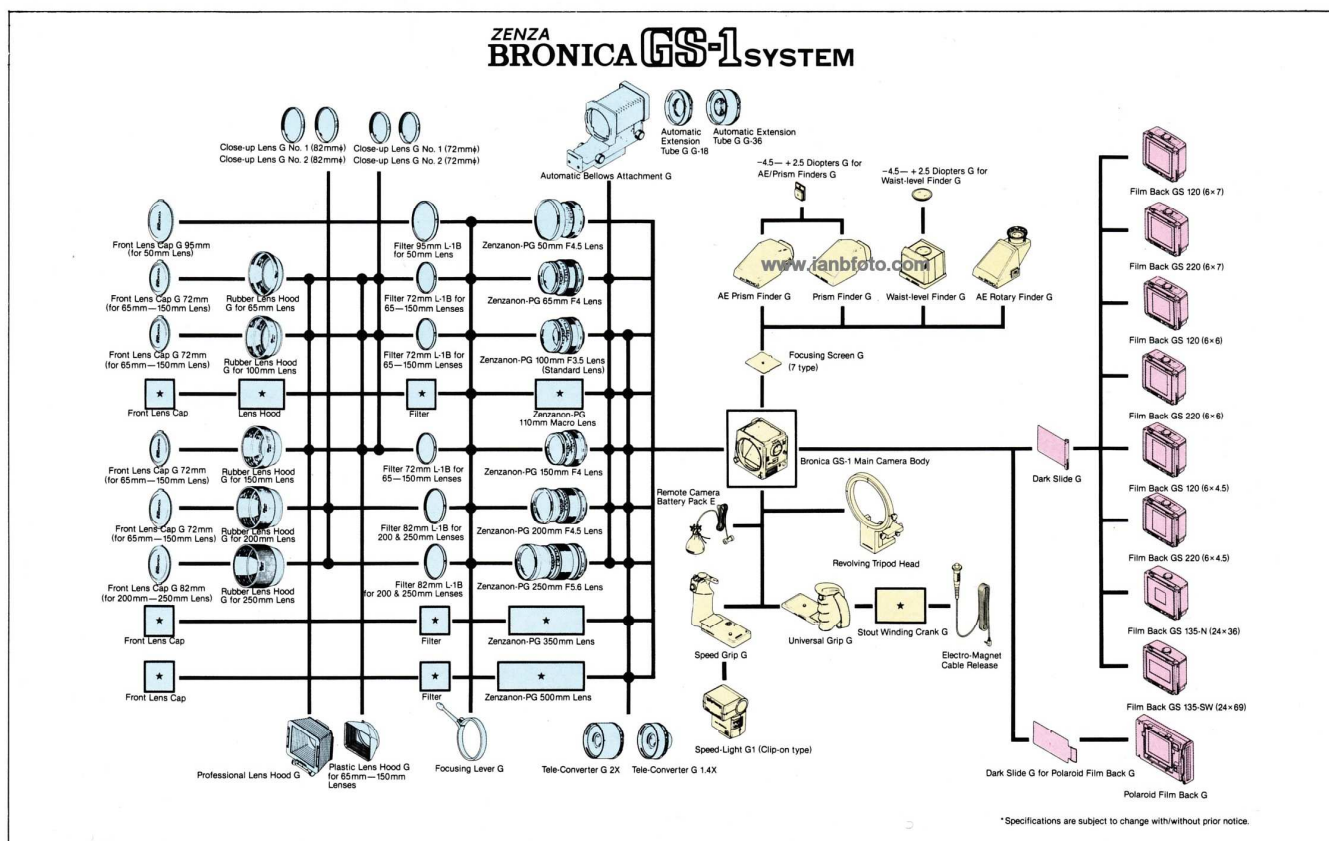
Provides instant pictures in 6 × 7 cm format for prechecking lighting and/or composition; film speed automatically couples to AE Prism Finder G.





## ● Specifications of the Zenza Bronica GS-1

<b>Type</b>	6 × 7cm format lens shutter single lens reflex camera, with interchangeable lens, film back, finder and focusing screen systems.
<b>Frame size</b>	55.6 × 69.0mm (4:5 ratio matching the size of the photographic paper)
<b>Film</b>	120/220 roll films; 135 roll film in film cartridges; and Polaroid pack films (with exclusive film backs required for each film types)
<b>Standard lens</b>	Zenanon-PG 100mm F3.5; interchangeable type; 6 elements in 4 groups; 48° angle of view; F22 min. aperture; Min. 0.75m focusing distance; $\phi$ 72mm Filter
<b>Lens mount</b>	Bronica GS mount (exclusive four-claw bayonet)
<b>Focusing adjustment</b>	Helical focusing system built into each lens.
<b>Lens diaphragm</b>	Fully automatic instant reopening lens diaphragm; 1/2 stop increments; equal distant aperture scale graduations.
<b>Shutter</b>	Electronic control SEIKO #0 between-lens leaf shutter; T•B•16 ~ 1/500 sec. •A
<b>Film winding</b>	Film winding crank, with one full forward revolution or ratcheted winding action.
<b>Multiple exposure</b>	Multiple exposure possible with multiple exposure lever on camera body.
<b>Mirror lock-up</b>	Continuous mirror-lock up possible with mirror lock-up lever on camera body.
<b>Film back</b>	Daylight loading interchangeable type; exclusive film backs for 120 and 220 roll films (6 × 7, 6 × 6 & 6 × 4.5 formats), 135 roll film (24 × 36 & 24 × 69 formats) and Polaroid Land pack film; with ASA/ISO film speed dial and exposure compensation dial (coupling to the meter finder)
<b>Finder</b>	Interchangeable type; shows 94 % of actual field of view
<b>Focusing screen</b>	Interchangeable type; standard type, supplied with camera, has full-area matte screen.
<b>Flash synch.</b>	X-setting (for all speeds up to 1/500sec.)
<b>Battery checking</b>	Steady illumination or flickering of shutter speed display in finder, with half stroke of the shutter release button.
<b>Battery</b>	Single 6 volts silver oxide or alkaline-manganese battery.
<b>Dimensions</b>	106.5(W) × 116(H) × 196.5(L)mm; GS-1 w/standard 100mm lens, Film Back GS 120 and Waist-Level Finder G.
<b>Weight</b>	1,830 grams; GS-1 w/standard 100mm lens, Film Back GS 120 and Waist-Level Finder G but without battery.



Changes in specifications and/or designs may be made without advance notice.

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