

Appendix C: Features Table

	Medium*	Year introduced	Month	Maximum X-sync	TTL metering	TTL zones	A-TTL metering	E-TTL metering	E-TTL II metering	Evaluative zones	Red AF assist	White AF assist	Pulse AF assist
EOS 650	35mm	1987	March	1/125	●	1	●			6			
EOS 620	35mm	1987	May	1/250	●	1	●			6			
EOS 750/750QD	35mm	1988	October	1/125	●	1	●			6	●		
EOS 850	35mm	1988	October	1/125	●	1	●			6			
EOS 600/630	35mm	1989	April	1/125	●	1	●			6			
EOS 1	35mm	1989	September	1/250	●	1	●			6			
EOS RT	35mm	1989	October	1/125	●	1	●			6			
EOS 10/105/10QD	35mm	1990	March	1/125	●	3	●			8	●		
EOS 700	35mm	1990	March	1/125	●	1	●			6	●		
EOS 1000/Rebel	35mm	1990	October	1/90	●	1	●			3			
EOS 1000F/Rebel S	35mm	1990	October	1/90	●	1	●			3	●		
EOS 100/Elan/100QD	35mm	1991	August	1/125	●	1	●			6	●		
EF-M	35mm	1991	September	1/90						3			
EOS 1000N/Rebel II	35mm	1992	March	1/90	●	1	●			3			
EOS 1000FN/Rebel S II/1000S QD	35mm	1992	March	1/90	●	1	●			3	●		
EOS 5/A2/A2E/5QD	35mm	1992	November	1/60–1/200	●	3	●			16	●		
EOS 500/Rebel X/Rebel XS/Kiss	35mm	1993	September	1/90	●	3	●			6		●	
EOS 1N/1N HS/1N RS/1N DP	35mm	1994	November	1/250	●	3	●			16			
EOS 5000/888	35mm	1995	January	1/90	●	3	●			6		●	
EOS 50/Elan II/50E/Elan IIE/55	35mm	1995	September	1/125	●	3	●	●		6	●		
EOS 500N/Rebel G/New Kiss	35mm	1996	September	1/90	●	3	●	●		6		●	
EOS IX/IX E	APS	1996	October	1/200	●	3	●	●		6		●	
EOS IX 7/IX Lite/IX 50	APS	1998	March	1/125	●	3	●	●		6		●	
EOS 3	35mm	1998	November	1/200	●	3	●	●		21			
EOS 3000/88	35mm	1999	March	1/90	●	3	●			6		●	
EOS 300/Rebel 2000/Kiss III	35mm	1999	April	1/90	●	3	●	●		35			●
EOS 1V	35mm	2000	March	1/250	●	3	●	●		21			●
EOS 30/Elan 7E/33/Elan 7	35mm	2000	October	1/125	●	3	●	●		35			●
EOS 3000N/Rebel XS N/66	35mm	2002	February	1/90	●	3	●	●		6		●	
EOS 300V/Rebel Ti/Kiss 5	35mm	2002	September	1/90	●	3	●	●		35			●
EOS 3000V/Rebel K2/Kiss Lite	35mm	2003	September	1/90	●	3	●	●		35			●
EOS 30V/Elan 7NE/33V/Elan 7N/75	35mm	2004	April	1/125	●	3	●	●		35			●
EOS 300X/Rebel T2/Kiss 7	35mm	2004	September	1/125				●		35			●
EOS DCS 1	digital	1995	December	1/250	●	3	●			16			
EOS DCS 3	digital	1995	May	1/250	●	3	●			16			
EOS D2000/Kodak DCS520	digital	1998	March	1/250				●		12			
EOS D6000/Kodak DCS560	digital	1998	December	1/250				●		12			
EOS D30	digital	2000	October	1/200	Doesn't fire			●		35		●	
EOS 1D	digital	2001	December	1/500	Full power			●		21			
EOS D60	digital	2002	March	1/200	Doesn't fire			●		35		●	
EOS 1Ds	digital	2002	November	1/250	Full power			●		21			
EOS 10D	digital	2003	March	1/200	Doesn't fire			●		35			●
EOS 300D/Digital Rebel/Kiss Digital	digital	2003	September	1/200	Doesn't fire			●		35			●
Kodak DCS Pro SLR/c	digital	2004	March	1/180				●		8			
EOS 1D Mark II	digital	2004	April	1/250	Full power			●		21			
EOS 20D/20Da	digital	2004	September	1/250	Doesn't fire			●		35			●
EOS 1Ds Mark II	digital	2004	November	1/250	Full power			●		21			
EOS 350D/Digital Rebel XT/Kiss Digital N	digital	2005	March	1/200	Doesn't fire			●		35			●
EOS 1D Mark II N	digital	2005	October	1/250	Full power			●		21			
EOS 5D	digital	2005	October	1/200	Full power			●		35			
EOS 30D	digital	2006	March	1/250	Doesn't fire			●		35			●
EOS 400D/Digital Rebel XTi/Kiss Digital X	digital	2006	September	1/200	Doesn't fire			●		35			●
EOS 1D Mark III	digital	2007	March	1/300	Full power			●		63			
EOS 40D	digital	2007	September	1/250	Full power			●		35			●
EOS 1Ds Mark III	digital	2007	November	1/250	Full power			●		63			
EOS 450D/Digital Rebel XSi/Kiss X2	digital	2008	March	1/200	Full power			●		35			●
EOS 1000D/Digital Rebel XS/Kiss F	digital	2008	June	1/200	Full power			●		35			●
EOS 50D	digital	2008	September	1/250	Full power			●		35			●
EOS 5D Mark II	digital	2008	November	1/200	Full power			●		35			
EOS 500D/Digital Rebel T1i/Kiss X3	digital	2009	March	1/200	Full power			●		35			●
EOS 7D	digital	2009	August	1/250	Full power			●		63			●
EOS 1D Mark IV	digital	2009	October	1/300	Full power			●		63			

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Speedlite AF assist	Disable Internal	Disable Speedlite	Disable assist	Speedlite red/pulse	Built-in flash	Built-in flash GN	Flash coverage	Flash zooms	Flash auto raises	Flash auto lowers	Tall flash	Popup flash manual	Popup flash stroboscopic	Redeye reduction
•					•	12	35mm		•	•				
•														
•														
•														
•	•				•	12	28mm		•	•				
•					•	12	35mm		•	•				
•					•	12	28mm							•
•	•	•			•	12-17	28, 50, 80mm	•	•					•
•	•													
•					•	12	28mm							•
•			•		•	13-17	28, 50, 80mm	•	•					•
•					•	12			•					•
•					•	12								•
•	•	•			•	13	28mm		•					•
•					•	12			•					•
•					•	11	22mm		•					•
•					•	10	22mm		•					•
•		•	•											
•					•	12								•
•			•		•	12	28mm		•					•
•	•	•	•		•	13	28mm		•					•
•					•	12	28mm							•
•					•	12	28mm		•		•			•
•	•	•	•		•	12	28mm		•		•			•
•	•	•	•		•	13	28mm		•					•
•	•	•	•		•	13	28mm		•		•			•
•														
•														
•	•	•			•	12			•					•
•	•	•			•	12			•					•
•	•	•	•		•	13	18mm		•					•
•	•	•	•		•	13	18mm		•		•			•
•		•												
•	•	•			•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•		•												
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•		•	13	17mm		•		•			•
•	•	•	•	•	•	12	15mm		•		•	•	•	•

	Wireless E-TTL	Wireless ratios	Popup flash master	Internal FEC	External FEC	FEC in viewfinder	Flash micro adjustment	FEL controls	FEL in viewfinder	Modeling flash	FEB	Subframe adjust.	Flash cust. function	Auto fill red.
EOS 650														
EOS 620														
EOS 750/750QD														
EOS 850														
EOS 600/630					•									
EOS 1					•									
EOS RT					•									
EOS 10/10S/10QD					•									
EOS 700					•									
EOS 1000/Rebel					•									
EOS 1000F/Rebel S					•									
EOS 100/Elan/100QD				Internal only	•								•	
EF-M														
EOS 1000N/Rebel II					•									
EOS 1000FN/Rebel S II/1000S QD					•									
EOS 5/A2/A2E/SQD				•	•								•	•
EOS 500/Rebel X/Rebel XS/Kiss					•									
EOS 1N/1N HS/1N RS/1N DP				•	•	•			•					•
EOS 5000/888					•									
EOS 50/Elan II/50E/Elan IIE/55	•			•	•									
EOS 500N/Rebel G/New Kiss					•									
EOS IX/IX E	•				•	•								
EOS IX 7/IX Lite/IX 50	•				•									
EOS 3	•	•		•	•			Dedicated	•	•			•	•
EOS 3000/88					•									
EOS 300/Rebel 2000/Kiss III	•				•						•			
EOS 1V	•	•		•	•			Dedicated	•	•			•	•
EOS 30/Elan 7E/33/Elan 7	•	•		•	•				•	•			•	
EOS 3000N/Rebel XS N/66	•				•	•								
EOS 300V/Rebel Ti/Kiss 5	•				•					•				
EOS 3000V/Rebel K2/Kiss Lite	•				•					•				
EOS 30V/Elan 7NE/33V/Elan 7N/75	•	•		•	•			•	•	•			•	
EOS 300X/Rebel T2/Kiss 7	•				•					•				
EOS DCS 1				•	•									
EOS DCS 3				•	•									
EOS D2000/Kodak DCS520	•	•		•	•					•			•	
EOS D6000/Kodak DCS560	•	•		•	•									
EOS D30	•	•		•	•			AE lock		•			•	
EOS 1D	•	•		•	•	•		Dedicated	•	•	•		•	•
EOS D60	•	•		•	•			AE lock		•			•	
EOS 1Ds	•	•		•	•	•		Dedicated	•	•	•		•	•
EOS 10D	•	•		•	•			Assist button		•	•		•	•
EOS 300D/Digital Rebel/Kiss Digital	•	•			•								•	
Kodak DCS Pro SLR/c	•	•		•										
EOS 1D Mark II	•	•		•	•	•		Dedicated	•	•	•		•	•
EOS 20D/20Da	•	•		•	•			AE lock	•	•	•	•	•	•
EOS 1Ds Mark II	•	•		•	•	•		Dedicated	•	•	•		•	•
EOS 350D/Digital Rebel XT/Kiss Digital N	•	•		•	•			AE lock	•	•	•	•	•	
EOS 1D Mark II N	•	•		•	•	•		Dedicated	•	•	•	•	•	•
EOS 5D	•	•		•	•			AE lock	•	•	•		•	•
EOS 30D	•	•		•	•			AE lock	•	•	•	•	•	•
EOS 400D/Digital Rebel XTi/Kiss Digital X	•	•		•	•			AE lock	•	•	•		•	
EOS 1D Mark III	•	•		•	•	•		Dedicated	•	•	•	•	•	•
EOS 40D	•	•		•	•			AE lock	•	•	•	•	•	•
EOS 1Ds Mark III	•	•		•	•	•		Dedicated	•	•	•		•	•
EOS 450D/Digital Rebel XSi/Kiss X2	•	•		•	•			AE lock	•	•	•	•	•	
EOS 1000D/Digital Rebel XS/Kiss F	•	•		•	•			AE lock	•	•	•	•	•	
EOS 50D	•	•		•	•			AE lock	•	•	•	•	•	
EOS 5D Mark II	•	•		•	•			AE lock	•	•	•		•	•
EOS 500D/Digital Rebel T1i/Kiss X3	•	•		•	•			AE lock	•	•	•	•	•	
EOS 7D	•	•	•	•	•			M-Fn button	•	•	•	•	•	•
EOS 1D Mark IV	•	•		•	•	•	•	Dedicated	•	•	•	•	•	•

	160E	200E	200M	300TL	300EZ	420EZ	430EZ	480EG	540EZ	ML-3
Max guide number, meters	16	20	20	30	30	42	43	48	54	11
Max guide number, feet	52	65	65	98	98	137	140	156	176	36
GN at 14mm										
GN at 17mm or 18mm									16	
GN at 24mm				25		25	25		28	
GN at 28mm					22	27	27		30	
GN at 35mm	16	20	20	30	25	30	30	48	36	
GN at 50mm				35	28	35	35		42	
GN at 70mm					30	40	40		46	
GN at 80mm				40		42	43		50	
GN at 105mm									54	
Year introduced	1988	1990	1991	1986	1987	1987	1989	1993	1994	1989
Year discontinued	1990	1996	?	?	1995	1989	1994	?	1998	2001
Physical										
Width/height/depth in mm	59x83x52	64x104x41	64x104x41	81x119x94	66x89x100	75x122x106	75x122x106	98x257x114	80x138x112	74x61x107
Ring/heads width/height/depth										106x123x25
Weight without batteries	85g	130g	130g	395g	215g	365g	365g	715g	415g	365g
Foot material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Foot lock type	No lock	Slide lock	Slide lock	Wheel	Wheel	Wheel	Wheel, pin	None	Wheel, pin	
Weatherproofing										
Socket for SB-E bracket										
Controls										
Back panel LCD, illuminated						•	•		•	
Coupling distance scale on LCD									•	
Custom functions and settings										
Control dial										
Power										
Battery type	2CR5 lithium	4xAA	4xAA	4xAA	4xAA	4xAA	4xAA	External pack	4xAA	4xAA
Lithium AA supported	n/a							n/a	•	
High voltage port							•		•	
Auto Power Off/Save Energy (SE) mode	15 sec	None	None	5 min	5 min	5 min	90 sec	None	90 sec	5 min
Power switch SE override				•					•	
Custom function SE override										
Automatic metering										
TTL (film only)	•	•		•	•	•	•	•	•	•
A-TTL (film only)				with T90 only	•	•	•		•	
E-TTL and E-TTL II										
Autoflash			•					•		
Manual flash output control										
Manual output controls on unit				•		•	•	•	•	
Output controls on compatible camera										
Illuminated test button ("pilot")				•	•	•	•	•	•	•
Number of output levels				2		6	6	3	8	
Lowest output level				1/16		1/32	1/32	1/16	1/128	
Increments										
Feet/meters user-configurable							No		Switch	
Optical slave capabilities								Optional		
PC socket								•		
Tilt and swivel										
Tilt, up/down	Fixed head	Fixed head	Fixed head	90°U	Fixed head	90°U	90°U	90°U	90°U, 7°D	
Swivel, left/right				180°L, 90°R		180°L, 90°R	180°L, 90°R	180°L, 105°R	180°L, 90°R	
Single-button tilt/swivel release										
Pull-out catchlight card										
Flash head coverage (for 35mm frame)										
Fixed flash head coverage	35mm	35mm	35mm					35mm		
Optional clip-on panels		28mm	28mm					20, 135mm		
Hand-operated zoom head positions				4						
Motorized zoom head positions					4	6	6		7	
Zoom head focal range				24–85mm	28–70mm	24–80mm	24–80mm		24–105mm	
Zoom setting LEDs				•	•					
Zoom setting on LCD						•	•		•	
Manual control of motorized zoom						•	•		•	
Sensor size compensation										
Pull-out diffuser panel; coverage									18mm	
	160E	200E	200M	300TL	300EZ	420EZ	430EZ	480EG	540EZ	ML-3



220EX	270EX	380EX	420EX	430EX	430EX II	550EX	580EX	580EX II	MR-14EX	MT-24EX	ST-E2
22	27	38	42	43	43	55	58	58	14	24	
72	88	124	137	140	140	179	189	189	46	78	
				11	11		15	15			
						15					
		21	23	25	25	28	28	28			
22	22	23	25	27	27	30	30	30			
		28	31	31	31	36	36	36			
	27	31	34	34	34	42	42	42			
		33	37	37	37	46	50	50			
			40	40	40	50	53	53			
		38	42	43	43	55	58	58			
1996	2009	1995	2000	2005	2008	1998	2004	2007	2000	2001	1998
2009	Current	2001	2005	2008	Current	2004	2007	Current	Current	Current	Current
65x92x61	64x65x73	75x114x104	72x123x99	72x122x101	72x122x101	80x138x112	76x134x114	76x137x117	74x126x97	74x126x97	62x51x80
									113x126x26	235x90x49	
160g	145g	270g	300g	320g	320g	405g	375g	405g	430g	585g	100g
Plastic	Metal	Plastic	Plastic	Plastic	Metal	Plastic	Plastic	Metal	Plastic	Plastic	Plastic
Slide lock, pin	Slide lock, pin	Wheel, pin	Wheel, pin	Wheel, pin	Quick release	Wheel, pin	Wheel, pin	Quick release	Wheel, pin	Wheel, pin	Slide lock, pin
				•	•		•	•			
				•	•	•	•	•	•	•	
						•	•	•			
				6, 12	9, 20		14, 28	14, 32	7, 14	9, 18	
							•	•			
4xAA	2xAA	4xAA	4xAA	4xAA	4xAA	4xAA	4xAA	4xAA	4xAA	4xAA	2CR5 lithium
•	•	•	•	•	•	•	•	•	•	•	n/a
90 sec	90 sec	90 sec	90 sec	90 sec	90 sec	90 sec	90 sec	90 sec	90 sec	90 sec	
						•		•	•	•	
		•					•	•			
•		•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	•	•	•	•	•
				•	•	•	•	•	•	•	
	•								•	•	
•		•	•	•	•	•	•	•	•	•	
	7			7	7	8	8	8	7	7	
	1/64			1/64	1/64	1/128	1/128	1/128	1/64	1/64	
				1 stop	1/3 stop						
						Switch	Button	C.Fn			
								•			
Fixed head	90°U No swivel	90°U No swivel	90°U 180°L, 90°R	90°U 180°L, 90°R	90°U 180°L, 90°R	90°U, 7°D 180°L, 90°R	90°U, 7°D 180°L, 180°R	90°U, 7°D 180°L, 180°R			
				•	•		•	•			
							•	•			
28mm	28mm, 50mm										
	2										
		6	6	7	7	7	7	7			
		24-105mm	24-105mm	24-105mm	24-105mm	24-105mm	24-105mm	24-105mm			
		•	•								
				•	•	•	•	•			
				•	•	•	•	•			
				•	•	•	•	•			
				14mm	14mm	17mm	14mm	14mm			
220EX	270EX	380EX	420EX	430EX	430EX II	550EX	580EX	580EX II	MR-14EX	MT-24EX	ST-E2



	160E	200E	200M	300TL	300EZ	420EZ	430EZ	480EG	540EZ	ML-3
Autofocus assist										
Red LED; points covered	1	1			1	1	1		5	
Red LED range, center	1–5m	1–5m			0.9–6m	0.9–8m	0.9–10m		0.5–15m	
Red LED range, periphery										
White incandescent										•
Pulses flash (with compatible bodies)										
Flash exposure lock (FEL)				with T90 only						
High speed sync/FP mode										
High speed sync control										
Flash exposure bracketing (FEB)										
Flash exposure compensation (FEC)							Buttons		Buttons	
FEC in 1/3 increments										
Second curtain sync (SCS)										
SCS enabled by switch				with T90 only	•					
SCS enabled by +/- buttons						•	•		•	
SCS via camera C.Fn/menu										
Recycling										
Approx recycle time, alkaline AAs	0.3–1.7 sec	0.3–1.7 sec		0.2–13 sec	0.3–8 sec	0.2–13 sec	0.2–13 sec	0.2–17 sec	0.2–13 sec	0.2–13 sec
Flashes per charge, alkaline AAs	400–4000	400–4000		100–700	200–2000	100–700	100–700	100–700 (TP3)	100–700	100–1000
Rapid fire/Quick Flash capability	•			•	•	•	•		•	
Rapid fire with high voltage port									•	
Silent recycling										
Stroboscopic flash rate						1–5 Hz	1–10 Hz		1–100 Hz	
Number of repeated flashes									1–100	
Flash exposure confirmation LED								•	•	•
Wireless E-TTL										
Master capable, groups										
Wireless feature enabled by:										
Slave capable										
Flash A/B ratio displayed on LCD										
Flash A/B ratio LEDs										
Visible light or infrared signals										
Control signal range, center										
Control signal range, periphery										
Control signal angle										
Modeling flash										
Modeling flash in slave mode only										
Automatic WB compensation										
External (camera) menu control										
	160E	200E	200M	300TL	300EZ	420EZ	430EZ	480EG	540EZ	ML-3

220EX	270EX	380EX	420EX	430EX	430EX II	550EX	580EX	580EX II	MR-14EX	MT-24EX	ST-E2
1		1	7	9	9	45	9, 45	9, 45			45
0.7-5m		0.7-10m	0.7-7m	0.7-7m	0.8-7m	0.6-10m	0.6-10m	0.6-10m			0.6-10m
			0.7-5m	0.7-5m			0.6-5m	0.6-5m			
	•								•	•	
•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•
Button	Camera menu	Switch	Switch	Button	Button	+/- buttons	Button	Button	+/- buttons	+/- buttons	Button
				Buttons	Buttons	Buttons	Dial	Dial	Buttons	Buttons	
				•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	
0.1-4.5 sec	0.1-3.9 sec	0.1-7.5 sec	0.1-7.5 sec	0.1-3.7 sec	0.1-3.7 sec	0.1-8 sec	0.1-6 sec	0.1-5 sec	0.1-7 sec	0.1-7 sec	
250-1700	100-680	260-1800	200-1400	200-1400	200-1400	100-700	100-700	100-700	120-800	120-800	1500
	•					•	•	•			
	•					•	•	•			
						•	•	•			
						1-199 Hz	1-199 Hz	1-199 Hz			
						1-100	1-100	1-100			
•		•	•	•	•	•	•	•	•	•	•
			Switch	Switch	Button/Menu	A, B, C Switch	A, B, C Switch	A, B, C Button/Menu	C Switch	C Switch	A, B
				•	•	•	•	•	•	•	•
						•	•	•			•
						Visible	Visible	Visible	Visible	Visible	Infrared
						10-15m	10-15m	10-15m	3-5m	5-8m	8-10m
						8-12m	8-12m	8-12m			
						80° H, 60° V	80° H, 60° V	80° H, 60° V	80° H, 80° V	50° H, 70° V	40° H, 30° V
	•		•	•	•	•	•	•	•	•	
	•		•	•	•	•	•	•			
	•					•	•	•			
						•		•			
220EX	270EX	380EX	420EX	430EX	430EX II	550EX	580EX	580EX II	MR-14EX	MT-24EX	ST-E2