

Detailed Specifications

Lens	
Focal length	20–50mm <ul style="list-style-type: none"> • APS-C sensor cameras zoom range: approx. 32–80mm (equivalent)
Zoom method	Power zooming (lens zoom ring at [W — T] position) Manual zooming (lens zoom ring set to 20mm – 50mm zoom position) <ul style="list-style-type: none"> • Lock switch on side of lens to move zoom ring into or out of Power Zoom position <i>Zooming always performed via two zoom-dedicated Nano USM motors, even at manual zoom setting</i>
Maximum and minimum aperture	f/4 – f/22 (at all focal lengths)
Lens mount	Canon RF mount (metal)
Compatible cameras	Canon EOS R-series and RF-compatible Cinema EOS cameras
Minimum focusing distance	9.5 in. / 0.79 ft. / 0.24m
Maximum magnification	0.33x (at 50mm)
Angle of view (diagonal, full-frame camera)	20mm: 94° 50mm: 46°
Optical design	
Lens construction	13 elements in 11 groups
Special elements	(three) Ultra-low Dispersion (UD-glass) elements (two) Aspheric elements
Lens coatings	Super Spectra Coating (SSC) Air Sphere Coating (ASC), on inner surface of front lens element Fluorine Coating (on front lens element)
Floating focus system	None
Lens zooming	Internal — no change in length as lens is zoomed
Filter size (diameter)	67mm
Drop-in filters / rear gel filters	None
Aperture blades	9
Image Stabilization	
Image Stabilization	Yes <ul style="list-style-type: none"> • Optical correction alone: 6.0 stops correction, at center¹ • Optical + IBIS coordinated IS: 8.0 stops at center / 8.0 stops at corners² <i>1: At 50mm, in yaw/pitch directions, using EOS R8 camera — CIPA 2024 standard</i> <i>2: At 50mm, in yaw/pitch/roll directions, using EOS R1 camera — CIPA 2024 std.</i>
Coordinated IS control	Yes <ul style="list-style-type: none"> • Lens optical IS + in-camera IBIS, including video (on camera bodies so-equipped) • Lens optical IS + IBIS + Movie Digital IS (when Movie Digital IS is activated)
SCN mode stabilization	Panning mode correction; Panorama shot mode correction

AF	
Focus drive system	Nano USM; direct linear drive <ul style="list-style-type: none"> • One Nano USM motor used for focus drive
Full-time Manual focusing	Yes
Dual Pixel CMOS AF coverage (Horizontal x Vertical)	Approx. 100% x 100% (whole area AF, with subject detection active) Approx. 90% x 100% (when manually positioning AF Area)
Exterior design	
Control Ring	Yes (with click-stops) <ul style="list-style-type: none"> • Full 360° rotation • 57 clicks per revolution
Manual focus ring	Yes
AF / MF switch	Yes
Iris ring	None
Zoom ring	Yes <ul style="list-style-type: none"> • Power zoom (zoom ring at [W — T] position) • Manual zoom (zoom ring at 20 – 50mm zoom position)
Zoom unlock switch	Sliding switch on side of lens <ul style="list-style-type: none"> • Allows moving zoom ring to Power Zoom or Manual Zoom positions
Lens Function button	Yes (one)
Distance scale	None <ul style="list-style-type: none"> • Distance scale available in viewfinder or LCD screen, in red Shooting Menu: Shooting info display > Lens info display > Focus distance display
Distance limiter switch	None
Dust- / weather-resistant construction	Yes
Tripod collar on lens	None
Dimensions, weight	
Maximum outer diameter x Length	approx. 3.15 in. Ø x 3.9 in. / 79.9mm Ø x 98.4mm <ul style="list-style-type: none"> • With Lens Hood EW-73H attached — approx. 3.50 in. Ø x approx. 5.0 in. / 89.0mm Ø x approx. 128mm
Weight	approx. 14.8 oz. / 0.9 lb. / 420g
Accessories	
Lens hood	Canon Lens Hood EW-73H (included with lens) <ul style="list-style-type: none"> • Bayonet mount with locking mechanism; attachable in reverse
Lens cap	Canon Lens Cap E-67 II
Dust (rear) cap	Canon Dust Cap RF
Lens case	Canon LP1219 (included with lens)
Extension tubes	None
Canon RF Extender 1.4x / 2x	Not compatible