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**BRONICA**

Rangefinder 6×4.5

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*New*

**RF645**

*Rangefinder 6×45 Medium Format Camera*

## *The Beginning of A New Legend.*

Introducing the new Bronica Rangefinder 645. With the high-fidelity expression of a medium format 6x4.5 camera, in a lightweight, compact body. A high precision real-image rangefinder with three interchangeable lenses. Versatile and responsive, this is a camera that exceeds expectations in every setting.

The elegant simplicity of the Bronica Rangefinder 645 defines it as the choice of the true professional. More than merely classic, the Rangerfinder 645 reinterprets the Bronica tradition with leading edge technology. This new Bronica medium format camera is the ideal tool in the hands of the discerning photographer.

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# **RF 645**

*Rangefinder 6x4.5 Medium Format Camera*

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# The RF645: A New Bronica

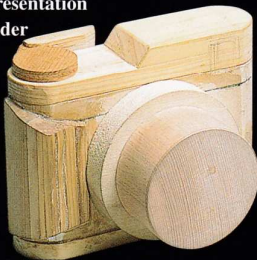
## The Challenge.

It was in the autumn of 1996 when Bronica first proposed the plan for its new medium format camera model. It had to be compact, and it had to be lightweight. Medium format quality with enhanced ease of handling. This was the challenge as we set out to give professional photographers the best of both worlds.

Here is the story of how Bronica rose to the challenge.

### Not Just Any Block Of Wood

The year was 1996. The setting, the Photokina show in Germany. Bronica staff from around the world were huddled in the back of the Tamron/Bronica booth, evaluating a new prototype. The model was a representation of a 6x4.5 rangefinder camera, featuring interchangeable lens with built-in shutter and manual film advance. This simple design concept was to form the basis for the new Bronica RF645 medium format rangefinder camera. Everybody in the booth recognized the potential of this new product idea: a compact, lightweight rangefinder camera with all the photographic performance of the 6x4.5 medium format.



■RF645 First mock-up

### A New Camera Concept

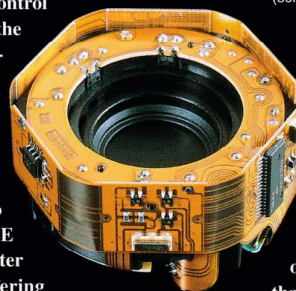
From a functional point of view, an SLR camera excels other types in many ways. A construction that facilitates fully automatic systems, and a viewfinder that captures images almost as crisp as they will appear on film. However, the format is not without its disadvantages. No matter how compact the design, there is a threshold below which even the smallest SLR cannot be reduced. Furthermore, the very ease of automation inherent in the SLR format tends to result in feature-laden cameras so complex that the intent of the photographer is lost in the equation, making for "black box" type cameras that place convenience over the personal touch in photography.

Our goal was to create a serious medium format camera combining compactness and lightweight, ease of handling with greater user control and interchangeable lenses. Offering an entirely new world of photographic freedom unlike anything the SLR can provide. Immediately following this secret product review, the Bronica design team went straight to work on making this remarkable new medium format rangefinder camera a reality.

However, there was no intention to simply reproduce the cameras of a bygone era. Rather, we set out to apply the best of modern engineering technology to combine medium format rangefinder performance with compact, lightweight design for excellent handling and ease of operation. This together with a carefully balanced approach to automation that maximizes convenience without sacrificing user control over key features.

### Compact & Lightweight Design

To place maximum control firmly in the hands of the photographer, we decided to develop a fully electronic lens shutter unit. This unit makes it possible to switch out lenses at will, and enables our designers to include the program AE feature. The lens shutter unit is key to offering enhanced freedom of expression to the serious photographer, and forms the backbone of our design philosophy for Bronica's new medium format rangefinder camera.



#### \*Fully electronic lens

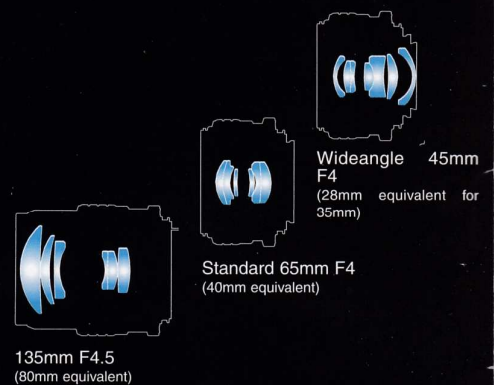
The shutter unit incorporates an electromagnetic motor that automatically recocks upon release, which allows lenses to be switched at will. Automatic aperture control is handled by a dedicated motor, facilitating program AE.

### Interchangeable Lens: No Easy Task

A major hurdle remained in creating an interchangeable lens system with built-in shutter. The camera body would require a system to prevent the film from being exposed when the lens is detached. We achieved this by implementing a light shielding curtain that unrolls to cover the film plane as the lens is detached, and rolls back as the next lens is attached. This is just another example of how our designers use automatic features to maximize functionality.



\*Automatic light shielding curtain protects film during lens switching



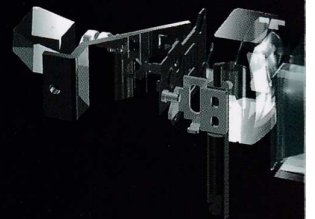
### Superb Selection Of Lenses

At the same time, Bronica was proceeding with design of the lenses. These are three: the 45mm F4, the 65mm F4, and the 135mm F4.5.

Regarding the optical system, we aimed for the precision detail and vividness, characteristics of medium format cameras, while achieving a compact design. We opted for a symmetrical optical configuration that maintains image quality with superior aberration compensation. We applied all Bronica's cumulative expertise and experience to design lenses optimally suited to our newly developed 6x4.5 medium format rangefinder camera.

### Rangefinder and Viewfinder Mechanisms

To ensure a rangefinder system capable of handling the 135mm telephoto lens, our team selected a superbly accurate real-image rangefinding system consisting of bright frame viewfinder with parallax auto-compensation. This viewfinder adds little to the overall size of the camera, while achieving excellent viewfinder magnification. Our design team set out to define the optimum magnification after carefully weighing many factors, and fixed the viewfinder system ideally suited for 65mm viewframe when a photographer looks through it with or without wearing glasses.



# RF645





## The means to capture discerning images

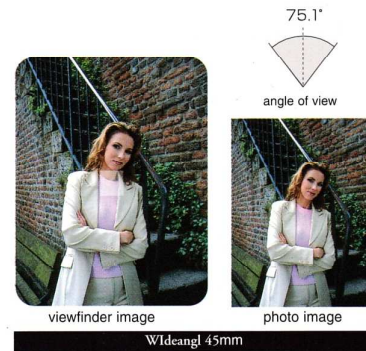
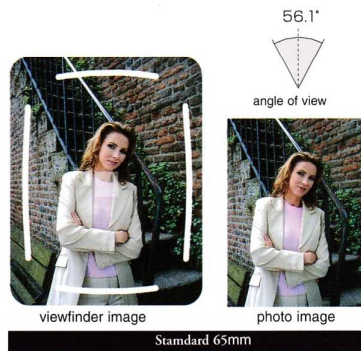
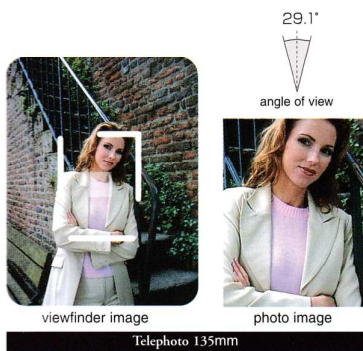
Accurate focusing depends on the right viewfinder display data at the right time. Here is the viewfinder with the technology to help capture the desired image exactly as perceived.

### •High Precision Rangefinder

The RF645 features a high accuracy, easy to view dual image superimposing rangefinder. The rangefinder employs extremely accurate real image metering suited for use with any lens up to the telephoto 135mm. 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.

### •Extensive Data Display In The Viewfinder

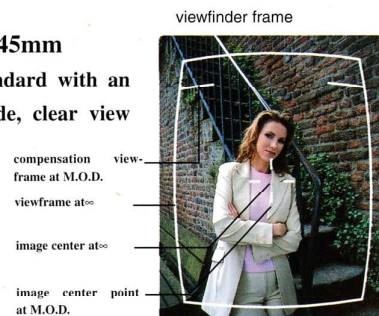
Backlit LCD in the viewfinder keeps the photographer informed of a variety of shooting data such as exposure settings. This enables the user to monitor the status of the camera without looking away from the viewfinder.



### • Dedicated External Viewfinder for 45mm

The wideangle 45mm F4 lens comes standard with an Albada-type external viewfinder. The wide, clear view makes shooting a snap.

●When using the 45mm lens, the bright frame does not appear in the camera viewfinder since it is filled by the 45mm view. The 45mm external viewframe is roughly equivalent to the entire field of vision in the camera viewfinder when set to infinity.



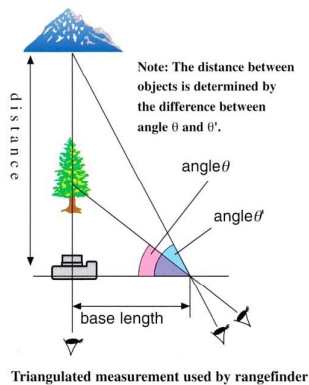
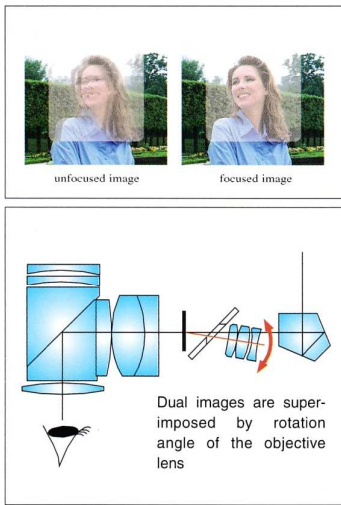
### •Dedicated RF45VFViewfinder Specifications

Type:	Inversed Galilean Viewfinder	Bright frame:	Albada type half mirror
Lens construction:	5 elements 5 lenses	Size:	44(W)x50.1(H)x51.7(D)mm
Magnification:	0.36x	Weight:	63.5g
Diopter adjustment:	-2.5Dpt - 1.0 Dpt. - +0.5 Dpt.		

## The means to capture precise images

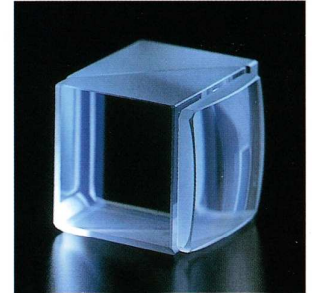
### ■ Triangulated Rangefinder Mechanism

The rangefinder uses the triangulation principle to achieve proper focus. As the lens extends outward in focusing, the angle movement is communicated to the rangefinder mechanism, and this angle is optically superimposed on the central viewfinder as a dual image (horizontal). When the two images are aligned, the image is in focus.



### ■ Bright, clear viewfinder optical configuration

The viewfinder utilizes an inversed Galilean optical construction, securing a bright, wide vision. The rangefinder imagery in the center of the finder view uses real image (as opposed to virtual) optics, and the well-defined contours of the rangefinder imagery make outstanding focusing comfort.



•Advanced prism technology is used to superimpose the viewfinder image, the bright frame image and LCD data in the viewfinder.

### ■ Accuracy Of The Rangefinder

The base length of the RF645 is 53.5mm. By multiplying this by the viewfinder magnification of 0.6x, an effective base length of 32.1mm is obtained. This is more than sufficient accuracy for the telephoto 135mm F4.5 lens (80mm@35mm conversion).

•For reference: when comparing the difference between the enlargement of a print from a 35mm camera and from a 6x4.5 camera (by ratio of circle of confusion at approx. 0.6), the converted effective base length would be about 50mm on a 35mm rangefinder.





### Bright, Clear Real Image Rangefinder

The virtual image rangefinder suffers from a lack of clear edges since the image is obtained on a plane different from the bright frame image formation. By contrast, the real image type rangefinder renders very clear edges by superimposing the rangefinder image on the masked area of the bright frame, providing square slits that harmonize the image sharply for very crisp rangefinder images.

#### Real image and virtual image optics

**Real Image Rangefinder(RF645)**

● The real image rangefinder enables the rangefinder image to be superimposed on the frame mask portion of the viewfinder for clearly defined edges and a bright rangefinder image.

**Virtual Image Rangefinder (Typical)**

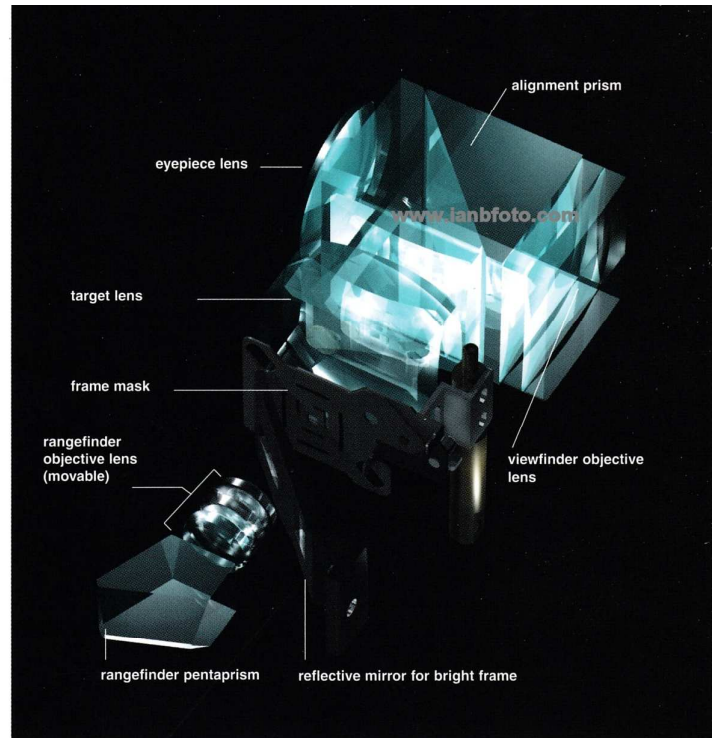
● The virtual image rangefinder uses two separate lenses for the bright frame image and the rangefinder image, making resolution of the images difficult to detect.

The real image rangefinder yields a sharp view of the edges of the rangefinder image, facilitating focusing that is as easy as horizontal alignment while providing two to three times the focusing accuracy. This achieves with ease the same type of focus as obtained by the SLR camera.

The discrepancy between the boundaries of the dual image makes for accurate focusing alignment

● To bring edges clearly into focus, the border between the upper and lower images is clearly visible, enabling the same type of approach as used in split image focusing.

The real image rangefinder optical system is designed to obtain an erect image, and uses the same pentaprism technology as SLR cameras. However, the pentaprisms are much smaller and installed in the rangefinder section of the camera. A remarkably high level of engineering capability is required in the assembly and adjustment of these highly complex components and systems.



### Bright Frame Viewfinder

Illuminated slits are projected by prism into the viewfinder to superimpose a frame of light on the object to be photographed. This approach affords a bright, readily accessible view of the subject when focusing. The RF645 bright frame finder adds no distortion. Since it matches the orientation of the viewfinder, it provides a clear field of vision that enables ease of focus in virtually every situation.

#### RF645 bright frame finder construction

● Depending on the field of vision of the attached lens, the bright frame mask slits switch and bright frames for each of the two vision angles appear. As the focus ring is adjusted, the parallax compensation feature comes into play.



## Manipulating light through smart technology

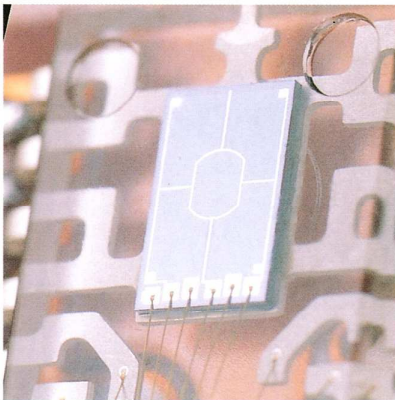
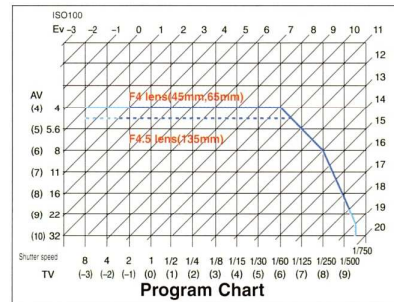
The program AE (automatic exposure) feature makes it possible to capture those once in a lifetime shots. The exposure compensation dial can be activated in a snap. Here Bronica has found the ideal balance between automated and manual control--all with the user in mind.

### Design Philosophy Of The Automatic Exposure System

At Bronica, we actively develop automated features that are easy for photographers to understand and use. Whether approaching the product as a medium format camera or as a rangefinder camera, our primary concern is how to optimize automation to make the camera as easy as possible to use. This led us to adopt a center weighted metering system and program AE for the RF645. The design of the exposure compensation dial and the AE lock system also reflect this commitment.

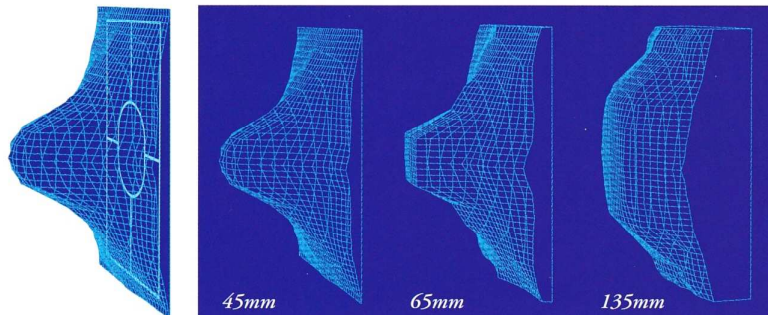
### Aperture-Priority AE vs. Program AE: Two AE Modes

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

The RF645 employs this easy to use, conventional light metering method best loved by skilled photographers. Using dedicated optics mounted on the rangefinder side of the camera housing, five-segmented sensor detects light from the entire field of vision then the information is processed in accordance with the viewing angle of the lens to provide optimized meter reading.

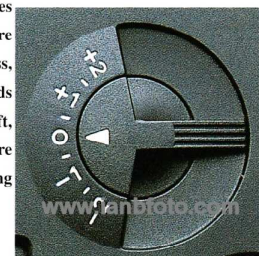


Five segment metering

metering sensitivity pattern

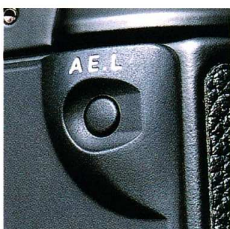
### Large Exposure Compensation Dial

In center-weighted average metering, exposure compensation procedures are a must. The RF645 makes these easier by positioning the exposure compensation dial on the rear cover of the camera body for easy access, and easy to read by making it large. In consideration of the actual needs of photographers in the field, a dial lock is eliminated to enable swift, undelayed operation using the right thumb. The compensation steps are 1/2EV, and a plus or minus sign appears in the viewfinder LCD during compensation.



### AE Lock

The AE lock function is vital to speedy photo shooting, and attention to detail in the RF645 AE lock reflects this. The AE lock button functions as a toggle switch, since it can be activated and deactivated simply by pressing and releasing. Activation of the AE lock feature records the exposure setting, which is displayed flashing on the LCD panel. Once the AE lock is activated, any number of photos can be taken at the same AE setting, without the need to continually press the AE lock button. Furthermore, the AE lock function will not be automatically cleared unless the camera is unused for five minutes or the main switch is turned off.





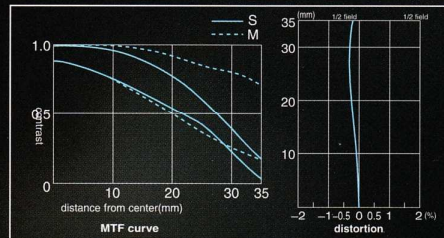
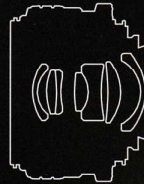
# The crystalization of creative images

Acute, vibrant images. Superb user-friendliness and ease of handling. A highly compact body. The RF645. Its elegance of design is only matched by the beauty of its performance.

## ZENZANON RF45mmF4

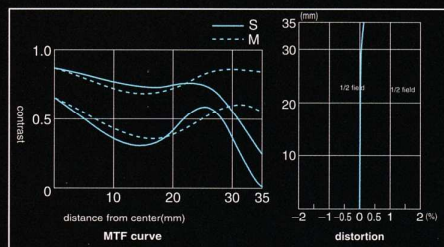
This is a wideangle 45mmF4 lens (28mm@35mm conversion) with a 75.1° angle of view. The sharp, highly vivid images and high contrast make it a fine example of symmetrical wideangle lens design.

Compared with the SLR camera, which requires a quick return mirror between the back of the lens and the film plane, the rangefinder camera allows for a shorter clearance to the film plane. The RF645 takes full advantage of this with symmetrical type wideangle (Super Angulon and Viogon type) optical design. This simple, straightforward design materializes compactness in chassis and improves efficiency in aberration compensation. The reduced distance to the film plane also suppresses the possibility of internal reflection, resulting in a crisper image.



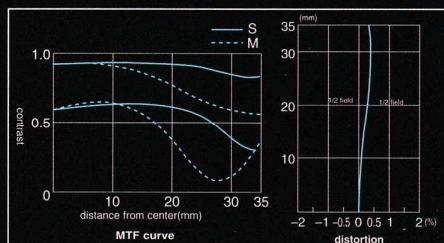
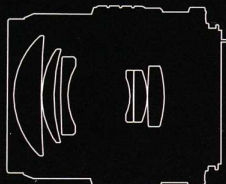
## ZENZANON RF65mmF4

This lens is a standard 65mmF4 (40mm) with a 56.1° angle of view. The lens provides very even field of image in a compact and lightweight package, that matches the RF645 perfectly. The optical system takes a very balanced approach to preventing astigmatism, curvature of field and distortion, and is of the symmetrical Orthometer type design. This lens is ideal for bringing out the balance between sharp vividness and ease of handling for utmost practical use.



## ZENZANON RF135mmF4.5

The telephoto 135mm (80mm) with a 29.1° angle of view. compactness ease of handling and high fidelity image depiction combined with excellent color rendition characterize this lens. The optical system is derived from the popular Gauss type, widely incorporated in the Zenzanon P Series lenses. Based on a symmetrical optical configuration, the power balance between the front and rear groups is ideally distributed, contributing to making the overall dimensions of the lens smaller.



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*A fully electronic lens shutter unit for maximum ease of handling*

www.ianbfoto.com

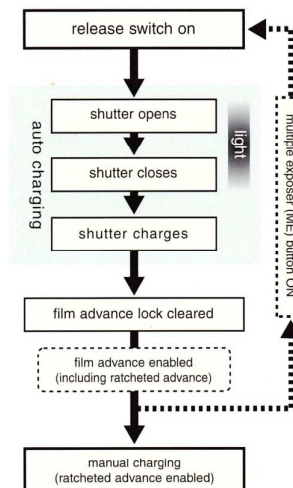
**Fully Electronic Lens Shutter Unit**

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. Electronic contacts between the lens and camera mount enable completely electronic interface for exposure features involving both camera and lens. In this way, Bronica was able to achieve features that normally are unsuited to lens shutter camera systems, such as program AE. Unlike conventional lens shutter units, there is no tension spring movement, resulting in quieter, more stable shooting. Additionally, the Bronica RF645 features a single action lens interchange system, which has been very difficult to achieve on rangefinder cameras with a lens shutter.

**Auto Recharging System**

**Toward A More Handy Release System**

The RF645 features an automatic shutter recharging system that recharges immediately upon shutter release. This allows the shutter and the film advance actions to be independent since the shutter cocking occurs in sequence once the shutter is released. With this system configuration the camera offers a smooth shooting action similar to that of a camera with automatic film advance, while enabling partial or full-stroke manual film advance.



RF645 release sequence

■ **Maximum Shutter Speed of 1/750 Second**

By employing a fully electronic lens shutter, a stable shutter speed has been secured, with maximum speed of 1/750th of a second (using program AE at F8-minimum aperture only).

● With a small aperture, the lens shutter opening time becomes shorter than for a full open aperture. Therefore, the shutter speed appears faster even though the actual movement does not change. The RF645 has succeeded in attaining 1/750th of a second when set at apertures of F8 or less on program AE.

■ **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 of switching lenses. The lens removal and attachment mechanism activates a light shield curtain to automatically cover the film surface.





*Precision imaging and high fidelity reproduction*





ZENZANON-RF45mm programmedAE(F11) ISO100

## ZENZANON RF45mm F4



ZENZANON RF45mmF4  
 Focal length: f=45mm  
 F-number: F4-32  
 Angle of view: 75.1°  
 Lens construction: 7 elements, 5 groupes  
 Minimum focus: 1 m  
 Filter size: 58mm  
 Aperture: 7 blades  
 Dimensions: 43.9x76mm  
 Weight: 330g  
 35mm equivalence: 27mm  
 Accessories: External Viewfinder,  
 hood, lens cap,  
 rear cap

## ZENZANON RF65mm F4



ZENZANON RF65mmF4  
 Focal length: f=65mm  
 F-number: F4-32  
 Angle of view: 56.1°  
 Lens construction: 6 elements, 4 groups  
 Minimum focus: 1 m  
 Filter size: 58mm  
 Aperture: 7 blades  
 Dimensions: 43.9x76mm  
 Weight: 300g  
 35mm equivalence: 39mm  
 Accessories: hood, lens cap,  
 rear cap

## ZENZANON RF135mm F4.5



ZENZANON RF135mmF4.5  
 Focal Length: f=135mm  
 F-number: F4.5-32  
 Angle of view: 29.1°  
 Lens construction: 6 elements, 5groups  
 Minimum focus: 1.8 m  
 Filter size: 62mm  
 Aperture: 7 blades  
 Dimensions: 85.3x77mm  
 Weight: 540g  
 35mm equivalence: 81mm  
 Accessories: hood, lens cap,  
 rear cap



## Classic styling: impeccable and impermeable

A rock-solid construction to protect the delicate interior. The feel and handling of true quality. The RF645 embodies the touch of unchanging quality.

### ■ Camera Design Approach

At Bronica, 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.

### ■ Form Born of Function

The RF645 is an excellent example of beautiful design based on superior function. The revolving focus mechanism of the lens, for example. We intentionally avoided matching this to the direction of our Bronica SLR camera series focus mechanism, chasing instead to let the rangefinder's horizontal motion dictate the best approach to focus for the RF645.

The exposure function was designed for maximum visibility, and the positioning of the key controls on the back cover of the camera was determined by functionality, enabling virtually all operations to be handled by the right thumb alone. The dial itself was designed to be large for ease of use, while the decision not to include a lock mechanism was made with convenience for the professional user in mind.

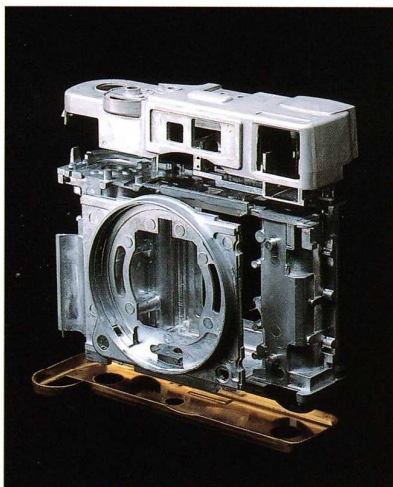
All in all we have in the RF645 an outstandingly functional camera that fulfils the wishes of the professional photographer: with manual film advance both in ratcheted and/or full-stroke lever operation, fully electronic lens shutter unit, and much more.



Dials and switches designed for ease of handling



Ratcheted or full-stroke film advance

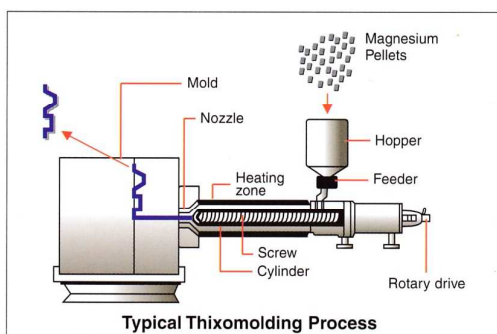


### ■ Metal Composites

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.

### ■ Upper Housing Made Of Magnesium Alloy

The upper housing enclosing the viewfinder and integrated rangefinder mechanism is made of lightweight, extremely robust magnesium alloy. The magnesium portions are manufactured by the leading edge Thixomolding process, enabling creation of complex shapes through metal injection molding.



Typical Thixomolding Process

● Unlike die casting, in which molten metals are formed under intense heat and pressure, magnesium Thixomolding uses near-solid magnesium alloy chips injected into a mold in a process similar to plastic injection molding. This process prevents warping caused by temperature changes, and with minimal finishing required, the method is ideal for line production. Injection molding also allows for great freedom of form, a strong advantage from a product design perspective.



## Shedding the best light on the subject

### Introducing A Dedicated RF645 Speedlight

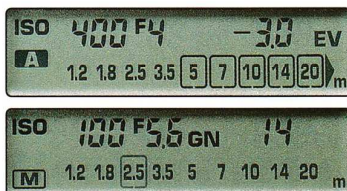
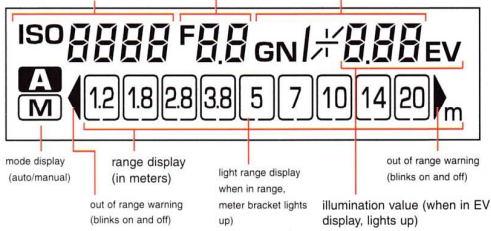
Bronica has announced a compact, dedicated speedlight for the RF645, designed in accordance with guide number 20 (normal illumination angle, ISO100). The beam adjustment method employed is external beam automatic, for stable exposure effects. The illumination angle is two-step adjustable: normal for the 65mm standard lens, and wide for the 45mm wideangle lens. Since the RF645 employs a lens shutter unit, shooting with the strobe can be successful at shutter speeds of as high as 1/750th of a second. Synchronized shooting in daylight conditions may be a challenge for focal-plane shutter cameras, but is very simple and straightforward for this unit using either aperture-priority AE or program AE settings. And since strobe adjustment correction is independent of the camera exposure compensation system, strobe effects can be controlled freely. Manual flash photography is also possible.

### Aperture-Priority AE Mode

In aperture-priority AE mode, the aperture setting on the lens is transmitted to the speedlight to adjust the strobe beam, enabling auto strobe shooting at any aperture setting. In this mode, ambient light can be utilized to any degree to capture atmosphere through slow speed synchronization.

### Program AE Mode

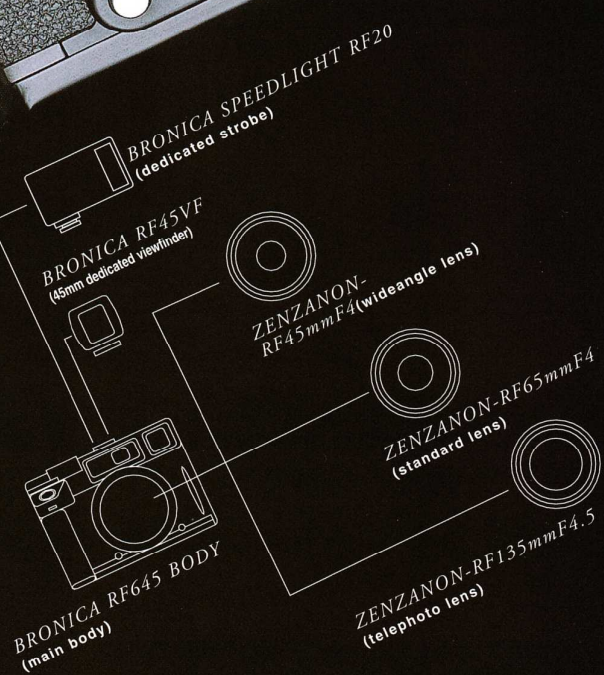
In program AE mode, fully automatic strobe shooting is possible. In this mode, the shutter speed will not fall below 1/60th of a second (1/90th for the telephoto lens) so minimal blurring occurs during straight flash photography.



### 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 (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, NW 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) x 53.6 (H) x 60.3 (D) mm
Weight:	110g

*A system for exploring new creative realms*



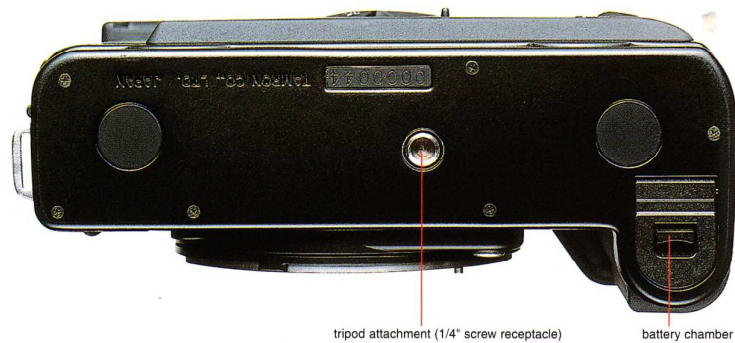
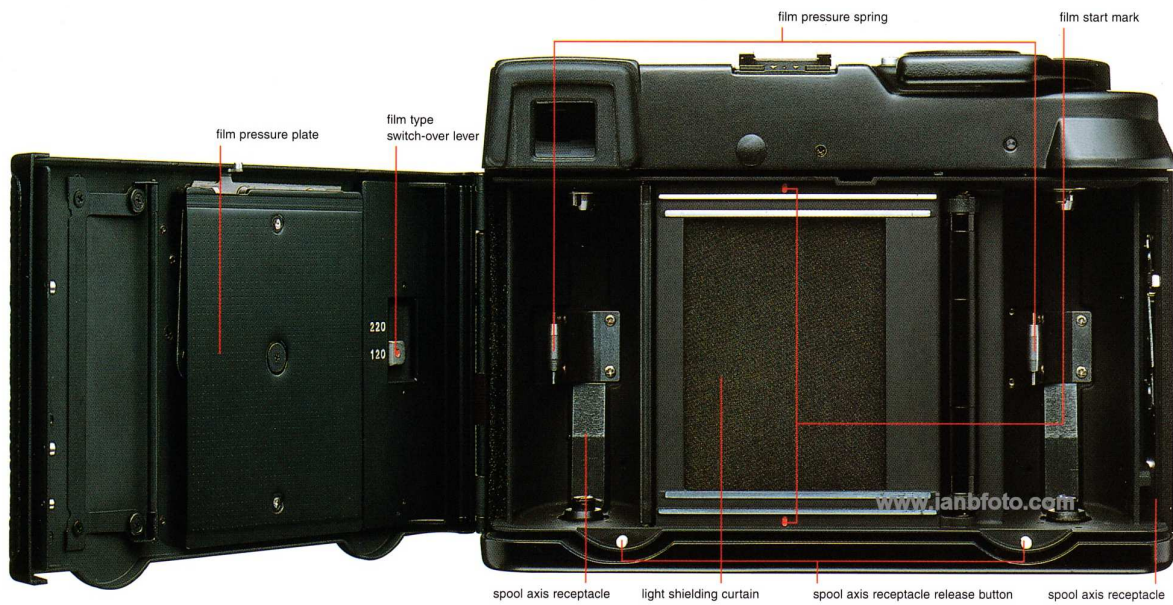
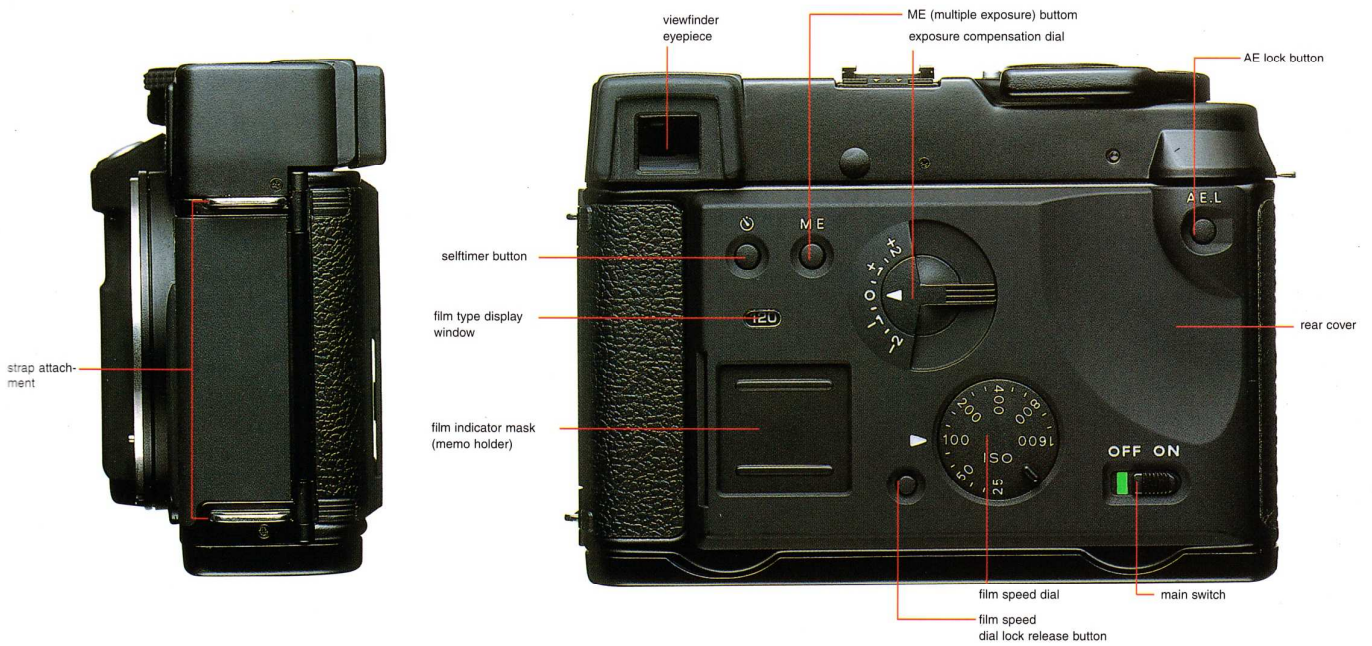
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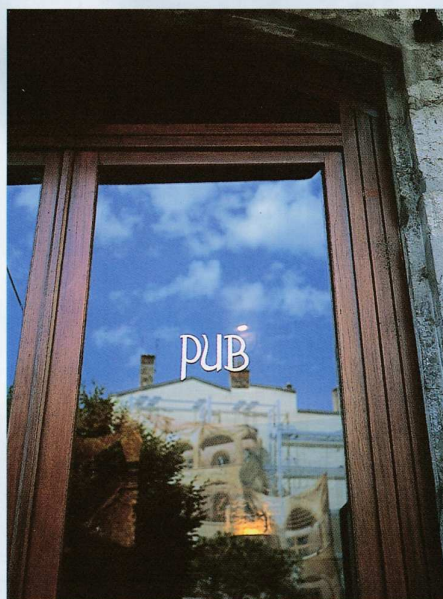


**Bronica RF645**

<p>Type: 645 interchangeable lens, coupled rangefinder, lens shutter camera</p> <p>Frame size: 56mm x 41.5mm</p> <p>Film: 120/220 film</p> <p>Exposures: 16 (120) , 32 (220)</p> <p>Lenses: Wide: ZENZANON RF45mmF4 (with dedicated viewfinder) Standard: ZENZANON RF65mmF4 Telephoto: ZENZANON RF135mmF4.5</p> <p>Focusing: Manual helical focusing system</p> <p>Film advance: Film winding crank; one fullstroke or ratcheted winding action</p> <p>Viewfinder: Real image, dual image superimposing rangefinder, inverted Galilean type</p> <p>Base length: 53.5mm (effective base length: 33mm)</p> <p>Viewfinder magnification: 0.6x</p> <p>Exposure mode: Manual (M), Aperture-priority AE (A), Program AE (P)</p> <p>Shutter type: No. 00 type lens shutter</p> <p>Shutter speed: Manual: 1 sec. - 1/500 sec. 1 EV step AE: 8 sec. - 1/500 sec. 1/12 EV step Program AE: 8 sec. - 1/750 sec. 1/12 EV step</p> <p>Flash synchronization: X-sync. all speeds</p> <p>Light measurement: Photo sensor positioned inside the viewfinder section (5 segment, center-weighted average metering)</p>	<p>Exposure Compensation: +/- 2EV step</p> <p>Multiple exposure: Multiple exposure possible with button on camera back, instant release, continuous setting possible 10 sec. Back panel button. Cancel feature included.</p> <p>Self timer: 10 sec. Back panel button. Cancel feature included.</p> <p>AE lock: By pressing a button. Holds for 5 min. Cancel feature Automatically activates, when switching lenses.</p> <p>Light shielding curtain: A/P=appropriate shutter speed, medium=set shutter speed</p> <p>Viewfinder display: Lens speed: Aperture: A=set aperture, P=optimized aperture, M=selected aperture</p> <p>Shooting mode: A/P/M</p> <p>AE Lock: When set, "AL" is displayed</p> <p>Self timer operation: Shutter speed display countdown</p> <p>Release unavailable: interlock displayed</p> <p>Flash: When attached and fully charged, LED activated</p> <p>Autocheck: flashing display when complete</p> <p>Multiple exposure display: warning flashes in shooting mode</p> <p>Battery display: flashes when battery level becomes low</p> <p>On back panel</p> <p>Two CR2 lithium 6V batteries</p> <p>Hot shoe, release hole, X-setting</p> <p>Size: 145.6 (W) x 107.3 (H) x 64 (D) mm</p> <p>Weight: 810g (body only)</p>
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*Philosophy & technology for one purpose: great shooting*





ZENZANON-RF65mm aperture priority AE F5.6 ISO100

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**⚠ Caution :** Please read the instruction manual carefully before using the camera.

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**BRONICA**

**TAMRON CO., LTD.**

17-11,7-chome, Takinogawa, Kita-ku, Tokyo 114-0023, Japan  
TEL: (03)3916-0131 FAX: (03)3916-1860

[www.ianbfoto.com](http://www.ianbfoto.com)

