

EF 70-300mm f4~5.6 DO IS

Telephoto zoom lens

Optics

Focal length

70–300mm

- 91–390mm equivalent on EOS-1D and EOS-1D Mark II
- 112–480mm equivalent on EOS 10D, Digital Rebel, D60 and D30

Optical Construction

18 elements in 12 groups

Diffractive Optics

New three-layer Diffractive surfaces

- Superior control of scattered and stray light at all focal lengths
- Superior optical performance with less color fringing than existing EF 75-300 IS lens
- Significantly shorter overall length — shorter at 300mm than 75-300 is at 75mm

Aperture

Six blades with circular shape

(preserves circular out-of-focus highlights if stopped down up to two *f*-stops)

Minimum focus

4.6 feet (1.4m)

- Maximum magnification: 0.19x at 300mm (roughly 1:5 reproduction ratio)
- Fills the frame with a subject about the size of a postcard)

Image Stabilizer

Stabilizer unit

New design, with lower friction in moving sections of the IS lens group; new software within lens provides improved stabilizer control

Effectiveness

Up to three stops slower shutter speeds possible than without IS

Stabilizer modes

Mode 1: General hand-held shake correction

Mode 2: Corrects when deliberately panning with a moving subject

Tripod operation

Stabilization continues when lens is mounted on solid tripod (similar to EF 300/2.8L, etc.)

Autofocus

Focus motor

Ring-type USM (allows full-time manual focus)

Focusing elements in lens

Rear group focusing (front element does not move during focusing)

Focusing speed

Superior to EF 100-400mm f/4.5~5.6L IS lens:

- New high-speed CPU in the lens improves data communication speed
- New streamlined processing of AF information within lens

Miscellaneous

Barrel construction

All major components are aluminum alloy for solid “feel” and excellent durability

Zoom lock

Button on lens can lock zoom ring at 70mm setting, to avoid slipping during transport

Filter diameter

58mm

Lens Hood

Canon ET-65B (optional); bayonet hood can be attached in reverse position for storage

Close-up Lenses

Compatible:

- 58mm 250D: magnifications 0.29x~1.18x
- 58mm 500D: magnifications 0.14x~0.65x

Extension Tubes

Compatible with all Canon EF extension tubes

- EF12 and EF12 II: 0.04x~0.23x
- EF25 and EF25 II: 0.09x~0.46x

Tele Extenders

Not compatible with EF tele extenders

Dimensions (ø x length)

3.2 x 3.9 inches (82.4 x 99.9mm)

Weight

25.4 oz. (720g)