CONTAX RTS

Real Time Photography

CONTAX RTS

Real Time System

Photography is without doubt an effective means of visual expression. As such, it is playing an increasingly vital role in all fields of our modern society—art, industry, scientific research, astronomy and many other arenas.

And as such, the equipment used in photography should not in any way restrict the photographer, whether he is an amateur or professional, to manifest his creativity.

The most difficult part in designing an equipment with a reasonably high degree of versatility lies in the fact that the requirements differ with what the photographer proposes to record on the film—the subject, situation and his particular way of expression.

To adapt the camera to virtually all situations, whether it be photography of a fast-moving subject or an artistic effect of light, all the up-to-date know-how in the field of optics, electronics and precision engineering was mobilized and the Contax RTS with a whole range of Real Time System accessories and Zeiss T* lenses was developed.

Taken with Tele-Tessar T f/3.5 200mm lens.*

Above anything else, the Contax RTS and its Real Time System opens new horizons in Real Time Photography—the translation into photographic images what the photographer actually perceives or envisions, with the highest degree of accuracy and color fidelity.

The designers of the Contax RTS are firmly convinced that what the photographers have so far sought for are the limitless possibilities of Real Time Photography.

Through selective use of the superb Zeiss T* lenses and the outstanding accessories, the advantages of Real Time Photography can be brought to all fields of photography.


RTS
CONTAX
Planar 1,4/50
Carl Zeiss
CONTAX
TIME WINDER
CONTAX
RTS
CONTAX

CONTAX RTS— The Herald of Real Time Photography

Automatic features and functional precision do not necessarily make a camera system that assures versatility of photographic expression. Add to them such decisive factors as instantaneous functional response and absolute fidelity of visual information and a whole new photographic possibility opens up.

But quality, precision, dependability, plus automatic controls and instantaneous functional response and visual display of information would certainly be meaningless if the camera design is such that the photographer has to fumble awkwardly each time he is called to make an exposure.

All these factors and many more were fully taken into account in the course of development of the Contax RTS. That's why this highly advanced 35 mm single-lens reflex camera is peerless in versatility and opens up the unlimited possiblities of Real Time Photography.

The Contax RTS is characterized by the fact that it becomes a 'tool of photography' best suited to the requirements of whoever takes it in hand.

Whether it is used singly or in combination with various system accessories, it affords the same instantaneous functional response.

All controls of this attractive camera are positioned in such a way as to provide ready access to the photographer in the most natural posture.

All knobs and other controls are made as large as possible and all scales are engraved in readily legible figures.

The Contax RTS is by far the most automatic equipment if the photographer requires it as such. On the other hand, should the photographic situation demand, it instantly transforms into a high precision equipment with utmost versatility of manual exposure control.

The very factors which distinguish the Contax RTS from all other up-to-date SLR models are the Real Time systems built into its compact body.

• Real Time Electromagnetic Release System

This electromagnetic release system designed specifically to meet the exacting requirements of an advanced 35 mm SLR system camera is activated electrically. Depression of the magnetic release button over a range of only 0.7 mm establishes contact of a microswitch which instantly triggers a chain reaction—it activates the light reading system, stores the exposure information in memory register, flips up the mirror and activates the shutter to expose the film, all in a split-fraction of a second. The feather-touch magnetic release button permits shutter tripping without the possibility of erratic movement of the camera at the critical moment of exposure. Moreover, as the release functions electrically, it opens up new possibility in system application.

• Real Time Viewfinder Display

The Contax RTS features a 16-dot LED (light emitting diode) array shutter speed display which instantly comes on through depression of the LED display pushbutton regardless of whether the film has been advanced or not.

It displays the correct shutter speed in relation to the f-stop in use whether the camera is set for automatic or manual mode of operation.

On manual mode of operation, this shutter speed display provides an effective guide for setting the precise exposure through preselection of either the lens aperture or shutter speed.

Also visible in the viewfinder is the aperture display which shows the preselected aperture as well as the maximum aperture of the lens in use.

• Real Time Shutter Speeds

The unique focal plane shutter designed specially for the Contax RTS eliminates all possibilities of exposure errors. It is perhaps the only shutter of its type which guarantees accurate exposure even at the maximum shutter speed of 1/2000 sec.

On both automatic and manual modes of operation, the shutter speed is timed electronically.

• Real Time Remote Control Operation

The original electromagnetic release system which is activated electrically offers innumerable advantages of Real Time remote control operation. Remote control accessories can be plugged directly into the release socket on the camera body and the shutter activated through simple electric switching.

• Real Time Motor Drive System

With the Contax RTS, the motor drive unit when attached to its base becomes an integral part of the camera system. Because film drive will not operate unless a signal is transmitted from the camera body, there is absolutely no fear of the film being transported part way during exposure. The unique system incorporated in the Contax RTS assures precise synchronization of the shutter and motor drive operation even when the camera is set on auto.

• Real Time Zeiss T* Lenses

The superb image quality and high fidelity color reproduction of the Zeiss T* lenses affords unlimited possibility of photographic expression.

Most of them feature extra-high speed design, enabling the photographer to select comparatively high shutter speed even in subdued light situations—a definite advantage of Real Time Photography.

For full information on the Contax RTS, write for the comprehensive brochure, inclosing the actual cost and return postage.

Versatility of System Application

The secret behind the unparalleled versatility of the Contax RTS lies in the fact that every functional feature of this high precision camera was developed with the object of adapting it most effectively to various system application.

The Contax/Yashica mount with internal linkage system, for example, instantly makes any Zeiss T* lens or accessory in use an integral part of the camera body system.

The electromagnetic release system has moreover been designed with system application in mind. It provides shutter activation through electric contact rather than by physical pressure. And it is due to this unique mode of shutter activation that most convenient and effective use fo remote control accessories is afforded.

The versatility in remote control operation is not the only advantage of the electro-magnetic release. As soon as the exposure is completed, the motor drive switch incorporated as an integral part of this system makes contact automatically to signal that the camera is ready for film wind. Together with the film drive coupling system on the base of the camera, this feature assures such convenience in motor-drive-assisted photography as could not possibly expected with other cameras. It permits the photographer to attach the motor drive unit directly to the camera base without the trouble of removing the base-plate or making other modifications. Also, it enables him to take full advantage of the fully automatic exposure control whether the motor drive unit is set for continuous automatic film drive or single frame film drive.

Among the wide variety of the system accessories designed for the Contax RTS, the following are especially worth noting:

The Real Time Winder is a compact, lightweight and versatile motor drive unit which truly makes motorized film drive a standard procedure in all fields of photography. This unit attaches directly to the camera base by utilizing the tripod socket and provides two-way choice of film drive modes—continuous automatic film drive at a maximum speed of two frames per second and single-frame film drive, both usable with the camera set on auto-matic or manual exposure control.

This Real Time Winder has a socket for accepting the Interval Timer which affords automatic shutter tripping at preset intervals ranging from 1 to 120 sec. Moreover, it can be used in combination with the Data Back or any one of the wide range of remote control accessories.

Besides the Real Time Winder, the Professional Motor Drive System including the Professional Motor Drive unit permitting automatic continuous film drive at the maximum speed of 5 frames per second, 250 Film Back, external power supply (power pack and AC Control Box) and all other accessories that make up a truly professional motor drive system, is available.

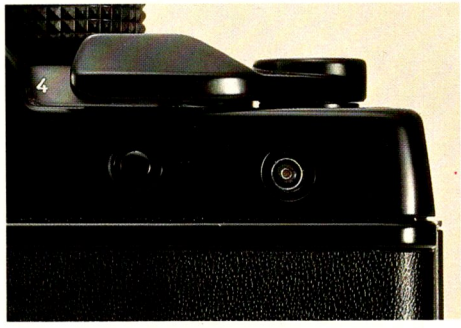
The remote control accessories currently available on the market include four different types of Cable Switches (Contax RTS uses these switches instead of the cable release), the Infrared Controller Set which activates the shutter through transmission of infrared ray pulse and which provides an effective radius of operation of up to 15 meters, and the two-channel Radio Controller Set capable of controlling two cameras either simultaneously or alternately.

The exclusive close-up accessories include the Auto Extension Bellows, Focusing Rail, Slide Copier, Macro Stand and Auto Extension Tube Set.

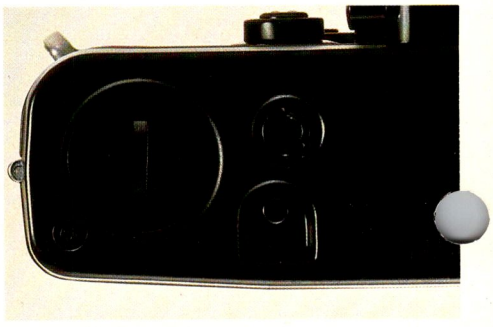
The Auto Extension Bellows attachment is in itself a system. It comes with a shutter connector cord and cable release and provides fully automatic diaphragm action. The most significant part of this attachment is that the camera can be rotated for either vertical or horizontal format shooting without detaching the camera body from the bellows. The lens board section can be released for horizontal shift and swing. Without removing the lens board itself from the track, the lens can be rotated and positioned in reverse. By utilizing the Focusing Rail, the Macro Stand can be attached for most versatile photography of small specimens.

All these and many more adapt the Contax RTS for ideal system application in all spheres of photography.

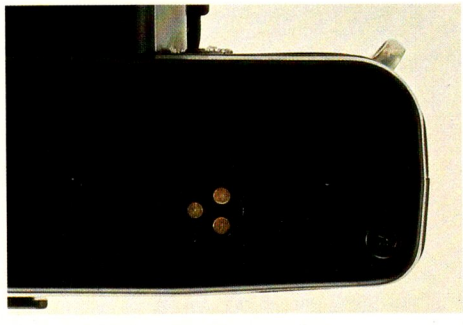
(See 'System Accessory Chart' for list of Contax RTS accessories.)



Concentric release socket on the camera body permits shutter tripping with the aid of an electric switching device. Various types of system accessories can be plugged directly into this socket.



Actual film wind with the aid of the motor drive is accomplished by means of this film drive coupling on the camera base.



The motor drive coupling terminal transmits a signal to the motor drive that the exposure has been completed.

Full details on Contax RTS accessories are contained in a full-color brochure which is available from your nearest Yashica office.


CONTAX
REAL TIME WINDER
CONTAX
Carl Zeiss

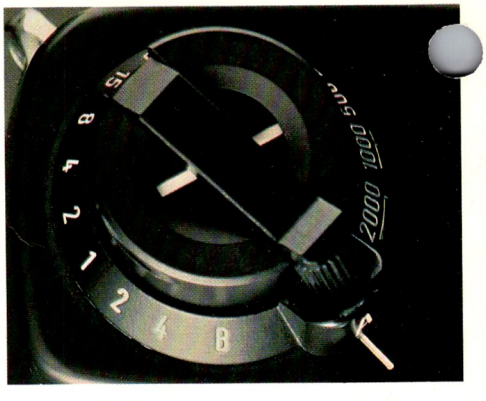
CONTAX RTS— Feature Outline

Standard Lens

Planar T* f/1.4 50 mm lens composed of 7 elements in 6 groups, interchangeable with a wide range of Zeiss T* lenses.

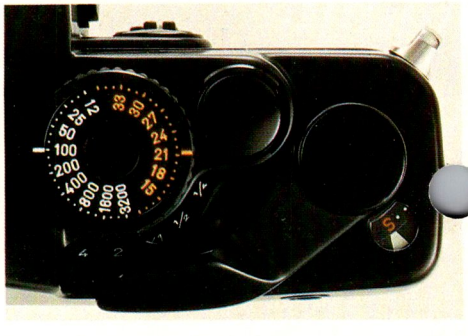
Shutter

Focal plane shutter of a unique design provides precise electronic timing on both automatic and manual modes of operation. On auto, the shutter speed is continuously variable over the range from LT (4 sec. – f/1.4 at ASA 100) to 1/2000 sec. On manual, 14 clickstop shutter speed settings, plus B, are provided.
Standard X flash contact and direct X contact shoe. Built-in self-timer.

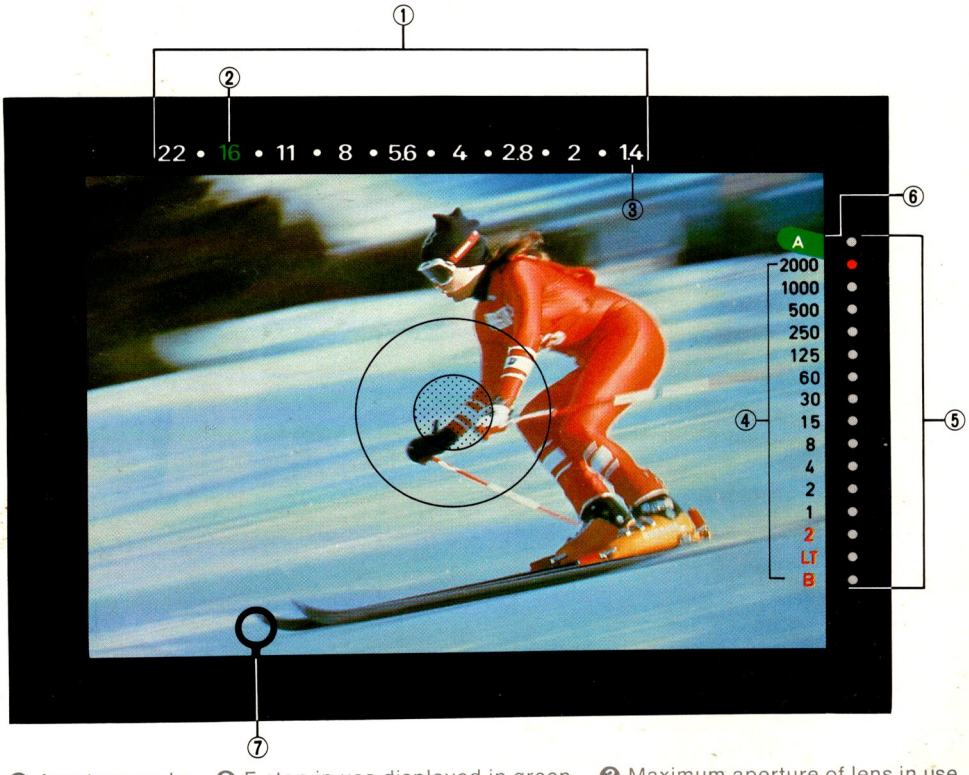


Shutter Release

Original electromagnetic release system permits instantaneous shutter activation through feather-touch depression of the extra-large magnetic release button with an operating stroke of only 0.7 mm.
Release socket on the camera body provides use of various remote control accessories.



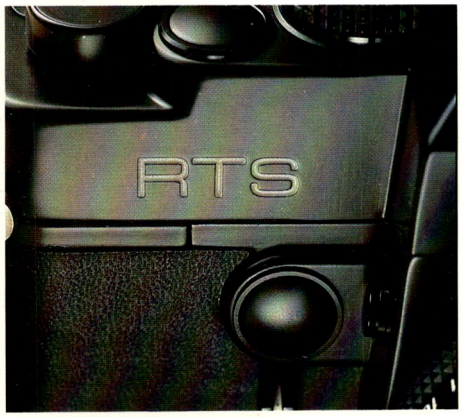
Viewfinder Display of the Contax RTS



❶ Aperture scale ❷ F-stop in use displayed in green ❸ Maximum aperture of lens in use
❹ Shutter speed scale ❺ 16-dot LED shutter speed display
❻ Green pointer overlaps 'A' setting on auto ❼ Exposure compensation display

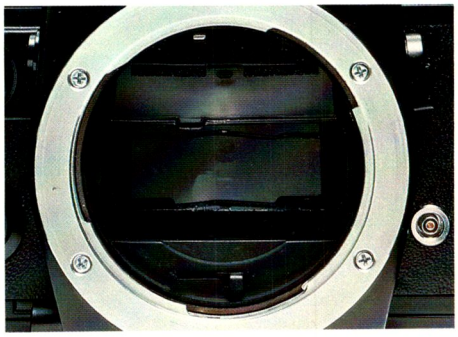
Exposure Control

Fully automatic through-the-lens exposure control through preselection of the lens aperture, with optional manual control. (silicon photodiode) with instant response property provides full aperture center-weighted light reading.
LED display pushbutton permits check of exposure condition before or after film wind.
EV range from EV −1 to EV 19 (f/1.4 at ASA 100); ASA range from ASA 12 to 3200.
Exposure compensation feasible on both automatic and manual modes of operation



Viewfinder

Through-the-lens viewfinder adjusted to −0.82 diopter shows 92% of the actual field covered by the lens. Standard focusing screen interchangeable with other screens.

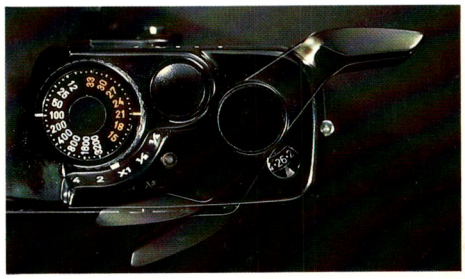


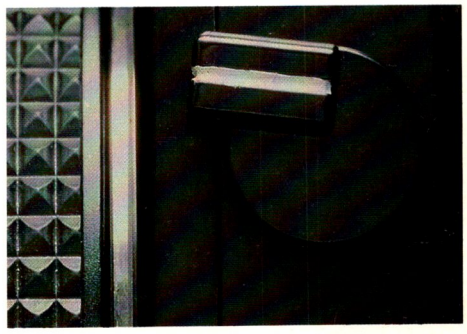
Viewfinder Display

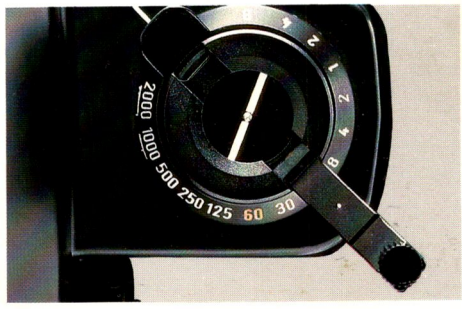
All necessary exposure information displayed in the viewfinder.
(1) 16-dot LED array shutter speed display comes on when the LED display pushbutton is depressed and when the magnetic release is activated to provide preview of the correct shutter speed in relation to the f-stop.
On auto, the green pointer is at 'A'.
On manual, the green pointer indicates the setting of the shutter control dial, providing exposure setting through preselection of either the lens aperture or shutter speed.
(2) Aperture display shows (a) the maximum aperture of the lens in use on the extreme right, and (b) the f-stop in use in green figure.
(3) Exposure compensation display.

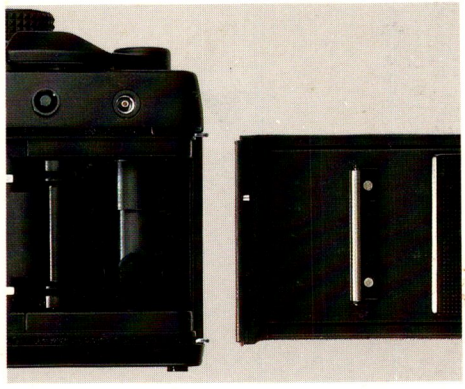
Other Features

Film advance lever which permits operation in one stroke or several ratchet actions; Auto-resetting exposure counter; Foldaway film rewind crank-handle of an original design; Removable camera back interchangeable with the Data Back or 250 Film Back; Manipulation of the film rewind release button permits intentional multiple exposure; Depth-of-field preview button; Mirror lock; Motor drive coupling system.



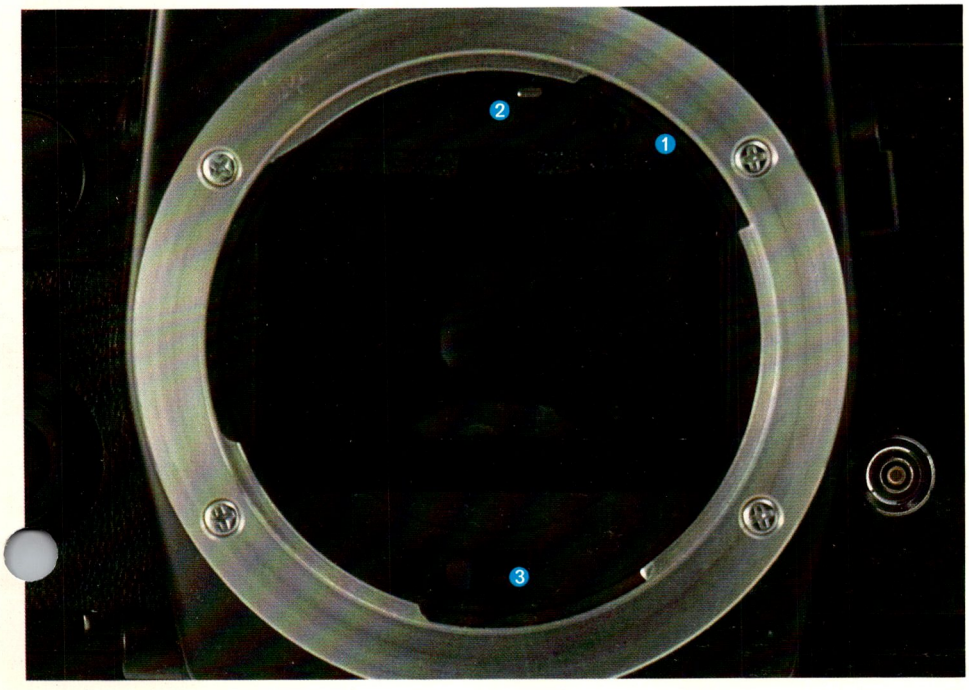






Lens Mount

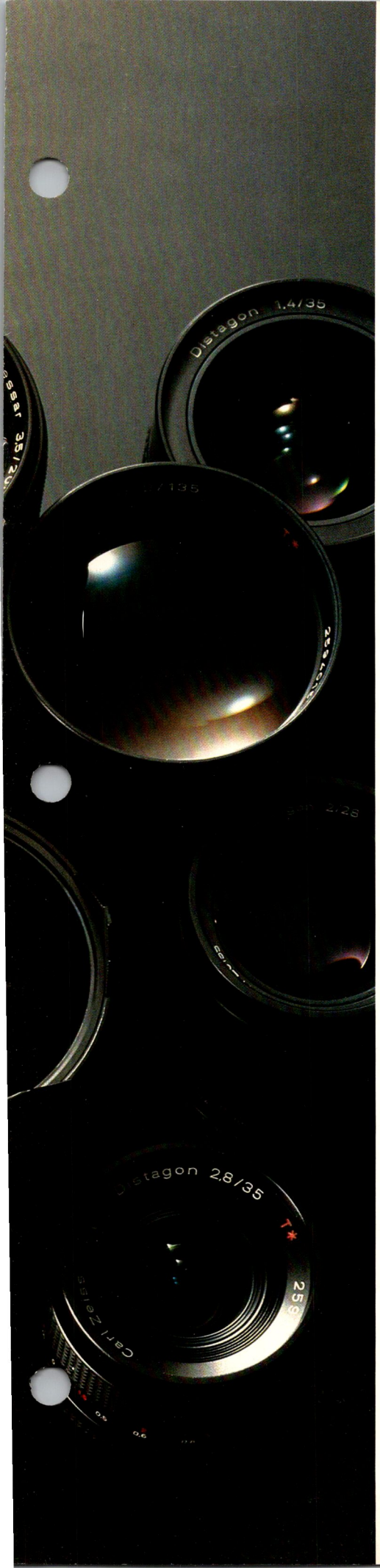
Contax/Yashica mount (three-claw bayonet mount) with internal linkage system consisting of ❶ the aperture linkage lever, ❷ the aperture scale coupling lever and ❸ the automatic diaphragm action lever.



Size & Weight

142×89.5×50 mm; 705 grams (body only)

Lens made in Germany
Carl Zeiss
Carl Zeiss
Carl Zeiss
Planar 1,4/50
T*
CONTAX
RTS



Interchangeable ZEISS T* Lenses

For a camera system to offer utmost versatility in photographic expression, its mechanical and electronic precision must be backed up by high quality and performance standards of the lenses.
In this respect, the Contax RTS is truly peerless. The wide range of interchangeable Zeiss T* lenses designed specifically for the Contax RTS veritably opens up new possibilities of Real Time Photography.
All the lenses in this group are characterized by traditional Zeiss quality and performance. They bring to the photographer all the advantages of the new lens designs which combine the most sophisticated know-how with up-to-date computer programming. They incorporated the latest Zeiss achievements in the field of optics, including the Zeiss T* multi-layer anti-reflection coating and the use of floating elements and aspherics.
They present a good example of well-balanced action of such decisive optical factors as resolution and contrast, uniform illumination of the entire image field, high transmission, freedom from distortion and optimum color correction. In other words, these lenses assure superb quality at all lens openings, even at maximum aperture. Their overall performance will certainly satisfy even the most discriminating photographer.
The interchangeable Zeiss T* lenses featuring the precision engineered three-claw bayonet mount (Contax/Yashica mount) cover the focal length range from 15 mm to 1000 mm, most of which are the fastest in their respective class. Their extra-high speed design enables the photographer to select a comparatively high shutter speed even in subdued light situations—another Real Time Photography advantage of the Zeiss T* lenses.
Particularly in regard to the wide angle lenses, the use of aspherics and floating elements provides optimum image correction at extremely close range, thus extending their scope of application.
With lenses of certain focal lengths, a choice is provided between ultra-fast and normal speed optics of the identical focal length. This enables the photographer to choose the lens best suited to his specific photographic requirement.

The interchangeable Zeiss T* lenses in the wide angle range include the fisheye type F-Distagon T* 16 mm, ultra-wide angle Distagon T* 15 mm, 18 mm and 25 mm and the wide angle Distagon T* 28 mm and 35 mm.
In the long focus range are such outstanding lenses as the Planar T* 85 mm and Sonnar T* 85 mm.
Telephoto lenses include the Planar T* 135 mm, and Tele-Tessar T* 200 mm, while super-telephoto optics available today consist of the Mirotar 500 mm and 1000 mm, both of which offer such performance standard as cannot possibly be expected of other mirror lenses.
In the range of special-purpose lenses are the Vario-Sonnar T* 40 mm ~ 80 mm and S-Planar T* 60 mm macro lens permitting close-up at a ratio of magnification of up to M1 : 1 without the use of any accessory.
Aside from the superb image quality and high fidelity color reproduction capability, another outstanding characteristic feature of the interchangeable Zeiss T* lenses consists of the uniformity of their exterior design. In short, all functional controls of most of these lenses are arranged so that, when mounted properly, they will be positioned at the same distance from the camera body. In other words, whatever lens is in use, the photographer can readily preselect the lens aperture and secure precise focus without awkwardly fumbling for the respective controls.
Ultimately, the photographer's skill and experience will determine the value and effect of the photographic presentation, but many outstanding compositions, whatever the subject, are possible only by using top-quality lenses. The quality of the photographic lens is always a major contribution to better pictures and the Contax RTS with the Zeiss T* lenses offers a good assurance for better pictures, whether they are amateur snapshots or professional photographic creations.

For detailed information on Zeiss T lenses, write for full-color brochure, inclosing the actual cost and return postage.*

Real Time System Accessory Chart

Finder System
❶ Rubber Eyecup/Eyepiece Shutter
❷ Diopter Lenses
(8 types from +3 to −5 dp)
❸ Right-Angle Finder
❹ Magnifier
❺ Focusing Screens
(Microprism, split-image, matte, sectioned matte and cross-scale)

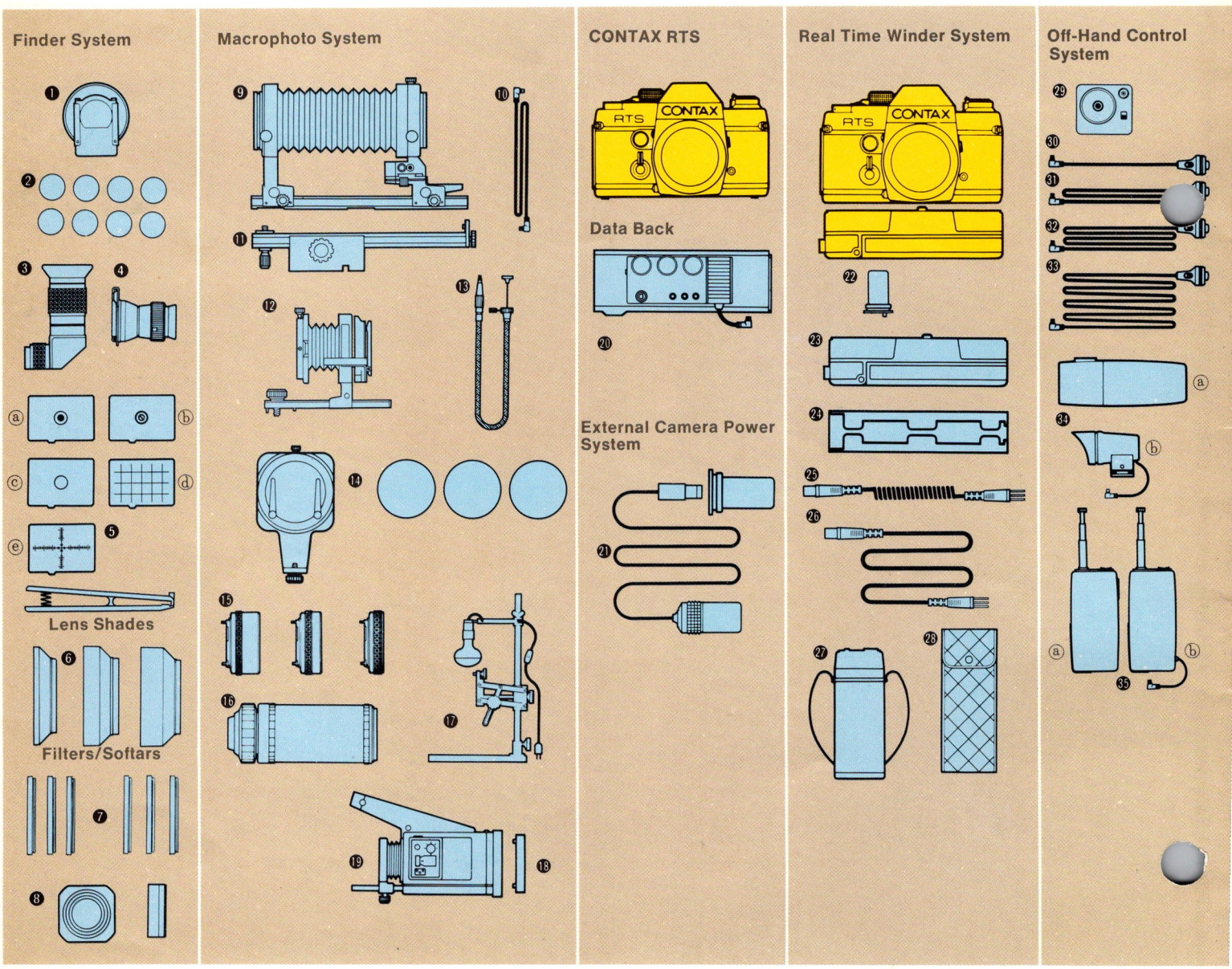
Lens Shades/Filters/Softars
❻ Lens Shades
(for standard, wide-angle and telephoto lenses)
❼ Filters/Softars
a. Filters (multi-layer coaded)
b. Softars (Type Ⅰ, Ⅱ & Ⅲ)
❽ Gelatine Filter Holders

Macrophoto System
❾ Auto Extension Bellows
❿ Shutter Connector Cord
⓫ Focusing Rail
⓬ Slide Copier
⓭ Cable Release
(for Auto Extension Bellows)
⓮ Macro Stand
(3 types of interchangeable stage glass)
⓯ Auto Extension Tube Set
⓰ Microscope Adapter F
⓱ Copy Stand Type Ⅱ
⓲ Oscilloscope Mount
⓳ Oscilloscope Adapter RT

Data Back
⓴ Data Back

External Camera Power System
㉑ Battery Adapter Set

Real Time Winder System
㉒ External Power Adapter
㉓ Real Time Winder
㉔ RTW Battery Case
㉕ Power Cord 100
㉖ Power Cord 300
㉗ RTW Power Pack
㉘ RTW Power Pack Jacket



Real Time Remote Control System

29 Interval Timer
30 Cable Switch 30
31 Cable Switch 100
32 Cable Switch 300
33 Cable Switch 1000
34 Infrared Controller Set
a. Transmitter
b. Receiver
35 Radio Controller Set
a. Transmitter
b. Receiver

Professional Motor Drive System

22 External Power Adapter
36 Professional Motor Drive
37 MD Control Cord 100
38 MD Control Cord 300
39 250 Film Back
40 250 Film Magazine
41 Film Loader
42 MD Battery Case
43 NiCd Battery Pack
44 MD Power Unit
45 MD Power Unit Jacket
46 NiCd Battery Charger
47 MD AC Control Box

Real Time Flash System

48 Twin-Flash Adapter
49 Direct-Shoe Extension Cord 100
50 Direct-Shoe Extension Cord 300
51 Real Time Flash
Wide-Angle Adapter &
Color Filters for RTF

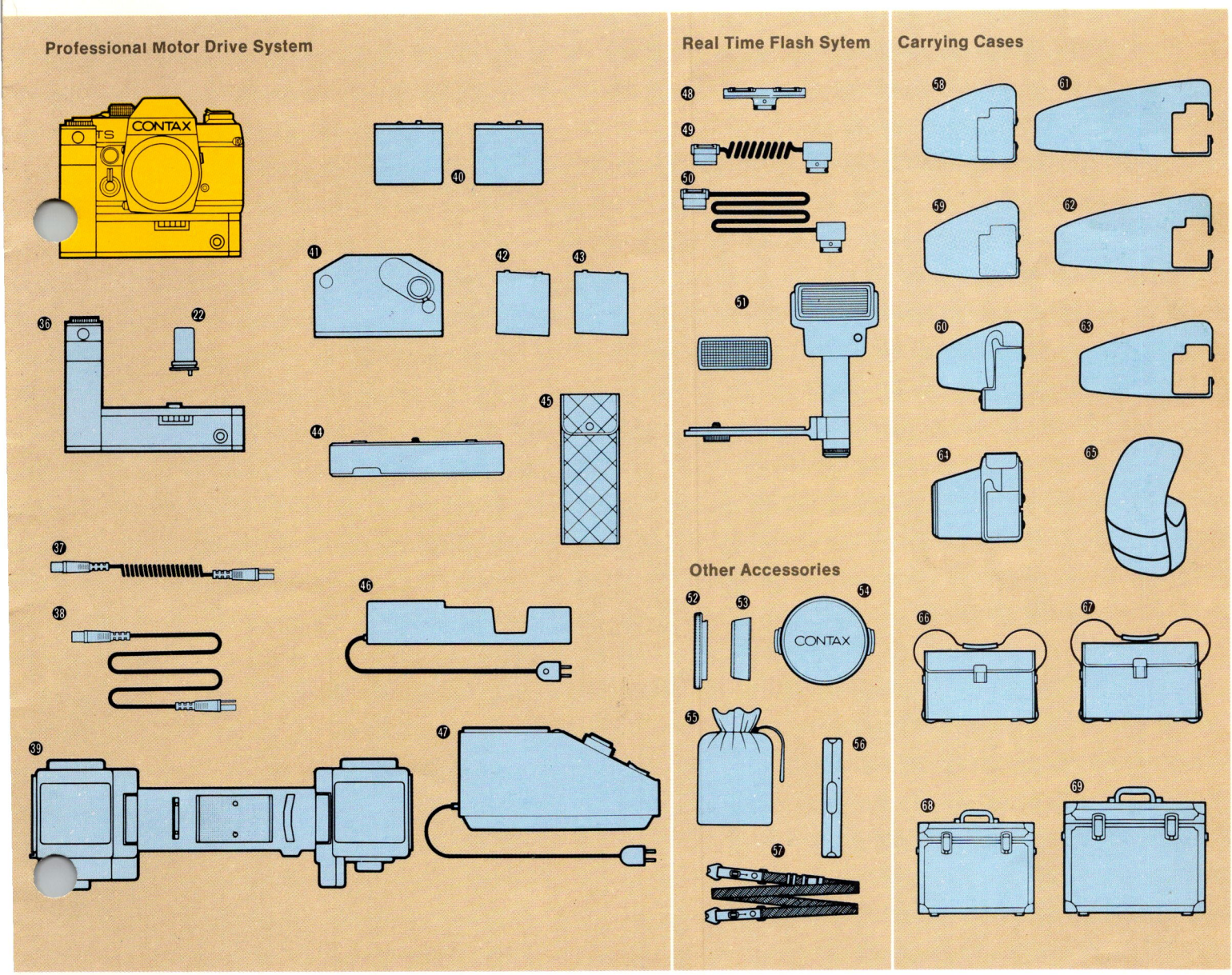
Other Accessories

52 Body Cap
53 Lens Rear Cap
54 Lens Cap
55 Lens Case
56 Shoulder Pad
57 Shoulder Strap

Carrying Cases

58 Standard Eveready Case
59 Deluxe Eveready Case
60 Camera/RTW Case
61 Front Cover 200
62 Front Cover 135
63 Front Cover Wide
64 Soft Case
65 Camera Pouch
66 Kit Case 1
67 Kit Case 2
68 Professional Case 1
69 Professional Case 2

Specifications and exterior design subject to change without prior notice.



Interchangeable ZEISS T* Lenses

Lens	Lens Composition	Angular Field	Minimum Focus	Aperture Range	Filter (Screw-in)	Lens Shade (Slip-on)	Size (mm)	Remarks
Distagon T* f/2.8 16 mm	8 – 7	180°	0.3 m	2.8 – 22	Built in		70.0 × 61.5	Fisheye type; built-in turret type filters (UV, O, Y, B)
Distagon T* f/3.5 15 mm	13 – 12	110°	0.16 m	3.5 – 22	Built in		83.5 × 94.0	Features floating element; built-in turret type filters (UV, O, Y, B)
Distagon T* f/4 18 mm	10 – 9	100°	0.3 m	4 – 22		70 mm	70.0 × 51.5	Features floating element
Distagon T* f/2.8 25 mm	8 – 7	80°	0.25 m	2.8 – 22	55 mm	59 mm	62.5 × 56.0	
Distagon T* f/2 28 mm	9 – 8	74°	0.24 m	2 – 22	55 mm	59 mm	62.5 × 76.0	Features floating element
Distagon T* f/1.4 35 mm	9 – 8	62′30°	0.3 m	1.4 – 16	67 mm	70 mm	70.0 × 76.0	Features floating element and aspherical lens
Distagon T* f/2.8 35 mm	6 – 6	62°	0.4 m	2.8 – 22	55 mm	59 mm	62.5 × 46.0	
Planar T* f/1.4 50 mm	7 – 6	45°	0.45 m	1.4 – 16	55 mm	59 mm	62.5 × 41.0	
Planar T* f/1.4 85 mm	6 – 5	28°30′	1.0 m	1.4 – 16	67 mm	70 mm	70.0 × 64.0	
Sonnar T* f/2.8 85 mm	5 – 4	27°30′	1.0 m	2.8 – 22	55 mm	59 mm	62.5 × 47.0	
Planar T* f/2 135mm	5 – 5	18°30′	1.5 m	2 – 22	72 mm	75 mm	75.0 × 101.0	
Sonnar T* f/2.8 135 mm	5 – 4	18°30′	1.6 m	2.8 – 22	55 mm	Built in	68.5 × 93.0	
Tele-Tessar T* f/3.5 200 mm	6 – 5	12°40′	1.8 m	3.5 – 22	67 mm	Built in	77.5 × 128.0	
S-Planar T* f/2.8 60 mm	6 – 4	39°	M1 : 1	2.8 – 22	55 mm	59 mm	62.5 × 60.0	Macro
Vario-Sonnar T* f/3.5 40 ~ 80 mm	13 – 9	55° – 31°	1.2 m	3.5 – 22	55 mm	59 mm	67.0 × 87.0	Zoom
Mirotar f/4.5 500 mm	5 – 5	5°	3.5 m	—	—	—	151.0 × 235.0	Revolving type exposure compensation filters equivalent to f/8 and f/11; exclusive slide-in type filters (R, O, Y, UV)
Mirotar f/5.6 1000 mm	5 – 5	2°40′	12.0 m	—	—	—	250.0 × 420.0	

Specifications and exterior design subject to change without prior notice.

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