

# SPEEDLITE EL-1

## **Specifications**

Flash							
Compatible Cameras	Type-A EOS cameras (E-	TTL II/E-TTL auto	flash)				
	14mm * Not compatil	ing angles of view					
Flash Coverage (Focal length; for 35mm full-frame)	24mm 28mm 35mm - A: Auto Flash coverage is set automatically, accounting for [Auto zoom for sensor size] and [Light distribution] settings at the lens focal length.  80mm - M: Manual Flash coverage is set manually [Auto zoom for sensor size] and [Light distribution] settings are not taken into account.						
Guide Number	The Guide No. is approx -When the extendable  The maximum Guide No coverageWhen the extendable	wide panel is pulle . is approximately	ed out, t v 196.9 f	he flash co t./60m at	ISO 100 and 20	00mm flash	
Maximum Energy	76 Ws.						
		Flash			Wire	ireless	
	Flash Mode	Exposure Compensation	FEB	FE Lock	Radio Transmission	Optical Transmission	
	E-TTL II/E-TTL autoflash*1	Yes	Yes	Yes	Yes	Yes	
	Manual Flash				Yes	Yes	
	Stroboscopic Flash				Yes	Yes	
Flash Modes	Auto External Flash Metering	Yes	Yes		Yes*2		
(Exposure Control Modes)	Manual External Flash Metering						
	Continuous Shooting Priority Mode	Yes	Yes	Yes			
	Group Firing*3	Yes	Yes	Yes*4	Yes		
	*1: Set automatically when the *2: Only Group firing is availab	•	de is set t	o Basic Zon	e modes.		

Flash Exposure Compensation	±3 stops, in 1/3-stop or 1/2-stop*¹ increments.  * 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.  *1: Corresponds to exposure level increments on the camera.							
FEB	±3 stops, in 1/3-stop or 1/2-stop*1 increments.  * FEB is automatically deactivated after three shots.  * Can be used with flash exposure compensation and FE lock.  *1: Corresponds to exposure level increments on the camera.							
FE Lock	Supported							
FE Memory	Supported  • Stores the flash output of E-TTL II output level if users switch the flase * Flash output may vary slightly be  • Colors may vary between E-TTL a * When the color temperature of the lighting and flash exposure come * When E-TTL balance is set to [A * One of the follow steps:  * Using the provided color filter.  * Setting white balance to an option of the follow steps:  * Using the provided color filter.  * Setting white balance to an option of the follow steps:  O: Off  1: On  2: On / Mode ETTL - M	sh mode to between E- utoflash an he Speedli apensation Ambience p TL autoflas	manua TTL aut  and manu ite light is set to priority].  sh and r  an AWB	I flash. toflash ai ual flash i differs gr bward the manual fla . Dis En:	nd manual under the reatly from e negative	I flash. followir that of end.	ng condition ambient	
	Approx. 335–2,345 flashes.							
Number of Flashes	* With a fully charged Battery Pack * Based on Canon Testing Standard							
Number of Flashes		S.		ime (appro		1	count	
Number of Flashes	* Based on Canon Testing Standard  Power Supply	Rec	Flash	Quick	k Flash	(арр	rox.)	
Number of Flashes	* Based on Canon Testing Standard  Power Supply  Flash Power	Rec Normal F	Flash Max.	Quick Min.	K Flash Max.	(app Min.	max.	
Number of Flashes  Recharge Time	* Based on Canon Testing Standard  Power Supply	Rec Normal F Min. 0.1 sec. (	Flash	Quick	k Flash	(арр	rox.)	
	* Based on Canon Testing Standard  Power Supply  Flash Power  Speedlite EL-1  Speedlite EL-1	Rec Normal F Min. 0.1 sec. (0.1 sec.	Flash Max. 0.9 sec.	Quick Min. 01. sec.	Max. 0.8 sec.	(app Min. 335	Max. 2345	

	System: Infrared AF-assist beam
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

\*1: set in P.Fn-08

The modeling lamp (LED turns on under the following conditions

	· ·
Brightness*1	Manual setting: 1 (Low) to 5 (High) *Default setting: 5 (High)
Color temperatue*1	Manual setting: 1 (Orange) to 5 (White) *Default setting: 1 (Orange)
On	Illuminated in response to the following operations  • Pressing the <lamp> button  • Pressing the shutter button halfway twice (with C.Fn-18 set to 1).</lamp>
Off	Off under the following conditions  Releasing the shutter button  Pressing the <lamp> button  Pressing the shutter button halfway twice (with C.Fn-18 set to 1)  Timer: 5 min. / 30 min. / Unlimited (can be changed in P.Fn-09)</lamp>

### **Modeling Lamp**

Higher LED temperatue from prolonged illumination triggers the following safety functions

Temperature in-	LCD	Panel	Modeling Lamp Operation		
crease	Icon display	Illumination	Widdening Lamp Operation		
Level 1	; ; ;	On	Modeling lamp brightness is lowered one level, if at the maximum level		
Level 2	● MODELING LAMP	Blinking (2 Hz)	Modeling lamp is turned off		

#### 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

			I			
	Compliance stand	dards	_	4, ARIB STD		
	Communication r	method	Secondary n			
	Transmission fre	Transmission frequency		lHz		
	Channel		Channel 1-15 Setting: Auto	/ Manual		
	Wireless radio ID	Wireless radio ID		ual		
Communication Functions	Transmission ran	ıge* <sup>1*2</sup>	Approx. 98.4			
Communication i directions	Groups		Up to 5 grou * Sender u	ps (A-E) nits are set to	Group A	
	Number of possil for communication		Up to 16 unit	s of senders a	and receivers in tota	ı
	Max. sender units	S	Up to 15  * Secondar	y and addition	nal units serve as su	b-senders
	Max. receiver uni		Up to 15			
	•	tructions between send				
		nge may be shorter dep d weather conditions.	pending on fact	ors such as h	ow units are arrang	ed, the surrounding
			Dis	olay		
	Transmis	ssion status	Sender	Receiver	<link/> lamp	LCD Panel
	Con	Connected		Yes	On (in green)	Sender, Receiver
Transmission Status Display	Not Connected		0.1 sec.	0.9 sec.	Off	Sender, Receiver
	Too many	Too many units/Error			Blinking at 2 Hz (green)	Sender, Receiver
	Sub-sender		0.1-0.4 sec.		On (in green)	Sub Sender
	Confirmation	Confirmation of linked shooting			On (in green)	RELEASE
	Wireless firing co	ontrol via radio tran	smission			
			E-TTL II / E-TTL autoflash			
			Manual flash			
Wireless Firing Control	Flash Mode		Stroboscopic flash			
				E-TTL II / E-TTL autoflash		
			Group firing	Manual flash		
				Auto external flash metering		
E-TTL II / ETTL autoflash details	ALL A:B					
	A.DTO					
	ALL Flash ra	tio seting: 1/8192*1*2 to	1/1			
	A+B Flash ou	utput seting: 1/8192*1*2	g: 1/8192*1*2 to 1/1			
Manual flash details	A+B+C Flash ou	utput seting: 1/8192*1*2	to 1/1			
		8 for high-speed sync. Io not support a minim		of 1/8192 use	e their minimum flas	h output instead.
	Flash count	1-100				
	Flash frequency	1-500 Hz				
Stroboscopic flash details	ALL	Flash ratio seting: 1/8	8192 to 1/4			
ottoboscopic masii uetans	A+B	Flash output seting:				
	A+B+C	Flash output setting:				
	7.510		1,0102 10 1/4			

Group firing details	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.  (1) E-TTL II / E-TTL autoflash  (2) Manual flash  (3) Auto external flash metering  For all flash output set for groups A-E above, the same flash exposure compensation can be set.  * Flash exposure compensation ±3 stops
Test flash	Available (Sender/Receiver)
Modeling flash	Available (Sender/Receiver)
Modeling lamp	Available (Sender only)
Remote control from a receiver	Functions on sender units that can be controlled remotely from receiver units:  •Remote release  • Test flash  • Modeling flash  * Sub-senders cannot be controlled remotely

Wireless functions for Op	tical Transmissi	ion				
	Compliance metho	d	Optical pulses			
	Channel		Channel 1-4			
			From front of flash head			
	Transmission rang	e (approx.)	• Indoors: 2.3 - 49.2 ft. / 0.7 - 15 m.			
			• Outdoors: 2.3 - 32.8 ft. / 0.7 - 10 m.			
Communication functions	Decemble a complete		Horizontally: 45°			
	Reception angle (a	pprox.)	• Upward: 27°, Downward: 20°			
	Groups		Up to 3 groups (A-C)			
	Max. sender units		Unlimited			
	Max. receiver units	•	Unlimited			
	Sender	Supported				
Wireless settings	Receiver	Supported				
	Individual receiver	Supported				
	O					
	Overview of optica					
	Sender flash firing	On: Fires as Gro	'			
NAC and a second	Sender nasn ming	OFF: Does not fire.  * Firing (optical transmission) to control receivers may be visible in shots.				
Wireless	E-TTL II / E-					
	Flash mode	Manual flash				
	T Idon mode	Stroboscopic fla	sh			
		- Chrobotoopie na				
		Flash metering conf	trol of all groups (A, B, C) as if they were a single flash unit.			
	ALL	• Flash exposure compensation: ±3 stops				
		Flash metering control to obtain the flash ratio set for groups A and B.				
	A:B	Flash ratio setting: 8:1 to 1:8				
E-TTL II / E-TTL autoflash		Flash exposure co	empensation: ±3 stops			
details		(1) Flash metering o	control to obtainv the flash ratio set for groups A and B			
		<ul> <li>Flash ratio setting</li> </ul>	: 8:1 to 1:8 control of group C as if it were a single flash unit			
	A-B+C	. ,	empensation: ±3 stops			
			osure compensation can be set for (1) and (2) above			
		•	empensation: ±3 stops			

	ALL	El 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Manual Flash Details	ALL	Flash output setting: 1/128 to 1/1			
Manual Flash Details	A+B A+B+C	Flash output setting: 1/128 to 1/1			
	АТВТС	Flash output setting: 1/128 to 1/1			
	Number of Flashe	s 1-40			
	Flash frequency	1-199 Hz			
Stroboscopic Flash Details	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			
	Manual flash	Flash output setting: 1/8192 to 1/1			
Individual Receiver Details	Stroboscopic	• Flash output setting: 1/8192 to 1/4			
a.maaa kasana Zatana	flash	Flash count: 1-100     Flash frequency: 1-199 Hz			
	* All settings are	configured on the receiver.			
Test Flash	Available (Sende				
	·	<u> </u>			
Modeling Flash	Available (Sende	r/Receiver)			
Modeling Lamp	Available (Sende	r only)			
Linked Shooting via Radio	o Transmission				
Linked Functions	receivers:15) link	shooting with automatic shutter release of up to 16 cameras (sender:1, ed to shutter release on the sender camera.  nultaneous, because receiver cameras shoot slightly after the sender camera shutter			
Information Display					
Туре	Reflective memo	ry 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- * AA/LR6 Alkalin	EL e Batteries and Ni-MH batteries cannot be used.			
Battery Charger	Battery Charger Car Battery Char				
External Power Source	Supported * Optional - Supp	oorts CP-E4N Battery Pack			
PC Terminal	Supported				
Modeling Lamp Illumination Time	Approx. 3 hr 20 r * With P.Fn-09 se	nin. Continously et to [2], and using a fully charged Battery Pack LP-EL			
Dust-and-Water Resistance	Supported * Water-resistar	nt performance to EOS-1D series			
Dimensions (W x H x D)	Approx. 3.32" x 5	5.87" x 5.37"			
Weight (Approx.)	20.18 oz (Body C 24.23 oz (Body a	- · ·			

Functions					
1 dilotions	Set in C.Fn-21				
	0: Standard	A light distribution se	etting that balances light distribution and the guide		
Light Distribution	1: Guide number priority		n at the cen	ter of the screen, the periphery may be	
	2: Light distribution priority	Light distribution that	reduces pe	ripheral darkness.	
	14 Functions				
	Function	1	Number	Setting	
			0	m (display in meters)	
	C.Fn-00: Distance indicator of	display	1	ft. (display in feet)	
			0	ON (90 sec.)	
	C.Fn-01: Auto power off	C.Fn-01: Auto power off		OFF	
		C.Fn-02: Modeling flash		Depth-of-field preview button	
				Test flash button	
	C.Fn-02: Modeling flash			DOF/Test flash button	
				OFF	
		C.Fn-03: FEB auto cancel		ON	
	C.Fn-03: FEB auto cancel			OFF	
			0	0 ->> +	
	C.Fn-04: FEB sequence	C.Fn-04: FEB sequence		>0-> +	
			0	ON	
	C.Fn-08: AF-assist beam firin	C.Fn-08: AF-assist beam firing		OFF	
			0	60 min.	
	C.Fn-10: Receiver auto powe	C.Fn-10: Receiver auto power off timer		10 min.	
Custom Functions			0	Within 8 hours	
	C.Fn-11: Receiver auto power	r off timer	1	Within 1 hour	
			0	External and internal pwer	
	C.Fn-12: Flash recycle with e	xternal power	1	External power only	
			0	Button and dial	
	C.Fn-13: Flash exposure com	pensation setting	1	Direct setting with the dial	
			0	with lamp button	
	C.Fn-18: Modeling lamp lit	C.Fn-18: Modeling lamp lit		Press the shutter button halfway twice *Lamp button can also be used	

C.Fn-21: Light distribution

C.Fn-22: LCD panel illumination

C.Fn-23: Receiver charge confirmation

0

1

2

1

2

0

1

Standerd

Guide number priority

Disable panel illumination

Illumination always on

Stay on for 12 sec. after operation

AF-assist beam blinking and flash-

Even coverage

ready lamp

Flash-ready lamp

	9 Functions		
	Function	Number	Setting
	P.Fn-01: AF-assist beam emission method	0	Infrared
	P.FII-01: AF-assist beam emission method	1	Emmitting small series of flashes
	P.Fn-02: Quick flash	0	ON
	F.FII-02. Quick liasii	1	OFF
	P.Fn-03: Flash firing during linked shooting	0	OFF
	r.rii-03. riasii iiriiig duriiig iiiiked siiootiiig	1	ON
	P.Fn-04: Change settings with the direct dial	0	OFF
	operation	1	ON
Personal Functions		0	OFF
Personal Functions	P.Fn-05: FE memory	1	ON
		2	ON / MODE: ETTL<-> M
	P.Fn-06: Beep	0	ON
	1.1 11-00. Δεερ	1	OFF
	P.Fn-07: Fan	0	ON
	1.11-07.1 dil	1	OFF
	P.Fn-08: Modeling lamp (brightness, color)		Brightness: 5 levels
	1.1.11-vo. modeling famp (brightness, color)		Color: 5 levels
		0	5 min.
	P.Fn-09: Modeling lamp (lit time)	1	30 min.
		2	Unlimited