

# BRONICA

*Rangefinder 6x4.5*  
*New*



CAMERA PRESS CLUB  
**SPECIAL PRIZE**  
CAMERA GRAND PRIX 2001

Camera Grand-Prix:  
Camera Press Club Special  
Prize 2001



European Professional  
Camera of the Year 2001-2002  
(EISA)



Best Professional Photo  
Product in Europe 2001-2002  
(TIPA)

# *RF645*

*Rangefinder 6x4.5 Medium Format Camera*

# RF645



## *The Beginning of A New Legend.*

Introducing the 6x4.5 medium format rangefinder camera.  
Born of a breakthrough design philosophy,  
the Bronica RF645 redefines the parameters  
of photographic greatness with one goal in mind:  
enhanced creative expression for the discerning photographer.

Camera  
Grand-Prix:  
Camera Press Club  
Special Prize 2001



Bronica RF 645 has been given the Camera Grand-Prix Special Award by members of the Camera Press Club, from 13 major photographic magazines in Japan.

European  
Professional  
Camera of the Year  
2001-2002 (EISA)



Bronica RF 645 has been voted European Professional Camera of the Year by the Photo Panel of the European Imaging and Sound Association, which is comprised of editors of photographic magazines from 16 countries.

Best Professional  
Photo Product in  
Europe 2001-2002  
(TIPA)



Bronica RF 645 has been elected as the Best Professional Photo Product in Europe by members of the Technical Press Association, from 13 European countries.







## ■ *The means to capture discerning images*

With its high precision rangefinder and the extensive data display in the viewfinder, this is one of the most accurate and comprehensive designs ever created.

### High Precision, Superb Quality Real Image Rangefinder

The RF645 features a high accuracy, easy to view dual image superimposing rangefinder. The rangefinder employs a superb quality real image optical system using mechanical and optical components of the highest precision design and manufacture. Focusing is clear and precise. The readily visible bright frame technology utilizes automatic parallax compensation that adjusts the frame to the point of focus for optimum framing.



- |  |                                   |
|--|-----------------------------------|
| 1 Shutter speed<br>EX: 1/125= 125          | 6 AE lock                         |
| 2 Shutter speed/exposure<br>EX: F5.6=F 5.6 | 7 Shutter open                    |
| Exposure diff. +1.5= + 15                  | 8 Exposure compensation -         |
| Exposure diff. -1.5= - 15                  | 9 Exposure compensation +         |
| 3 Program AE                               | 10 Strobe charge complete         |
| 4 Aperture priority AE                     | 11 Interlock (release lock)       |
| 5 Manual                                   | 12 Battery status check           |
|  | 13 Bright frame                   |
|  | 14 Rangefinder image (dual image) |



Dedicated External Viewfinder for 45mm



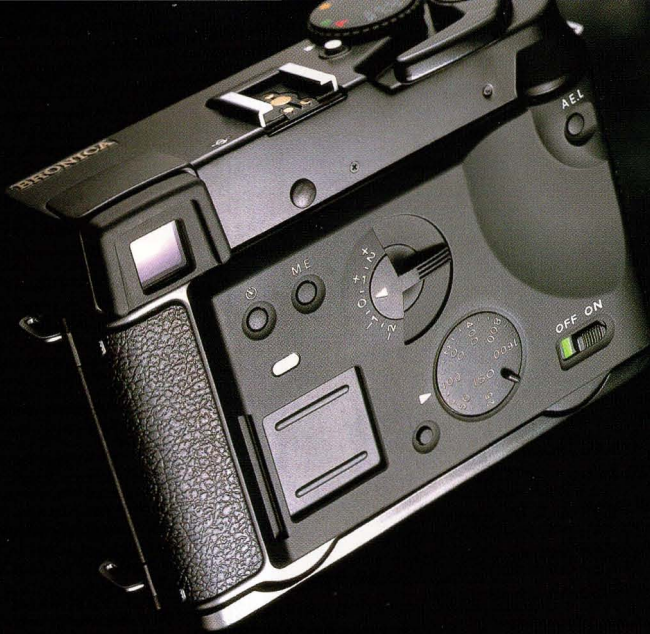
Standard 65mm



Wideangle 45mm

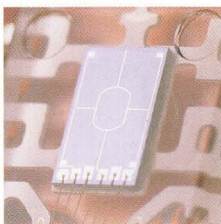
## ■ *Manipulating light through smart technology*

In addition to Aperture-priority AE and full manual mode, the on-board metering system provides Program AE mode that makes it possible to capture those once in a lifetime images. All of the camera controls are available at your fingertips creating the perfect balance between automatic and manual control.



## Aperture-Priority AE vs. Program AE: Two AE Modes

In addition to the conventional exposure mode in medium format cameras, in which priority is given to aperture, the RF645 also features a new Program AE mode. This Program AE feature is just one tool to give the photographer every possible advantage in capturing priceless photo opportunities.



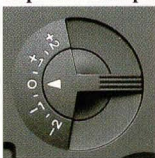
Use of Five-Segment Center-Weighted Average Metering

## Automatic Exposure Lock Button



Easily toggled on and off with a simple press of the button, the AE lock setting remains effective once activated unless it is switched off or the camera is unused for five minutes.

## Exposure Compensation Dial



The exposure compensation dial is large, conspicuously positioned on the camera back and thumb-operated for maximum ease of operation.

## Engineered for exactness and simplicity

The entire system is engineered with key devices such as a newly developed super silent electronic lens shutter and an automatic light shielding curtain, which is activated whenever a lens is removed from the camera.

## Fully Electronic Lens Shutter Unit

The shutter unit operations including shutter blade action, diaphragm movement and shutter recharge are all electronically controlled by an actuator inside the unit. This represents Bronica's first fully electronic shutter system.







### Failsafe Feature To Prevent Film Exposure

A major difficulty in creating an interchangeable lens with built-in shutter is that the camera body construction must prevent the film from being exposed when switching lenses. The lens removal and attachment mechanism activates a light shielding curtain to automatically cover the film surface.

### Classic styling: impeccable and impermeable

It's no secret that a simple design is often the most effective. Combining rugged construction with intuitive control placement creates an instant bond between the RF645 and you.

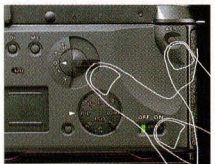
### Camera Design Approach

At Bionica, we have never considered the camera to be a mere tool of the trade for photographers. True professionals form a special bond with their cameras, a kind of partnership, working together to capture precious scenes that may never come again. The feel, the handling, the action: all these combine to make the camera much more than just a means of shooting photographs.

When we set out to design the RF645, our goal was to create a camera that photographers would love to handle, that would lead them into new creative territory. We aimed to design a new kind of rangefinder camera. In the RF645, we think we have succeeded.



Ratcheted or full-stroke film advance



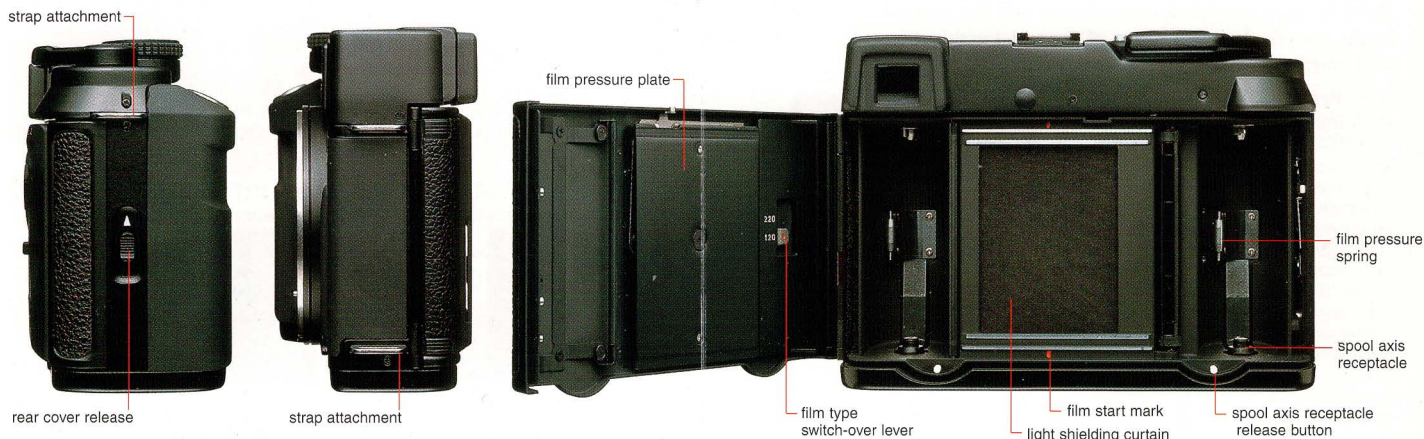
Dials and switches designed for ease of handling



### Metal Composite

Serious about combining structural strength with superior design and handling, we turned to advanced metal alloys for much of the body casing. The main body and front facing are die cast, the bottom plate is of brass, and the upper housing enclosing the viewfinder and integrated rangefinder mechanism is made of magnesium alloy.





## RF645 Specifications

Type:	645 interchangeable lens, coupled rangefinder, lens shutter camera
Frame size:	56mmx41.5mm
Film:	120/220 film
Exposures:	16 (120), 32 (220)
Lenses:	Wide:ZENANON RF45mmF4 (with dedicated viewfinder)/ Standard: ZENANON RF65mmF4
Focusing:	Manual helical focusing system
Film advance:	Film winding crank; one fullstroke or ratcheted winding action
Viewfinder:	Real image, dual image superimposing rangefinder, inversed Galilean type
Base length:	53.5mm (effective base length: 33mm)
Viewfinder magnification:	0.6x
Exposure mode:	Manual(M), Aperture-priority AE(A), Program AE(P)
Shutter type:	No.00 type lens shutter
Shutter speed:	Manual: 1sec.-1/500 sec.1EV step/AE: 8 sec.-1/500 sec.1/12 EV step/Program AE: 8 sec.-1/750 sec.1/12 EV step
Flash synchronization:	X-sync. all speeds
Light measurement:	Photo sensor positioned inside the viewfinder section (5 segment, center-weighted average metering)

Exposure Compensation:	+/-2EV step
Multiple exposure:	Multiple exposure possible with button on camera back, instant release,continuous setting possible
Self timer:	10 sec.Back panel button. Cancel feature included.
AE lock:	By pressing a button. Holds for 5 min. Cancel feature
Light shielding curtain:	Automatically activates, when switching lenses.
Viewfinder display:	Lens speed: A/P=appropriate shutter speed/M=set shutter speed Aperture: A=set aperture P=optimized aperture, M=selected aperture/ Shooting mode:A/P/M AE lock: When set, "AL" is displayed
Self timer operation:	Shutter speed display countdown Release unavailable: interlock displayed
Flash:	When attached and fully charged, LED activated Autocheck: flashing display when complete
Multiple exposure display:	warning flashes in shooting mode/Battery display: flashes when battery level becomes low
Power switch:	On back panel
Power source:	Two CR2 lithium 6V batteries
Attachments:	Hot shoe, release hole, X-setting
Size:	145.6 (W) x107.3 (H) x64 (D) mm
Weight:	810g (body only)



## ZENZANON-RF45mmF4

Focal length:	f=45mm
F-number:	F4-32
Angle of view:	75.5°
Lens construction:	7 elements, 5 groups
Minimum focus:	1m
Filter size:	58mm
Aperture:	7 blades
Dimensions:	43.9x76mm
Weight:	330g
35mm equivalence:	27mm
Accessories:	External Viewfinder, hood, lens cap, rear cap



## ZENZANON-RF65mmF4

Focal length:	f=65mm
F-number:	F4-32
Angle of view:	56.4°
Lens construction:	6 elements, 4 groups
Minimum focus:	1m
Filter size:	58mm
Aperture:	7 blades
Dimensions:	43.9x76mm
Weight:	300g
35mm equivalence:	39mm
Accessories:	hood, lens cap, rear cap

## Shedding the best light on the subject

### Bronica Speedlight RF20 (RF645 Dedicated Strobe)



Guide No.: 20 (ISO100 at normal)

Attachment: Hot shoe clip-on type.

Illumination angle: Manual two-step adjustable N (normal, 65mm photo angle covered), W (wide, 45mm photo angle covered)

Flash control: External auto flash control with illumination compensation

Auto flash Range: 1m-20m (100 ISO, depending on F-stop value)

No. of flash cycles: Over 100 at Full illumination (with new batteries)

Recycling time: 6 seconds (at full illumination)

Display: LCD (backlit) ISO value, F value, illumination mode, auto compensation value, regulated flash value, guide number, adjustment range

Switches: power switch, backlight switch, mode selection switch, compensation value input, test strobe, N/W selection

Full charge display: Green LED lights up

Auto check display: When light adjustment complete, red LED lights up for two seconds

Power saving function: Switches to power saving mode if not operated for five minutes

Power source: Two AA batteries (alkaline, or Nickel Cadmium)

Dimensions: 75(W)x53.6(H)x60.3(D)mm

Weight: 110g

## BRONICA

Exported by:

**TAMRON CO., LTD.**

17-11, 7-chome, Takinogawa, Kita-ku, Tokyo 114-0023, Japan

Phone: (03) 3916-0131 Fax: (03) 3916-1860



