



SPEEDLITE EL-1

Version 2







Specifications

Flash																																																			
Compatible Cameras	Type-A EOS cameras (E-TTL II/E-TTL autoflash)																																																		
Flash Coverage (Focal length; for 35mm full-frame)	<table border="1"> <tr> <td>14mm</td> <td>Wide Panel: Manual * Not compatible with EF15mm f/2.8 Fisheye or EF8-15mm f/4L Fisheye USM shooting angles of view</td> </tr> <tr> <td>24mm</td> <td rowspan="4">Zoom • A: Auto Flash coverage is set automatically, accounting for [Auto zoom for sensor size] and [Light distribution] settings at the lens focal length.</td> </tr> <tr> <td>28mm</td> </tr> <tr> <td>35mm</td> </tr> <tr> <td>50mm</td> </tr> <tr> <td>70mm</td> <td rowspan="4">• 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>80mm</td> </tr> <tr> <td>105mm</td> </tr> <tr> <td>135mm</td> </tr> <tr> <td>200mm</td> <td></td> </tr> </table>	14mm	Wide Panel: Manual * Not compatible with EF15mm f/2.8 Fisheye or EF8-15mm f/4L Fisheye USM shooting angles of view	24mm	Zoom • A: Auto Flash coverage is set automatically, accounting for [Auto zoom for sensor size] and [Light distribution] settings at the lens focal length.	28mm	35mm	50mm	70mm	• M: Manual Flash coverage is set manually [Auto zoom for sensor size] and [Light distribution] settings are not taken into account.	80mm	105mm	135mm	200mm																																					
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Guide Number	<ul style="list-style-type: none"> The Guide No. is approximately 45.9 ft./14m at ISO 100. -When the extendable wide panel is pulled out, the flash coverage is 14mm. The maximum Guide No. is approximately 190.3 ft./58m at ISO 100 and 200mm flash coverage. -When the extendable wide panel is pulled out, the flash coverage is 14mm. 																																																		
Maximum Energy	76Ws.																																																		
Flash Modes (Exposure Control Modes)	<table border="1"> <thead> <tr> <th rowspan="2">Flash Mode</th> <th rowspan="2">Flash Exposure Compensation</th> <th rowspan="2">FEB</th> <th rowspan="2">FE Lock</th> <th colspan="2">Wireless</th> </tr> <tr> <th>Radio Transmission</th> <th>Optical Transmission</th> </tr> </thead> <tbody> <tr> <td>E-TTL II/E-TTL autoflash*1</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Manual Flash</td> <td></td> <td></td> <td></td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Stroboscopic Flash</td> <td></td> <td></td> <td></td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Auto External Flash Metering</td> <td>Yes</td> <td>Yes</td> <td></td> <td>Yes*2</td> <td></td> </tr> <tr> <td>Manual External Flash Metering</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Continuous Shooting Priority Mode</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td></td> <td></td> </tr> <tr> <td>Group Firing*3</td> <td>Yes</td> <td>Yes</td> <td>Yes*4</td> <td>Yes</td> <td></td> </tr> </tbody> </table> <p>*1: Set automatically when the camera shooting mode is set to Basic Zone modes. *2: Only Group firing is available. *3: Can only be set when the Speedlite is used as a sender in radio transmission wireless operation. *4: Only groups set to E-TTL II / E-TTL autoflash.</p>	Flash Mode	Flash Exposure Compensation	FEB	FE Lock	Wireless		Radio Transmission	Optical Transmission	E-TTL II/E-TTL autoflash*1	Yes	Yes	Yes	Yes	Yes	Manual Flash				Yes	Yes	Stroboscopic Flash				Yes	Yes	Auto External Flash Metering	Yes	Yes		Yes*2		Manual External Flash Metering						Continuous Shooting Priority Mode	Yes	Yes	Yes			Group Firing*3	Yes	Yes	Yes*4	Yes	
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Flash Exposure Compensation	<p>±3 stops, in 1/3-stop or 1/2-stop*¹ increments.</p> <p>* The Speedlite's flash exposure compensation takes precedence if flash exposure compensation is performed by both the Speedlite and the camera. Users who prefer to enable flash exposure compensation by the camera should set flash exposure compensation by the Speedlite to 0.</p> <p>*1: Corresponds to exposure level increments on the camera.</p>																																									
FEB	<p>±3 stops, in 1/3-stop or 1/2-stop*¹ increments.</p> <p>* FEB is automatically deactivated after three shots.</p> <p>* Can be used with flash exposure compensation and FE lock.</p> <p>*1: Corresponds to exposure level increments on the camera.</p>																																									
FE Lock	Supported																																									
FE Memory	<p>Supported</p> <ul style="list-style-type: none"> Stores the flash output of E-TTL II / E-TTL autoflash and automatically sets the stored output level if users switch the flash mode to manual flash. <ul style="list-style-type: none"> Flash output may vary slightly between E-TTL autoflash and manual flash. Colors may vary between E-TTL autoflash and manual flash under the following conditions:\ <ul style="list-style-type: none"> When the color temperature of the Speedlite light differs greatly from that of ambient lighting and flash exposure compensation is set toward the negative end. When E-TTL balance is set to [Ambience priority]. Differences in colors between E-TTL autoflash and manual flash may be reduced by taking one of the follow steps: <ul style="list-style-type: none"> Using the provided color filter. Setting white balance to an option other than AWB. <p>Set in P.Fn-05</p> <table border="1" data-bbox="548 1024 1468 1150"> <tr> <td>0: Off</td> <td>Disabled</td> </tr> <tr> <td>1: On</td> <td>Enabled</td> </tr> <tr> <td>2: On / Mode E TTL - M</td> <td>Enabled/ One-touch switching between E-TTL autoflash and manual flash</td> </tr> </table>	0: Off	Disabled	1: On	Enabled	2: On / Mode E TTL - M	Enabled/ One-touch switching between E-TTL autoflash and manual flash																																			
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Number of Flashes	<p>Approx. 340–2,345 flashes.</p> <p>* With a fully charged Battery Pack LP-EL.</p> <p>* Based on Canon Testing Standards.</p>																																									
Recharge Time	<table border="1" data-bbox="548 1291 1419 1564"> <thead> <tr> <th rowspan="2">Power Supply</th> <th colspan="4">Recharge Time (approx.)</th> <th colspan="2">Flash count (approx.)</th> </tr> <tr> <th colspan="2">Normal Flash</th> <th colspan="2">Quick Flash</th> <th>Min.</th> <th>Max.</th> </tr> <tr> <th>Flash Power</th> <th>Min.</th> <th>Max.</th> <th>Min.</th> <th>Max.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>Speedlite EL-1</td> <td>0.1 sec.</td> <td>0.9 sec.</td> <td>01. sec.</td> <td>0.8 sec.</td> <td>340</td> <td>2345</td> </tr> <tr> <td>Speedlite EL-1 + CP-E4N (AA/LR6 Alkaline batteries)</td> <td>0.1 sec.</td> <td>0.6 sec.</td> <td>01. sec.</td> <td>0.5 sec.</td> <td>560</td> <td>3920</td> </tr> <tr> <td>Speedlite EL-1 + CP-E4N (AA/LR6 Ni-MH batteries)</td> <td>0.1 sec..</td> <td>0.4 sec.</td> <td>01. sec.</td> <td>0.35 sec.</td> <td>680</td> <td>4760</td> </tr> </tbody> </table> <p>* Based on Canon Testing Standards</p>	Power Supply	Recharge Time (approx.)				Flash count (approx.)		Normal Flash		Quick Flash		Min.	Max.	Flash Power	Min.	Max.	Min.	Max.	Min.	Max.	Speedlite EL-1	0.1 sec.	0.9 sec.	01. sec.	0.8 sec.	340	2345	Speedlite EL-1 + CP-E4N (AA/LR6 Alkaline batteries)	0.1 sec.	0.6 sec.	01. sec.	0.5 sec.	560	3920	Speedlite EL-1 + CP-E4N (AA/LR6 Ni-MH batteries)	0.1 sec..	0.4 sec.	01. sec.	0.35 sec.	680	4760
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Flash Range	<p>Effective flash range with EF 50mm f/1.4 lens at ISO 100 [Light distribution: Standard]</p> <ol style="list-style-type: none"> Normal Flash: Approx. 1.6–85.6 ft./0.5–26.1m Quick Flash (Flash-ready lamp: blinking): Approx. 1.6–52.5 ft./0.5–16.0m High-speed Sync (at 1/250 sec. shutter speed): Approx. 1.6–45.3 ft./0.5–13.8m 																																									

AF Assist Beam	System: Infrared AF-assist beam
	Compatible AF System:- TTL second image formation phase-difference AF Supporting 1–191 AF points (28mm or longer focal length) • Phase-difference AF during viewfinder shooting
	Effective Range (Approx.): At center: 2.0–32.8 ft./0.6–10.0m At periphery: 2.0–16.4 ft./0.6–5.0m

Modeling Lamp

Modeling Lamp	Supported The modeling lamp (LED turns on under the following conditions)													
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Wireless Functions for Radio Transmission

Wireless Settings	Sender	Supported *Secondary and additional units serve as sub-senders and display a "SUB SENDER" icon. * Sub-senders cannot be remotely controlled by a receiver unit
	Receiver	Supported

<p>Communication Functions</p>	<table border="1"> <tr> <td>Compliance standards</td> <td>IEEE 802.15.4, ARIB STD-T66</td> </tr> <tr> <td>Communication method</td> <td>Primary modulation: OQPAK 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 to 9999 Setting: Manual</td> </tr> <tr> <td>Transmission range^{*1*2}</td> <td>Approx. 98.4 ft. / 30 m</td> </tr> <tr> <td>Groups</td> <td>Up to 5 groups (A-E) * Sender units are set to Group A</td> </tr> <tr> <td>Number of possible units for communication</td> <td>Up to 16 units of senders and receivers in total</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> <p>*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.</p>	Compliance standards	IEEE 802.15.4, ARIB STD-T66	Communication method	Primary modulation: OQPAK Secondary modulation: DS-SS	Transmission frequency	2405-2475 MHz	Channel	Channel 1-15 Setting: Auto / Manual	Wireless radio ID	0000 to 9999 Setting: Manual	Transmission range^{*1*2}	Approx. 98.4 ft. / 30 m	Groups	Up to 5 groups (A-E) * Sender units are set to Group A	Number of possible units for communication	Up to 16 units of senders and receivers in total	Max. sender units	Up to 15 * Secondary and additional units serve as sub-senders	Max. receiver units	Up to 15												
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Group firing details	<p>Enables separate configuration of flash firing control conditions 1-3 below for each groups (A, B, C, D, E), to combine multiple methods of flash firing control.</p> <p>(1) E-TTL II / E-TTL autoflash (2) Manual flash (3) Auto external flash metering</p> <p>For all flash output set for groups A-E above, the same flash exposure compensation can be set.</p> <p>* Flash exposure compensation ± 3 stops</p>
Test flash	Available (Sender/Receiver)
Modeling flash	Available (Sender/Receiver)
Modeling lamp	Available (Sender only)
Remote control from a receiver	<p>Functions on sender units that can be controlled remotely from receiver units:</p> <ul style="list-style-type: none"> • Remote release • Test flash • Modeling flash <p>* Sub-senders cannot be controlled remotely</p>

Wireless functions for Optical Transmission

Communication functions	Compliance method	Optical pulses					
	Channel	Channel 1-4					
	Transmission range (approx.)	<p>From front of flash head</p> <ul style="list-style-type: none"> • Indoors: 2.3 - 49.2 ft. / 0.7 - 15 m. • Outdoors: 2.3 - 32.8 ft. / 0.7 - 10 m. 					
	Reception angle (approx.)	<ul style="list-style-type: none"> • Horizontally: 45° • Upward: 27°, Downward: 20° 					
	Groups	Up to 3 groups (A-C)					
	Max. sender units	Unlimited					
	Max. receiver units	Unlimited					
	Wireless settings	<table border="1"> <tr> <td>Sender</td> <td>Supported</td> </tr> <tr> <td>Receiver</td> <td>Supported</td> </tr> <tr> <td>Individual receiver</td> <td>Supported</td> </tr> </table>	Sender	Supported	Receiver	Supported	Individual receiver
Sender	Supported						
Receiver	Supported						
Individual receiver	Supported						
Wireless	Overview of optical wireless firing control						
	Sender flash firing	<p>On: Fires as Group A</p> <p>OFF: Does not fire. * Firing (optical transmission) to control receivers may be visible in shots.</p>					
	Flash mode	E-TTL II / E-TTL autoflash					
		<p>Manual flash</p> <p>Stroboscopic flash</p>					
E-TTL II / E-TTL autoflash details	ALL	<p>Flash metering control of all groups (A, B, C) as if they were a single flash unit.</p> <ul style="list-style-type: none"> • Flash exposure compensation: ± 3 stops 					
	A:B	<p>Flash metering control to obtain the flash ratio set for groups A and B.</p> <ul style="list-style-type: none"> • Flash ratio setting: 8:1 to 1:8 • Flash exposure compensation: ± 3 stops 					
	A:B+C	<p>(1) Flash metering control to obtain the flash ratio set for groups A and B</p> <ul style="list-style-type: none"> • Flash ratio setting: 8:1 to 1:8 <p>(2) Flash metering control of group C as if it were a single flash unit</p> <ul style="list-style-type: none"> • Flash exposure compensation: ± 3 stops <p>The same flash exposure compensation can be set for (1) and (2) above</p> <ul style="list-style-type: none"> • Flash exposure compensation: ± 3 stops 					

Manual Flash Details	ALL	Flash output setting: 1/128 to 1/1
	A+B	Flash output setting: 1/128 to 1/1
	A+B+C	Flash output setting: 1/128 to 1/1
Stroboscopic Flash Details	Number of Flashes	1-40
	Flash frequency	1-199 Hz
	ALL	Flash output setting: 1/128 to 1/4
	A+B	Flash output setting: 1/128 to 1/4
	A+B+C	Flash output setting: 1/128 to 1/4
Individual Receiver Details	Manual flash	Flash output setting: 1/8192 to 1/1
	Stroboscopic flash	<ul style="list-style-type: none"> • Flash output setting: 1/8192 to 1/4 • Flash count: 1-100 • Flash frequency: 1-199 Hz
* All settings are configured on the receiver.		
Test Flash	Available (Sender/Receiver)	
Modeling Flash	Available (Sender/Receiver)	
Modeling Lamp	Available (Sender only)	
Linked Shooting via Radio Transmission		
Linked Functions	<p>Supports linked shooting with automatic shutter release of up to 16 cameras (sender:1, receivers:15) linked to shutter release on the sender camera.</p> <p>*Shooting is not simultaneous, because receiver cameras shoot slightly after the sender camera shutter release timing.</p>	
Information Display		
Type	Reflective memory LCD (normally black)	
Size	Approx. 1.89(H) x 1.04(V) in.	
Display Format	Dot-matrix display	
Dot Count	Approx. 56,000 dots (320x176)	
General		
Power Source	Battery Pack LP-EL * AA/LR6 Alkaline Batteries and Ni-MH batteries cannot be used.	
Battery Charger	Battery Charger LC-E6 /LC-E6E Car Battery Charger CBC-E6	
External Power Source	Supported * Optional - Supports CP-E4N Battery Pack	
PC Terminal	Supported	
Modeling Lamp Illumination Time	Approx. 3 hr 20 min. Continuously * With P.Fn-09 set to [2], and using a fully charged Battery Pack LP-EL	
Dust-and-Water Resistance	Supported * Water-resistant performance to EOS-1D series	
Dimensions (W x H x D)	Approx. 3.32" x 5.87" x 5.37"	
Weight (Approx.)	19.97oz (Body Only) 2 24.23 oz (Body and Battery)	

Functions

Light Distribution

Set in C.Fn-21

0: Standard	A light distribution setting that balances light distribution and the guide number.
1: Guide number priority	Prioritizes illumination at the center of the screen, the periphery may be dark.
2: Light distribution priority	Light distribution that reduces peripheral darkness.

Custom Functions

14 Functions

Function	Number	Setting
C.Fn-00: Distance indicator display	0	m (display in meters)
	1	ft. (display in feet)
C.Fn-01: Auto power off	0	ON (90 sec.)
	1	OFF
C.Fn-02: Modeling flash	0	Depth-of-field preview button
	1	Test flash button
	2	DOF/Test flash button
	3	OFF
C.Fn-03: FEB auto cancel	0	ON
	1	OFF
C.Fn-04: FEB sequence	0	0 -> - -> +
	1	_ ->0-> +
C.Fn-08: AF-assist beam firing	0	ON
	1	OFF
C.Fn-10: Receiver auto power off timer	0	60 min.
	1	10 min.
C.Fn-11: Receiver auto power off timer	0	Within 8 hours
	1	Within 1 hour
C.Fn-12: Flash recycle with external power	0	External and internal pwer
	1	External power only
C.Fn-13: Flash exposure compensation setting	0	Button and dial
	1	Direct setting with the dial
C.Fn-18: Modeling lamp lit	0	with lamp button
	1	Press the shutter button halfway twice *Lamp button can also be used
C.Fn-21: Light distribution	0	Standerd
	1	Guide number priority
	2	Even coverage
C.Fn-22: LCD panel illumination	0	Stay on for 12 sec. after operation
	1	Disable panel illumination
	2	Illumination always on
C.Fn-23: Receiver charge confirmation	0	AF-assist beam blinking and flash-ready lamp
	1	Flash-ready lamp

Personal Functions

9 Functions

Function	Number	Setting
P.Fn-01: AF-assist beam emission method	0	Infrared
	1	Emmitting small series of flashes
P.Fn-02: Quick flash	0	ON
	1	OFF
P.Fn-03: Flash firing during linked shooting	0	OFF
	1	ON
P.Fn-04: Change settings with the direct dial operation	0	OFF
	1	ON
P.Fn-05: FE memory	0	OFF
	1	ON
	2	ON / MODE: E TTL<-> M
P.Fn-06: Beep	0	ON
	1	OFF
P.Fn-07: Fan	0	ON
	1	OFF
P.Fn-08: Modeling lamp (brightness, color)		Brightness: 5 levels
		Color: 5 levels
P.Fn-09: Modeling lamp (lit time)	0	5 min.
	1	30 min.
	2	Unlimited