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 (Ver.2) * For details, refer to the Canon website ().

Flash head

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

Guide number

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									
		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

14 mm	Wide panel: Manual * Not compatible with EF15mm f/2.8 Fisheye or EF8-15mm f/4L Fisheye USM shooting

<table>
<tr><td>Flash coverage (focal length; for 35mm full-frame)</td><td>
<table>
<tr><td></td><td>angles of view</td></tr>
<tr><td>24 mm</td><td rowspan="9">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</td></tr>
<tr><td>28 mm</td></tr>
<tr><td>35 mm</td></tr>
<tr><td>50 mm</td></tr>
<tr><td>70 mm</td></tr>
<tr><td>80 mm</td></tr>
<tr><td>105 mm</td></tr>
<tr><td>135 mm</td></tr>
<tr><td>200 mm</td></tr>
</table>
</td></tr>
<tr><td>Bounce angle</td><td>
<table>
<tr><th>Bounce direction</th><th colspan="7">Bounce angle (approx.)</th></tr>
<tr><td>Up</td><td rowspan="2">0°</td><td>45°</td><td>60°</td><td>75°</td><td>90°</td><td>120°</td><td></td></tr>
<tr><td>Down</td><td>7°</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Left</td><td rowspan="2">0°</td><td>60°</td><td>75°</td><td>90°</td><td>120°</td><td>150°</td><td>180°</td></tr>
<tr><td>Right</td><td>60°</td><td>75°</td><td>90°</td><td>120°</td><td>150°</td><td>180°</td></tr>
</table>
</td></tr>
<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

Exposure control

Flash modes (exposure control modes)

Flash modes and available functions

Flash mode	Flash exposure compensation	FEB	FE lock	Radio transmission wireless
E-TTL II/E-TTL autoflash*1	○	○	○	○
Manual flash				○
Stroboscopic flash				○
Group firing*2	○	○	○*3	○
Custom flash mode	Following the registered flash mode			

* 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

Effective flash range

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

Firing conditions	Effective flash range (approx.)
Normal flash (Flash-ready lamp: lit)	0.5–30.5 m / 1.6–100.1 ft.
Quick flash (Flash-ready lamp: blinking)	0.5–18.6 m / 1.6–61.0 ft.
High-speed sync (Shutter speed: 1/250 sec.)	0.5–13.7 m / 1.6–44.9 ft.

Flash exposure compensation

±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

FEB

±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

FE lock

Supported

FE memory

Supported

Synchronization

Wireless	Flash mode	1st-curtain sync	2nd-curtain sync	High-speed sync
OFF	E-TTL II/E-TTL autoflash	○	○	○
	Manual flash	○	○	○
	Stroboscopic flash	○		
Radio transmission wireless (Sender)	E-TTL II/E-TTL autoflash	○	○	○
	Manual flash	○	○	○
	Stroboscopic flash	○		
	Group firing	○	○	○

Modeling lamp

Supported

Modeling flash

Not supported
* When mounted on a camera

Flash recharge

	Recharge time (approx.)

Recharge time	Power supply	Normal flash	Quick flash
	Battery Pack LP-EL	0.1–1.2 sec.	0.1–1.0 sec.

* Using a new, fully charged Battery Pack LP-EL
* Based on Canon testing standards

Flash-ready indication

	Normal flash (fully charged)	Quick flash	Charging in progress
Flash-ready lamp	Lit in red	Blinking in red (8 Hz)	Off
LCD panel display	Not displayed	Not displayed	CHARGE Recharge level indicated in a range of 1–5
Beep*1	Yes*2	Yes*3	—

* 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

AF-assist beam

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)

<table>
<tr><td>LED mode</td><td>

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>
<tr><td>Intermittent flash firing mode</td><td>
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

<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>

Wireless functions via radio transmission

<table>
<tr><td>Wireless settings</td><td>
<table>
<tr><th>Sender</th><td>Supported
* Secondary and additional units serve as sub-senders and display a "SUB SENDER" icon
* Receivers cannot remotely control sub-senders</td></tr>
<tr><th>Receiver</th><td>Supported</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>Communication functions</td><td>
<table>
<tr><td>Standards compliance</td><td>IEEE 802.15.4, ARIB STD-T66</td></tr>
<tr><td>Communication method</td><td>Primary modulation: OQPSK
Secondary modulation: DS-SS</td></tr>
<tr><td>Transmission frequency</td><td>2405–2475 MHz</td></tr>
<tr><td>Channel</td><td>Channel 1–15
Setting: Auto / Manual</td></tr>
<tr><td>Wireless radio ID</td><td>0000–9999
Setting: Manual</td></tr>
<tr><td>Transmission range*1, 2</td><td>Approx. 50 m / 164.0 ft.</td></tr>
<tr><td>Groups</td><td>Up to 5 groups (A/B/C/D/E)
* Sender units are set to Group A</td></tr>
<tr><td>Max. units for communication</td><td>Up to 16 senders and receivers, combined</td></tr>
<tr><td>Max. sender units</td><td>Up to 15
* Secondary and additional units serve as sub-senders</td></tr>
<tr><td>Max. receiver units</td><td>Up to 15</td></tr>
</table>
* 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
</td></tr>
<tr><td>Linked functions</td><td>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</td></tr>
</table>

Power source

Battery	Battery Pack LP-EL * AA/LR6 alkaline batteries and Ni-MH batteries cannot be used
Battery level	

<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 (Ver.2) 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>
</table>

Weight	<table><tr><th>Product</th><th>Weight</th></tr><tr><td>Body only</td><td>Approx. 487 g / 17.18 oz.</td></tr><tr><td>Body and battery (Battery Pack LP-EL)</td><td>Approx. 602 g / 21.23 oz.</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.