Specifications

Type

Type	Shoe-mount E-TTL II/E-TTL autoflash Speedlite
Compatible cameras	EOS cameras with a multi-function shoe and firmware compatible with EL-5 * For details, refer to the Canon website ().

Flash head

Guide number

Normal flash guide number
Maximum guide number (at approx. ISO 100)

Light distribution	Unit	Flash coverage									
		14 mm*1	24 mm	28 mm	35 mm	50 mm	70 mm	80 mm	105 mm	135 mm	200 mm
Standard	m	14.8	28.7	30.0	36.0	42.7	47.1	49.1	53.9	55.4	60.0
	ft.	48.6	94.2	98.4	118.1	140.1	154.5	161.1	176.8	181.8	196.9
Guide number priority	m		36.0	36.0	42.7	49.1	53.9	55.4	60.0	60.0	60.0
	ft.		118.1	118.1	140.1	161.1	176.8	181.8	196.9	196.9	196.9
Even coverage	m		28.7	28.7	28.7	36.0	37.0	37.0	43.9	47.1	50.0
	ft.		94.2	94.2	94.2	118.1	121.4	121.4	144.0	154.5	164.0

* 1: When using the wide panel

High-speed sync guide number
Maximum guide number (at approx. ISO 100)

Shutter speed	Unit	Flash coverage									
		14 mm*1	24 mm	28 mm	35 mm	50 mm	70 mm	80 mm	105 mm	135 mm	200 mm
1/125	m	8.4	16.4	17.1	20.5	24.4	26.9	28.0	30.8	31.6	34.2
	ft.	27.7	53.7	56.2	67.4	79.9	88.2	91.9	100.9	103.7	112.3
1/250	m	6.7	13.0	13.6	16.3	19.3	21.3	22.2	24.4	25.1	27.2
	ft.	22.0	42.7	44.6	53.5	63.5	70.0	73.0	80.1	82.4	89.2
1/500	m	4.7	9.2	9.6	11.5	13.7	15.1	15.7	17.3	17.7	19.2
	ft.	15.6	30.2	31.5	37.8	44.9	49.5	51.6	56.7	58.2	63.1
1/1000	m	3.4	6.5	6.8	8.2	9.7	10.7	11.1	12.2	12.6	13.6
	ft.	11.0	21.3	22.3	26.8	31.7	35.0	36.5	40.1	41.2	44.6
1/2000	m	2.4	4.6	4.8	5.8	6.8	7.5	7.9	8.6	8.9	9.6
	ft.	7.8	15.1	15.8	18.9	22.4	24.8	25.8	28.3	29.1	31.5
1/4000	m	1.7	3.3	3.4	4.1	4.8	5.3	5.6	6.1	6.3	6.8
	ft.	5.5	10.7	11.1	13.4	15.9	17.5	18.2	20.0	20.6	22.3
1/8000	m	1.2	2.3	2.4	2.9	3.4	3.8	3.9	4.3	4.4	4.8
	ft.	3.9	7.5	7.9	9.5	11.2	12.4	12.9	14.2	14.6	15.8

* 1: When using the wide panel

Manual flash guide number
Maximum guide number (at approx. ISO 100)

Flash output	Unit	Flash coverage

Flash output	Unit	Flash coverage									
		14 mm*1	24 mm	28 mm	35 mm	50 mm	70 mm	80 mm	105 mm	135 mm	200 mm
1/1	m	14.8	28.7	30.0	36.0	42.7	47.1	49.1	53.9	55.4	60.0
	ft.	48.6	94.2	98.4	118.1	140.1	154.5	161.1	176.8	181.8	196.9
1/2	m	10.5	20.3	21.2	25.5	30.2	33.3	34.7	38.1	39.2	42.4
	ft.	34.4	66.6	69.6	83.7	99.1	109.3	113.8	125.0	128.6	139.1
1/4	m	7.4	14.4	15.0	18.0	21.4	23.6	24.6	27.0	27.7	30.0
	ft.	24.3	47.2	49.2	59.1	70.2	77.4	80.7	88.6	90.9	98.4
1/8	m	5.2	10.1	10.6	12.7	15.1	16.7	17.4	19.1	19.6	21.2
	ft.	17.1	33.1	34.8	41.7	49.5	54.8	57.1	62.7	64.3	69.6
1/16	m	3.7	7.2	7.5	9.0	10.7	11.8	12.3	13.5	13.9	15.0
	ft.	12.1	23.6	24.6	29.5	35.1	38.7	40.4	44.3	45.6	49.2
1/32	m	2.6	5.1	5.3	6.4	7.5	8.3	8.7	9.5	9.8	10.6
	ft.	8.5	16.7	17.4	21.0	24.6	27.2	28.5	31.2	32.2	34.8
1/64	m	1.9	3.6	3.8	4.5	5.3	5.9	6.1	6.7	6.9	7.5
	ft.	6.2	11.8	12.5	14.8	17.4	19.4	20.0	22.0	22.6	24.6
1/128	m	1.3	2.5	2.7	3.2	3.8	4.2	4.3	4.8	4.9	5.3
	ft.	4.3	8.2	8.9	10.5	12.5	13.8	14.1	15.7	16.1	17.4
1/256*2	m	0.9	1.8	1.9	2.3	2.7	2.9	3.1	3.4	3.5	3.8
	ft.	3.0	5.9	6.2	7.5	8.9	9.5	10.2	11.2	11.5	12.5
1/512*2	m	0.7	1.3	1.3	1.6	1.9	2.1	2.2	2.4	2.4	2.7
	ft.	2.3	4.3	4.3	5.2	6.2	6.9	7.2	7.9	7.9	8.9
1/1024*2	m	0.5	0.9	0.9	1.1	1.3	1.5	1.5	1.7	1.7	1.9
	ft.	1.6	3.0	3.0	3.6	4.3	4.9	4.9	5.6	5.6	6.2

* 1: When using the wide panel
* 2: Not available with high-speed sync

Flash coverage (focal length; for 35mm full-frame)

14 mm	Wide panel: Manual * Not compatible with EF15mm f/2.8 Fisheye or EF8-15mm f/4L Fisheye USM shooting angles of view
24 mm	Zoom • A: Auto Flash coverage is set automatically, accounting for [Auto zoom for sensor size] and [Light distribution] settings at the lens focal length • M: Manual Flash coverage is set manually * [Auto zoom for sensor size] and [Light distribution] settings are not taken into account
28 mm	
35 mm	
50 mm	
70 mm	
80 mm	
105 mm	
135 mm	
200 mm	

Bounce angle

Bounce direction	Bounce angle (approx.)						
Up	0°	45°	60°	75°	90°	120°	
Down		7°					
Left	0°	60°	75°	90°	120°	150°	180°
Right		60°	75°	90°	120°	150°	180°

<table>
<tr><td>Flash duration</td><td>Normal flash<table>
<tr><th>Flash output</th><th>Flash duration (approx., sec.)</th><th>Flash output</th><th>Flash duration (approx., sec.)</th></tr>
<tr><td>1/1</td><td>1/710</td><td>1/64</td><td>1/18640</td></tr>
<tr><td>1/2</td><td>1/1310</td><td>1/128</td><td>1/23650</td></tr>
<tr><td>1/4</td><td>1/2610</td><td>1/256</td><td>1/29050</td></tr>
<tr><td>1/8</td><td>1/4890</td><td>1/512</td><td>1/35330</td></tr>
<tr><td>1/16</td><td>1/7990</td><td>1/1024</td><td>1/46290</td></tr>
<tr><td>1/32</td><td>1/13250</td><td></td><td></td></tr>
</table></td></tr>
<tr><td>Color temperature information transmission</td><td>Supported</td></tr>
</table>

Exposure control

<table>
<tr><td>Flash modes (exposure control modes)</td><td>Flash modes and available functions<table>
<tr><th>Flash mode</th><th>Flash exposure compensation</th><th>FEB</th><th>FE lock</th><th>Radio transmission wireless</th></tr>
<tr><td>E-TTL II/E-TTL autoflash*1</td><td>○</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Manual flash</td><td></td><td></td><td></td><td>○</td></tr>
<tr><td>Stroboscopic flash</td><td></td><td></td><td></td><td>○</td></tr>
<tr><td>Group firing*2</td><td>○</td><td>○</td><td>○*3</td><td>○</td></tr>
<tr><td>Custom flash mode</td><td colspan="4">Following the registered flash mode</td></tr>
</table>* 1: Set automatically when the camera shooting mode is set to Basic Zone modes
* 2: Can only be set when the Speedlite is used as a sender in radio transmission wireless operation
* 3: Only groups set to E-TTL II/E-TTL autoflash</td></tr>
<tr><td>Effective flash range</td><td>Dim interlocking range under the following conditions
Sensor size: 35mm full-frame
Flash coverage: 50 mm
Aperture value: f/1.4
ISO 100
Light distribution: Standard
<table>
<tr><th>Firing conditions</th><th>Effective flash range (approx.)</th></tr>
<tr><td>Normal flash
(Flash-ready lamp: lit)</td><td>0.5–30.5 m / 1.6–100.1 ft.</td></tr>
<tr><td>Quick flash
(Flash-ready lamp: blinking)</td><td>0.5–18.6 m / 1.6–61.0 ft.</td></tr>
<tr><td>High-speed sync
(Shutter speed: 1/250 sec.)</td><td>0.5–13.7 m / 1.6–44.9 ft.</td></tr>
</table></td></tr>
<tr><td>Flash exposure compensation</td><td>±3 stops (in 1/3-stop or 1/2-stop increments)
* Speedlite flash exposure compensation takes precedence if compensation is also set on the camera
* Speedlite flash exposure compensation should be set to 0 to enable flash exposure compensation by the camera</td></tr>
<tr><td>FEB</td><td>±3 stops (in 1/3-stop or 1/2-stop increments)
* FEB auto cancel takes effect after three shots
* Can be used with flash exposure compensation and FE lock</td></tr>
<tr><td>FE lock</td><td>Supported</td></tr>
<tr><td>FE memory</td><td>Supported</td></tr>
</table>

<table>
<tr><td>FE memory</td><td>Supported</td></tr>
<tr><td>Synchronization</td><td>
<table>
<tr><th>Wireless</th><th>Flash mode</th><th>1st-curtain sync</th><th>2nd-curtain sync</th><th>High-speed sync</th></tr>
<tr><td rowspan="3">OFF</td><td>E-TTL II/E-TTL autoflash</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Manual flash</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Stroboscopic flash</td><td>○</td><td></td><td></td></tr>
<tr><td rowspan="4">Radio transmission wireless (Sender)</td><td>E-TTL II/E-TTL autoflash</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Manual flash</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Stroboscopic flash</td><td>○</td><td></td><td></td></tr>
<tr><td>Group firing</td><td>○</td><td>○</td><td>○</td></tr>
</table>
</td></tr>
<tr><td>Modeling lamp</td><td>Supported</td></tr>
<tr><td>Modeling flash</td><td>Not supported
* When mounted on a camera</td></tr>
</table>

Flash recharge

<table>
<tr><td>Recharge time</td><td>
<table>
<tr><th rowspan="2">Power supply</th><th colspan="2">Recharge time (approx.)</th></tr>
<tr><th>Normal flash</th><th>Quick flash</th></tr>
<tr><td>Battery Pack LP-EL</td><td>0.1–1.2 sec.</td><td>0.1–1.0 sec.</td></tr>
</table>
* Using a new, fully charged Battery Pack LP-EL
* Based on Canon testing standards
</td></tr>
<tr><td>Flash-ready indication</td><td>
<table>
<tr><th></th><th>Normal flash (fully charged)</th><th>Quick flash</th><th>Charging in progress</th></tr>
<tr><td>Flash-ready lamp</td><td>Lit in red</td><td>Blinking in red (8 Hz)</td><td>Off</td></tr>
<tr><td>LCD panel display</td><td>Not displayed</td><td>Not displayed</td><td>CHARGE
Recharge level indicated in a range of 1–5</td></tr>
<tr><td>Beep*1</td><td>Yes*2</td><td>Yes*3</td><td>—</td></tr>
</table>
* 1: With Personal Function P.Fn-05 (Beep) set to ON
* 2: With Personal Function P.Fn-01 (Quick flash) set to OFF
* 3: With Personal Function P.Fn-01 (Quick flash) set to ON
</td></tr>
</table>

AF-assist beam

<table>
<tr><td>LED mode</td><td>
The LED AF-assist beam is not used under these conditions
- Lens attached: Set to <MF> mode
- Camera: Set to [Servo AF], [AF-assist beam firing] set to [Disable]

Light emitted
Visible light (from white LEDs)
Compatible AF system
Dual Pixel CMOS AF
Effective range

<table>
<tr><th>AF points</th><th>Effective range (approx.)</th></tr>
<tr><td>At center</td><td>0.6–10 m / 2.0–32.8 ft.</td></tr>
</table>
* Lens focal length: 24 mm or longer
* Direction emitted: from the flash head at a 0° bounce angle
</td></tr>
</table>

	* Direction emitted: from the flash head at a 0° bounce angle
Intermittent flash firing mode	An intermittent AF-assist beam is not used under these conditions - Lens attached: Set to <MF> mode - Camera: Set to [**Servo AF**], [**AF-assist beam firing**] set to [**Disable**] or [**LED AF assist beam only**] • Light emitted Visible light • Compatible AF system Dual Pixel CMOS AF • Effective range **AF points** / **Effective range (approx.)** **At center** / 0.6–10 m / 2.0–32.8 ft. * Lens focal length: 24 mm or longer * Direction emitted: from the flash head at a 0° bounce angle

Wireless functions via radio transmission

Wireless settings	**Sender**: Supported * Secondary and additional units serve as sub-senders and display a "SUB SENDER" icon * Receivers cannot remotely control sub-senders **Receiver**: Supported
Communication functions	**Standards compliance**: IEEE 802.15.4, ARIB STD-T66 **Communication method**: Primary modulation: OQPSK Secondary modulation: DS-SS **Transmission frequency**: 2405–2475 MHz **Channel**: Channel 1–15 Setting: Auto / Manual **Wireless radio ID**: 0000–9999 Setting: Manual **Transmission range*1, 2**: Approx. 30 m / 98.4 ft. **Groups**: Up to 5 groups (A/B/C/D/E) * Sender units are set to Group A **Max. units for communication**: Up to 16 senders and receivers, combined **Max. sender units**: Up to 15 * Secondary and additional units serve as sub-senders **Max. receiver units**: Up to 15 * 1: Without any obstructions between senders and receivers, and without radio interference from other devices * 2: Transmission range may be shorter depending on factors such as how units are arranged, the surrounding environment, and weather conditions
Linked functions	Supports linked shooting with automatic shutter release of up to 16 cameras (sender: 1; receivers: 15) linked to shutter release on the sender camera * Shooting is not simultaneous, because receiver cameras shoot slightly after the sender camera shutter release timing

Power source

Battery	Battery Pack LP-EL * AA/LR6 alkaline batteries and Ni-MH batteries cannot be used
Battery level indicator	Provided (5-level display)

<table>
<tr><td>indicator</td><td>Provided (5-level display)</td></tr>
<tr><td>External power source</td><td>Not supported</td></tr>
<tr><td>Maximum flash count</td><td>Approx. 350–2,450
* Using a new, fully charged Battery Pack LP-EL
* Based on Canon testing standards</td></tr>
<tr><td>Radio transmission wireless shooting time</td><td>Approx. 17 hr. continuously
* Time until the Speedlite turns off while connected wirelessly via radio transmission
* With sender flash firing disabled, and using a new, fully charged Battery Pack LP-EL</td></tr>
<tr><td>Auto power off</td><td>Time from when a connected camera turns off or auto power off is activated until the Speedlite turns off
* Since the Speedlite can detect the state of the connection with the camera, while the camera is on, it does not enter auto power off alone (unintentionally).
<table>
<tr><th>Status</th><th>Custom Function</th><th>Time</th></tr>
<tr><td>During normal operation</td><td>C.Fn-01-0</td><td>Approx. 90 sec.</td></tr>
<tr><td>When set as a sender in radio transmission wireless operation</td><td>C.Fn-01-0</td><td rowspan="2">Approx. 5 min.</td></tr>
<tr><td>During linked shooting</td><td>C.Fn-01-0</td></tr>
<tr><td rowspan="2">When set as a receiver in radio transmission wireless operation</td><td>C.Fn-10-0</td><td>Approx. 1 hr.</td></tr>
<tr><td>C.Fn-10-1</td><td>Approx. 10 min.</td></tr>
<tr><td rowspan="2">Standby before power ON after auto power off when set as a receiver</td><td>C.Fn-11-0</td><td>Approx. 8 hr.</td></tr>
<tr><td>C.Fn-11-1</td><td>Approx. 1 hr.</td></tr>
</table>
Reactivated in response to the following operations
• Pressing the camera shutter button halfway
• Pressing the test flash button
• Using < > menu direct functionality with EL-5 attached to a camera</td></tr>
</table>

Dimensions / weight

<table>
<tr><td>Dimensions</td><td>
<table>
<tr><th>Product</th><th>W × H × D</th></tr>
<tr><td>Body</td><td>Approx. 80.2×139.9×123.3 mm / 3.16×5.51×4.85 in.</td></tr>
</table>
</td></tr>
<tr><td>Weight</td><td>
<table>
<tr><th>Product</th><th>Weight</th></tr>
<tr><td>Body only</td><td>Approx. 491 g / 17.32 oz.</td></tr>
<tr><td>Body and battery (Battery Pack LP-EL)</td><td>Approx. 606 g / 21.38 oz.</td></tr>
</table>
</td></tr>
</table>

Operation environment

Working temperature range	0–45°C / 32–113°F
Working humidity	85 % or less

- All specifications above are based on Canon's testing standards.
- Product specifications and external appearance are subject to change without notice.