



Digital Cinema Lens

CN-E30-300mm T2.95-3.7L S

CN-E30-300mm T2.95-3.7L SP


OPERATION MANUAL



Read this operation manual before using the product.

Keep the manual for future reference.

ENGLISH

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The English version is the operation manual for counties other than Japan.

GENERAL SAFETY INFORMATION

The safety warnings and cautions provided on the product or in this operation manual must be observed.

Failure to observe these warnings and cautions provided to guard against hazards may result in injury or accident.

Read this operation manual carefully to familiarize yourself with its contents and ensure that you can operate the product properly.

Also, store this manual in a safe place where it can easily be referenced whenever required.

This operation manual uses the following symbols and terms to identify hazards to protect you and others by preventing the occurrence of accidents.



WARNING

This indicates a potentially hazardous situation which, if not heeded, may result in death or serious injury to you or others. Be sure to heed all warning notices to ensure safe operation at all times.



CAUTION

Indicates hazardous situations which, if not heeded, may result in minor or moderate injury to you or other persons, or damage to your property.

NOTE

Emphasizes essential information which, if not heeded, may render the product unworkable or cause it to function improperly.

Also, provides helpful information for operation.

HANDLING THE PRODUCT



WARNING

1. Do not stare at the sun or other source of high-intensity light through the lens. Doing so could injure your eyes.



CAUTION

1. Make sure all mountings are tightened securely. If any of these mountings becomes loose, the lens may fall, possibly causing injury.
2. Inspect all mountings periodically (about every 6 months to 1 year) to make sure they are securely tightened, and tighten any loose parts. Otherwise, the lens may fall, possibly causing injury.
3. If it becomes necessary to repair this product, or to perform any operations or adjustments not mentioned in this operation manual, contact Canon's representative or the dealer who originally supplied the lens.

NOTE

1. Protect the lens from strong impacts or shocks. Striking or dropping the lens may result in a malfunction.
2. This lens is not completely waterproof, so avoid exposing it directly to rain or snow. When the lens must be used in rain or snow, provisions should be made to prevent the lens from getting wet.
3. Do not bring the lens, kept in a very cold ambient temperature, into a warm room, because the lens may fog on the inside or condensation may occur.
In these cases, the lens cannot be used until these problems clear.
If the lens must be used under such conditions, countermeasures are recommended.

MAINTENANCE AND INSPECTION

NOTE

1. Gently blow or brush away dust or dirt on the lens surface using a lens blower or a soft lens brush. Remove any fingerprints or other stains with a soft clean cotton cloth moistened with commercially available lens cleaning fluid or lens cleaning paper. Be careful not to rub dust across the lens, as the lens surface may be scratched.
2. A periodic inspection about once a year is recommended.
The inspection and maintenance interval depends on the operating conditions, the frequency of use, and the environment. If required, overhaul the lens.

STORAGE



CAUTION

1. Always attach the lens cap (or hood cap) and the dust cap before storing the lens. Storing the lens without these caps attached may present a fire hazard. (Very bright light, such as sunlight, may be focused by the lens and cause a fire.)

NOTE

1. If the lens becomes damp because of use in fog, mist, or drizzle, wipe off the moisture with a soft dry cloth and seal the lens together with an effective desiccant in a vinyl bag to remove moisture that has entered the interior.

TO THE CUSTOMER

1. Canon shall bear no responsibility for damage resulting from improper operation of this product by the customer.
2. Canon shall make no guarantees about the product quality, functions, or operation manual and its marketability and suitability for the customer's purpose.
Moreover, Canon shall bear no responsibility for any damage, direct or incidental, that results from usage for the customer's purpose.
3. Canon shall make no guarantees about the results obtained using this product.
4. The product specifications, configuration, and appearance are subject to change without prior notice.
5. For further information on repairs, maintenance, or adjustments not mentioned in this operation manual, contact your Canon dealer or your Canon sales representative.
6. Note that Canon may be unable to undertake servicing or repair of a product if it is modified without consulting Canon or your Canon sales representative.

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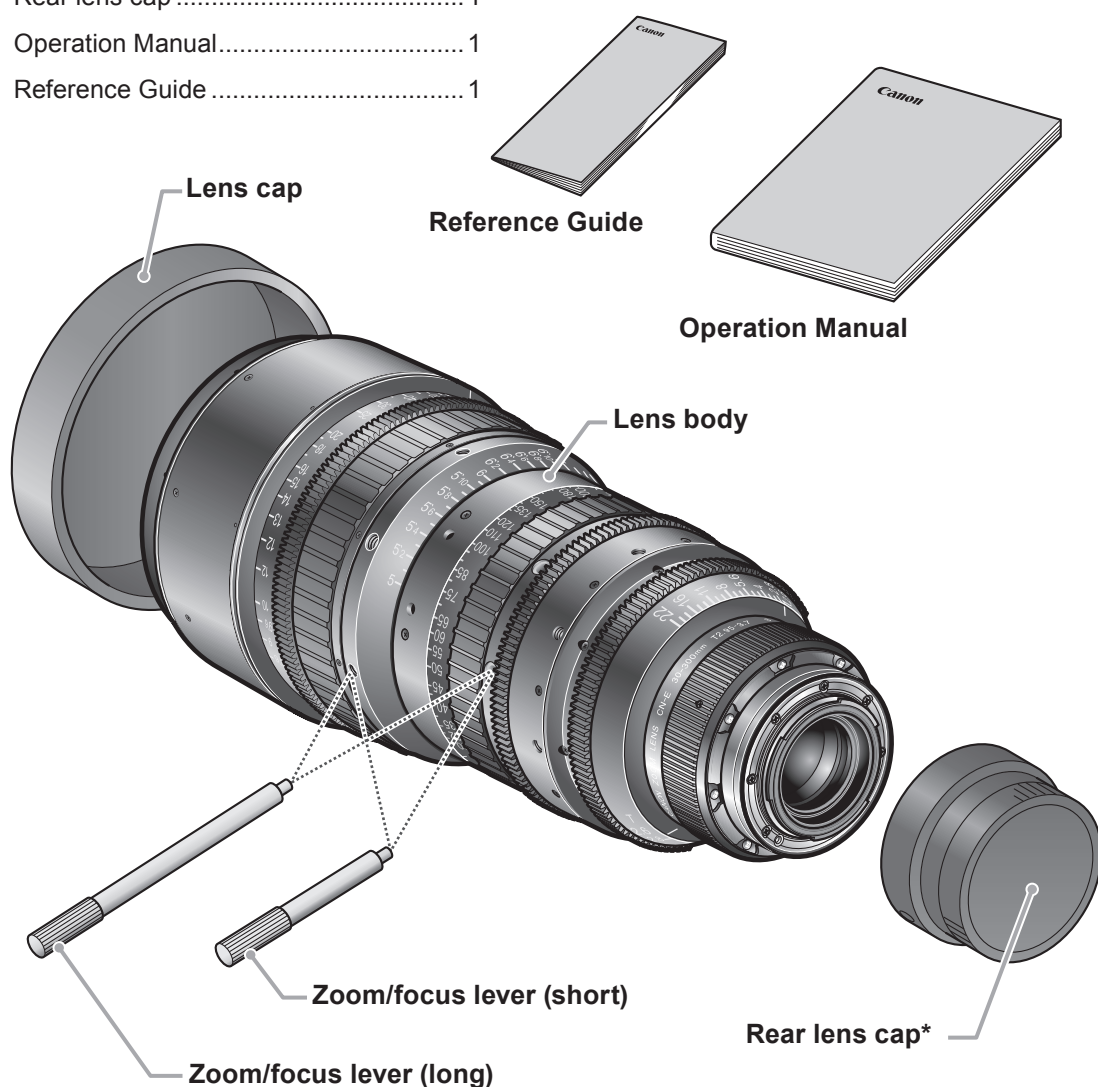
3 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET UK

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Product Configuration

Two types of the CN-E30-300mm T2.95-3.7L are available for the positive lock mount (S type) and the Canon EF mount (SP type). Figures in this manual are for the S type lens unless otherwise mentioned.

Lens body	1
Zoom/focus lever (short)	1
Zoom/focus lever (long).....	1
Lens cap	1
Rear lens cap	1
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* The shape of the rear lens cap for the SP type differs from the figure above.

Names of Parts

Focus drive gear

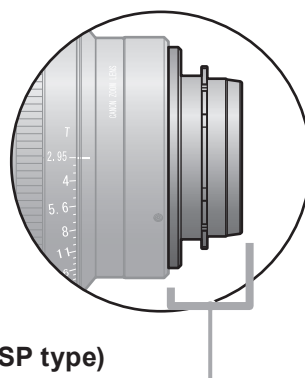
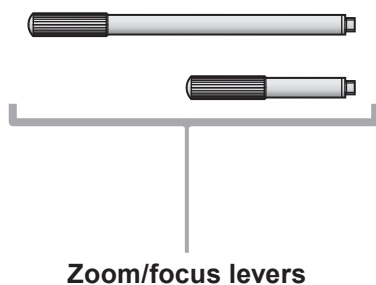
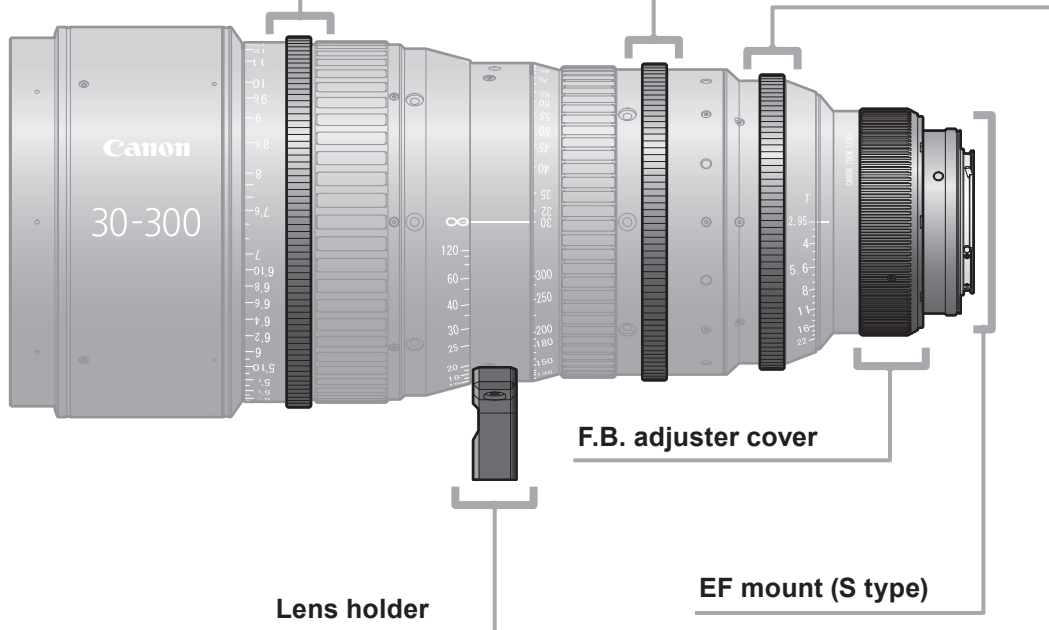
Number of teeth: 169
Module: 0.8 metric module
P.C.D.: 135.2 mm
Angular rotation: 300°

Zoom drive gear

Number of teeth: 144
Module: 0.8 metric module
P.C.D.: 115.2 mm
Angular rotation: 160°

Iris drive gear

Number of teeth: 134
Module: 0.8 metric module
P.C.D.: 107.2 mm
Angular rotation: 63°



F.B. (Back Focus) Adjustment

F.B. (back focus) of this lens can be adjusted in the following procedures.

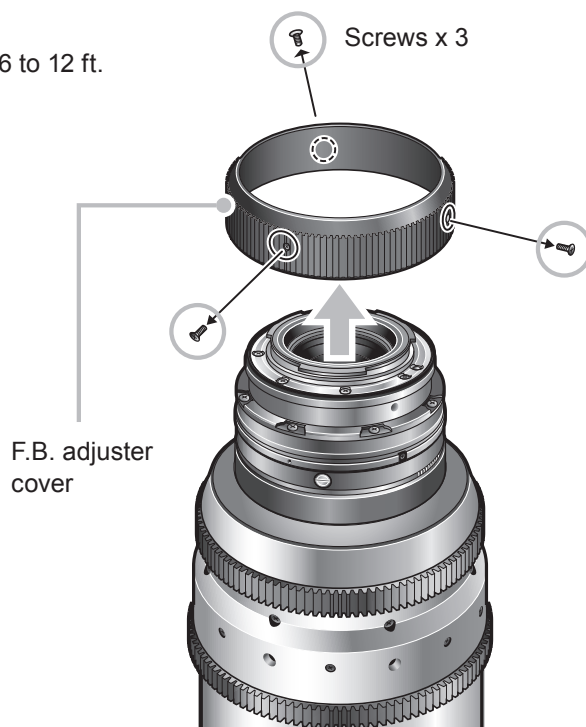
Before starting, select an object with sharp contrast at a distance* that facilitates the adjustment work.

* Recommended object distance range: 6 to 12 ft.

1

Remove three screws and remove the F.B. adjuster cover as in the right figure.

Note: Be sure to keep the screws for later reattachment.



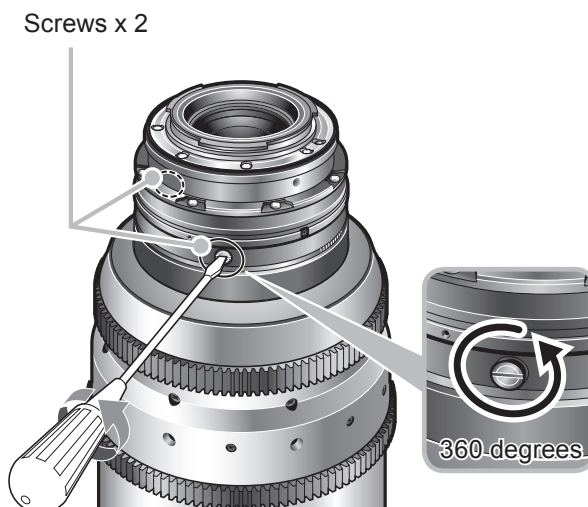
2

Mount the lens on the camera and turn two F.B. adjuster screws counterclockwise one revolution as in the right figure.



CAUTION

Be sure to securely mount the lens on the camera mount.



Note: Be sure not to remove the screws.

3

Turn the iris ring to set the iris to fully open (T2.95).

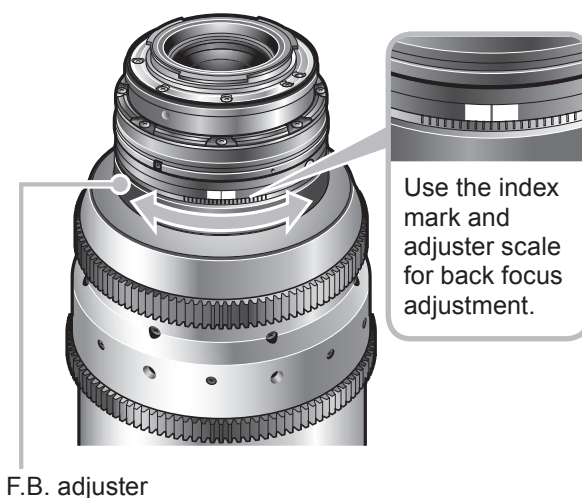
4

Turn the zoom ring to set the lens to the telephoto end, then turn the focus ring to bring the object into focus.

5

Turn the zoom ring to set the lens to the wide angle end, then turn the F.B. adjuster to bring the object into focus.

Note: Be sure not to move the focus ring at this time.



6

Repeat steps 4 and 5 two or three times.

7

Secure the F.B. adjuster and reattach the F.B. adjuster cover following the reverse procedure.

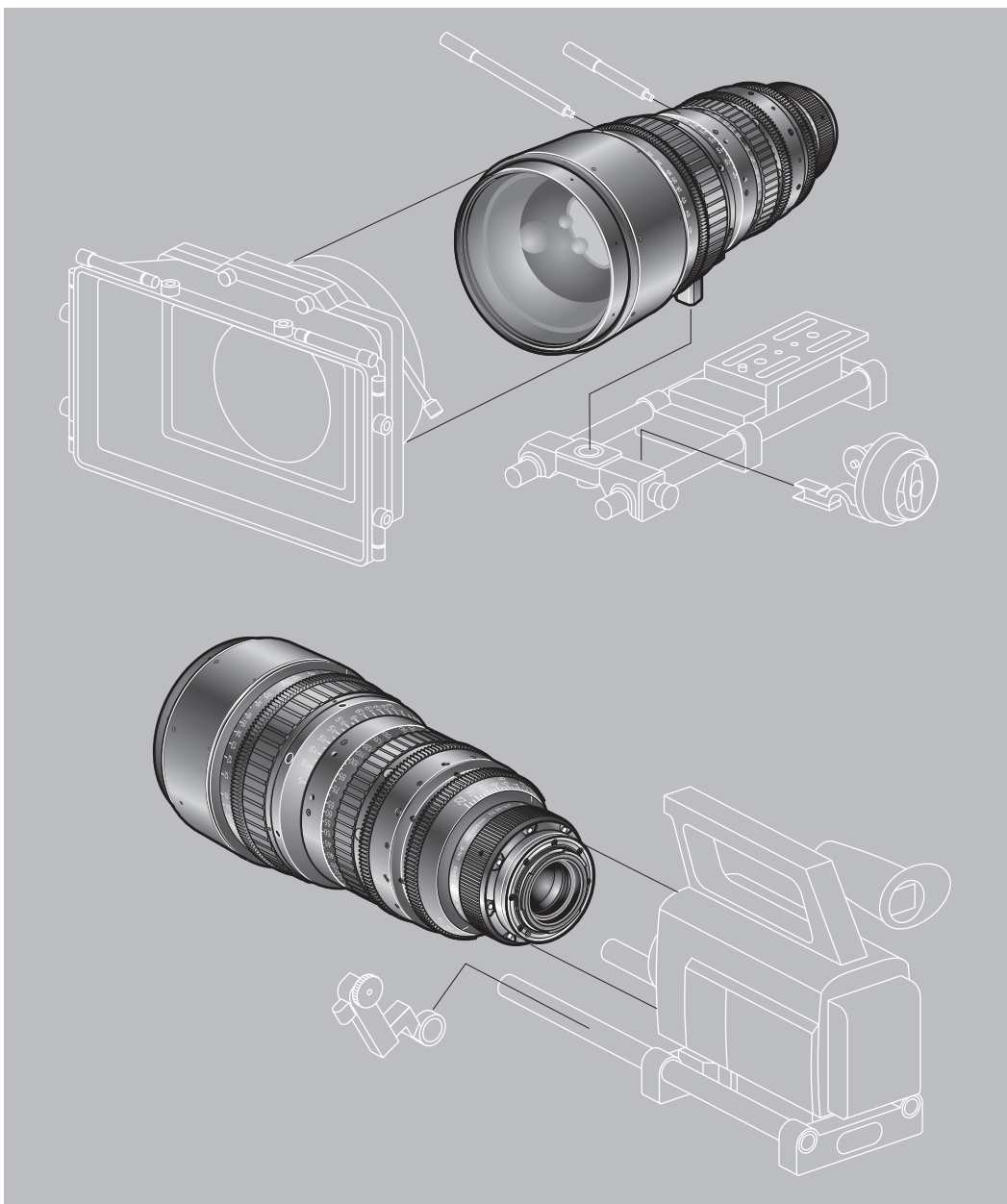
Available accessories

A variety of professional camera accessories are available using $\Phi 19$ mm rod adaptors.



CAUTION

Be sure to use the lens holder when mounting the lens on a camera. Be sure to avoid applying excessive weight to the lens mount when the lens is mounted on a lens support.





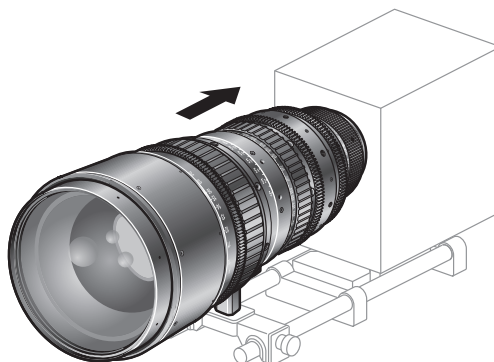
CAUTION

Mount the S type (EF mount) lens to the camera by following the steps below.

1

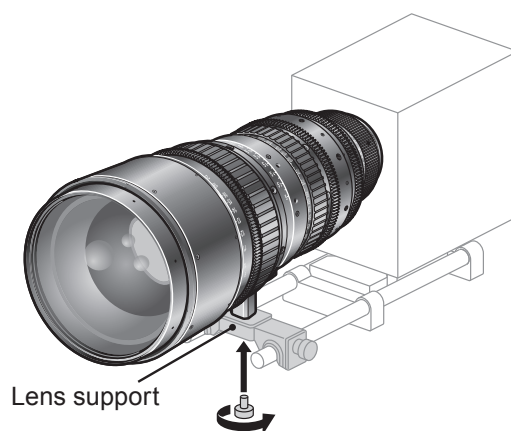
Attach the lens to the camera tightly so that both mounting surfaces are in complete contact.

Refer to the operation manual for the respective camera for the detailed information.



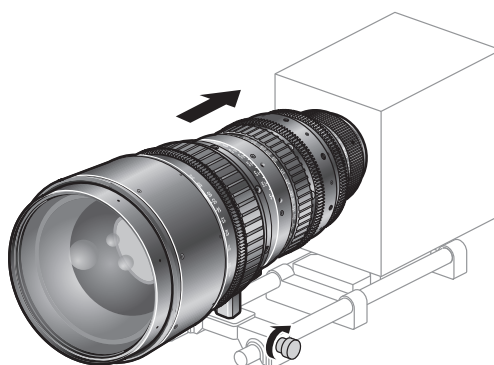
2

Secure the lens holder on the lens support using the clamping screw supplied with the lens support.



3

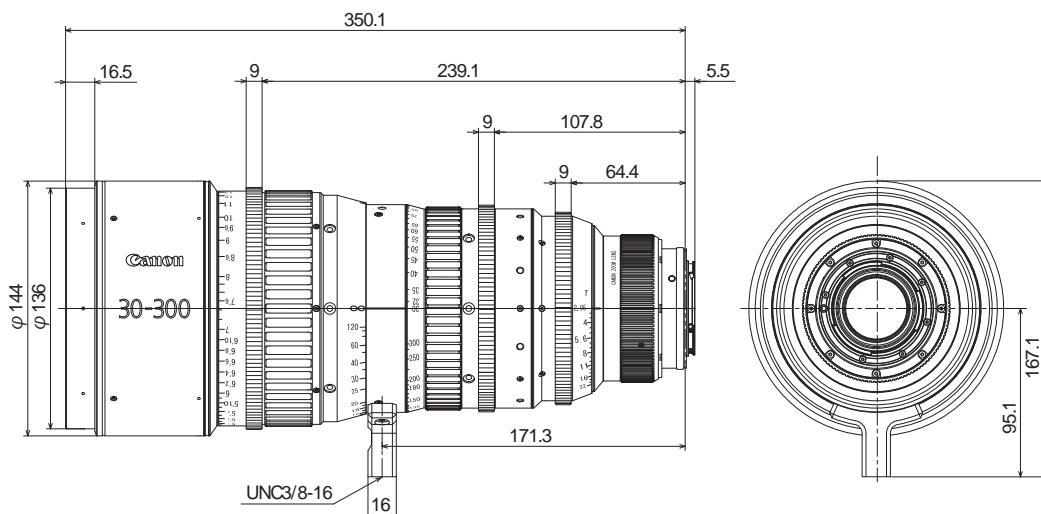
Push the lens toward the camera until both mounting surfaces are in complete contact and clamp the lens support to the rods.



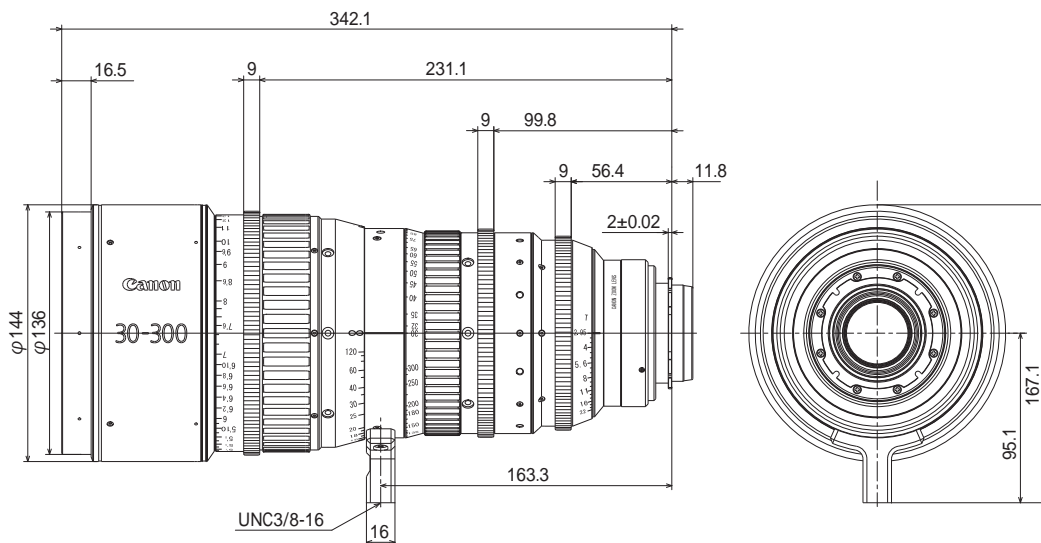
Dimensions of parts

Unit: mm

S type (EF mount)



SP type (PL mount)



Spur gear specifications

	Focus drive gear	Zoom drive gear	Iris drive gear
Number of teeth	169	144	134
Module	0.8 metric module	0.8 metric module	0.8 metric module
P.C.D.	135.2 mm	115.2 mm	107.2 mm
Angular rotation	300 degrees	160 degrees	63 degrees

Specifications

		CN-E30-300mm T2.95-3.7 L S	CN-E30-300mm T2.95-3.7 L SP
Lens Mount		Canon EF	PL
Focal Length		30 to 300 mm	
Maximum T-stop		T2.95 (f = 30 to 240) T3.7 (f = 300)	
Iris Blade		11 pieces	
Coverage	Super 35mm Image Circle / H x V (1.78:1)	Φ27.5 mm / 24.0 x 13.5 mm	
	Angular Field of View (H / V) at wide angle end	43.6 / 25.4 degrees	
	Angular Field of View (H / V) at telephoto end	4.6 / 2.6 degrees	
Coverage	EOS C300 Image Circle / H x V (1.78:1)	Φ28.2 mm / 24.6 x 13.8 mm	
	Angular Field of View (H / V) at wide angle end	44.6 / 25.9 degrees	
	Angular Field of View (H / V) at telephoto end	4.7 / 2.6 degrees	
Coverage	EOS C500 Image Circle / H x V (1.9:1)	Φ29.6 mm / 26.2 x 13.8 mm	
	Angular Field of View (H / V) at wide angle end	47.2 / 25.9 degrees	
	Angular Field of View (H / V) at telephoto end	5.0 / 2.6 degrees	
Minimum Object Distance (M.O.D.)		1.5 m / (from the image sensor)	
Object Dimensions at M.O.D.	Super 35mm	98.8 x 55.6 cm at wide angle end 9.6 x 5.4 cm at telephoto end	
	EOS C300	101.3 x 56.8 cm at wide angle end 9.9 x 5.6 cm at telephoto end	
	EOS C500	107.9 x 56.8 cm at wide angle end 10.5 x 5.6 cm at telephoto end	
Focus Angular Rotation		300 degrees	
Zoom Angular Rotation		160 degrees	
Spur Gear Module		0.8 metric module	
Front Diameter		Φ136 mm	
Length		350.1 mm	342.1 mm
Weight		5.8 kg	

* A variety of professional camera accessories compatible with the Φ19 mm rod system can be used with this lens.

* This lens is compatible with EOS cameras that have a Super 35mm or equivalent sensor, or an APS-C image sensor. The lens is not compatible with cameras that have a 35-mm full-size sensor or an APS-H sensor.

Reference Information

This lens is a full manual lens for shooting movies.

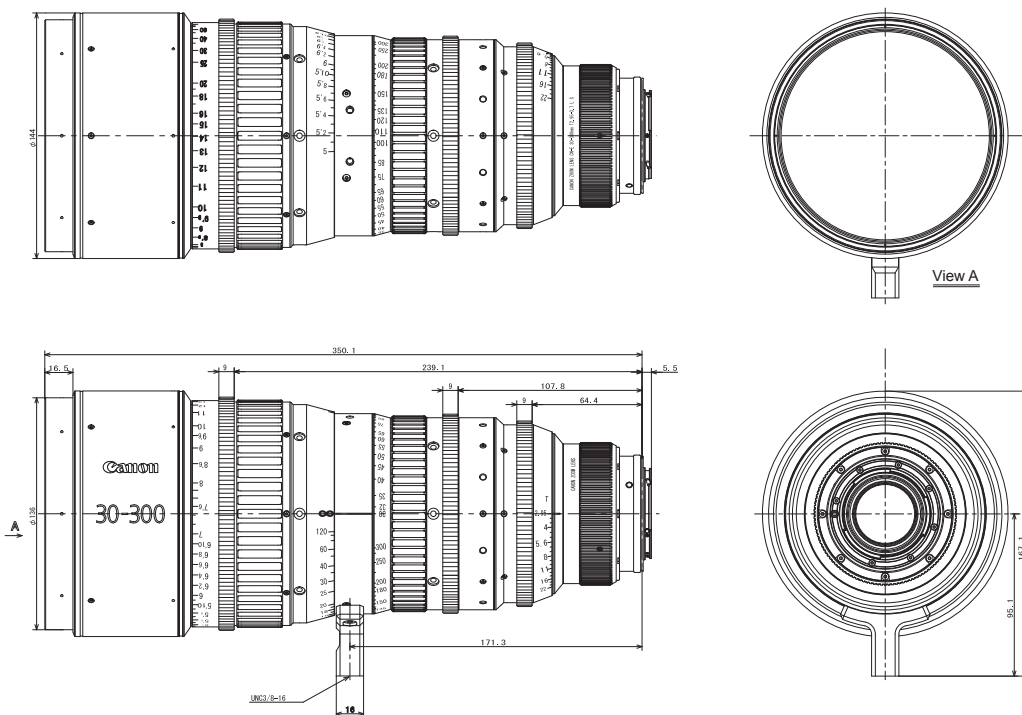
- This lens is developed primarily for movie production, and have a color balance typical for movies. This means that the color reproduction is warmer than that of EF lenses which are basically used to shoot still images. Therefore, when using both types of lens together, adjust the color balance (redo the white balance etc.) as necessary.
- In general, the depth of field becomes shallow and the focusing range becomes extremely narrow near the widest aperture and when shooting a subject at close range. In addition, this tendency increases for lenses with longer focal lengths. When shooting images, carefully check the focusing condition using the zoom mode of the finder or other means, and shoot a sufficient number of test images before performing focus operations.

Appendix

External view apx. 2

External view

CN-E30-300mm T2.95-3.7L S



CN-E30-300mm T2.95-3.7L SP

