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YASHICA

YASHINON-DX LENSES

INSTRUCTION BOOKLET FOR YASHICA INTERCHANGEABLE LENSES

[Note: These lenses are the m42 Screw Thread Lenses]



YASHINON-DX Lenses Mean Perfect Color Rendition

It's the quality of the lens that makes the world of difference in the result you obtain in color photography. And, when you choose the world-famous YASHINON-DX lenses, you're assured of sparkling colors just the way you see them with your naked eye, because each of them is designed specifically to offer the best possible performance in color photography.

Just try them out yourself. They will unfailingly deliver outstanding results — exceptionally sharp and crisp.

Whatever scene you shoot, white will come out "snow white", a proof that all other colors will be reproduced in natu-

ral, true-to-life tones.

With the YASHINON-DX lenses, flare which is regarded as the common deficiency of high speed optics is non-existent. They are perfectly corrected for flare even at maximum aperture. That's why they have always been rated as the "ideal group of lenses" as a result of the rigid series of tests conducted by leading photographic publications and other organizations.

The YASHINON-DX lens series covers all focal length ranges, from ultra-wide angle 21 mm to super-telephoto 800 mm, as well as 80mm—160mm and 75—230mm zoom, to meet any photographic requirement.

Taken with Auto Yashinon-DX 300 mm
(YASHICA TL-Super, f/8, 1/125 sec.)

Diaphragm Systems of YASHINON Lenses



Fully Automatic Diaphragm

Auto	Yashinon-DX	28 mm,
		35 mm, 100 mm, 135 mm,
		200 mm, 300 mm

Preset Diaphragm

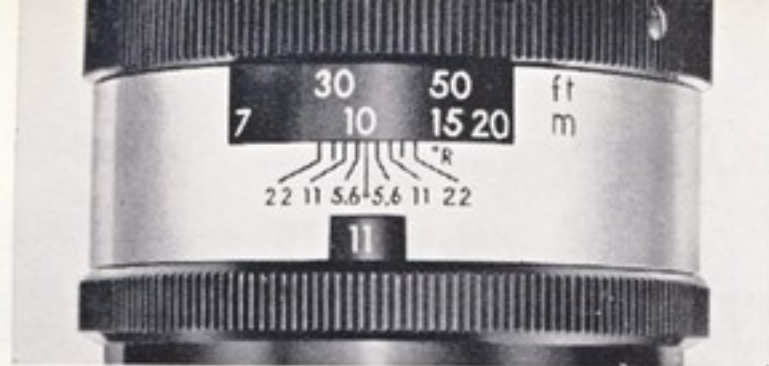
Super	Yashinon-DX	35 mm,
		135 mm
Super	Yashinon-R	200 mm,
		300 mm, 600 mm, 800 mm

Manual Diaphragm

	Yashinon-DX	21 mm
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No diaphragm

	Reflex Yashinon-DX	500 mm
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Fully Automatic Diaphragm

The diaphragm remains fully open at all times except when the exposure is made. When the aperture ring is preset to the desired setting and the shutter release button is depressed, the diaphragm closes down momentarily to the preset opening. As soon as the shutter completes its function, the diaphragm returns immediately to full aperture. Consequently, the viewfinder provides bright and clear images for focusing and composition.



Preset Diaphragm

Unlike the fully automatic diaphragm system, a set of two aperture rings is provided. One ring is used for setting the lens aperture, while the other permits closing or opening of the aperture at will. Because one flip of the ring will close the diaphragm to the preset opening, the lens aperture can be controlled manually with utmost precision without taking your eye off the viewfinder eyepiece.

Tips on Use of the Yashinon Interchangeable Lenses

Preliminary Steps

When using telephoto lenses, in particular, see that the camera is mounted on a tripod and a cable release is used to provide against erratic movement of the camera in the course of exposure. Even the slightest camera movement may spoil an otherwise perfect picture, especially when a long telephoto lens is used. Also, take utmost care in focus adjustment.

Because the Yashica series of SLR cameras provide through-the-lens viewing and focusing, it is almost impossible to make focus errors, but always see to it that the subject which you wish to highlight in the picture is focused accurately.



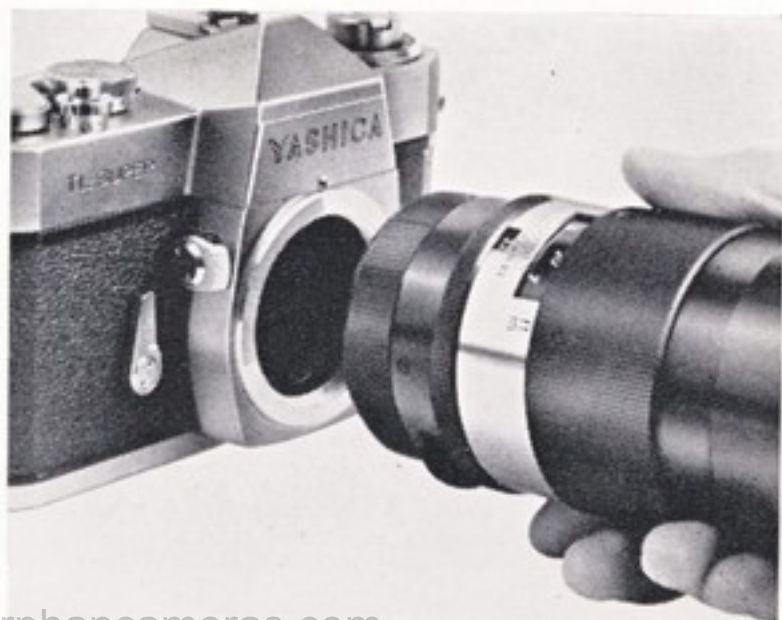
Method of Interchanging Lenses

The Yashinon interchangeable lenses feature a threaded mount for maximum ease in interchanging.

To dismount the lens, grip the lens barrel and turn it counter-clockwise.



To mount, turn it all the way clockwise. Long telephoto lenses can be mounted more readily if the camera body is rotated instead of the lens barrel. When interchanging lenses, avoid direct sunlight.

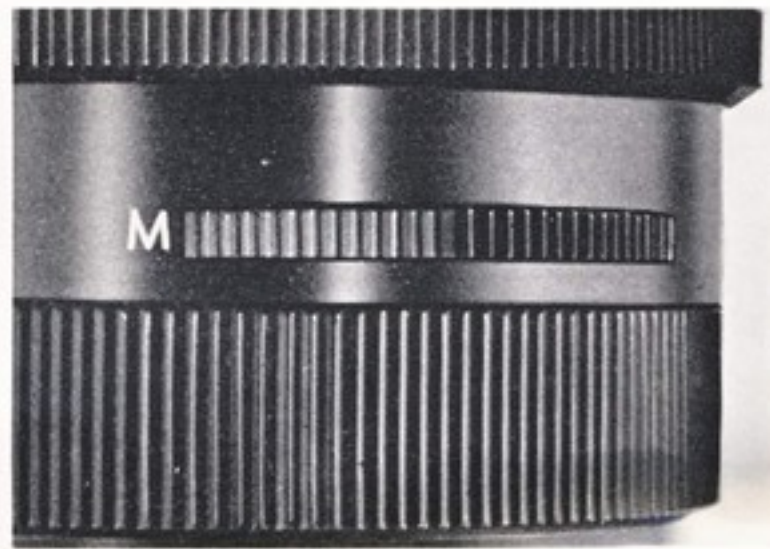
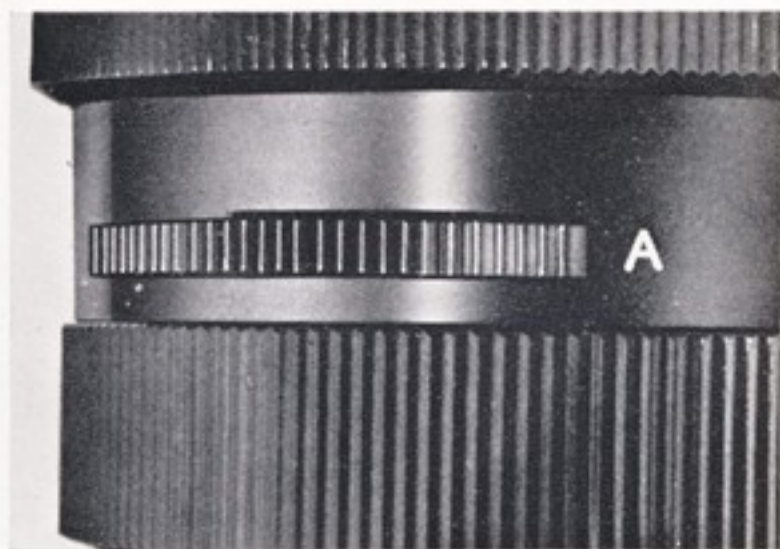


Depth-of-Field Preview Bar

(Auto Yashinon-DX Lenses)

The depth-of-field preview bar is featured on the bottom section of the lens barrel to enable preview of the extent of the depth-of-field as well as the blurring effect of the objects in the background.

Push the preview bar in the direction of "A" to close the aperture to the pre-selected setting. After previewing the effect, return the bar toward "M" to restore fully automatic operation of the diaphragm system.



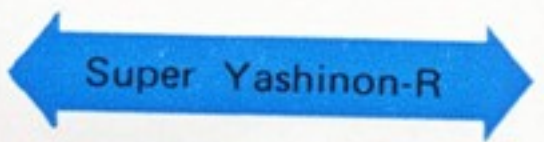
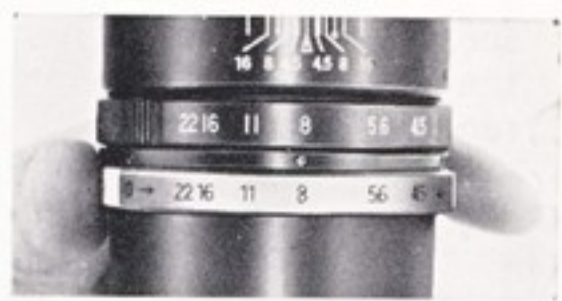
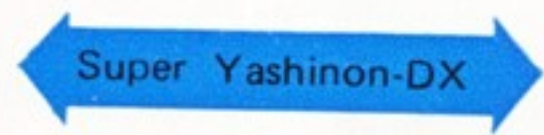
How to Use the Preset Diaphragm

(Super Yashinon-DX, Super Yashinon-R Lenses)

Turn the aperture ring and align the required lens aperture setting with the triangular index mark (red dot in case of the Yashinon-R lenses) on the lens barrel. Then, give the chrome-plated ring a left turn to set the aperture to full opening for

utmost convenience in focusing and composition.

After securing precise focus, turn the same ring all the way to the right to close the aperture to the preset opening.



Depth-of-Field Scale

When focus is secure on a subject at a given range, objects in the foreground and background will appear acceptably sharp on the film plane. The range in which all objects appear sharp is called the depth-of-field.

The illustration on the right shows an example of how to read the depth-of-field. When the camera lens is focused on a subject at a range of 15 meters and the lens aperture is set at $f/22$, the area enclosed by the figure "22" on both sides of the index line denotes the depth of field for the specific subject range and aperture setting. In other words, the distance scale here shows that all objects within the range of 10 meters and 30 meters will be reproduced sharp and clear on the film plane.



f/5.6



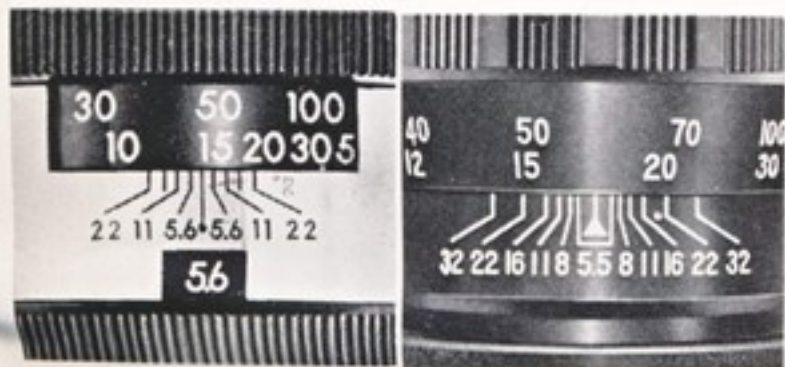
f/22



R-Index for Infrared Ray Photography

This R-index is employed for focus compensation when using an infrared film in concert with a (red) R1 filter.

The Auto Yashinon series features a red "R", while the Super Yashinon lenses have a red index line for this purpose. First of all, secure focus in the normal manner. Then, take reading of the distance and align the corresponding range with the infrared photography index to make focus compensation.



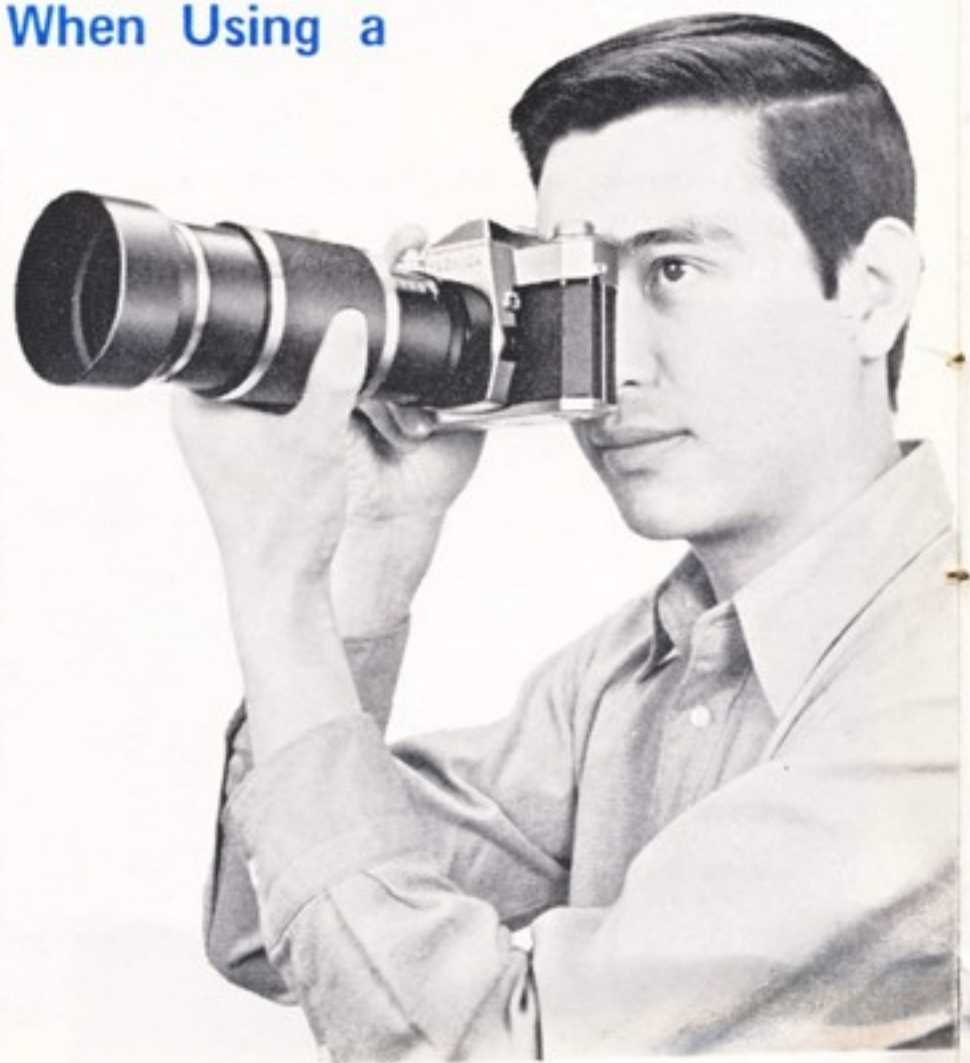
How to Brace the Camera When Using a Telephoto Lens

As a rule, the camera should be mounted on a tripod whenever a telephoto lens is used. When unavoidable, however, handheld photography can be accomplished without any conceivable ill-effect with telephoto lenses featuring focal lengths of up to about 135 mm.

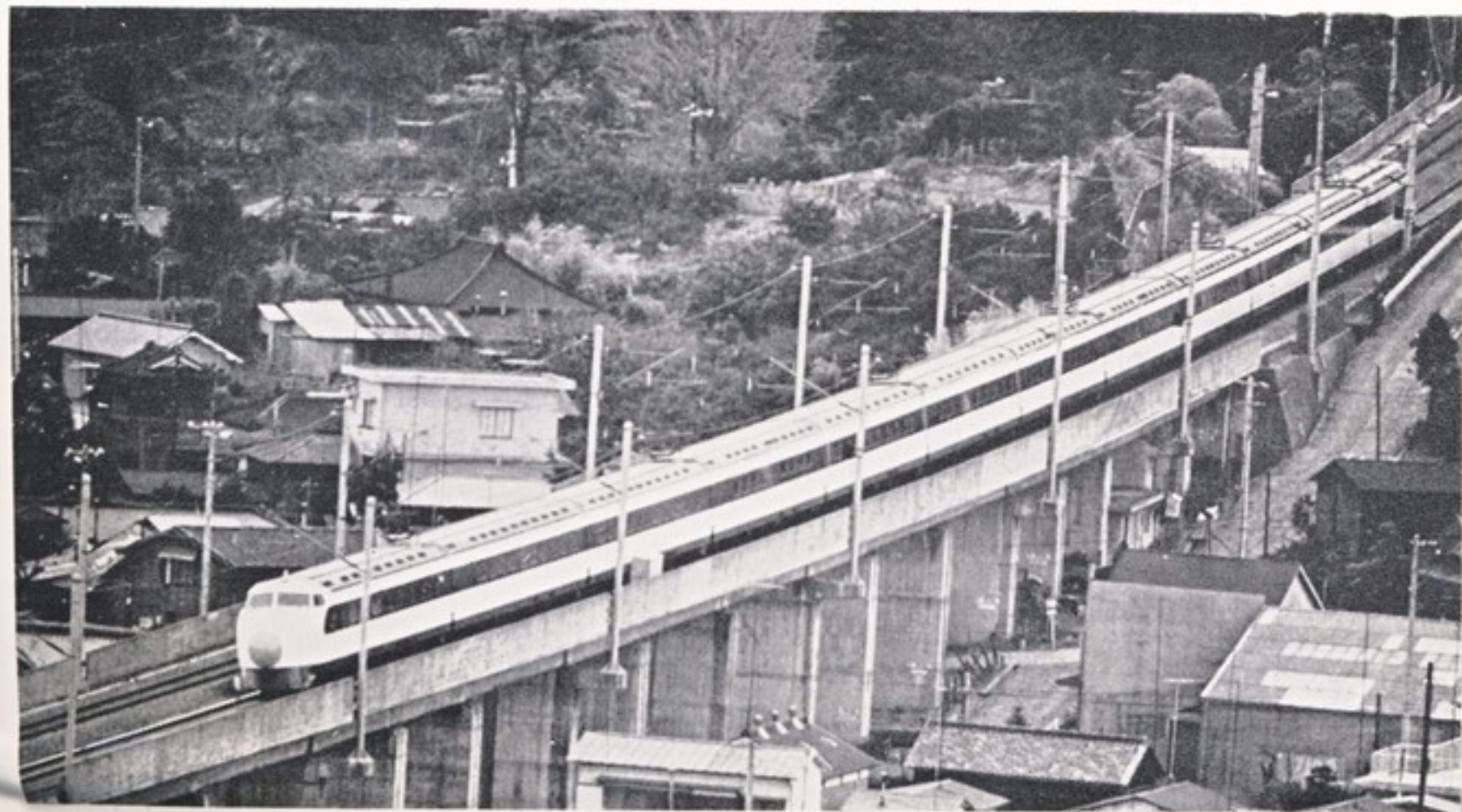
In this case, brace the camera by gripping the lens with your left hand as shown in the illustration and secure focus by turning the focusing ring with your left thumb and forefinger. To provide steady hold of the camera, hold the lens barrel as you would brace a rifle.

When shooting vertical format shots, give extra support to the camera by holding its back cover flush against your forehead.

If there is a wall or trunk of a tree, provide extra support by holding the camera or pressing your own body against it.



YASHINON-DX LENSES



Wide Angle Lenses

Above anything else, wide angle lenses are characterized by the wide coverage they provide. They come in handy when photographing buildings, groups of people or other instances where maximum coverage from a restricted range is a prerequisite. In addition to their wide angle of view, these lenses offer an extensive depth-of-field and therefore permit effective use in snapshots, especially when there is hardly any time for focusing.

Another advantage of these lenses lies in the exaggerated impression of depth which they produce. The objects in the foreground will appear exceedingly oversized, while those in the background will be reproduced much smaller than their natural proportions.



21 mm Yashinon-DX f/3.3 21 mm ultra-wide angle

Manual diaphragm from f/3.3 to f/16 (with half-stops)

Minimum focus : 0.8 meter (2.5 ft)

Lens composition : 8 elements in 5 groups

Angle of view : 92°

Mount : Yashica screw-thread mount

Filter size : 55 mm screw-in type

Weight : 130 grams

Supplied with exclusive lens shade

The lens is mounted with the mirror locked in flip-up position and the subject is sighted by using the exclusive viewfinder which comes with the lens. For greater area coverage, extended range of sharpness and extreme perspective effect. Ideal for photographing gatherings, parties, weddings and such other events.



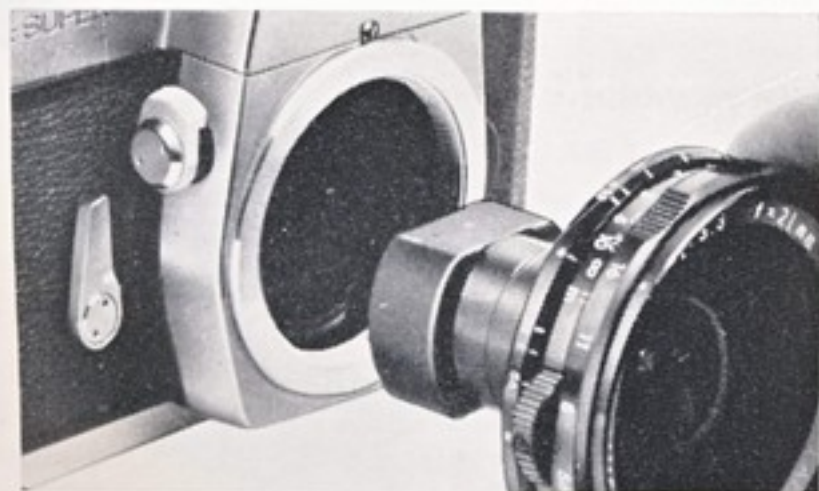


How to Use the 21 mm Lens



Taken with Yashinon-DX 21 mm lens
(Yashica TL-Super, f/8. 1/50 sec.)

Because the ultra-wide angle Yashinon-DX 21 mm lens provides an exceptionally wide coverage, an exclusive viewfinder is supplied. To determine the field covered by this lens, sight through this viewfinder.



1. After locking the mirror in flip-up position (TL-Super) by shifting the mirror lock, mount the lens securely.
2. Slip in the exclusive viewfinder on the accessory shoe.

This lens also assures an extensive depth-of-field. When focused at a range of 4 meters and the aperture is set at $f/4$, all objects within the range of 2 meters and infinity will appear sharp and crisp on the film plane.



3. Secure focus by setting the distance scale according to eye measurement.
4. To set the aperture, align the required setting with the index mark by rotating the aperture ring.

28_{mm} Auto Yashinon-DX f/2.8 28 mm ultra-wide angle

Fully automatic diaphragm from f/2.8 to f/16 (with half-stops)

Minimum focus : 0.4 meter (1.25 ft)

Lens composition : 8 elements in 7 groups

Angle of view : 75°

Mount : Yashica screw-thread mount

Filter size : 62 mm screw-in type

Weight : 260 grams



A handy, all-round ultra-wide angle lens, it provides a wider coverage than a 35 mm optic and produces a dynamic effect when shooting subjects at close range.



35_{mm} Auto Yashinon-DX f/2.8 35 mm wide angle

Fully automatic diaphragm from f/2.8 to f/16 (with half-stops)

Minimum focus : 0.4 meter (1.5 ft)

Lens composition : 6 elements in 5 groups

Angle of view : 63°

Mount : Yashica screw-thread mount

Filter size : 52 mm screw-in type

Weight : 210 grams

This wide angle lens provides an angle of view almost identical with the field of view of the human eye. It therefore covers the field equivalent to what you see with your naked eye. Because it produces minimum distortion of the image, it is often used in place of the normal lens.



35_{mm} Super Yashinon-DX f/2.8 35 mm wide angle

Preset diaphragm from f/2.8 to f/16

Minimum focus : 0.45 meter (1.5 ft)

Lens composition : 6 elements in 5 groups

Angle of view : 63°

Mount : Yashica screw-thread mount

Filter size : 52 mm screw-in type

Weight : 178 grams

It is the most popular wide angle lens for indoor shooting as well as for architectural photography where the coverage of the normal lens is insufficient.



Comparison of the results obtained with wide angle 35 mm and normal 55 mm lenses.



Telephoto lenses

In contrast with the wide-angle lenses, the telephoto lenses provide longer focal lengths or, in other words, a more restricted angle of view and depth-of-field. They deliver results that are almost totally void of the impression of depth. In addition to providing a high ratio of image magnification, these lenses reproduce images with natural perspective effect and are highly effective in portraiture because the background blurs out when they are focused on the main subject. Focal lengths ranging from 100 mm to 200 mm are most effective for portraiture, landscape photography and so forth. The super-telephoto lenses, on the other hand, assure maximum "reach" and are ideal for mountain, sports and wildlife photography.



100_{mm} Auto Yashinon-DX f/2.8 100 mm telephoto

Fully automatic diaphragm from f/2.8 to f/22 (with half-stops)

Minimum focus : 1.2 meters (4 ft)

Lens composition : 5 elements in 4 groups

Angle of view : 24°

Mount : Yashica screw-thread mount

Filter size : 52 mm screw-in type

Weight : 310 grams

Built-in lens shade

It is an ideal lens for portraiture. It blurs out the background and serves to emphasize the main subject, producing a well-balanced proportional effect.



135_{mm} Auto Yashinon-DX f/2.8 135 mm telephoto

Fully automatic diaphragm from f/2.8 to f/22 (with half-stops)

Minimum focus : 1.5 meters (5 ft)

Lens composition : 5 elements in 4 groups

Angle of view : 18°

Mount : Yashica screw-thread mount

Filter size : 55 mm screw-in type

Weight : 500 grams

Built-in lens shade

This lens assures the dynamic "reach" peculiar to telephoto optics. It is a handy, all-purpose lens ideal for stage and wild life photography.



135_{mm} Super Yashinon-DX f/2.8 135 mm telephoto

Preset diaphragm from f/2.8 to f/22

Minimum focus : 1.5 meters (5 ft)

Lens composition : 5 elements in 4 groups

Angle of view : 18°

Mount : Yashica screw-thread mount

Filter size : 55 mm screw-in type

Weight : 417 grams

For candid shots of distant subjects and close-ups of facial expressions. The focal length of 135 mm is just ideal for hand-held photography.

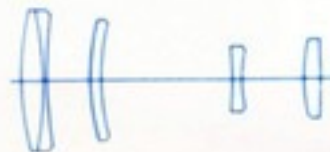


200_{mm} Auto Yashinon-DX f/4 200 mm telephoto

Fully automatic diaphragm from f/4 to f/16
(with half-stops)

- Minimum focus : 2.5 meters (8 ft)
- Lens composition : 5 elements in 4 groups
- Angle of view : 12°20'
- Mount : Yashica screw-thread mount
- Filter size : 55 mm screw-in type
- Weight : 550 grams
- Built-in lens shade

The longer the focal length, the less impression of depth will be produced, resulting in a truly dynamic effect. Pictures of sport scenes and shots taken of auto races will turn out as though the thrilling actions had transpired right in front of your eyes.



200_{mm} Super Yashinon-R f/4.5 200 mm telephoto

Preset diaphragm from f/4.5 to f/22

Minimum focus : 3 meters (10 ft)

Lens composition : 4 elements in 4 groups

Angle of view : 12°

Mount : Yashica screw-thread mount

Filter size : 55 mm screw-in type

Supplied with exclusive lens shade

This 200 mm lens is ideal for obtaining dynamic results, such as comical "close-ups" of animals in the zoological garden and frightened expression of those riding a jet-coaster.



Super-Telephoto Lenses

Super-telephoto lenses with focal lengths of 300 mm or more provide a dynamic "reach" and are indispensable to news, sports, wildlife and scientific photography. They are capable of manifesting their true worth when used in concert with single-lens reflex cameras.

These lenses are characterized by an extremely restricted angle of view and depth-of-field, serving to produce dynamic effects attainable only with optics of this focal length range.





300_{mm} Auto Yashinon-DX f/5.6 300 mm super-telephoto

Fully automatic diaphragm from f/5.6 to f/22 (with half-stops)

Minimum focus : 4.5 meters (15 ft)

Lens composition : 5 elements in 4 groups

Angle of view : 8° 10'

Mount : Yashica screw-thread mount

Filter size : 58 mm screw-in type

Weight : 780 grams

Built-in lens shade



300_{mm} Super Yashinon-R f/5.5 300 mm super-telephoto

Preset diaphragm from f/5.5 to f/32

Minimum focus : 8 meters (25 ft)

Lens composition : 4 elements in 2 groups

Angle of view : 8°

Mount : Yashica screw-thread mount

Filter size : 62 mm screw-in type

Weight : 700 grams

Supplied with exclusive lens shade



500mm Reflex Yashinon-DX f/5 500 mm super-telephoto

Features no diaphragm

Minimum focus : 10 meters (35 ft)

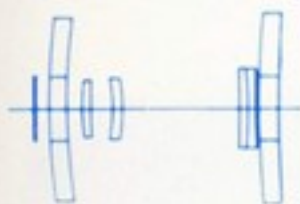
Lens composition : 6 elements in 5 groups

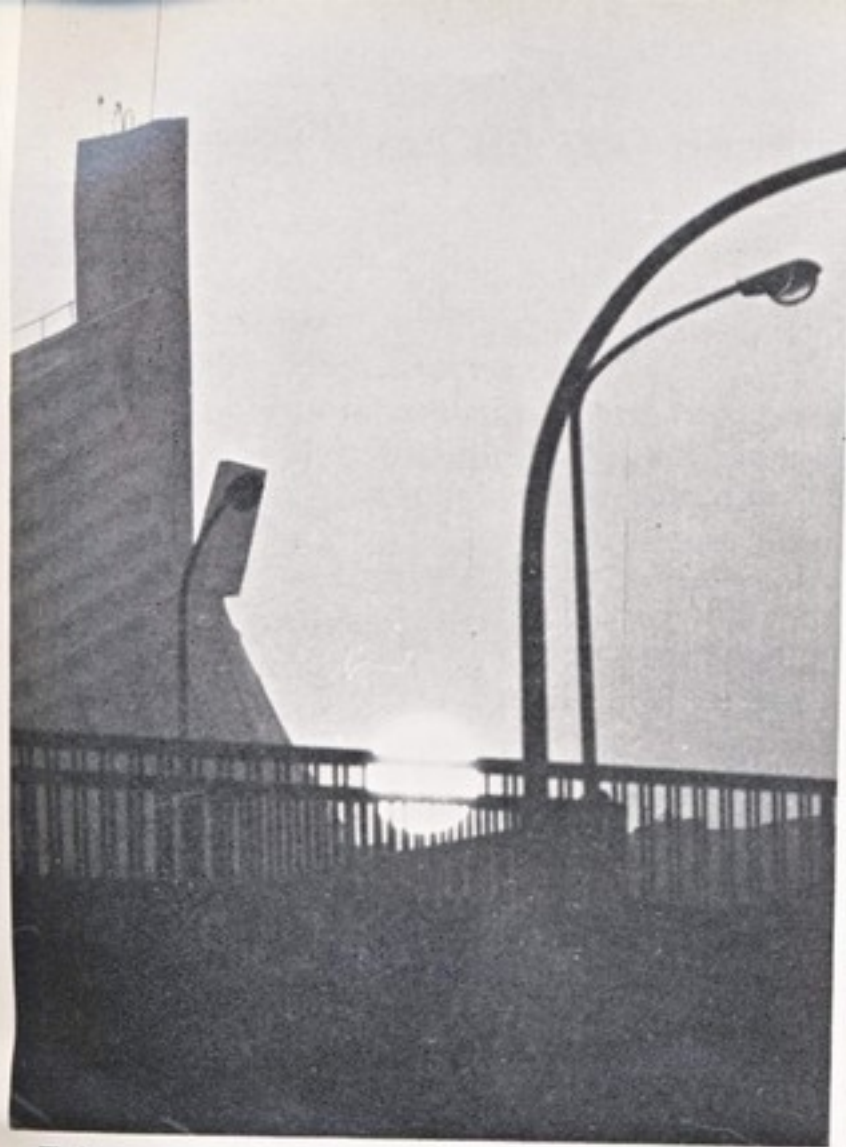
Angle of view : 5°

Mount : Yashica screw-thread mount

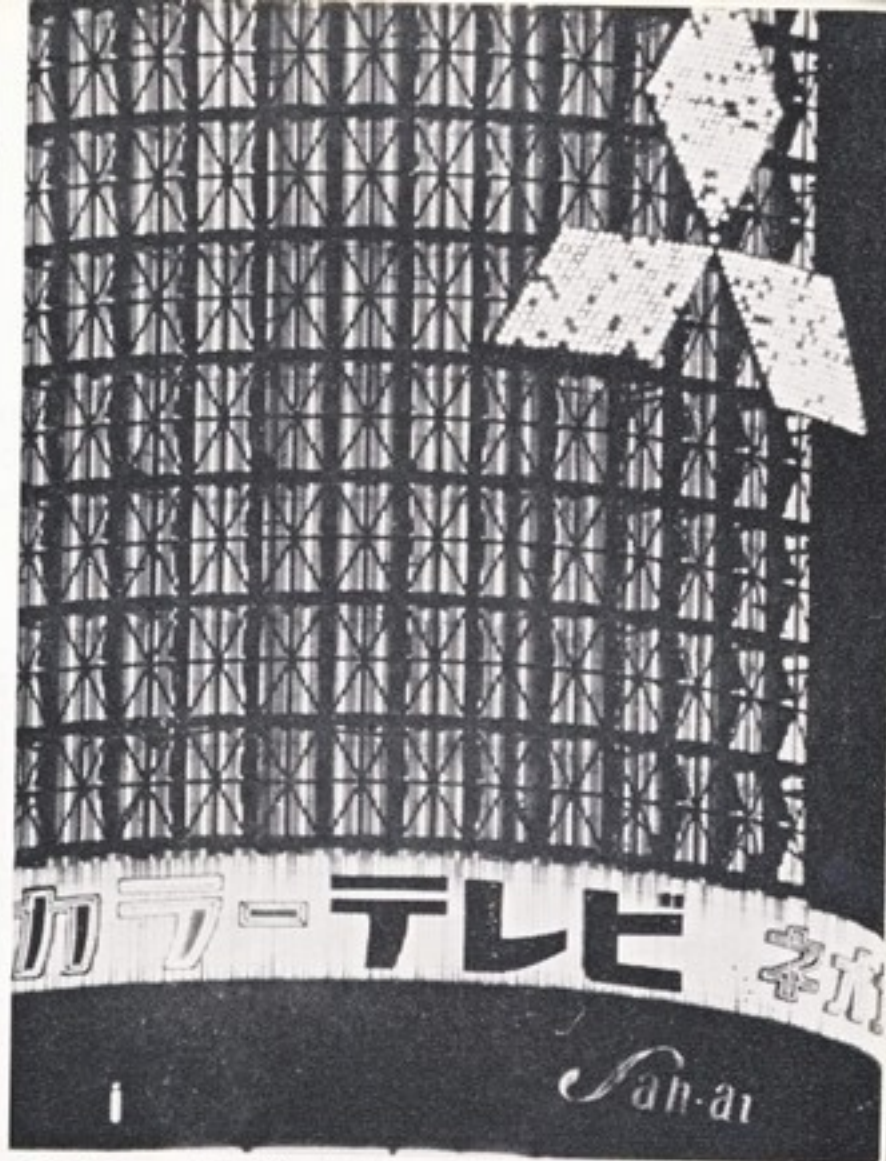
Weight : 2,100 grams

Supplied with a set of 7 exclusive slip-in type filters (L1A, L39, Y48, O56, R60, ND4, ND8)





Taken with Yashinon 500 mm lens



Taken with Yashinon 200 mm lens

How to Use the Reflex Yashinon-DX 500 mm Lens

1.

The lens can be mounted most readily by setting the camera body against its screw-thread mount and rotating the camera instead of the lens.

2.

Sight through the viewfinder and secure focus by turning the focusing ring.

3.

Select an exclusive filter that provides the desired effect and insert it all the way into the filter slot.



Exclusive Filters (A set of 7 different filters)

- L1A (1A)** For photography in early morning and evening.
- L35 (UV)** Absorbs ultra-violet rays. Prevents haziness and foggy effects in distant landscapes. Suitable for both B&W and color films.
- Y48 (Y2)** For B&W photography in bright outdoor pictures. Darkens the sky and the clouds will stand out more strongly.
- 056 (02)** Highly effective for emphasizing clouds, autumnal foliage, etc. in B&W photography.
- R60 (R1)** For infrared film and aerial photography with B&W film.
- ND4, ND8** For exposure compensation when shooting under extremely bright light (beach and snow scenes).



600_{mm} Super Yashinon-R f/8 600 mm super-telephoto



Preset diaphragm from f/8 to f/32

Minimum focus : 13 meters (42 ft)

Mount : Yashica screw-
thread mount

Filter size : 37 mm (rear slot)

Weight : 1,900 grams

Supplied with ex-
clusive lens shade





Taken with Yashinon 600 mm super-telephoto lens
(Yashica TL-Super, f/8, 1/30 sec.)

800_{mm} Super Yashinon-R f/8 800 mm super-telephoto



Preset diaphragm from f/8 to f/32

Minimum focus : 25 meters (82 ft)

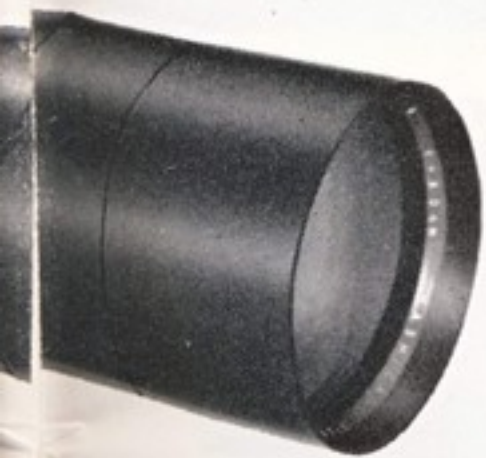
Mount : Yashica screw-
thread mount

Filter size : 37 mm (rear slot)

Weight : 3,000 grams



Taken with
Yashinon 800 mm, super-telephoto lens
(Yashica TL-Super, f/5.6, 1/500 sec.)



Variation of the Angle of View of the Yashinon Series of Interchangeable Lenses

The series of photos shown here were taken from the same spot by using Yashinon lenses of different focal lengths.

21 mm 92°



28 mm 75°



135 mm 18°



200 mm 12°



300 mm 8°



35 mm 63°



55 mm 46°



100 mm 24°



500 mm 5°



600 mm 4°



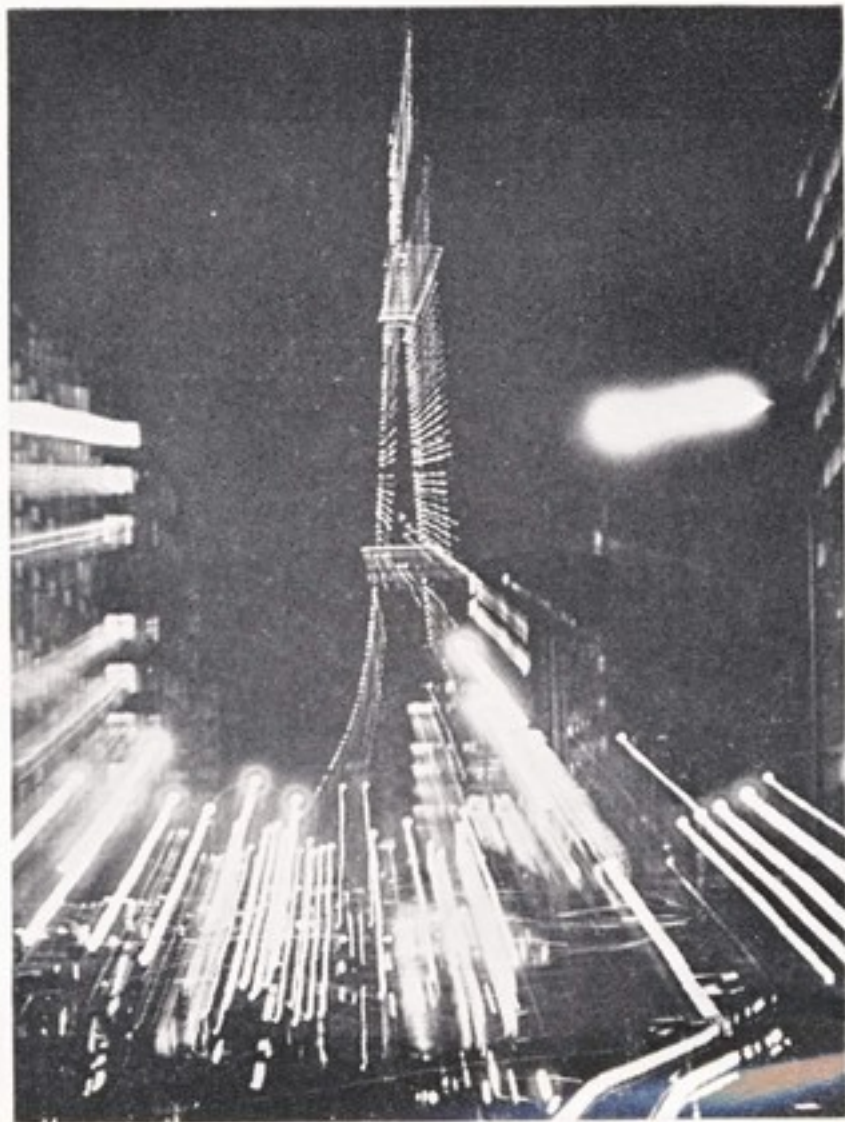
800 mm 3°



Zoom Lens

The zoom lens permits continuous variation of the focal length while maintaining the aperture at a given setting and securing precise focus on a given subject. By using this lens, you are able to select the image size freely and to bring out an effect which could not otherwise be obtained with ordinary focal lenses. When mounted on the Yashica SLR series, it will serve the purpose of several focal lenses and will assure utmost convenience in use.

Taken with Yashica TL-Super
mounted with Auto Yashinon-DX
Zoom at f/4.
Zoomed from 80 mm to 160 mm
over a duration of 5 sec.



ZOOM

Auto Yashinon-DX f/4 80 mm–160 mm
telephoto zoom

Fully automatic diaphragm from f/4 to f/22
(With half-stops)

Minimum focus : 2.5 meters (8 ft)

Lens composition : 14 elements in 10 groups

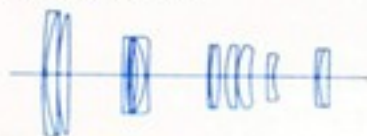
Angle of view : 31° 7' - 15° 10'

Mount : Yashica
screw-thread mount

Filter size : 62 mm screw-in type

Weight : 850 grams
Supplied with exclusive lens shade

This lens provides instant variation of the picture angle and therefore enables you to frame your subject as you desire. It is a convenient, multiple purpose lens that does away with the trouble of lens interchanging.



Exclusive Accessories for YASHICA SLR Cameras

A wide range of exclusive accessories are available for the Yashica series of SLR cameras. In addition to lens shade and filters which are regarded as indispensable accessories, the Yashica SLR accessories include extension bellows, extension tubes and close-up lenses for close-range photography and macro-photography; microscope adapter for medical and educational purposes; right-angle viewfinder for low angle photography; and the Yashica-Lite AG-D and other flash equipment for night and stage photography.

Taken with the Yashica TL-Super, f/16,
1/8 sec., Extension Tubes Nos. 1, 3 & 4.



■ EXTENSION BELLOWS

For extreme close-ups and macrophotography. Provides magnification of up to 2.4X of full life size.



■ CLOSE-UP LENSES

No. 1 and No. 2 close-up lenses available in 52 mm and 55 mm screw-in mounts.



■ EXTENSION TUBES

A set of four extension tubes, permitting use singly or in combination for varied ratios of magnification.



■ MICROSCOPE ADAPTER

For photomicrography.



■ YASHICA-LITE AG-D

A convenient cordless flash gun for use with Yashica SLR models featuring hot shoe. Enables use as an ordinary unit if the PC cord is pulled out after opening the reflector section.



■ YASHICA FILTERS

46 mm screw-in type,
for B&W and color
52 mm screw-in type,
for B&W and color
55 mm screw-in type,
for B&W and color



■ RIGHT-ANGLE VIEWFINDER

Rotates through 180 degrees and features eyesight adjustment.



■ LENS SHADE

Wards off extraneous light and assures clear and crisp results when shooting open scenes or backlighted subjects.

54 mm slip-on type
(square)

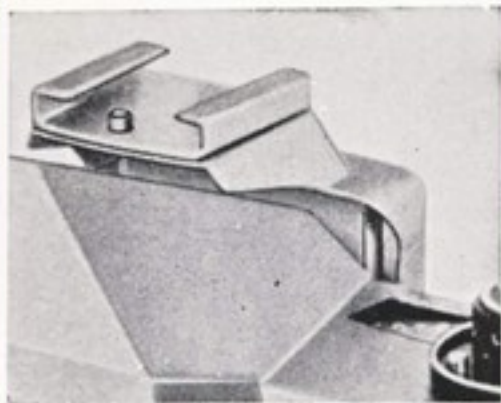
57 mm slip-on type
(square)

46 mm screw-in type
(round)



■ ACCESSORY SHOE


An exclusive accessory for the Yashica J Series, it clips onto the grooves on the edges of the finder eyepiece frame to enable mounting of a flash unit or other accessories directly on the camera.



■ GRIP/TRIPOD ST-7

Provides multiple uses as a tripod, camera grip, chest or wall support.



 **YASHICA CO., LTD. TOKYO, JAPAN**

PRINTED IN JAPAN

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YASHICA

SUPER YASHINON-DX LENSES

SUPER YASHINON-DX 35mm F/2.8

- Lens Composition :
6 elements in 5 groups
- Mount: Threaded mount
- Angle of view: 63°
- Maximum aperture: f/16
- Distance scale: 0,45m(1,5ft)
to infinity
- Filter: 52mm screw-in type
- Pre-set diaphragm



35mm F/2.8



135mm F/2.8

SUPER YASHINON-DX 135mm F/2.8

- Lens composition:
6 elements in 5 groups
- Mount: Threaded mount
- Angle of View: 18°
- Maximum aperture: f/22
- Distance scale: 1,5m (5ft)
to infinity
- Filter: 55mm Screw-in type
- Pre-set diaphragm

PRE-SET DIAPHRAGM



- 1 Set the correct lens opening number opposite the red triangle on the barrel.
- 2 When the white ring of the lens barrel is turned counter-clockwise until it stops, the aperture is fully open for bright viewing and focusing through the pentaprism view-finder.
- 3 Before tripping the shutter, the white ring should be turned clockwise until it stops.

Printed in Japan

YASHICA

スーパーヤシノンDXレンズ

望遠

広角



35mm F 2.8



135mm F 2.8

- スーパーヤシノンDX 35mm F2.8
- 構成枚数 5群6枚 画角 63°
- マウント ヤシカマウント (ネジ込み式) • 最小絞り 16
- 距離目盛 ∞~0.45m (∞~1.5ft)
- フィルター口径 ネジ込み52mm
- 絞り機構 プリセット絞り方式

- スーパーヤシノンDX135mm F2.8
- 構成枚数 4群5枚 画角18°
- マウント ヤシカマウント (ネジ込み式) • 最小絞り 22
- 距離目盛 ∞~1.5m (∞~5ft)
- フィルター口径 ネジ込み55mm
- 絞り機構 プリセット絞り方式

プリセット絞りの使い方



1 絞りリング(黒)を回して、適正露出の絞り数値をレンズ鏡胴の△印に合わせます。

2 白いリングを左(←0の方向)に回して、開放の状態(F2.8)にしてピントを合わせます。

3 ピントを合わせ、シャッターを切る前に、必ず白いリングを右(C→の方向)に止まるまで回します。これを忘れると適正露出での撮影ができません。