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Canon INTERCHANGEABLE LENSES TO DO

INSTRUCTIONS

English Edition

Canon Interchangeable Lenses FD System

The Canon F-1 has adopted the full aperture metering system which boasts an accuracy equal to, if not better than, the stopped-down metering system employed in the Canon FT. It incorporates a transmitting mechanism for aperture signals in the lens and camera body. In order to expand the F-1 system, Canon's Optical Department, making full use of electronic computers, developed a series of high performance interchangeable lenses of the highest quality. The newly designed lenses boast high quality and preeminent performance and are clearly classified. The FD series of lenses also include special lenses.

10 degrees in angle of view were produced, while on the telephoto side, lenses for every 100mm in focal length were provided to greatly strengthen the photographic range. Besides these, aspherical lenses, fluorite lenses, and fisheye lenses were developed. Furthermore, the use of multilayer antireflection optical coatings and the adoption of Canon's unique focusing mechanism have contributed to the strengthening of the series of FD lenses. This new group of lenses can be used not only for the Canon F-1, FTb, TLb but also for the Canon FT, Pellix and models with R lenses.

In the wide-angle lens series, lenses for everyorphancameras.com

FD Lens and Mount

The mount for FD lenses is that which was first marketed in 1959 for the Canonflex. Its easy-to-attach features, interchangeability with each lens, and its durability satisfy all requirements. The following are its features:

1. Interchangeability

Not only the FD series of lenses but also the FL and R lens groups and all accessories can be mounted on this mount.

2. Speedy Changing

Changing time is much less than the screwin or bayonet mount types. For example, this
mount can be changed in one-third the time
required for changing a screw-in type mount, or phancameras.com

Changing operations are very easy even when interchanging large aperture or telephoto lenses.

3. Durability

Durability is guaranteed because brass is used on both the lens and camera body sides. The mount has superior corrosion-proof and aberration-proof qualities because hard chrome plating is applied over nickel plating. The standard surface of the mount, which affects focusing, is just closely attached without a rubbing motion to prevent scratches.

For F-1, FTb and TLb Use

FD Lenses: Full aperture metering. Coupled to automatic aperture.

FL Lenses: Stopped-down metering. Coupled to automatic aperture.

R Lenses: Stopped-down metering. Manually operated aperture.

■ FD lenses are used on Canon FT, Pellix and FX cameras for stopped-down metering coupled to automatic aperture, and used with manually operated aperture when attached to R series of camera bodies.

Effects of Interchanging Lenses

1. Change in Angle of View and Perspective

Photographic differences according to different kinds of lenses used, is mostly due to the differences in focal lengths. Generally, this is understood as changes in angle of view or differences in perspective.

When the focal length of a lens becomes longer the image becomes larger. Since the size of the film is fixed, this is indicated by angle, and we say that an angle of view range of so many angles is photographed.

Just as it is when a subject is seen with the naked eye, the closer the lens gets to the subject, the larger becomes the photographed







28 mm

50 mm

200 mm

result, and distant subjects are photographed in small sizes. Therefore, changes in angle of view are compared by pictures taken of the same subject from the same position.

When photographing from the same position with different focal length lens, there is no difference in perspective between a wide-angle and telephoto lens. However, if the photographing distance is changed, the perspective changes even [when | cusing the least or the perspective changes]

same lens. In this case, however, since the angle of view of the lens is the same, the necessary subject is sometimes cut off or the degree of the blurred background changes. (When this difference in perspective by photographic distance is substituted by a lens of a different focal length, it is called perspective.)

In the case of perspective, the size of the hamain subject is fixed. Then this same subject







28 mm

is photographed using different lenses and by changing the photographing distance so

that the size of the subject remains the same. In this way it is possible to express the dif-

ferent distances between the main subject and the background.

This distance is exaggerated when a wide-

angle lens is used and subdued when a telephoto lens is used.

50 mm

200 mm

2. Depth-of-Field

The blurred range changes when the focal length of a lens changes. The focusing range becomes smaller as the focal length becomes longer. The focusing range also changes when the lens speed changes. Therefore, the various lenses should be used after understanding the characteristic of lenses such as the size of the subject, perspective. degree of blurring, and lens speed.

Classification of Lenses

The angle of view of lenses changes according to focal lengths. In the case of 35mm cameras, the standard focal length is set at 50mm. Lenses with a shorter focal length are called wide-angle and those with a focal length longer than 50mm are called telephoto.

Wide-Angle Lenses

A wide angle range is photographed when using this type of lens. Because lenses in this category have a deep depth of field, they are suited for taking snapshots, in taking photographs where there is no room to back up, for photographing large groups of people, and for taking pictures of buildings. A wide-angle

lens has the characteristic of exaggerating the perspective, but this can be used to advantage for taking pictures with a different effect.

The moost commonly used wide-angle lens is the 35mm lens. Recently, however, the development of super-wide-angle lenses has become extensive, thereby rapidly expanding range of photography.

(In the case of lenses for single-lens reflex cameras, the optical system is protruding forwards, when compared with the focal distance, because the optical back focal distance is long. For this reason, these lenses are called retrofocus type lenses.)

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Standard Lenses

These lenses have a focal length of 50mm and have the widest applicable range. They are widely used not only for snapshots of scenery and people, but also to advantage in snapshots of night scenes due to their increasingly larger apertures. They are all-round lenses which also prove their high performance in close-up photography and copy work.

Telephoto Lenses

Lenses in this category have narrow angle of view in contrast to wide-angle lenses, but they have the feature of clearly delineating distant scenes. Therefore, they are advantageous for photographing difficult-to-approach subjects, mountains, sporting events, and news events. Telephoto lenses are also widely used for portraiture and commercial photography

because of their natural perspective. Generally, those lenses with focal lengths of 400mm or longer are called "long-telephoto".

• "Telephoto lens" is the name for those type of lenses, among long focal point lenses, in which the length of the lens is shorter than the focal length. Generally, however, no distinction is made.

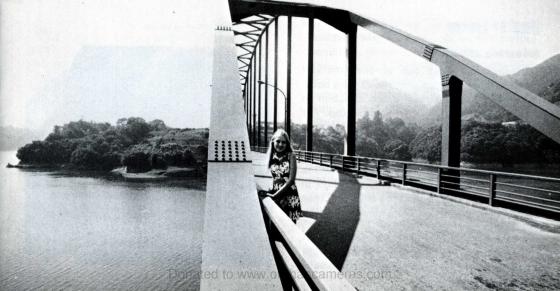
Zoom Lenses

Zoom lenses are very convenient because a single zoom lens can be used instead of many interchangeable lenses by just changing its focal lengths.

Special Lenses

Fisheye lens, tilt-and-shift lens and macro lens which are used for special kinds of photography are included in this category.

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Uses of Lenses

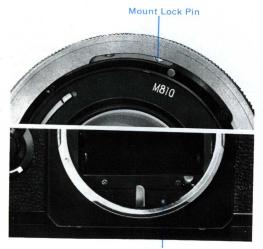
Mounting of Lenses

Remove the dust cap of the lens and then mount the lens onto the camera body.

- Turn the bayonet ring in the direction of the arrow and remove the dust cap. For attaching, align the groove of the dust cap with the red dot on the bayonet ring and then tighten the bayonet ring.
- Align the red dot on bayonet ring with the red dot on the lens attachment section of the camera body, mount the lens, and then turn the bayonet ring clockwise for securely mounting the lens.
- A safety mechanism is incorporated which prevents the movements of the diaphragm

blades and bayonet ring when the lens is in dismounted condition.





- In order to make the various mechanisms function, while the lens is in dismounted condition, perform the following. Turn the bayonet ring, so that it is in the same position as when the lens is in mounted condition, while pressing the mount lock pin with a small pin. The mount lock pin is situated below the bayonet ring.
- Be sure to unlock the stopped-down functioning lever lock of the camera body. If the lever is pressed or is locked, the red dot, which indicates nonfunctioning can be seen inside the camera mount. The automatic/manual aperture lever, at the back end of the lens, cannot be connected to the coupling part on the camera body and the automatic aperture will not func-

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Lens Signals

1. Automatic/Manual Aperture Lever

This lever stops down the aperture to the preset position, and is of the same construction as that for the FL lenses. On all cameras after the Canon FX model, fully automatic aperture is performed with power drive from the camera side. This lever is clamped when turned counterclockwise, and can be attached to R series cameras and used with manually operated aperture.

Note: Manually operated aperture is not necessary in the case of FT and Pellix cameras because stop-down can be performed with the metering lever. However, in the case of FX and R cameras, manually operated aperture Signal Lever is used in close-up photography and macrophotography when an accessory is used in



Full Aperture Signal Pin Donated to www.orphancameras.com

between the camera body and the lens and the automatic aperture lever is no longer coupled.

2. Aperture Signal Lever

This signal transmits the preset f/stop to the F-1 camera body. Power drive for the match needle for full aperture metering is operated by turning the preset aperture ring. It performs 1 to 1 movement with the preset aperture ring. On the other hand, when performing Servo EE photography, the preset aperture position is decided on the camera side by power drive on the Servo EE Finder side.

3. Full Aperture Signal Pin

This signal transmits the full opening f/stop of the lens. This pin is used for correcting the error of full aperture metering of the F-1 camera.

4. EE Lock Pin

A safety lock pin to prevent accidental movement over to the green mark. When setting to the green mark, turn the aperture ring while pressing the EE Lock Pin.

5. EE Switch Pin

This pin emits a signal when the preset aperture ring is set at the green mark for EE use. When the lens aperture is set at this green mark, the lens can be attached only to the Canon F-1. If the lens is attached to the cameras other than the F-1, it cannot be set at the green mark.

6. Spare Signal Pin

Reserved pin for developing System Accessory for the F-1.

Aperture Operations

Automatic Aperture

In the case of FD lenses, the field-of-view through the viewfinder can always be observed at full aperture opening, even after the aperture ring has been set at desired f/stop. The aperture is stopped down to the f/stop selected by the aperture ring only for an instant when the shutter is released. Immediately after the shutter has been released, the aperture again returns to full opening and a bright field-of-view.

Manually Operated Aperture

The manually operated aperture is used for observing what the focusing condition are actually like when the aperture stops down, and for special photography such as close-up and macrophotography.

- An FD lens has only one aperture ring. However, when it is mounted on an F-1 or FTb, the diaphragm blades can be opened or closed by turning the aperture ring, after the stopped down metering lever on the front side of the camera body is pressed down and locked.
- When an accessory, such as an M tube with no aperture coupling pin, is to be inserted in between the lens and camera body, it can be set at manually operated aperture in the following manner. Before attaching the accessory, turn the automatic aperture lever to manual lock position and then attach the accessory onto the bayonet ring. For releasing the lock, push the automatic aperture lever to its former position.

photography. Donated to www.orphancameras.com



■ The manual aperture operations for the FD 50mm F 1.8 lens are different from those for other FD lenses. Move the aperture lever to the manual lock position and slide the manual lock lever to L position. If mounted onto the camera in this condition, the lens aperture can be operated manually. This FD 50mm F 1.8 lens cannot be used on Canonflex R series of cameras.

Attaching Onto Macrophoto Coupler

When attaching a lens in reverse direction onto a macrophoto coupler and for obtaining a manually operated aperture condition, perform the following. First, move the automatic aperture lever over to the manual lock. Next, attach the Macrohood of the coupler and then turn the bounce ting all the way.

pler and then turn the bayonet ring all the way. 15

Lens Aperture

Set the necessary f/stop at the index mark by turning the preset aperture ring. Exposure volume and field-of-view adjustments are performed by this operation. In the case of F-1, proper exposures can be easily obtained by the TTL meter.

The aperture becomes darker as its f/stop gets larger. With each graduation increase, the exposure volume decreases by one-half. When the aperture is stopped down by one graduation, the exposure time must be extended by two times. And when the aperture

is stopped down by two graduations, the exposure time must be extended by four times. Intermediate positions between graduations on the aperture scale can be used. FD lenses have click stops at intermediate positions between graduations on the aperture ring scale to facilitate operations. Some lenses have no relation to the one-half decrease in exposure volume between the maximum f/stop and the next f/stop. The ratio between the f/stops and exposure volumes, with f/2 as the standard, are as follows:

f/stops	1.2	1.4	1.8	2	2.5	2.8	3.5	4	5.6	8	11	16	22	
exposure ratio:	3	2	1.25	1		1/2	1/3	1/4	1/8	1/16	1/32	1/64	1/128	_



Distance Scale

The distance scale indicates the distance between the focused subject and the film plane. The scale is necessary for checking the depth-of-field, for flash and infrared photographies.

■ The correct position of the scale is in the center of each value. For example, the correct position of a two-digit value is the center of the two figures.

Infrared Index " · "

For infrared photography, correction of the distance scale is necessary because the focal point slightly deviates from ordinary photography. Focus first in the ordinary manner, then adjust that distance scale to the infrared mark "•" in red. For instance, if the distance

Index (orange line) Distance Scale Infrared Index 50_{mm}



scale reads 10m after focusing, merely shift the 10 scale to " \cdot " position. The position of " \cdot " on the F-1 is based on using film with the highest wave-length sensitivity figure of $800m\mu$, such as Kodak IR 135 film and Wratten 87 filter.

Film Plane Indicator

In case the focusing is done by actual measurement, measure the distance from the film plane indicator and interpret the measured distance on the distance scale.

Depth-of-Field Scale

The depth-of-field scale indicates the range of subjects which will be in focus sharply on the film. This range will vary with the following factors: The depth-of-field will be deeper the smaller the f/stop, the further the distance of the subject, and/or the shorter the lens focal length. The depth-of-field will be shallower the larger the f/stop, the nearer the distance of the subject, and/or the longer the lens focal length. For example, if the lens used is 50mm and the subject has been focused at a distance of 3m (10'), with an f/8 value read off from both indexes on either side of the indicator (orange line), the depthof-field is from approximately 2.3m (8') to 4.3m (14').



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50mm Lens f/8 Depth-of-field 2.3-4.3m (8'-14') Focused at 3m (10')



50mm Lens f/16 Depth-of-field 1.9-7.6m (6'-25') Focused at 3m (10')





If the aperture is closed down to f/16, the picture will become sharp between 1.9m (6') to 7.6m (25') from the camera. This range will vary with the f/stop selected.

- In the case of Canon FD lenses, you can see the actual sharpness through the viewfinder by pressing the stopped-down functioning lever.
- Although air bubbles may sometimes be seen in a lens, they do not affect the resolution power or the sharpness of the picture.

FD Lens Mount (FL and R Series Lenses)

All Canon FD and FL lenses which have the FD and FL mounts can be used with the Canon F-1, except the FLP 38mm F2.8.

- It is also possible to attach and use all the R lenses for Canonflex use. However, as the preset aperture mechanism differs, pictures must be taken by controlling the aperture manually.
- Attach the lens quickly in the shade. The film will sometimes become foggy if the lens is left unattached.
- Whenever a lens is removed, be sure to put on the dust cap to protect the various signal levers and pins.
- When not in use for a long time, protect the mirror with a flange cap.

Function of Canon F-1 and FD Lenses



Special Lenses



Canon Lens Fisheye 7.5mm F 5.6 S.S.C.



Canon Lens Fisheye FD 15mm F 2.8 S.S.C.



Canon Lens TS 35mm F 2.8 S.S.C.

This special type of lens covers an angle-of-view of 180° and takes pictures in the size of a 23mm diameter circle. It is not necessary to fix the mirror upward because this lens is of the retrofocus type. The unique images formed with this fisheve lens can be seen directly through the viewfinder when shooting.

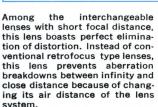
This is a fisheye lens for ordinary photography. It covers an angleof-view of 180°. Its lens speed of F 2.8 ranks among the fastest. This lens can be used without fixing the mirror upward because it is the retrofocus type. It can be used in the same manner as other ordinary FD lenses when metering and shooting. Sharp images can be obtained because this lens is treated with multilayer coating.

It is indispensable for shooting distortion-free architectural photographs. Tilting and shifting can be performed individually or in combination. Shooting range and depth-of-field can be controlled. Diffused reflection has been eliminated with Canon's multilayer coating treatment technique. At the same time, Canon's Floating System was adopted to prevent image collapse in close-up photography

Super Wide-Angle Lenses

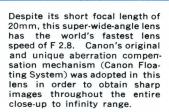


Canon Lens FD 17mm F 4 S.S.C.





Canon Lens FD 20 mm F 2.8 S.S.C.





Canon Lens FD 24mm F 2.8 S.S.C.

This retrofocus type lens is noted for having a very fast lens speed for a super-wide-angle lens. It is combined with the full range aberration free system and it takes pride in its high contrast and high resolving power qualities even at full aperture opening.



Canon Lens FD 28mm F 3.5 S.C.

It is a compact, lightweight lens but it guarantees clear and sharp pictures. Convenient wide-angle photography is possible with its 75-degree angle-of-view.

Wide-Angle Lenses



Canon Lens FD 35mm F 3.5 S.C.



Canon Lens FD 35mm F 2 S.S.C.

Compact, lightweight and highly efficient specially for taking snapshots. Its performance is indisputable and the elimination of the various aberrations is complete. It has high contrast and high resolving power. Even at full-aperture opening, it takes sharp images throughout the entire picture. Equipped with a coupling pin to Canon Auto Tuning (CAT) System: Dancameras.

As a wide-angle lens, it shows its superior efficiency when it is used for picture taking at full-aperture opening. Special emphasis is put into it so that it can be also used as standard lens. It incorporates the full range aberration-free system to assure high resolving power at a photographic distance of 30 centimeters. Equipped with a coupling pin to CAT System.

Standard Lenses



Canon Lens FD 50mm F 1.8 S.C.

One flourishing feature of this lens is its superior angle-of-view characteristics from the middle to the outer edges and excellent effects. This standard lens has good delineation power even during close-up photography. Equipped with a coupling pin to CAT System.



Canon Lens FD 50mm F 1.4 S.S.C.

The optical system of the reputed FL 50mm F 1.4 standard lens is put into effective use in this lens. Its high resolving power and high contrast delineation power are magnificent. Equipped with a coupling pin to CAT System.

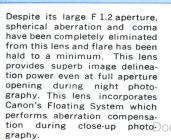


Canon Lens FD 55mm F 1.2 S.S.C.

It tops all the FD series of lenses for having the fastest lens speed. It is similar to but more advanced from the FD50mm F1.4 and despite its large aperture, it is highly regarded for its high contrast during full-aperture opening and for high resolving power.



Canon Lens FD 55mm F 1.2 AL S.S.C.





Canon Macro Lens FD 50mm F 3.5 S.S.C.

Emphasis was laid on the resolving power of this lens at very close shooting distance. Close-up photography of up to 0.5-time is possible without any accessories. 1:1 size photography is possible with the use of the life-size adapter. The exposure is automatically corrected. This lens is indispensable for close-up photography and copy work.

Telephoto Lenses

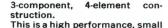


Canon Lens FD 100mm F 2.8 S.S.C.

This telephoto lens is ideal for near natural snapshots and portrait photography. It is a fast speed lens which acquired the high performance of the FL 100mm F 3.5, regarded as the sharpest of all Canon telephoto lenses. Its telephoto ratio is very small and has an overall length of 57mm but high contrast and pre-eminent image-forming qual- 29 ities are superb.



Canon Lens FD 135mm F 3.5 S.C.



size, lightweight 135mm popular type lens. It is designed for telephotography for taking sports pictures, portraitures and mountain scenes.



Canon Lens FD 135mm F 2.5 S.C.

Its usefulness is wide and perfect for portrait and commercial photography. This lens came out of the Canon factory as a result of improving the optical system of the FL 135mm F 2.5 lens. It has the fastest lens speed of the FD telephoto lenses.



Canon Lens FD 200mm F 4 S.S.C.

This lens is an improved version of the conventional FL 200mm F 3.5 lens and one factor that makes it stand out is its length measuring only 13.3cm. Its high contrast and high resolving power are excellent. It's good for sports and news photography, portrait and snapshot photography and taking pictures of animal life.



Canon Lens FD 300mm F 5.6 S.C.

This is a high performance, compact lens with a long focal length of 300mm. It is most convenient and advantageous for telephotography. Canon succeeded in developing it using ordinary optical glass instead of the costly and special material, artificial fluorite. The telephoto ratio of this lens was shortened to 1:0.72 with the performance of a near perfect aberration correction. Sharp delineations of high contrast and high resolving power can be obtained.



Zoom Lenses



Canon Zoom Lens FD 100-200mm F 5.6 S.C.

Small in size and lightweight, this is a universal zoom lens for shooting scenery and snapshot. Distortions and aberrations are held to the very minimum. Its efficiency, together with fully automatic aperture and fast picture taking functions, lives up to the expectation of people.



Canon Zoom Lens FD 85-300mm F 4.5 S.S.C.



Super Telephoto Lenses

Canon Lens FL 600mm F 5.6



Canon Lens FL 400mm F 5.6

Canon Lens FL 800mm F 8





Canon Focusing Unit





Table of Interchangeable Lenses FD for Canon F-1 and Other Canon SLR Cameras

Lens	Type	Angle	Aperture	Manually	Magnification	Construction		Minimum
	Туре	of View	System	Operated Aperture	Magnification	Components	Elements	Apertur
Fisheye 7.5mm F5.6 S.S.C.	Special	180°	Manual		0.15x	8	11	22
***Fisheye FD 15mm F2.8 S.S.C.	Special	180°	Automatic	Possible	0.3x	9	10	16
FD17mm F4 S.S.C.	Super-wide-angle	104°	Automatic	Possible	0.34x	9	11	22
***FD 20mm F2.8 S.S.C.	Super-wide-angle	94°	Automatic	Possible	0.4x	9	10	22
FD 24mm F2.8 S.S.C.	Super-wide-angle	83"	Automatic	Possible	0.48x	8	9	16
FD 28mm F3.5 S.C.	Super-wide-angle	75°	Automatic	Possible	0.56x	6	6	16
*FD 35mm F3.5 S.C.	Wide-angle	64	Automatic	Possible	0.7x	6	6	16
***TS 35mm F2.8 S.S.C.	Special (Tilt & Shift)	62.6°/79°	Manual		0.7x	8	10	22
*FD 35mm F2 S.S.C.	Wide-angle	64°	Automatic	Possible	0.7x	8	9	16
***FD 50mm F3.5 S.S.C.	Macro	46	Automatic	Possible	1x	4	6	22
*FD 50mm F1.8 S.C.	Standard	46°	Automatic	Possible	1x	4	6	16
*FD 50mm F1.4 S.S.C.	Standard	46°	Automatic	Possible	1x	6	7	16
FD 55mm F1,2 S.S.C.	Standard	43°	Automatic	Possible	1.1x	5	7	16
FD 55mm F1.2AL S.S.C.	Standard	43°	Automatic	Possible	1.1x	6	8	16
***FD 85mm F1.8 S.S.C.	Long-focus	29°	Automatic	Possible	1.7x	-	_	
FLM 100mm F4	Macro	24°	Automatic	Possible	2x	3	5	22
FD 100mm F2.8 S.S.C.	Telephoto	24"	Automatic	Possible	2x	5	5	22
FD 135mm F3.5 S.C.	Telephoto	18°	Automatic	Possible	2.7x	3	4	22
FD 135mm F2.5 S.C.	Telephoto	18°	Automatic	Possible	2.7x	5	6	22
FD 200mm F4 S.S.C.	Telephoto	121	Automatic	Possible	4×	5	6	22
FD 300mm F5.6 S.C.	Telephoto	8"	Automatic	Possible	6x	5	6	22
***FD 35-70 F2.8-3.5 S.S.C.	Zoom	64°-31°	Automatic	Possible	0.7-1.4x	10	10	22
FD 100-200mm F5.6 S.C.	Zoom	24°-12°	Automatic	Possible	2-4x	5	8	22
***FD 85-300mm F4.5 S.S.C.	Zoom	29°-8°	Automatic	Possible	1.7-6x	11	15	22
FL-F 300mm F5.6	Telephoto	8"	Automatic	Possible	6×	6	7	22
FL-F 500mm F5.6	Super-telephoto	5"	Automatic	Possible	10x	5	6	22
**FL 400mm F5.6	Super-telephoto	6.2	Automatic	Possible	8×	6	1118	32
**FL 600mm F5.6	Super-telephoto	4.19	Automatic	Possible	12x	6	1117	32
**FL 800mm F8	Super-telephoto	3.1	Automatic	Possible	16x	6	1118	32
**FL 1200mm F11 S.S.C.	Super-telephoto	2.1°	Manual		24×	6	1118	64

Souipped with a coupling pin to Canon Automatic Turing System.
 Front component instrudingsable type, Econium Unit; II component, 2 element, FL automatic diaphragm, with A.M. ring).
 Will be marketed in the neer future.
 The Canon FL 5200mm FI is available by special order.

Accessories

Canon Bellows FL

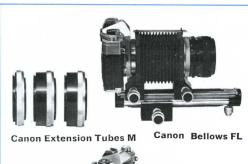
A high grade bellows with an automatic aperture coupling mechanism. It is used for macrophotography, from life-size to three times magnification, with the use of a standard lens. A slide duplicating apparatus can be attached to this bellows

Canon Extension Tubes M

Canon Extension Tubes M make possible easy close-up photography. The M are of the manually operated series.

Canon Bellows M

A handy bellows for macrophotography. This is used to attach a Macro Canon Lens FL 50mm F 3.5 or a Canon Bellows Lens 100mm 36 F 4 to the F-1.





Canon Bellows M

Canon Camera Holder F

The use of Camera Holder F is recommended for telephotography and slow speed photography. It holds the camera in a stable, center of gravity position, and changing the camera to a horizontal or vertical position can be easily performed. The use of a cable release, at this time, is effective.

■ Canon Release 30, 50

Canon releases of two different length are available.

 Close-Up Lenses (Screw-in Type 48mm, 55mm and 58mm)
 Screw diameters for all lenses available.
 Classified into two kinds of 450 and 240 according to close-up distance.





Lens Hood

Always use a lens hood when photographing. It is especially effective when photographing against the light.

With the exception of built-in hoods, all hoods are of the bayonet type. They are attached to the front of the lens by turning clockwise. They can also be used for covering the lens by attaching to the front of the lens in reverse direction and by turning counterclockwise.

■ Lens Cap

With the exclusion of exclusive caps, all caps are of the clip-on type. They are attached by using the inner threads on the lens used for attaching filters. They are attached or detached by depressing the knobs on both sides. They can also be attached on double-screw



Precautions

- Perform the interchanging of lenses quickly and by avoiding direct sunlight.
- Be careful not to damage the mount sections, and keep them covered when not in use.
- Remove dust from the lens surface with a clean and soft brush. Remove stains by lightly wiping with a clean cotton cloth slightly soaked in alcohol. Scratches will result if the lens is wiped with pressure or when dust is still on the lens.
- Do not keep the lenses in hot or humid places. Use a desiccating agent when storing in a damp place.

Canon

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