Canon

Canon

ACCESSORY DATA

(Camera Service Counter Book V, Supplement-1)

1987～1996

CY8-3200-012
Camera Products Quality Advancement Division

Preface

This is the Camera Service Counter Book V "Accessory Data Book" covering the years 1987 through 1996.
Please use this book in combination with "Camera Basics", "Camera Data" etc.

(Contents)
A summary of the specifications and related reference data of the camera accessories that were marketed during the period of 1987 to 1996.

(Purpose of Use)
Please use this document for identification of models, grasp of product lines, confirmation of specifications, training of newcomers, counter information, and so on.

(Acknowledgment)
During the preparation of this document, we received cooperation of the Photograph Section. Camera Development Center, Lens Development Center, and so on.

(Remarks)
In the future, follow-up editions will be issued when the number of discontinued products has reached a certain level.

Accessories Contents

Detailed Specifications by Models of Accessories

※ "Canon" in product name is omitted to save space.

1 Speedlites

NAME	: Speedlite 300EZ		
MARKETED	: March 1987	DISCONTINUED	: February 1996
PRICE	: (including the case)		
DIMENSIONS	: 66×89×100.5 mm		
WEIGHT	: 220 g (without batteries)		
POWER SOURCE	: LR6 alkali-manganese dry cells – 4 pcs. AA Ni-Cd cells can also be used		
PRODUCT USED ON :			
EOS cameras			

Type : Direct connection clip-on type TTL automatic flash
(Equipped with AF auxiliary light, A-TTL pre-flash, and auto-zoom mechanisms)

Guide Number (ISO 100,m) :

Illuminating Angle (mm)	28	35	50	70
Full Flash GNo.	22	25	28	30
Quick Flash GNo.	5.5 to 15.5	6.2 to 17.7	7 to 19.8	7.5 to 21.2

Number of Flashes :

	Power Source : LR6 (AM-3)	Power Source : KR15/51 (Ni-Cd)
Fully Charged Flash	200 to 1500 times	65 to 650 times

Flash Interval (Recycle Time) :

Flash Mode	Power Source : LR6 (AM-3)	Power Source : KR15/51 (Ni-Cd)
Fully Charged Flash	0.3 to 8 sec	0.3 to 6 sec
Quick Flash	0.3 to approximately 1 sec	0.3 to approximately 1 sec

The figure on the left represents the flash interval in the A-TTL mode and the figure on the right, that in the manual mode (1/1).

Flash Duration/
Color Temperature : 1 ms or less/daylight equivalent

Flash Coverage Angle : Automatically set by coupling with the focal length of the lens in use (28, 35, 50, 70)

Exposure Control Modes : A-TTL automatic flash, TTL automatic flash (when the camera is in the manual mode)

Flash Duration Control : TTL automatic flash based on the measurement of the reflection light on the film surface

Flash Level Control : Automatic reduction is used for synchro-sunlight

Flash Sync Shutter
Speeds (X sync) :

Shutter-Priority AE	1/250 sec or less if manually set. Any faster speed is automatically set to 1/250 sec.
Manual	
Aperture-Priority AE	Automatically set to a value between 1/250 sec and 30 sec.
Programmed AE	Automatically set to a value between 1/250 sec and 1/60 sec.

* The maximum flash sync shutter speed depends upon the EOS body being used.

Coupling Range : 0.7 to 17 m during A-TTL full-charged flash, 0.7 to 3.9 m (minimum) and 0.7 to 12 m (maximum) during quick flash. * Data of 50mm *f*/1.8 at ISO100.

Out-of-Range Warning : Simultaneous flashing of shutter speed and aperture in the finder, if the subject is too far away.

Ready Lamp (s) : The red lamp lights for full charge and the yellow-green lamp for quick flash.

Sync Timing : Synchronization can be switched between first and second curtains.

AF Auxiliary Light : Operates when the camera cannot measure the distance, approximately 0.9 to 6 m (in darkness)

Energy Saving (SE)
Function : Power is automatically turned off when the camera is left unoperated for approximately 5 min.

NAME	: Speedlite 420EZ		
MARKETED	: March 1987	DISCONTINUED	: February 1989
PRICE	: (including the case)		
DIMENSIONS	: 75×122×106 mm		
WEIGHT	: 370 g (without batteries)		
POWER SOURCE	: LR6 alkali-manganese dry cells - 4 pcs. AA Ni-Cd cells can also be used		
PRODUCT USED ON	: EOS cameras		

Type : Direct connection clip-on type TTL automatic flash
(Equipped with AF auxiliary light, A-TTL pre-flash, and auto-zoom mechanisms)

Guide Number (ISO 100, m) :

Illuminating Angle (mm)		24	28	35	50	70	80
Full Flash GNo.		25	27	30	35	40	42
Quick Flash GNo.		Manual 1/2 to 1/16					
Manual Flash GNo.	1/1	25	27	30	35	40	42
	1/2	17.7	19.1	21.2	24.7	28.3	29.7
	1/4	12.5	13.5	15	17.5	20	21
	1/8	8.8	9.5	10.6	12.4	14.1	14.8
	1/16	6.3	6.8	7.5	8.8	10	10.5
	1/32	4.4	4.8	5.3	6.2	7.1	7.4

Number of Flashes :

	Power Source : LR6 (AM-3)	Power Source : KR15/51 (Ni-Cd)
Fully Charged Flash	100 to 2000 times	45 to 300 times

The figure on the right represents the number of flash in the A-TTL mode and the figure on the left, that in the manual mode (1/1).
The number of flashes at manual 1/2, 1/4, 1/8, 1/16, and 1/32 is 2, 4, 8, 10, and 12 times as large as that in full flash (1/1) respectively.

Flash Interval (Recycle Time) :

Flash Mode	Power Source : LR6 (AM-3)	Power Source : KR15/51 (Ni-Cd)
Fully Charged Flash	0.2 to 13 sec	0.2 to 6.5 sec
Quick Flash	0.2 to approximately 1.5 sec	0.2 to approximately 1.5 sec

The figure on the left represents the flash interval in the A-TTL mode and the figure on the right, that in the manual mode (1/1).

Flash Duration/
Color Temperature : 1.5 ms or less/daylight equivalent
Flash Coverage Angle : Automatically set by interlocking with the focal distance of the lens in use (24, 28, 35, 50, 70, 80)
(Manual switching by the operating the zoom switch is also available)
Bounce Flash : Click stops are available at 0°, 60°, 75°, and 90° in the upward and rightward directions and at 0°, 60°, 75°, 90°, 120°, 150°, and 180° in the leftward direction.
The main flash performs pre-flash during bounce flash.
Exposure Control Modes : A-TTL automatic flash, TTL automatic flash (when the camera is in the manual mode)
Flash Duration Control : TTL automatic flash based on the measurement of the reflection light on the film surface
Flash Level Control : Automatic reduction is used for synchro-sunlight.

Flash Sync Shutter Speeds (X sync) :

Shutter-Priority AE	1/250 sec or less is manually set and any faster speed is automatically set to 1/250 sec.
Manual	
Aperture-Priority AE	Automatically set to a value between 1/250 sec and 30 sec.
Programmed AE	Automatically set to a value between 1/250 sec and 1/60 sec.

* The maximum flash sync shutter speed depends upon the EOS body being used.

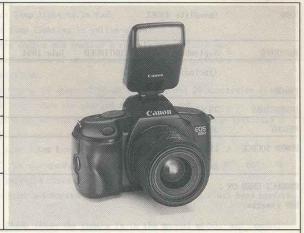
Coupling Range : 0.7 to 21 m during A-TTL full-charged flash, 0.7 to 5 m (minimum) and 0.7 to 16 m (maximum) during quick flash.
* Data of 50mm *f*/1.8 at ISO100.
Out-of-Range Warning : Simultaneous flashing of shutter speed and aperture in the finder, if the subject is too faraway.
Ready Lamp (s) : The red lamp lights for full charge and the yellow-green lamp, for quick flash.
Sync Timing : Synchronization can be switched between the front and rear films.
Multi-Flash : Charged state - Operates when X contact goes ON, multiple flash at 1 to 5 Hz (five steps of 1, 2, 3, 4, and 5 Hz can be set). Flash stops when X contact goes OFF or the charge drops to low.
AF Auxiliary Light : Operates when the camera cannot measure the distance, approximately 0.9 to 8 m (in darkness)
Energy Saving (SE) Function : Power is automatically turned off when the camera is left unoperated for approximately 5 minutes. An alarm by flashing is given 30 sec before turning off.

NAME	: Speedlite ML-3		
MARKETED	: September 1987	DISCONTINUED	:
PRICE	:		
DIMENSIONS	: Control section	74×60.5×106.5 mm	
	Flash head	106×123×24.5 mm	
WEIGHT	: Control section	225 g (without batteries)	
	Flash head	140 g	
POWER SOURCE	: LR6 alkali-manganese dry cells - 4 pcs.		
	AA Ni-Cd cells can also be used		
PRODUCT USED ON :			
EOS cameras, T-90			

Type	:	Two-lamp-type TTL automatic flash ring stroboscope dedicated for close-up shooting (Consists of the control and flash sections)
Connection	:	Clip-on type having direct contacts with the control section The flash section, which is mounted in (pushed into) the mounting groove at the tip of the lens, can be turned arbitrarily over the range of 360°.
Guide Number (ISO 100,m)	:	11
Illumination Angle	:	80° or more in both vertical and horizontal directions
Number of Flashes	:	Alkali-manganese battery 100 to 1000 times Ni-Cd battery 5 to 450 times (The number of flashes at intervals of 30 sec using new battery or fully-charged Ni-Cd battery)
Flash Interval (Recycle Time)	:	Alkali-manganese battery 0.2 to 13 sec Ni-Cd battery 0.2 to 6 sec (The time after an flash using new battery or fully-charged Ni-Cd battery until the pilot lamp lights again)
Flash Duration/ Color Temperature	:	1.5 ms or less/daylight equivalent
Flash Duration Control	:	TTL automatic flash based on the measurement of the reflection light on the film surface
Flash Level Control	:	Automatic reduction is available for synchro-sunlight.
Coupling Range	:	Approximately 20 mm to 4 m from the front face of the flash section (ISO 100)
Ready Lamp	:	Lights upon completion of the preparations for flash and then automatic switching to shooting with flash occurs. Concurrently used as the test flash button.
Confidence Lamp (Green)	:	When flash exposure is sufficient, this lamp lights for approximately 2 sec.
Focusing Lamps	:	For focusing between 0.2 and one meter, press the focusing lamp button on the control section. This lights the focusing lamps located at 0° and 180° in the flash head for twenty seconds. These lamps can be used for autofocus illuminstion also.
Flash Head	:	Two lamps, each one on the right and left, are installed ; flash from a single lamp is available using the changeover switching in the flash section
Energy Saving (SE) Function	:	Power is automatically turned off when the camera is left unoperated for approximately 5 min.

This flash is designed for close-up shooting, used in combination with EF50mm *f*/2.5 compact macro, etc. Because exposure is controlled realtime through TTL automatic flash, no complicated calculations of exposure are needed. Shooting in the macro area can be performed in the fully automatic mode. The flash head has two flash tubes, either or both can be used. By using a single lamp, good modeling with contrast between shadow and highlight can be achieved. Also, a focusing lamp, which assists delicate focusing, is built in. (An adapter is required when this flash is used with a T-90 and FD macro lens.)

NAME	: Speedlite 160E		
MARKETED	: October 1988	DISCONTINUED	: December 1989
PRICE	: (including the case)		
DIMENSIONS	: 59×89.2×27.5 mm		
WEIGHT	: 85 g (without batteries)		
POWER SOURCE	: 2CR5 - 1 pc.		
PRODUCT USED ON :			
EOS 850, EOS 750			



Product Outline	:	This is a compact, lightweight speedlite. Mounting on type EOS850 or 750, full automatic TTL shooting is possible. The flash fires automatically when the ambient lighting is judged as of low intensity or backlit. Also equipped with a quick flash function of approximately 0.7 sec. Further, the fast compling range is 1.1 m to 4.8 m (at ISO100, *f*/3.5, 35 mm). AF auxiliary light is built in.
Type	:	Directly connected hot-shoe TTL automatic flash
Guide Number (ISO 100,m)	:	16
Number of Flashes	:	400 to 4000 times
Flash Interval (Recycle Time)	:	0.3 to 1.7 sec (0.3 to 0.7 in the case of quick charge)
Flash Duration/ Color Temperature	:	1 ms or less/daylight equivalent
Power Switch	:	None・・・This model can be used only when it is mounted.

NAME : Speedlite 430EZ

MARKETED : September 1989 DISCONTINUED : July 1994

PRICE : (including the case)

DIMENSIONS : 75×122×106 mm

WEIGHT : 360 g (without batteries)

POWER SOURCE : LR6 alkali-manganese dry cells - 4 pcs.
AA Ni-Cd cells can also be used

PRODUCT USED ON :
EOS cameras

Type : Direct connection clip-on type TTL automatic flash
(Equipped with AF auxiliary light, A-TTL pre-flash, and auto-zoom mechanisms)

Guide Number (ISO 100,m) :

Illuminating Angle (mm)		24	28	35	50	70	80
Full Flash GNo.		25	27	30	35	40	43
Quick Flash GNo.		Manual 1/2 to 1/16					
Manual Flash GNo.	1/1	25	27	30	35	40	43
	1/2	17.7	19.1	21.2	24.7	28.3	30.4
	1/4	12.5	13.5	15	17.5	20	21.5
	1/8	8.8	9.5	10.6	12.4	14.1	15.2
	1/16	6.3	6.8	7.5	8.8	10	10.8
	1/32	4.4	4.8	5.3	6.2	7.1	7.6

Number of Flashes and Flash Interval :

Type of Power Source		Number of Flashes (time)	Flash Interval (sec)	
			Quick Flash	Normal Flash
Internal Power Source	LR6/AM-3	Approx. 100 to 700	Approx. 0.2 to 1.5	Approx. 0.2 to 13
	KR15/51 (Ni-Cd)	Approx. 45 to 300	Approx. 0.2 to 1	Approx. 0.2 to 6.5
External Power Source	Laminated battery (Model 0210)	Approx. 400 to 2500		Approx. 0.2 to 2
	Transistor pack E (Ni-Cd pack TP)	Approx. 250 to 1500		Approx. 0.2 to 2
	Transistor pack E (LR14/AM-2)	Approx. 300 to 2000		Approx. 0.2 to 8
	Compact battery pack E (AM-3)	Approx. 100 to 400		Approx. 0.2 to 5

* The figure on the right in the "number of flashes" column represents the maximum number in the A-TTL mode and the figure on the left that in the manual mode (1/1).
The number of flashes at manual 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, and 1/128 is 2, 4, 8, 10, 12, 15, and 18 times as large as that in full flash (1/1) respectively.
* The figure on the left in the "interval of flash" column represents the shortest interval in the A-TTL mode and the figure on the right, that in the manual mode (1/1).
* Quick flash does not function when an external power source is used.

Flash Duration/
Color Temperature : 1/5 ms or less/daylight equivalent

Flash Coverage Angle : (1) Auto-zoom : Automatically set by coupling with the focal distance of the lens in use (24, 28, 35, 50, 70, 80)
(2) Manual zoom : Zoom position is switched in succession by operating the zoom switch.

Flash Modes : (1) Normal flash (Flash with the pilot lamp lighting in red)
(2) Quick flash (Flash with the pilot lamp lighting in yellow-green)
Quick flash uses the internal power source and enables a recycle time of 1.5 sec.
It does not function during manual flash, use of an external power source, continuos shooting mode of the camera, at 6 to 10-Hz multi-flash.
(3) Multi-flash : Enables the setting of 10 steps of flash frequency and 20 successive flashes, where the flash stops when the charged state has ended.
(4) Pre-flash : For detection of A-TTL distance information during bounce flash (effected by a dedicated flash tune at the standard position)
(5) Test flash : Flash when the test flash button is pressed.

Bounce : Click stops at 0° , 60° , 75° , and 90° in the upward and rightward directions and at 0° , 60° , 75° , 90° , 120° , 150° , and 180° in the leftward direction.
* The 0 position is locked in the vertical and horizontal directions. The main flash head performs pre-flash when using bounce flash.

Exposure Control Mode : A-TTL automatic flash, TTL automatic flash (when the camera is in the manual mode), and manual

Flash System : TTL automatic flash based on the measurement of the reflection light on the film surface

Flash Duration Control : (1) Automatic reduction control is available for synchro-sunlight.
(2) 1/3 steps by the flash, manual compensation is possible within the rage of ±3 steps.

Flash Sync Shutter Speeds (X sync) :

Shutter-Priority AE	1/250 sec or less if manually set and any faster speed is automatically set to 1/250 sec.
Manual	
Aperture-Priority AE	Automatically set to a value between 1/250 sec and 30 sec.
Programmed AE	Automatically set to a value between 1/250 sec and 1/60 sec.

* The maximum sync speed complies with the X sync speed of the EOS in use.

Coupling Range (50mm *f*/1.4, ISO100) : 0.7 to 19 m during A-TTL full-charged flash, 0.7 to 5 m (minimum) and 0.7 to 14 m (maximum) during quick flash.

Out-of Range Warning : Alarm for any value outside the telephoto interlocking range is by the simultaneous flashing of shutter speed and lens aperture in the finder.

Ready Lamp (s) : When the pilot lamp is lighting in red : Normal flash is available.
When the pilot lamp is lighting in yellow-green : Quick flash is available. Quick flash does not function when an external poser source is used.

Sync Timing : Synchronization can be switched between the front and rear shutter curtains.

AF Auxiliary Light and Effective Distance : Operates when the camera cannot measure the distance, approximately 0.9 to 8 m (in a darkness)

Power Sources : Internal power source - LR6 alkali-manganese dry cells - 4 pcs. (AA Ni-Cd cells are also available.)
External power source - Laminated battery (Model 0210), Compact battery pack E (six AA dry cells), Transistor pack E [Battery pack TP (six size C dry cells) or Ni-Cd pack TP]

Energy Saving (SE) Function : Power is automatically turned off when the camera is left unoperated for approximately 90 sec.

Mode Memory : Stores the control mode, zoom position, etc. just before the switched was turned off alarm by flashing is given 30 sec before the turning off.

NAME : Speedlite 200E

MARKETED : September 1990 DISCONTINUED :

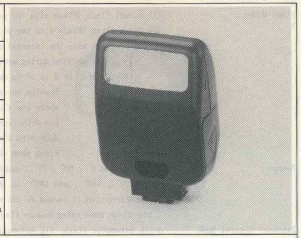
PRICE :

DIMENSIONS : 64×104×41 mm

WEIGHT : 130 g (without batteries)

POWER SOURCE : LR6 alkali-manganese dry cells - 4 pcs.
AA Ni-Cd cells can also be used

PRODUCT USED ON :
EOS cameras, especially EOS 1000-series cameras without built-in flash



Type : Direct connection clip-on type external automatic flash
Consists of the body and a detachable wide panel

Guide Number (ISO 100,m) : Normal : 20, with wide panel attached : 14

Number of Flashes and Flash Interval :

Power Source	LR6 (AM-3)	KR15/51 (Ni-Cd)
Number of Flashes	400 to 4000 times	150 to 1500 times
Interval of Flash	0.5 to approx. 4 sec	0.5 to approx. 3 sec

(There is no quick flash function)

Flash Coverage Angle : Body alone : Covers the angle of view of a 35 mm lens.
With wide panel attached : Covers the angle of view of a 28 mm lens.

Flash Mode : Auto flash only (not equipped with manual flash or test flash)

Setting of Flash Aperture : Same as the built-in flash of EOS1000 QD.

Sync Speed : Complies with the sync speed of the camera in use.

Flash Duration Control : TTL automatic flash based on the measurement of the reflection light on the film face

Flash Level Control : Automatic reduction control is available for synchronization during daytime

Coupling Range : When EF35 to 80/F4.5 to 6 with a reversal film is used

	With no Wide Panel		With a Wide Panel	
Film Sensitivity (ISO)	35mm	80mm	35mm	80mm
100	1 to 5	0.7 to 3.6	0.7 to 3.5	0.7 to 2.5
400	1.5 to 10	1.5 to 7	1.5 to 7	1.5 to 5

Flash interlocking distance range is proportional to the film sensitivity.

Out-of-Range Warning : None

Ready Lamp (s) : The red lamp lights

Flash Duration/
Color Temperature : 1 ms or less/daylight equivalent

AF Auxiliary Light : Effective distance 1 to 5 m (in darkness)

NAME : Speedlite 200M

MARKETED : September 1991 DISCONTINUED : July 1994

PRICE :

DIMENSIONS : 64×104×41 mm

WEIGHT : 125 g (without batteries)

POWER SOURCE : LR6 alkali-manganese dry cells - 4 pcs.
AA Ni-Cd cells can also be used

PRODUCT USED ON :
EF-M

Type : Direct connection clip-on type external automatic flash
Consists of the body and a detachable panel

Guide Number (ISO 100,m) : Body : 20, when the wide panel is attached : 14

Number of Flashed and Flash Interval (Recycle Time) :

Power Source	LR6 (AM-3)	KR15/51 (Ni-Cd)
Number of Flashes	400 to 4000 times	150 to 1500 times
Interval of Flash	0.5 to approx. 4 sec	0.5 to approx. 3 sec

Flash Coverage Angle : Body alone : Covers the angle of view of a 35 mm lens.
With a wide panel attached : Covers the angle of view of a 28 mm lens.

Flash Modes : Auto and manual (not equipped with the test flash function)

Flash Aperture Setting : Automatically set as follows by the EF-M body according to the film sensitivity

ISO	25	50	100	200	400	800	1600	3200	6400
Lens Aperture	2.8	4	5.6	8	11	16	22	32	45

Intermediate ISO values are provided in steps of1/3F. Where the FNo.is set automatically.

Sync Speed : EF-M : 1/90 sec

Flash Exposure System : External sensor (non-TTL) automatic flash

Coupling Range : Normal : 0.7 to 3.6 m, with wide panel attached : 0.5 to 2.5 m

Out-of-Range Warning : None

Ready Lamp (s) : The red lamp lights

Flash Duration/
Color Temperature : 1 ms or less/daylight equivalent

Power Switch : With ON/OFF function alone

NAME : Speedlite 480EG

MARKETED : June 1993 DISCONTINUED :

(Kit : 480EG, Clamp EG, Bracket EG, TTL shoe cord E, Synchro cord 480, Panel adapter 480, Wide panel 480EG-20, Telepanel 480EG-135)

PRICE :

DIMENSIONS : (including the clamp and bracket)
291×256.5×114.3 mm

WEIGHT : 1,065 g

PRODUCT USED ON :
EOS cameras, New F-1, T-90 etc

Product Outline : This is a grip-type automatic flash with high output that meets the needs of photographers such as news photographers.
By using a separately sold external power source, this flash is capable of a large volume of successive shootings with a short recycle time. The flash head has achieved even light distribution by the adoption of a twin xenon tube and a circular reflector.

Guide Number (ISO 100, m) : 48
24 With wide panel 480EG-20 used
68 With tele panel 480EG-135 used
GNo. can be switched in three steps of 48, 24, and 12 in the case of manual flash

Number of Flashes and Flash Interval :

Power Source	Number of Flashes	Flash Interval
Laminated Battery Model 0210	0.2 to 6 sec	900 to 130 times
Size C Alkali-Manganese Battery	0.2 to 17 sec	700 to 100 times
Ni-Cd Pack TP	0.2 to 6 sec	600 to 90 times

The figure on the left represents the data for automatic flash and that on the right, data for manual flash

Flash Coverage : Covers the angle of view of a 35 mm lens.
Cover the angle of view of a 20 mm lens (when wide panel 480EG-20 is used)
Cover the angle of view of a 135 mm lens (when a tele panel 480EG-135 is used)

Flash Duration/
Color Temperature : Color temperature is daylight equivalent

TTL Automatic Flash	Manual Flash (ISO100)		
	GNo. : 48	GNo. : 24	GNo. : 12
Approx. 1/20000~1/850	Approx. 1/850	Approx. 1/2000	Approx. 1/10000

During automatic flash by external light receiving : 1/55000 under the condition of f/2.8・1m and 1/20000 under the condition of f/5.6・1m

Bounce Flash : Upward direction : Clip stop at 0°, 70°, and 90°
Leftward direction : Clip stop at 0°, 65°, 90°, 115°, and 180°
Rightward direction : Clip stop at 0°, 65°, 90°, and 115°
* Locked at the 0° position in the lateral direction.

Exposure Control Mode : (1) TTL automatic flash (based on the measurement of reflecting light on the film sur face)
(TTE shoe cord E is used)
The sync speed is set on the camera upon completion of charging and enables flexible flash shooting coupled with the exposure control mode of the camera. Further, when the accessory dedicated for use with EOS, multi-flash shooting with up to four flashes can be performed with TTL automatic flash. (This is also possible with T-90)

(2) Non-TTL automatic flash (Synchro cord 480 is used)
The reflection from the object is detected by the light receiving sensor under the flash head and flash is automatically stopped when the adequate volume of exposure is reached.
(3) Manual flash
Switching by three steps is available (Synchro cord 480 is used)

Flash Sync Shutter Speed : (1) TTL flash
The synchronous shutter speed on the camera side is set automatically when the charging completion signal is received, or an arbitrary value below the synchronous speed can be set.
(2) Non-TTL and manual flash
The sync speed suitable for each camera is set manually.

Flash Operture and Coupling Range : (1) TTL flash
The lens opening value is arbitrarily set or automatically set by the light measuring AE of the camera. Effective flash distance is 0.7 to 34 m (When ISO100, f/1.4 lens is used)
(2) External flash
Selection by four steps using a slide switch

	Film Sensitivity (ISO)						Effective Distance
	25	50	100	200	400	800	for External Flash
Lens Aperture for External Flash	1.4	2	2.8	4	5.6	8	Approx. 0.7 to 17m
	2	2.8	4	5.6	8	11	Approx. 0.7 to 12m
	2.8	4	5.6	8	11	16	Approx. 0.7 to 8.2m
	4	5.6	8	11	16	22	Approx. 0.7 to 6.0m

Confidence Lamp : The flash verification lamp lights after the shooting (for 2 sec) : OK, Not lighted : NG
Only in the automatic flash mode by external light receiving, pre-confirmation by test flash is possible.

Film Sensitivity : (1) TTL flash ISO 6 to 6400
Automatically set on the camera side
(2) External flash ISO 25 to 800
Manually set by the film sensitivity switch
Both (1) and (2) are set in steps of 1/3F.

Ready Lamp : The orange pilot lamp lights

Power Sources : (1) Laminated pack E315 (315 V laminated battery is used)
(2) Transistor pack E
① Six LR14 alkali-manganese dry cells are used
② Ni-Cd pack TP is used

Multi-Flash Shooting with Slave unit E : By installing the slave unit in the socket on the back panel of 480EG, it can be used as a non-cord light source for increasing lamps. The light receiving angle of the slave unit is approximately 11°. The operating distance is approximately 23 m when the 430EZ is used as the triggering flash (when the flash head of the 430EZ and the slave unit are aligned). (TTL automatic flash is not available with slave flash)

NAME	: Speedlite 540EZ
MARKETED	: September 1994 DISCONTINUED :
PRICE	: (including the case)
DIMENSIONS	: 80×138×112 mm
WEIGHT	: 405 g (without batteries)
POWER SOURCE	: LR6 alkali-manganese dry cells - 4 pcs. AA Ni-Cd cells and AA lithium cells can also be used
PRODUCT USED ON	: EOS cameras

Type : Direct connection clip-on type TTL automatic flash
(Equipped with 5-point measuring capacity, AF auxiliary light, A-TTL pre-flash, and auto-zoom, and bounce mechanisms)

Guide Number (ISO 100, m) :

Illuminating Angle (mm)		18	24	28	35	50	70	80	105
Full Flash GNo.		16	28	30	36	42	46	50	54
Quick Flash GNo.		Manual 1/2 to 1/16							
Manual Flash Guide Number	1/1	16	28	30	36	42	46	50	54
	1/2	11.3	19.8	21.2	25.5	29.7	32.5	35.4	38.2
	1/4	8	14	15	18	21	23	25	27
	1/8	5.7	9.9	10.6	12.7	14.8	16.3	17.7	19.1
	1/16	4	7	7.5	9	10.5	11.5	12.5	13.5
	1/32	2.8	4.9	5.3	6.4	7.4	8.1	8.8	9.5
	1/64	2	3.5	3.8	4.5	5.3	5.8	6.3	6.8
	1/128	1.4	2.5	2.7	3.2	3.7	4.1	4.4	4.8

* The figures for the illuminating angle of 18 mm are those measured with a wide panel set on the flash head.

Number of Flashes and Flash Interval :

Type of Power Source		Number of Flashes (time)	Flash Interval (sec)	
			Quick Flash	Normal Flash
Internal Power Source	LR6/AM-3	Approx. 120 to 800	Approx. 0.2 to 2	Approx. 0.2 to 12
	KR15/51 (Ni-Cd)	Approx. 50 to 350	Approx. 0.2 to 1.5	Approx. 0.2 to 6
External Power Source	Laminated battery (Model 0210)	Approx. 500 to 3000	Approx. 0.2 to 1	Approx. 0.2 to 3
	Transistor pack E (Ni-Cd pack TP)	Approx. 350 to 2000	Approx. 0.2 to 1	Approx. 0.2 to 3
	Transistor pack E (LR14/AM-2)	Approx. 400 to 2500	Approx. 0.2 to 1.5	Approx. 0.2 to 5
	Compact battery pack E (AM-3)		Approx. 0.2 to 1.5	Approx. 0.2 to 5

* The figure on the right in the "number of flashes" column represents the number of flashes at in the A-TTL mode and the figure on the left that in the manual mode (1/1).
The number of flashes at manual 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, and 1/128 is 2, 4, 8, 10, 12, 15, and 18 times as large as that in full flash (1/1) respectively.

* The figure on the left in the "flash interval" column represents the flash interval in the A-TTL mode and the figure on the right, that in the manual mode (1/1).
Quick flash does not function when an external power source is used.

Duration of Flashing/ Color Temperature : 1.2 ms or less in normal and 2.3 ms or less in quick flash/daylight equivalent

Flash Coverage Angle : (1) Auto-zoom : Automatically set, coupled to focal length of the lens in use (24, 28, 35, 50, 70, 80, and 105 mm)
(2) Manual zoom : Zoom position is set manually using the zoom button
(3) With wide panel set : When the built-in wide panel is set manually, the zoom position is set to 28 mm to cover the angle of view of a 18 mm lens.

Flash Mode : (1) Normal flash : (Flash with the pilot lamp red)
(2) Quick flash : (Flash with the pilot lamp yellow-green)
(3) Multi-flash : Enables the setting of 31 steps of flash frequency and successive 31 flashes
(4) Pre-flash : For detection of A-TTL distance information
(5) Test flash : Flashes when the test button is pressed

Bounce Flash : Click stop is available at 0°, 60°, 75°, and 90° in the upward and rightward directions, 0°, 60°, 75°, 90°, 120°, 150°, and 180° in the leftward direction, and 0° and 7° in the downward direction.
* The 0 position is locked in the vertical and horizontal directions. The bounce state is displayed on the panel.

Exposure Control Mode : A-TTL automatic flash, TTL automatic flash, and manual.
When this is combined with a camera that has multiple AF frames, the exposure automatically corresponds to the selected AF frame enabling flash for each of three areas of the picture : center, left, and right.

Flash Duration Control : TTL automatic flash based on the measurement of the reflection light on the film surface

Flash Level Control : (1) Automatic reduction is used for synchro-sunlight.
(2) Manual compensation is possible within the rage of ±3 steps in 1/3 step intervals.
(Excluding the cases where the camera is in other than the full-auto mode and where the camera is EOS 650, 620, 700 or 850)

Flash Sync Shutter Speeds (X sync) :

Shutter-priority AE	1/250 sec or less is manually set and any faster speed is automatically set to 1/250 sec.
Manual	
Aperture-priority AE	Automatically set to a value between 1/250 sec and 30 sec.
Programmed AE	Automatically set to a value between 1/250 sec and 1/60 sec.

* The maximum sync speed complies with the X sync speed of the EOS body.

Coupling Range (50mm *f*/1.4, ISO100) : 0.5 to 30 m during A-TTL normal flash, 0.5 to 7.5 m (minimum) and 0.5 to 21 m (maximum) during quick flash.

Ready Lamp (s) : When the pilot lamp is red : Normal flash is ready
When the pilot lamp is yellow-green : Quick flash is ready

Sync Timing : Synchronization can be switched between the front and rear curtains

AF Auxiliary light Effective Distance : Corresponds to the measurement of distance at five points, where approximately 0.5 to 15 at the center 8 m (in darkness) and approximately 0.7 to 6 m at left and right (in darkness).
When this model is combined with EOS-1N, auxiliary lights corresponding to five AF frames are emitted automatically.
When this model is combined with EOS 5 (EOS A2/A2E), EOS 10 (EOS 10S), or EOS KISS (EOS REBEL X, EOS 500), the auxiliary light is emitted from the camera with no auxiliary light from 540EZ.

Power Sources : Internal power source - LR6 alkali-manganese dry cells - 4 pcs.
(AA Ni-Cd cells and AA lithium cells can also be used)
External power source - Laminated battery (Model 0210), compact battery pack E (six U3 dry batteries), transistor pack E (Battery pack TP (six size C dry cells) or Ni-Cd pack TP)

Energy Saving (SE) Function : There is the SE position in the power switch section is automatically turned off when the camera is left unoperated for approximately 90 sec.

Mode Memory : Stores the control mode, zoom position, etc. when switched off.

Flash Exposure Conponation : When exposure is adequate, the confidence lamp on the back lights for 2 sec after the exposure.

NAME : Speedlite 380EX

MARKETED : September 1995 DISCONTINUED :

PRICE : (including the case)

DIMENSIONS : 75×j13.5×103.5 mm

WEIGHT : 270 g (without batteries)

POWER SOURCE : LR6 alkali-manganese dry cells - 4 pcs.
AA Ni-Cd cells and AA lithium cells can also be used

PRODUCT USED ON : NEW EOS Kiss (EOS REBEL G, EOS 500N), EOS 55 (EOS ELAN II, EOS 50), EOS IX E (EOS IX) (E-TTL automatic flash) and other EOS and T-90 (TTL automatic flash)

Product Outline : This is a flash with the new E-TTL automatic mechanism, which operates with the EOS55, etc. Because this model does not use light reflected from the film surface, as conventional TTL automatic flash, it enables TTL automatic flash shooting with high precision at any time. (Note : EOS 55 is called the EOS 50 or EOS ELAN II also.)
Further, all-speeds high-speed sync and AE lock-FE lock for can be performed easily. (The above is possible only when this model is combined with EOS 55 (EOS ELAN II, EOS 50), or later models with these features.)
TTL automatic flash is used when mounted on EOS cameras other than the EOS 55 (EOS ELAN II, EOS 50).

Guide Number (ISO 100, m) : (1) Normal flash

Zoom Position (mm)	24	28	35	50	70	105
Full Flash GNo.	21	23	28	31	33	38

(2) High-speed synchronous (FP flash)

Shutter Speed (sec)	Zoom Position (mm)					
	24	28	35	50	70	105
1/180	11.2	12.3	15.0	16.6	17.6	20.3
1/250	10.0	11.0	13.3	14.8	15.7	18.1
1/350	8.7	9.6	11.6	12.9	13.7	15.8
1/500	7.3	8.0	9.8	10.8	11.5	13.3
1/750	6.2	6.8	8.2	9.1	9.7	11.2
1/1000	5.2	5.7	6.9	7.7	8.2	9.4
1/1500	4.4	4.8	5.8	6.4	6.9	7.9
1/2000	3.7	4.0	4.9	5.4	5.8	6.6
1/3000	3.1	3.4	4.1	4.6	4.8	5.6
1/4000	2.6	2.8	3.5	3.8	4.1	4.7

Number of Flashes and Flash Interval :

Normal Flash	Type of Power Source	
	LR6 (AM-3)	KR15/51 (Ni-Cd)
Number of Flashes	260 to 1800 times	75 to 500 times
Flash Interval	0.1 to 7.5 sec	0.1 to 4.5 sec

Flash Duration/Color Temperature : 1.4 ms or less/both main flash and pre-flash are daylight equivalent

Flash Coverage Angle : (1) Auto : Coupled with the focal length information from the lens and automatically set by SW-10N of the camera (24, 28, 35, 50, 70, 105)
(2) There is no manual function
(3) Test flash : Full flash by pressing the test button (which is the pilot lamp concurrently)

Flash Mode : (1) Normal flash
(2) High-speed synchronous (FP flash) - FP flash switch ON + creative zones on applicable cameras, such as EOS 55 (EOS ELAN II, EOS 50), etc. alone
(3) TTL automatic flash (when combined with other EOS cameras or multi-flash accessories)

Bounce Flash : Click stop is enables at (0° to 90°), 0°, 60°, 75°, and 90° in the upward direction.
There is no bounce lock.
Bounce angle display : Raised characters on the back of the flash head.

Exposure Control Mode : (1) New-TTL pre-memory-type evaluating flash mode (EOS 55 (EOS ELAN II, EOS 50), etc.)
(2) EF lock mode (creative zones of EOS 55 (EOS ELAN II, EOS 50), etc.)
(3) TTL automatic flash mode (other EOS cameras and multi-lamp Acc)

Flash Duration Control : (1) TTL memory-type evaluating flash mode based on momentary light measurement on pre-flash (EOS 55 (EOS ELAN II, EOS 50), etc.)
(2) TTL memory-type evaluating partial flash based on momentary partial light measurement on pre-flash (EOS 55 (EOS ELAN II, EOS 50), etc.)
* Pre-flash (When mounted on EOS 55 (EOS ELAN II, EOS 50), etc., flash with a volume of light 1/16 that of full flash is effected for momentary light measure on pre-flash)
① Normal flash : Pre-emission is effected by SW-2 ON on EOS 55 (EOS ELAN II, EOS 50), etc.
② When shooting with FE lock : Pre-emission occurs by FE lock button ON on EOS 55 (EOS ELAN II, EOS 50), etc.
(3) TTL automatic flash based on the measurement of the reflection light on the film surface (when mounted on other EOS cameras and multi-lamp Acc)

Verification of Flash Exposure : OK : The green confldence lights for 2 sec after the exposure, NG : does not light

Coupling Range
(50mm *f*/1.8, ISO100) : (1) Normal flash : 0.7 to 17 m
(2) High-speed synchronous (FP flash) : 0.7 to 10 m (at TV=1/250 sec)

Out-of-Range Warning : During FE lock, an alarm of outside the flash interlocking range on the telephoto side flashes at 2 Hz in the finder

Ready Lamp (s) : When charging has completed, the red pilot lamp (LED) lights (full charging - 1 step)

Synchronizing timing : First curtain sync (switcheable to second curtain sync by custom function of EOS 55 (EOS ELAN II, EOS 50))

AF auxiliary light : Effective distance 0.7 to 10 m (in darkness)
When mounted on EOS 55 (EOS ELAN II, EOS 50) : If a central distance measuring point is selected arbitrarily, AF auxiliary light on the 380EX is emitted, otherwise the auxiliary light on the EOS 55 (EOS ELAN II, EOS 50) is emitted. When mounted on EOS 10 (EOS 10S), EOS 5 (EOSA2/A2E), EOS KISS (EOS REBEL X, EOS 500), or EOS 888, the auxiliary light on the camera is emitted. Central AF-SLR of EOS 100 (EOS ELAN), etc. : The auxiliary light on the 380EX side is emitted.

Power sources : LR6 alkali-manganese dry cells (LR6) - 4 pcs.
AA Ni-Cd cells (KR15/51) and AA lithium cells (FR6) can also be used

Power switch : Main switch with SE function
When the switch set to ON is left alone for approximately 90 sec., power is automatically turned off. Power can be turned on again by the 1st step of the shutter button of the camera or test button ON.

NAME : Speedlite 220EX

MARKETED : September 1996 DISCONTINUED :

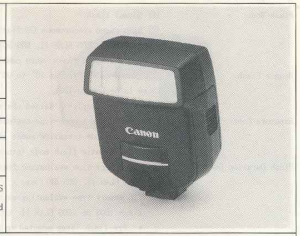
PRICE :

DIMENSIONS : 65×92×61.3 mm

WEIGHT : 160 g (without batteries)

POWER SOURCE : LR6 alkali-manganese dry cells - 4 pcs.
AA Ni-Cd cells and AA lithium cells can also be used

PRODUCT USED ON : NEW EOS Kiss (EOS REBEL G, EOS 500N), EOS 55 (EOS ELAN II, EOS 50), EOS IX E (EOS IX) (for E-TTL automatic flash) and other EOS and T-90 (for TTL automatic flash)



Type : Direct connection clip-on type E-TTL/TTL automatic flash

Guide Number (ISO 100,m) : 22

Number of flashes and Flash Interval :

Power Source	LR6 (AM-3)	KR15/51 (Ni-Cd)
Number of Flashes	250 to 1700 times	100 to 700 times
Interval of Flash	0.1 to 4.5 sec	0.1 to 2.5 sec

Data of the number of flash : Left for full flash and right for auto

Flash Coverage Angle : 135 : Covers the angle of view of a 28 mm lens
IX240 : Covers the angle of view of a 24 mm lens

Coupling Range
(f/1.4, ISO 100) : 0.7 to 15.7 m

Flash mode : (1) Normal flash
(2) High-speed synchronous (FP) flash
(3) Test flash

Flash Duration/
Color Temperature : 1.4 ms or less for ordinary flash, exposure time + 9 ms for FP flash/daylight equivalent

Sync Shutter Speed : Complied with the synchronous shutter speed of the camera in use.

Built-in AF Auxiliary
Light : Corresponds to center focusing, effective distance : approximately 0.7 to 5 m

Displays : (1) Flash mode : FP flash - red lamp lights (not lighting indicates normal flash)
(2) Flash exposure control mode : E-TTL flash - red lamp lights (not lighting indicates TTL flash)
(3) Ready lamp : The red pilot lamp lights
(4) Confidence lamp (green) : Lights for 2 sec after shooting

Energy Saving (SE)
Function : Power is automatically turned off when the camera is left unoperated for 90 sec.

NAME : Transistor Pack E Set,
Battery Magazine

MARKETED : September 1989

(including the battery magazine TP and connecting cord ET)

PRICE :

DIMENSIONS :

WEIGHT : 530 g (without batteries)

PRODUCT USED ON :

Speedlite 430EZ, Speedlite 540EZ, Speedlite 480EG

This is an external power source for speedlites.
Uses six size C alkali-manganese cells or size C Ni-Cd cells.

NAME : Transistor Pack E Set,
Ni-Cd Pack

MARKETED : September 1989

(including the Ni-Cd pack TP, Ni-Cd charger TP, and connecting cord ET)

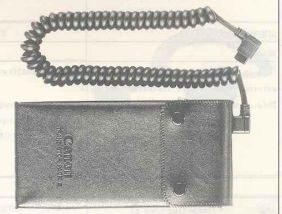
PRICE :

DIMENSIONS :

WEIGHT : 845 g (without batteries)

PRODUCT USED ON :

Speedlite 430EZ, Speedlite 540EZ, Speedlite 480EG



This is an external power source for speedlites.
Uses a dedicated Ni-Cd pack TP.

1 Speedlites

NAME : Laminated Pack E315
(including the connecting cord EL)

MARKETED : September 1989 DISCONTINUED :

PRICE :

DIMENSIONS :

WEIGHT : 415 g

PRODUCT USED ON :
Speedlite 540EZ, Speedlite 480EG, Speedlite 430EZ

This is an external power source that uses a laminated battery.
Enables quick charge with a high voltage of 315 V.
For the power switch, a two position rotary switch (ON and OFF) is adopted.
The connecting cord EL is of spiral type that allows extension to a length of approximately 1 m.
This product was not normally exported because the battery was not exported.

NAME : Connecting Cord EL

MARKETED : 1989

DIMENSIONS :

PRICE :

WEIGHT :

This is the cord for connecting Speedlite 430EZ, Speedlite 480EG or Speedlite 540EZ and external power source laminated pack E315.
This cord is a spiral type that allows extension to a length of approximately 1 m.

NAME : Connecting Cord ET

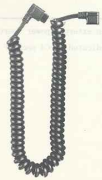
MARKETED : 1989

DIMENSIONS :

PRICE :

WEIGHT :

This is the cord for connecting Speedlite 430EZ, Speedlite 480EG or Speedlite 540EZ and transistor pack E.
This cord is of spiral type that allows extension.



1 Speedlites

NAME : Compact Battery Pack E

MARKETED : 1992

DIMENSIONS :

PRICE :

WEIGHT : 155 g (without batteries)

(including the soft case)

This is an external power source for Speedlite 430EZ and 540EZ.
This is a lightweight pocket-size power source. Uses six LR6 alkali-manganese dry cells or AA Ni-Cd cells.
* Although this can also be connected to Speedlite 480EG, recycle time is too long.

NAME : Slave Unit E

MARKETED : 1993

DIMENSIONS : φ 24×22.8 mm

PRICE :

WEIGHT : 6 g

This is the dedicated slave unit for Speedlite 480EG. By connecting the Slave Unit E to the socket on the back panel of Speedlite 480EG, this can be used as a cordless lamp-increasing light source. This slave unit has a light receiving angle of approximately 110° and an operating distance of approximately 23 m using the 430EZ as the trigger (when the flash head of 430EZ and the light receiving section of the slave unit are aligned with each other).
* TTL automatic flash is not available from slave flash.

NAME : Off-Camera Shoe Cord 2

MARKETED : 1993

DIMENSIONS : (Shoe mounting section) 35×31.1×54.5 mm

PRICE :

WEIGHT : 96 g

This enables to use the dedicated speedlite at a distance of up to 60 cm from the camera. All auto-functions of the EOS are available.
This cord is used with one end inserted to the accessory shoe of the camera and the other end to the speedlite. Equipped with a lock pin to prevent displacement.
This cord can be used with EOS cameras others EOS 630 (EOS 600) and EOS RT.

NAME : TTL Hot Shoe Adapter 3

MARKETED : 1993

DIMENSIONS : (Shoe mounting section) 35×35.7×54.5 mm

PRICE :

WEIGHT : 40 g

This is an multiple flash adapter that is equipped with a hot shoe and connection socket. This is mounted on the accessory shoe of the camera. This can be connected to a off-shoe adapter or distributor using a connecting cord.
Equipped with a lock pin to prevent displacement.
This cord can be used with EOS cameras.

NAME : Power Drive Booster E1

MARKETED : September 1989 DISCONTINUED :

PRICE :

DIMENSIONS : 157×116.4×78 mm

WEIGHT : 490 g

POWER SOURCE : LR6 alkali-manganese dry cells - 8 pcs.
AA Ni-Cd cells can also be used, Ni-Cd Pack E1
(Battery check : Both operation and display comply with the camera body)

PRODUCT(S) USED ON:
EOS-1, EOS-1N

Attachment : Mounted and dismounted using tripod screw after removing the grip and 2CR5 of the camera body and then removing the coupler cover at the bottom of the camera body.

Transport Mode (s) : CH (high-speed successive shootings), CL (low-speed successive shootings), S (single shooting)

Winding Speed : ☐ As shown below under the condition that successive shootings with TV=1/250 sec or more [f/s] [EOS-1N]

	Single Shot/Manual	AI Servo AF
CH	Approx. 6	Approx. 5
CL	Approx. 3	Approx. 2.5

☐ In case of single shooting, one frame is wound at the same speed as that in the CH mode

Battery Life : 24EX/(36EX), Number of films

Battery in Use	LR6 Alkali-Manganese×8	AA Ni-Cd×8	Ni-Cd Pack E1
Room Temp. (20℃)	100 (65)	45 (30)	65 (45)
Low Temp. (−20℃)	6 (4)	30 (20)	45 (30)

Product Outline : This is an external speed booster for EOS-1 and EOS-1N. A three-motor system as used in the T90 is configured by mounting this booster, where the speed of successive shootings is increased up to approximately 6 f/s.
In the aspect of design, this booster assures sure holding by coating with rubber and artificial leather and a detachable hand-strap with a pad on the back while expressing a powerful image that matches of the EOS-1 body.
Being equipped with the release button and AE lock button for vertical position, this booster enables shooting in the vertical position with the same ease as that in shooting in the horizontal position. (Further, by the dedicated switch, the above functions can be set to ON and OFF (lock)).
Automatic H-L switching function to relieve overload that may occur at a low temperature is provided (priority is given to film/display flashes).
The batteries is in a fool-proof magazine (power is not supplied if any of the cells is mounted in the wrong direction).

NAME : Battery Pack BP-E1

MARKETED : September 1994 DISCONTINUED :

PRICE :

DIMENSIONS : 156.9×99.9×73.6 mm

WEIGHT : 280 g

POWER SOURCE : LR6 alkali-manganese dry cells - 4 pcs.
AA Ni-Cd cells can also be used, 2CR5 - 1 pc.
(Battery check : Both operation and display comply with the camera body)

PRODUCT(S) USED ON:
EOS-1, EOS-1N

Attachment : Mounted using tripod screw after removing the grip of the camera body.

Transport Mode (s) : Complies with the camera body

Winding Speed : 3.0 [f/s]

Winding condition : TV=1/250 sec or more, successive shootings by manual focusing after AF locking.

Battery Life : 24EX/(36EX), Number of films

Battery in Use	LR6 Alkali-Manganese×8	AA Ni-Cd×4
Room Temp. (20℃)	45 (30)	18 (12)
Low Temp. (−20℃)	0 (0)	12 (8)

Product Outline : This model enables the use of size AA cells in place of 2CR5, which is difficult to obtain in some areas as well as expensive.
Four LR6 alkali-manganese dry cells can be accommodated in the battery magazine concurrently with a 2CR5 in the grip.
Either one of the above can be selected for use by the battery changeover switch depending on the shooting conditions.
The appropriate battery for the conditions, for example, LR6 alkalines at normal temperatures, and the 2CR5 at low temperatures, can be selected. Size AA lithium cells cannot be used because their high initial voltage may damage circuits in the camera or lens. The BP-E-1 can also be used empty as a extension grip. Hand strap E1 can be used.
This battery pack provides a smaller, lighter, less expensive alternative to the Power Drive Booster E-1 for users who do not need the high seed continuous shooting of the PDB E1.

NAME : Battery Magazine E1
MARKETED : 1989
DIMENSIONS : 130×58×40 mm
PRICE :
WEIGHT : 45 g

This is the standard battery magazine for the Power Drive Booster E1 for EOS-1 and EOS-1N.
This magazine uses eight LR6 alkali-manganese cells.
This is concurrently used as the power source for the camera body and enables to feed approximately 65 rolls of 36 exp. film at room temperature.
If a spare magazine accommodating batteries is prepared, it can be used immediately when the battery runs out. AA Ni-Cd cells can also be used.

NAME : Battery Magazine BM-1
MARKETED : 1994
DIMENSIONS :
PRICE :
WEIGHT :

This is the dedicated battery magazine for use with Battery Pack BP-E1 for EOS-1 and EOS-1N.
This magazine accommodates four LR6 alkali-manganese cells or AA Ni-Cd cells.
If a spare magazine is prepared, it can be used immediately when the battery runs out.

NAME : Ni-Cd Pack E1
MARKETED : 1990
DIMENSIONS : 130×58×40 mm
PRICE :
WEIGHT : 225 g

This is the dedicated Ni-Cd pack for use with Power Drive Booster E1 for EOS-1 and EOS-1N.
This is concurrently used as the power source for the camera body and enables to feed approximately 45 rolls of 36 exp. film at room temperature.
It is particularly good at a low temperature, where it can feed approximately 30 rolls of 36 exp. film. It can be charged at a high speed in approximately 90 min using the dedicated Ni-Cd charger and allows approximately 500 recharges.

NAME : Ni-Cd Charger E1
MARKETED : 1990
DIMENSIONS : 160×81×45 mm
PRICE :
WEIGHT : 445 g (including the power cord)

This is the dedicated charger for use with Ni-Cd Pack E1. This enables high-speed charging regardless of the discharge volume or ambient temperature. (Operating temperature range is 0° to 40°) This enables charging of two Ni-Cd Pack E1, with switching is effected automatically. Charging time for one unit is approximately 90 min. Power input of 100 to 240 VAC and can be used in every country in the world if a plug adapter is used.
(The chargers with pertinent plug adapter are shipped to five particular destinations.) Power indication : The LED lights when input voltage is applied.

NAME : Remote Controller RC-1
MARKETED : March 1990
DISCONTINUED :
PRICE :
DIMENSIONS : 60×25×12.3 mm
WEIGHT : 15.5 g (without batteries)
POWER SOURCE : Lithium battery CR1220 - 2 pcs.
PRODUCT(S) USED ON:
EOS 10 (EOS 10S), EOS 100 (EOS ELAN),
EOS 55 (EIS ELAN II, EOS 50), EOS IX E (EOS IX)

This unit is an infrared remote control transmitter. It triggers the receiving section in the camera body.
When this unit and the camera body are positioned opposite to each other, this unit enables shutter operation from a distance of approximately 5 m.
Either of two modes : immediate release and release after 2 sec, can be selected.
This can be used conveniently for self-timer, bulb, close-up, and copying.
Enables approximately 20,000 transmission at the room temperature.
For convenience of carrying, the remote-control transmitter is so designed that it is fastened to the remote-control holder and then to the the neck strap of the camera body.
There is no battery check. The decrease in operating range can be used as the index for replacing batteries.

NAME : Remote Switch RS-60 E3
MARKETED : October 1993
DISCONTINUED :
PRICE :
DIMENSIONS : 8.5×14×22 mm (switch only)
WEIGHT : 25 g (including the cord and plug)
POWER SOURCE :
PRODUCT(S) USED ON:
EOS KISS (EOS REBEL X, EOS 500), EOS 55 (EOS ELAN II, EOS 500),
EOS IX E (EOS IX), NEW EOS KISS (EOS REBEL G, EOS 500N)

This is a remote switch that is equipped with a 2.5 mm mini-jack remote terminal and has the same functions as the Remote Switch 60T3.
Because of the different form of connection, this switch has no compatibility with T-series or conventional EOS terminal remote controller.
AF lock is available with a two-step switch which mimics the shutter button of the camera body.
This switch is most suitable for shooting using a tripod, or for close-up, and bulb shooting. Successive shootings as well as release lock corresponding to bulb shooting are available.
It can be used with limited functions of SW-2 ON-OFF by connecting to the 2.5 mm remote terminal of MD-FN for New F-1, etc.

NAME	: Wireless Remote Controller LC-3 Transmitter
MARKETED	: September 1994 DISCONTINUED :
PRICE	: (as a set including bracket and case)
DIMENSIONS	: 69×163×22 mm
WEIGHT	: 130 g (without batteries)
POWER SOURCE	: LR6 alkali-manganese dry cells - 4 pcs. AA Ni-Cd cells can be used, AA lithium cells cannot be used
PRODUCT(S) USED ON:	EOS&T series (with three-terminal remote-control socket)

Outline of the Product	: This is the transmitter of an infrared-flash wireless remote controller.
Transmission Button	: Two-step switch : Half press (SW-1), full press (SW-2)
Channel Mode	: A, B, C, and ALL When the channel mode is set to ALL, a single transmitter can operate multiple receivers simultaneously in the same field.
Battery Check	: It is OK if the ready lamp lights for approximately 1 to 2 sec after the main switch position was changed from OFF to ON.
Control Mode	: Single shooting, continuous shooting, Test, Delay
Others	: Equipped with tripod mounting screws (CU-1/4) and wrist strap (length : Approximately 16 cm)
Remote Socket	: Enables remote operation by Remote Switch 60T3.
PC Terminal	: Has input terminals.

NAME	: Wireless Remote Controller LC-3 Receiver
MARKETED	: September 1994 DISCONTINUED :
PRICE	: (Set)
DIMENSIONS	: 64×75×93 mm
WEIGHT	: 120 g (without batteries)
POWER SOURCE	: LR6 alkli manganese dry cells - 4 pcs. AA Ni-Cd cells can be used, AA lithium cells cannot be used
PRODUCT(S) USED ON:	EOS&T series (with a three-terminal remote-control socket)

Outline of the Product	: This is the receiver of an infrared-flash wireless remote controller.
Mounting Method	: Mount the receiver body on the accessory shoe of the camera and connect the three-terminal cord of the receiver to the remote socket of the camera. When mounting a flash, etc. on the accessory shoe of the camera, use the bracket concurrently.
Mounting Direction	: Can be turned over 360°
Main Switch	: ON (🔒), ISR (=One Step Release : SW-2 signal alone is output), OFF (○)
Verification of Operation	: Flashing on the indication lamp (red) : Test mode, Light for approximately 1 sec by half and full press ; single shooting mode, Momentarily lights by half press and lights for approximately 0.4 sec by full press; Delay mode, Flashes for approximately 3.5 by full press and light for approximately 0.4 sec after the shooting.
Battery Check	: OK if the indication lamp lights for approximately 1 sec after the main switch position was changed from OFF to ON or ISR.
Others	: Equipped with PC terminal.

Performance Items of Wireless Controller LC-3

Reaching Distance :

Alignment Angle Between the Transmitter and Receiver	Range
0°	100 m *
10° or less	80 m
20° or less	20 m

* The shooting distance can be extended by repeating multiple LC-3s.

Control Mode :

① Single shoot mode	Operates immediately when the transmission switch goes ON, a single shot is taken
② Continuous shooting mode	Operates immediately when the transmission switch goes ON, Successive shots are taken while the switch is ON
③ Test mode	Confirmation of communications between the transmitter and receiver
④ Delay mode	A shot is taken approximately 3.5 sec after the main switch goes ON

Number of Channels : Three channels of A, B, and C

Time Lag of Systen Operation :
Single shoot and continuous shooting modes :
Approximately 0.06 sec after waiting with SW-1 held SW-2 ON until cameras SW-2 signal ON
Single shoot and successive shooting modes :
Approximately 0.16 sec after simultaneous pressing of SW-1 and SW-2 until cameras SW-2 signal ON
Delay mode : Approximately 3.5 sec
ISR : (One Step Release : SW-2 signal alone is output) 0.06 sec

Number of Transmissions (Life of Battery) :

LR6 alkali-manganese cell (LR6)	: Approximately 4500 times
AA Ni-Cd cell (KR15/51)	: Approximately 2400 times
AA high-performance manganese cell (R6)	: Approximately 1800 times

Continuous Stand-by Time (Life of Battery) : LR6 : Approximately 100 hours

Wireless multi-flash Shooting : Wireless multi-flash shooting is possible by using the receiver as a slave unit.

Shooting with a Shorter Time Lag : If the main switch of the receiver is set to ISR in the state where the focus mode of the camera is set to M (manual) and focus adjustment is made preliminarily, shooting with a shorter time lag (0.06 sec) is enabled.

EOS Models with which LC-3 Can be Used : EOS-1NRS, EOS-1N, EOS-1, EOS 620
To connect the LC-3 to EOS 650, EOS 630 (EOS 600), or EOS RT, Grips GR20, which has a remote terminal is required.

NAME : AA Battery Pack BP-50

MARKETED : September 1995 DISCONTINUED :

PRICE :

DIMENSIONS : 157×86.5×68 mm

WEIGHT : 150 g (without batteries)

POWER SOURCE : LR6 alkali manganese dry cells - 4 pcs.
AA Ni-Cd cells can be used, AA lithium cells cannot be used, Lithium battery 2CR5 (mounting together with U3 batteries is not possoble)

PRODUCT(S) USED ON:
EOS 55 (EOS ELAN II, EOS 50)

This is a power source pack for direct coupling with camera body, which is equipped with a vertical position grip and a shutter button.
The functions of the battery pack and vertical grip are condensed into a compact, lightweight body.
2CR5 lithium batteries as well as AA dry cells, which are easily available in overseas, can be used (however, simultaneous use is not possible).
Enables to feed approximately 100 rolls of 24 exp. film with alkali-manganese cells are used, at the room temperature (+20°), without using flash.
For mounting the pack on EOS 55 (EOS ELAN II, EOS 50), first remove the lithium battery from the camera and insert the battery contact section on the pack side into the battery compartment of the camera. (In this case, the cameras battery cover is automatically accommodated in the pack). The pack is mounted and dismounted using the tripod screw.

NAME : Large-Capacity External Battery Pack BP-5B

MARKETED : September 1995 DISCONTINUED :

PRICE :

DIMENSIONS : 150×80×40 mm

WEIGHT : 185 g (including the 2CR5 dummy battery)

POWER SOURCE : Size D alkali manganese dry cells - 4 pcs.
Size D Ni-Cd cells can be used

PRODUCT(S) USED ON:
EOS55

This is a belt mounted external power source for the battery pack BP-50 used on the EOS 55 (EOS ELAN II, EOS 50).
Further enhanced power of EOS 55 (EOS ELAN II, EOS 50) can be expected when it is used with this Large-Capacity External Battery Pack BP-5B.
A sufficiently large capacity generated by four D cells give high power in large-volume shooting and at low temperature.
Enables to feed approximately 650 rolls of 24 exp. film using alkali-manganese cells, at the room temperature (+20°), and no flash.
This is used concurrently with Battery Pack BP-50.
This is composed of the external battery pack body and BP-50 battery compartment cover with a U groove for the cord.

NAME : Battery Pack BP-5

MARKETED : November 1993 DISCONTINUED :

PRICE :

DIMENSIONS : 150×80×40 mm

WEIGHT : 185 g (without batteries)

POWER SOURCE : Size D alkali manganese dry cells - 4 pcs.
Size D Ni-Cd cells - 4 pcs.

PRODUCT(S) USED ON:
EOS5

This is a dedicated external power source for the EOS 5 (EOS A2/A2E). It improves the film transport capacity of EOS 5 (EOS A2/A2E) especially in large-volume shooting and shooting at low temperature.
This pack uses four D cells and a dummy battery in the body of the EOS 5 (EOS A2/A2E).
Enables to feed approximately 300 films each consisting of 24 frames, which is a capacity approximately 7.5 times that of a lithium battery, under the conditions that alkali-manganese batteries are used, at the room temperature (+20°), and no flash shooting.
Enables to feed approximately 100 films each consisting of 24 frames at a low temperature of −20℃ when U1 Ni-Cd batteries are used.

NAME : Battery Pack BP-8

MARKETED : January 1995 DISCONTINUED :

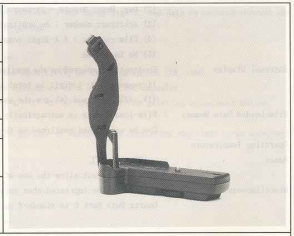
PRICE :

DIMENSIONS : 147.2×66.1×66.3 mm

WEIGHT : 95 g (without batteries)

POWER SOURCE : LR6 alkali manganese dry cells - 4 pcs.
AA Ni-Cd cells can be used, AA lithium cells cannot be used

PRODUCT(S) USED ON:
EOS KISS (EOS REBEL X, EOS500), EOS 888 (EOS 5000)



This is a battery pack that uses four AA cells, which are available everywhere in the world.
This is an accessory that is recommendable for those who are anxious about the availability of CR123 lithium cells during an overseas trip.
This pack is lightweight and compact, has functionally excellent design, and is equipped with hand strap to assure secure holding.
Number of films which con be transported when Battery Pack BP-8 is used with EOK KISS 24EX (36EX)

	LR6 Alkali-Manganese cell	AA Ni-Cd cell
Room Temp. (+20℃)	20/(10)	10/(6)
Low Temp. (−10℃)	—/(—)	7/(4)

To mount the pack on EOS KISS (EOS REBEL X, EOS500), first remove the lithium battery from the camera and insert the pack's dummy battery into the camera's battery compartment. (In this case, the camera's battery cover fits into a holder in the pack). The pack is mounted using the tripod screw.

3 Data Backs

NAME : Quartz Date Back E

MARKETED : March 1987 | DISCONTINUED : May 1992

PRICE :

DIMENSIONS : 147.7×58.4×24.7 mm

WEIGHT : 75 g (including batteries)

POWER SOURCE : Lithium battery CR2025 - 1 pc.
(An automatic battery check incorporated)

PRODUCT(S) USED ON:
EOS RT, EOS 630 (EOS 600), EOS 650, EOS 620

Type : Full-automatic data back with a built-in calendar function
Attachment : Back cover replacement using back-cover detaching pins
Digital Clock Accuracy : Monthly error ±30 sec (at 20℃)
System : Coupling with shooting operation, transparent LCD characters are projected through the film base face using a mini-lamp
Data Exposure : Automatic setting by ISO DX code
Verification Display : Operation verification mark (LCD) lights for 1 to 2 sec
Data Position and Size : Lower right corner of the horizontal picture, arranged horizontally. The height of characters is approximately 0.65 mm on the negative.
Auto-Calendar Function : An auto-calendar programmed over the period of 1987 to 2029
Data Types : (1) Date ① Year, Month, Day
② Month, Day, Year
③ Day, Month, Year
①, ② and ③ can be switched sequentially
Month in mode ② is the abbreviated month in English
(2) Day, Hour, Minute - 24-hour clock
(3) Arbitrary number : An arbitrary 6-digit number
(4) Film counter : A 4-digit coupled additive counter
(5) No insertion
External Display : Constantly displayed on the monitor panel with 7-segment LCD, 5 digits, 15-segment LCD, 1 digit, and 11-segment LCD, 1 digit (a total of 7 digits).
(1), (2), (3), and (4) are the same as data types. OFF is displayed for (5).
Film-Loaded Date Memory : Film-loaded date is automatically recorded and stored
Can be called and confirmed on the monitor LCD at any time by pressing a special button
Operating Temperature
Range : −10℃ to +45℃
(EOS RT does not allow the use of the RET mode, but standard equipment of EOS 630 (EOS 600))
Miscellaneous : Data cannot be imprinted when using the EOS RT in the RT mode.
Quartz Data Back E is standard on Japanese model EOS 630s.

3 Data Backs

NAME : Technical Back E

MARKETED : December 1987 | DISCONTINUED : July 1991

(including the keyboard unit E)

PRICE :

DIMENSIONS : 147.7×58.4×29.7 mm

WEIGHT : g (including batteries)

MAIN POWER SOURCE : Supplied from the camera body

BACKUP POWER SOURCE : CR2025 lithium cell - 1 pc.
(with an automatic battery check)

PRODUCT(S) USED ON:
EOS 620, EOS 630 (EOS 600), EOS 650, EOS RT

Type : Full-automatic data back with an LCD incorporating electronic memory function for exposure functions and auto-date function
Accessories : Interface unit TB, Keyboard unit E
Attachment : ① Back cover replacement using back-cover detaching pins (8-pin electrical contact)
② Connected with the interface unit TB and keyboard unit E with a 6-pin connector
Operating Temperature
Range : −20℃～+45℃
Data Position : Lower right corner of the picture in the horizontal position
(When the number of characters is less than 30, they are aligned to the left.)
Character form and Size : 5×7 dot matrix, the height of characters: approximately 0.75 mm on the negative
Auto-Calendar Function : An auto-calendar programmed to 2029.
Digital Clock Accuracy : Monthly error is ±15 sec or less at room temperature 20℃ and a humidity of 60 %
Insertion Method : The contents at the time of shooting are once stored an the RAM, rewinding speed is detected when the film is rewound, red LED consisting of vertical 7 dot array lights, and data is painted through the film base via an image-forming optical system.
Printing Verification
Display : Verification mark lights for 1 to 2 sec
Data Exposure : ① 8-step switching corresponding o the sensitivity of the film in use (DX code).
However, the selection of color or monochrome film is effected manually.
② Can be compensated to the + side (+1, +2, +3) by the use of the printing adjustment button

This back has been developed for automatic recording and insertion to picture of various data concerning shootings as an accessory for EOS 620 and EOS 650.

Functions of the Data Back

Data Types : (1) Date ① Year, Month, Day ②, ② and ③ can be switched sequentially
② Month, Day, Year
③ Day, Month, Year
(2) Time : Hour, Minute, Second
(3) Exposure data : shutter speed, lens operate
(4) Focal length (in the case of a zoom lens, the focal length that was used)
(5) Shooting (exposure) mode
(6) Auto film counter value (4 digits)
Or either one select out of Film No. or Frame
(7) Arbitrary comments
① Alphabet (can be input on the Technical Back E)
② Numerals (can be input on the Technical Back E)
③ Katakana (to be input using the Keyboard Unit E)
④ Characters (to be input using the Keyboard Unit E)
(8) No insertion

Combination : Of the above 1 to 7, a combination of up to three items that are selected arbitrarily can be used

Maximum Data Digits : Up to 30 digits/frame

Confirmation of Memory Contents : Can be confirmed on the monitor panel and contents can be corrected before rewinding is started

Data Storage Functions

Items of Storage Data : Those based on the control signals from the camera
① Shutter speed
② Lens aperture
③ Light measuring mode
④ Normal shooting mode (Shutter priority AE, Aperture priority AE, Programmed AE mode, Depth-of-field AE mode, Manual mode)
⑤ Flash mode (A-TTL automatic flash AE mode, TTL automatic flash AE mode, Manual flash mode)
⑥ Number of shots taken (value of the film counter on the camera)
⑦ Lens focal length (at the time of shooting)
⑧ Name of the lens used (focal length, Maximum aperture)
⑨ ISO film sensitivity
⑩ Exposure compensation
⑪ Presence or absence of auto-bracketing
⑫ Presence or absence of multiple shooting and number of shots
⑬ Presence or absence of alarm of exposure (high intensity/low intensity alarm)
⑭ Presence or absence of second-curtain flash sync
Based on the built-in functions of Technical Back E
⑮ Auto-calendar (Year, Month, Day)
⑯ Either one selected out of auto film counter or film No.
⑰ Time (Hour, Minute, Second: 24-hour clock)
⑱ Comment (up to 30 digits)

Storage Timing : Coupled with shutter release

Storage Mode and Memory Capacity : By 8K-byte RAM
(1) Standard mode - Approximately 361 frames All storage data of ① to ⑱ on the previous page
(2) Condensed mode - Approximately 824 frames ① to ⑦ and ⑱ on the previous page
(3) Digital display of residual capacity and inverse counting. FULL is displayed when the residual capacity has become zero

Storage Data Content

Display : (1) After the shooting, the following recorded data are (constantly) displayed on the monitor panel and can be searched :
① to ⑦, ⑨, ⑩, ⑬ to ⑱. However, ⑤ indicates either presence or absence of stroboscopic shooting
(2) Displayed on the CRT monitor screen via Interface Unit TB and MSX PC :
⑤, ⑧, ⑪ to ⑭

Clearing Storage Contents : (1) Storage data are dumped on the MSX PC or Keyboard Unit E via Interface Unit TB and then cleared.
(2) After setting the memory clear mode, arbitrary clear of all storage data is enabled by clear button ON.

Programming Functions

Input System : Input of a programmed AE chart on the monitor panel (two types can be input, either one is selected and used at the time of shooting)

External Display : Display of a programmed AE chart on the monitor panel in the form of LCD dot matrix graphics

AE Control : The shutter speed and lens opening value are automatically set from the program input to Technical Back E based on the measurement of light by the camera and sent to the camera. Input is possible within the range of f/1.0 to f/32.
When programmed AE is set, display is automatically switched to that coupling with the open F/No. of the lens used.

Concurrent use with Flash : When a flash is used with the battery fully charged, priority of exposure control is given to the camera

Auto-Bracket (AEB) Mechanism

System : Using the exposure value that is automatically set the camera or Technical Back E as a reference (0), exposure compensation is performed automatically (compensation, exposure levels at the initial stage of shooting, compensating direction, and number of shots are set manually).

Compensation Setting of Compensation : −2.0 to +2.5 in steps of 0.25

Starting Level : −5.0 to +5.0 in steps of 0.25

Setting of Shots : 1 to 9

Sequence of Shootings : Shootings are performed in sequence from the over side with the step has a minus sign and from the under side when it has a plus sign

External Display : During the execution of AEB (shooting), the compensation value from the reference exposure value, residual number of shots, etc. are displayed on the panel

Flash Contradiction : When a stroboscope is used with the battery fully charged, the set AEB is automatically canceled

Timer Control Functions

Mode : (1) Timer A : Self timer/interval timer for shooting
(2) Timer B : Self timer/long time exposure timer
The range of time that can be set on the timer is 1 sec to 99 hr, 59 min, 59 sec.
The number of shots in a session on Timer A is 1 to 8. The number of repetitive operations is 1 to 99.
The lens aperture of Timer B is f/1.0 to f/32 (set manually)
Either of (1) or (2) is selected and used

Operation : Operation starts by start button ON of Technical Back E. When the self timer or interval timer is operating, SW-1 ON signal is output 1 min before the release and AF operates and ON signal is output 5 min before the release.
Further, count-down is displayed on the monitor while the self timer or interval timer is operating.

3 Data Backs

NAME : Keyboard Unit E

MARKETED : December 1987 | DISCONTINUED : July 1991

PRICE : (Sold as a set with Technical Back E)

DIMENSIONS : 117.5×11×59 mm

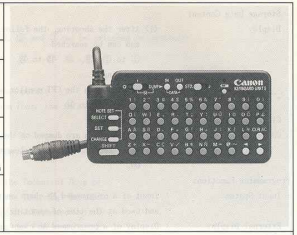
WEIGHT :

POWER SOURCE : Lithium battery CR2025 - 2 pcs. (6 V)

The LED performs three-step display by pressing the battery check button

PRODUCT(S) USED ON:

Dedicated for Technical Back E



Type : A portable keyboard equipped with 10 keys and alphabetical keys

Attachment : Cord with 6-pin plugs (length : 310 mm)

Keyboard Functions : Setting of the data for Technical Back E and comments for the data memory

Types of Input : Alphanumeric characters, Alphabetic characters are upper case only
Input by Alphabetic characters can be converted into Katakana

Memory Function : A single unit of Keyboard Unit E can store comments of up to 30 digits and four types of memory Data is input to Technical Back E by the operation of the Change key

Data Dump Function : Function for expanding the data memory for Technical Back E to the outside of the RAM

Technical Back E→→ : Keyboard Unit E
After the dump mode has been set, the memory data in Technical Back E is transferred to Keyboard Unit E by the operation of the dedicated key

Keyboard Unit E→→ : Technical Back E
After the dump mode has been set, the memory data in Keyboard Unit E is transferred to Technical Back E

Verification of Dump : Dump verification lamp (LED) lights for 1 sec

Power Supply to Technical PACK : Power supply is effected by connecting Keyboard Unit E to Technical Back E
Both Technical Back E and Keyboard Unit E become operable

Display : Display on the monitor panel of Technical Back E

Operating Temperature Range : −20℃ to +45℃

3 Data Backs

NAME : Interface Unit TB (MSX)

MARKETED : December 1987 | DISCONTINUED : July 1991

PRICE :

DIMENSIONS : 109×120×18 mm

WEIGHT : 160 g

POWER SOURCE : Supplied from the MSX personal computer

PRODUCT(S) USED ON:

Technical Back E, MSX personal computer, software : cassette tape

Outline of the Product : This is an intermediate device for communications between Technical Back E and an MSX personal computer.

Connection : (To Technical Back E) Connection cord and 6-pin connector.
(To MSX personal computer) Insertion of this model into the slot.

Object Computers : MSX personal computers mounting a RAM of 16K byte or more

Contents of Programs : Have the same specifications with Interface Units D, M, and B for T90 except details

- The programs of Interface Units can handle Katakana and Alphanumeric characters
- Programming functions are executed by selecting the commands defined on each function key
- While the program is running, commands are displayed on the bottom line of the CRT screen

(1) The program to read all data stored in Technical Back E into the personal computer

(2) The program to insert into picture the data of Technical Back E and input the comments for the data storage function (max. 30 characters x four types) from the personal computer and set them to Technical Back E (Keyboard Unit is also available)

(3) The program to display the shooting data read into the personal computer on the CRT screen
① Displays all shooting data for a single frame on the CRT screen
② Displays shooting data for six frames on the CRT (part of data is not displayed)
③ Retrieves arbitrary data among from the data read into the personal computer and displays it on the CRT screen
④ Correction, addition, deletion of comments (max. 30 characters) stored for each frame

(4) The program to print all data read into the personal computer on the printer

(5) The program to print the data displayed on the CRT screen by the printer

(6) The program to store the data read into the personal computer on the cassette tape recorder

(7) The program to read the data stored in cassette tape into the personal computer

(8) Creation of characters : Arbitrary characters can be created using the space for 30 characters each consisting of 5×7 dot matrix. Characters, etc. created can be set on Technical Back E as comments.

(9) Reservation of data types : Contents of data types for max. 36 frames can be reserved. Reserved data is set on Technical Back E as a batch and the content of data types is replaced at each release of the shutter.
Concurrent use with the built-in interval timer of Technical Back E or the following program timer is possible.

(10) Program timer : Can be used only when the Interface Unit is connected to Technical Back E.

3 Data Backs

NAME : Interface Unit TB (IBM PC)

MARKETED : December 1987 | DISCONTINUED : July 1991

PRICE :

DIMENSIONS : 200×86×26.5 mm Code Length : 838 mm

WEIGHT : 240 g (without batteries)

POWER SOURCE : U3 battery - 4 pcs.

PRODUCT(S) USED ON:

Technical Back E, IBM PC and PC-XT personal computer ※

Software : 5-inch floppy disk

Outline of the Product : This is an intermediate device for communications between Technical Back E and IBM PC personal computer.

Connection : (To Technical Back E) Connection cord and 6-pin connector.
(To the above mentioned personal computer) Socket for RS232 plug.

Contents of Programs : Have the same specifications with Interface Units D, M, and B for T90 except details

- Programming functions are executed by selecting the commands defined on each function key
- While the program is running, commands are displayed on the bottom line of the CRT screen

(1) The program to read all data stored in Technical Back E into the personal computer

(2) The program to insert into picture the data of Technical Back E and input the comments for the data storage function (max. 30 characters x four types) from the personal computer and set them to Technical Back E (Keyboard Unit is also available)

(3) The program to display the shooting data read into the personal computer on the CRT screen
① Displays shooting data for six frames on the CRT (part of data is not displayed)
② Retrieves arbitrary data among from the data read into the personal computer and displays it on the CRT screen
③ Correction, addition, deletion of comments (max. 30 characters) stored for each frame

(4) The program to print all data read into the personal computer on the printer

(5) The program to print the data displayed on the CRT screen by the printer

(6) The program to store the data read into the personal computer on the cassette tape recorder

(7) The program to read the data stored in cassette tape into the personal computer

(8) Creation of characters : Arbitrary characters can be created using the space for 30 characters each consisting of 5×7 dot matrix. Characters, etc. created can be set on Technical Back E as comments.

(9) Reservation of data types : Contents of data types for max. 36 frames can be reserved. Reserved data is set on Technical Back E as a batch and the content of data types is replaced at each release of the shutter.
Concurrent use with the built-in interval timer of Technical Back E or the following program timer is possible.

(10) Program timer : Can be used only when the Interface Unit is connected to Technical Back E.

※ However, the above mentioned personal computer shall be equipped with a printer interface board and RS232 interface board.

3 Data Backs

NAME : Command Back E1

MARKETED : September 1989 | DISCONTINUED :

PRICE :

DIMENSIONS : 152.5×60.1×28.2 mm

WEIGHT : 85 g (including batteries)

POWER SOURCE : Lithium battery CR2025 - 1 pc.
(An automatic battery check incorporated)

PRODUCT(S) USED ON:

EOS-1, EOS-1N

Type : Full-automatic data back with an LCD-type quartz digital calendar and timer function

Attachment : Back cover replacement using back-cover detaching pins

Digital Clock Accuracy : Monthly error ±15 sec (at a temperature between +10℃ and +30℃, 60%RH)

Imprinting System : Coupling with shooting operation, transparent LCD characters are projected from the film base face using a mini-lamp and then inserted

Printing Data Exposure : Automatic setting corresponding to ISO25 to 3200 with no display of ISO value. The insertion level can be compensated to the plus side

Verification Display : Inserting operation verification mark (LCD) lights for 1.5 to 2 sec

Data Position and Size : Lower right corner of the horizontal picture, arranged horizontally. The height of characters is approximately 0.7 mm on the negative film

Data Types : Displayed with 7 segments x 6 digits
① Year, Month, Day (can be switched sequentially in the order of Year, Month, Day ; Day, Month, Year ; and Month, Day, Year. Auto-calendar : For the period of 1985 to 2029 (automatic adjustment for large and small months and leap years)
② Day, Hour, Minute (24-hour expression)
③ Registered number (an arbitrary 6-digit number and A to F, display of blanks by English symbols)
④ Film counter (coupling with shootings, A 4-digit of FC1 to 9999)
⑤ OFF (no insertion)

External Display : Constantly displayed on the monitor panel with 7-segment LCD - 6 digits.
① to ④ are the same as data types, OFF is displayed for ⑤.

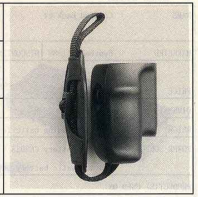
Successive Printing Speed : Max. 4 frames/sec (ISO100)
- When Power Drive Booster E1 is attached, speed lowers by approximately 1.1 frame/sec as compared with the state of no Command Back.

Timer Functions : ① Self timer to shoot after a certain period
② Interval timer to shoot at fixed intervals
③ Long release timer to allow time exposures
④ Number of shots limiting function. Shooting stops after the specified number of shots have been taken. Can be set in the range of 1 to 99.
All in ①, ②, and ③, the time can be set arbitrarily between 1 and 23 hr, 59 min, 59 sec in steps of 1 sec.

Display of Timer Mode : In each of ①, ②, and ③, the specified mode is indicated by lighting of the ▲ mark (LCD). Data is displayed by 7 segments x 6 digits. In ④, display of the ▲ mark and the number of shots, by 7 segments x 2 digits.

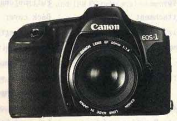
Combination : Timer functions ① to ④ can be combined arbitrarily each other. A combination of data insertion and a timer function is also available.

NAME : Grip GR50 (action grip)
MARKETED : 1988
DISCONTINUED : 1990
DIMENSIONS : Strap 71×101 mm
Grip 52.3×84.9×69.1 mm
PRICE :
WEIGHT : 65 g



This is a detachable grip with hand strap.
Mounting and dismounting are performed using a screw with groove for a coin.
PRODUCT(S) USED ON: EOS 750, EOS 850, EOS 700

NAME : Grip GR-E1
MARKETED : 1989
DIMENSIONS : 72.6×63×52.2 mm
PRICE :
WEIGHT : 50 g



This is a grip used with a camera body without a Power Drive Booster E1 or Battery Pack BP-E1, An ergonomic form is provided for this grip using slip-proof and soft-feeling rubber material so that it can be held securely at any time.
Standard equipment for the EOS-1 and EOS-1N.

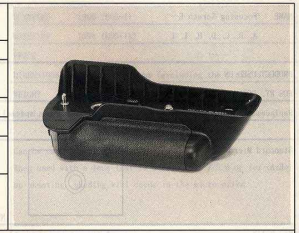
NAME : Grip GR60
MARKETED : 1990
DISCONTINUED : 1991
DIMENSIONS : Strap 72×130 mm
Grip 151.8×34.7×33.1 mm
PRICE :
WEIGHT : 135 g

This is an extension grip of integrated type to be screwed into the hole for the tripod at the bottom of the camera.
This is equipped with a hand strap to provide excellent holdability and operability and is particularly effective for preventing camera shake during telephoto shooting.
PRODUCT(S) USED ON: EOS 10 (EOS10S)

NAME : Grip GR70
MARKETED : 1991
DISCONTINUED : 1996
DIMENSIONS : Strap 11×465 mm
Grip 143.2×40×67.2 mm
PRICE :
WEIGHT : 127 g

This is an extension grip of integrated type to be screwed into the hole for the tripod at the bottom of the camera.
This is equipped with a hand strap to provide excellent holdability and operability and is particularly effective for preventing camera shake during telephoto shooting.
PRODUCT(S) USED ON: EOS 100 (EOS ELAN), EOS 1000QD (EOS REBEL), EOS 1000S (EOS REBEL II, 1000N)

NAME : Vertical Positioning Grip VG10
MARKETED : October 1992
DISCONTINUED : July 1996
PRICE :
DIMENSIONS : 150×51.1×76.2 mm
WEIGHT : 230 g
POWER SOURCE :
PRODUCT(S) USED ON:
EOS 5 (EOS A2/A2E)



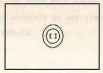
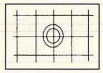
This is a vertical-positioning grip for the EOS 5 (EOS A2/A2E). It is equipped with a shutter button, main electronic dial, AE lock button, and focus point selecting button.
When this grip, which provides excellent holdability, is mounted, it enables shooting in the vertical position with the same feeling as shooting in the horizontal position.
Hand Strap E1 (separately sold) can be attached to this grip.

NAME : Grip GR-80TP
MARKETED : October 1993
DISCONTINUED :
PRICE :
DIMENSIONS : 142×36.5×55 mm (grip body)
WEIGHT : 316 g (including the hand strap)
POWER SOURCE :
PRODUCT(S) USED ON:
EOS KISS (EOS REBEL X, EOS 500),
NEW EOS KISS (EOS REBEL G, EOS 500N)

Type : Detachable grip with a built-in mini-tripod and hand strap
This is an extension grip of new concept with a built-in mini-triped, which is indispensable for trips, etc. When the tripod is opened, the camera can be used conveniently for low-angle shooting and shooting of night scenes as well as shooting with the self timer. The vertical and horizontal positions and tilting angle can be adjusted freely.
When the tripod is closed, it is integrated with the camera body. In combination with the hand strap, this grip provides excellent holdability during a hand-held shooting.
Works well with lightweight, compact EF lenses like the EF28 to 80mm, EF35 to 80mm, or EF35 to 105mm.
Mounting and Dismounting : Attaches to the tripod socket.

NAME : Focusing Screen E— A, B, C, D, H, I, L	MARKETED : April 1987 DISCONTINUED : March 1991 PRICE :
PRODUCT USED ON : EOS RT, EOS 630 (EOS 600), EOS 620, EOS 650	DIMENSIONS : 38.6×3.6×26.1 mm (excluding the projections) WEIGHT : 3 g

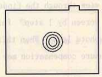
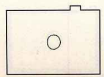
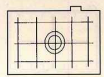
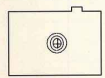
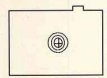
Replacement of the focusing screen is performed using a special tool through the lens mount opening.

TYPE OF FOCUSING SCREEN		USE AND FEATURES
Standard Micro E-A	 N	Can be used for all lenses. When used with a lens that is darker than *f*/5.6 or for close-up shooting, shading will occur in the micro-prism.
New Split E-B	 N	Can be used for all lenses. When used with a lens that is darker than *f*/5.6 or for close-up shooting, shading will occur in a split-image rangefinder but this is reduced by the "NEW SPLIT" double angle prism.
All Laser Matte (with AF frame) E-C	 N	Focusing is possible over the entire screen. Can be used for all lenses.
Laser Matte With Grid E-D	 L	Can be used for all lenses. Scale lines are provided, which are useful for deciding the composition. This is indispensable when using a TS-E lens. Also suitable for copying using a macro lens.
Laser Matte With Scales E-H	 L	Can be used for all lenses. Useful for close-up, photomacrography and microscopic photography. Scale lines are provided at the center and peripheral areas, which are useful for deciding the magnification of shooting and the composition.
Laser Matte With Cross Hair E-I	 L	A cross hair is provided at the center. Focusing is enabled by the image and this cross. When moving the eye laterally, if the image in the transparent area does not move with respect to the cross, the focus is correct. This is effective for astrophotography as well as microphotography.
Cross Split E-L	 L	Focusing using the vertical and horizontal lines is possible. When used with a lens that is darker than *f*/5.6 or for close-up shooting, shading will occur in the split section.

L : Laser matte N : New laser matte B : Bright laser matte

NAME : Focusing Screen Ec— A, B, C, C II, D, H, I, L, K, R	MARKETED : 1989 (EOS-1) MARKETED : 1994 (EOS-1N) PRICE :
PRODUCT USED ON : EOS-1, EOS-1_N, EOS-1_{NS}	DIMENSIONS : 38.6×2×26.1 mm (excluding the projections) WEIGHT : 3 g

Replacement of the focusing screen is performed using a special tool through the lens mount opening.

TYPE OF FOCUSING SCREEN		USE AND FEATURES
Standard Micro Ec-A	 L	Can be used for all lenses. When used with a lens that is darker than *f*/5.6 or for close-up shooting, shading will occur in the micro-prism.
New Split Ec-B	 L	Can be used for all lenses. When used with a lens that is darker than *f*/5.6 or for close-up shooting, a shade will occur in the split but can be eliminated by setting double echellette.
Laser Matte (with AF frame) Ec-C	 L	Standard equipment for EOS-1. Focusing is possible over the entire screen. Can be used for all lenses.
Laser Matte Ec-C II	 L	Standard equipment for EOS-1N. Focusing is possible over the entire screen. Can be used for all lenses.
Laser Matte With Grid Ec-D		Can be used for all lenses. Scale lines are provided, which are useful for deciding the composition. This is indispensable when using a TS-E lens. Also suitable for copying using a macro lens.
Laser Matte With Scales Ec-H	 L	Can be used for all lenses. Useful for close-up and magnified shooting and microscopic shooting. Scale lines are provided at the center and peripheral areas, which are useful for deciding the magnification of shooting and the composition.
Laser Matte With Cross Hair Ec-I	 L	A cross hair is provided at the center. Focusing is enabled by the image and this cross. When moving the eye laterally, if the image in the transparent area does not move with respect to the cross, the focus is adjusted. This is effective for taking photos of stars as well as microscopic shooting.
Cross Split Ec-L	 L	Focusing using the vertical and horizontal lines is possible. When used with a lens that is darker than *f*/5.6 or for close-up shooting, shading will occur in the split section.

L : Laser matte N : New laser matte B : Bright laser matte

5 Viewfinders

NAME : Focusing Screen Ec– A, B, C, C II, D, H, I, L, K, R	MARKETED : 1989 (EOS-1)
	MARKETED : 1994 (EOS-1N)
	PRICE :
PRODUCT USED ON : EOS-1, EOS-1$_N$, EOS-1$_{HS}$	DIMENSIONS : 38.6×3.6×26.1 mm (excluding the projections)
	WEIGHT : 3 g

Replacement of the focusing screen is performed using a special tool through the lens mount opening.

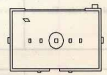
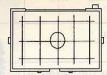
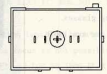
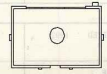
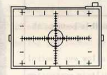
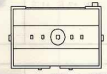
TYPE OF FOCUSING SCREEN	USE AND FEATURES
Bright Laser Matte Ec-K  N	The view through the finder is brighter than that of the laser mat screen by 1 step. Particularly used for shooting using a telephoto lens. When this is mounted on EOS-1 or EOS-1N, exposure compensation may be required depending on the lens in use. Although Ec-K can be installed using the special tool, installation should be performed at a service center.
New Laser Matte Ec-R  N	Standard equipment for EOS-1NRS. This is approx. 0.5 step brighter than Ec-CII, which not only compensates the loss of light due to the police mirror of the EOS-1NRS but also improves the overall view of the image in the finder. This is a new laser mat with a mark for fine spot light measurement. Can be used for all EF lenses. When it is mounted on EOS-1 or EOS-1N, exposure compensation may be required depending on the lens in use.

L : Laser matte N : New laser matte B : Bright laser matte

5 Viewfinders

NAME : Focusing Screen Ed– A, B, C, D, H, I, L	MARKETED : 1992
	PRICE :
PRODUCT USED ON : EOS 5 (EOS A2/A2E)	DIMENSIONS : 37×2×24.2 mm (excluding the projections)
	WEIGHT : 1.5 g

Replacement of the focusing screen is performed using a special tool through the lens mount opening.

TYPE OF FOCUSING SCREEN	USE AND FEATURES
With AF Frame Ed-Ne  N	Standard equipment for EOS-5. Equipped with five AF frames and a depth-of-field confirmation mark. Can be used for all lenses.
Laser Matte With Grid Ed-D  N	Can be used for all lenses. Scale lines are provided, which are useful for deciding the composition. This is indispensable when using a TS-E lens. Also suitable for copying using a macro lens.
With Sensor Marks (| |+| |) Ed-O  N	Can be used for all lenses. Has five AF sensor marks.
Whole-Area Laser Matte Ed-C  N	Can be used for all lenses. Focusing is possible over the entire screen.
Laser Matte With Scales Ed-H  N	Can be used for all lenses. Useful for close-up and magnified shooting and microscopic shooting. Scale lines are provided at the center and peripheral areas, which are useful for deciding the magnification of shooting and the composition.
Laser Matte With Panorama Lines Ed-P  N	Can be used for all lenses. This screen is convenient for deciding the composition during panorama shooting.

L : Laser matte N : New laser matte B : Bright laser matte

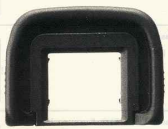
NAME : Dioptric correction lens E
MARKETED : 1987
DIMENSIONS : 51.1×37.7×11.4 mm
PRICE :
WEIGHT : 10 g

This is a Dioptric correction lens for those EOS cameras that are not equipped with eye control focus.
Enables shortsighted or farsighted people to take photos without using glasses.
Ten diopters : +3, +2.5, +1.5, +1, +0.5, 0, -0.5, -2, -3, and -4 dpt are available.
This is used by attaching to Rubber Frame Ec, Rubber Frame Ed, or Rubber Frame Eb.

NAME : Dioptric correction lens Ee
MARKETED : 1996
DIMENSIONS : 40×28×12 mm
PRICE :
WEIGHT : 8 g

This is the Dioptric correction lens for EOS IX E (EOS IX) and is compatible with eye control focus when it is mounted on EOS IX E (EOS IX).
Enables shortsighted or farsighted people to take photos without using glasses.
Ten diopters : +3, +2.5, +1.5, +1, +0.5, 0, -0.5, -2, -3, and -4 dpt are available.
This is mounted on the eyepiece from the top and locked by clicking.

NAME : Dioptric correction lens Ed
MARKETED : 1992
DIMENSIONS : 51.1×37.7×11.4 mm
PRICE :
WEIGHT : 10 g



With the normal Dioptric correction lens E, eye control focus is not possible because the IREDs are blocked.
This lens has been lengthened vertically to correct this problem and allow eye control focus to work properly. It can also be used on the EOS A2, which has built-in correction (-1±1.75 dpt), to increase the range of compensation. Ten diopters : +3, +2.5, +1.5, +1, +0.5, 0, -0.5, -2, -3, and -4 dpt are available.

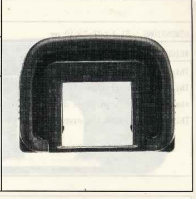
NAME : Rubber Frame Eb
MARKETED : 1988
DIMENSIONS : 48.1×27.8×12.1 mm
PRICE :
WEIGHT : 8.5 g

This is used for EOS 10 (EOS 10S), EOS 100 (EOS ELAN), EOS 1000 (EOS REBEL), EOS 1000S (EOS REBEL II), EOS 700, EOS 750, EOS 800, and EOS KISS (EOS REBEL X, EOS 500).
This is used with Dioptric correction lens Ed mounted.
This is mounted on the eyepiece from the top and locked by clicking.

NAME : Rubber Frame Ec
MARKETED : 1989
DIMENSIONS : 51.1×33.9×12 mm
PRICE :
WEIGHT : 7 g

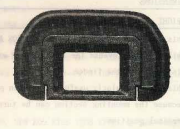
This is used for EOS-1, EOS-1N, and EOS-1NRS.
It can be used with Dioptric correction lens E mounted.
It is mounted on the eyepiece from the top and locked by clicking.
Although EOS-1, etc. has a built-in diopter adjusting mechanism (±2 dpt), Dioptric correction lens E can be used concurrently because the range may be insufficient for the necessary diopter compensation.

NAME : Rubber Frame Ed
MARKETED : 1992
DIMENSIONS : 51.1×37.7×15 mm
PRICE :
WEIGHT : 10 g



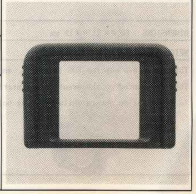
This is the eye cup for the Dioptric correction lens Ed that enables eye control focus ion the EOS 5 (EOS A2/A2E) and 55 (EOS ELAN II, EOS 50). They can also be used on the EOS A2.
Note : If the normal Dioptric correction lens E in mounted on the EOS 5 (EOS A2/A2E) or 55 (EOS ELAN II, EOS 50), eye-control focus is not possible.
Products used on : EOS 5 (EOS A2/A2E) and EOS 55 (EOS ELAN II, EOS 50).

NAME : Eye Cup E
MARKETED : 1987
DISCONTINUED : 1991
DIMENSIONS : 49.6×27×11.3 mm
PRICE :
WEIGHT : 5.5 g (6 g in the case of standard eye cup)



This is the eye cup for use with EOS 620, EOS 650, EOS 630 (EOS 600), and EOS RT.
This is mounted on the eyepiece from the top and locked by clicking.

NAME : Eye Cup Ee
MARKETED : 1996
DIMENSIONS : 40×28×12 mm
PRICE :
WEIGHT : 5.5 g (6 g in the case of standard eye cup)



This is the eye cup for use with EOS IX E (EOS IX).
This is mounted on the eyepiece from the top and locked by clicking.

NAME : Eye Cup Ec

MARKETED : 1989
DISCONTINUED : 1994

DIMENSIONS : 51.1×34.1×12 mm

PRICE :

WEIGHT : 8 g

This is mounted on the eyepiece by inserting from the top (with lock).
To dismount, slide upward by holding both ends while pressing the portion punched as "PUSH".
OBJECT PRODUCT : EOS-1

NAME : Eye Cup Ed

MARKETED : 1992

DIMENSIONS : 51.1×37.7×10 mm

PRICE :

WEIGHT : 7.6 g

This is an eye cup for EOS 5 (EOS A2/A2E).
This eye cup is prepared for exclusive use with EOS 5 (EOS A2/A2E), which has an eyepiece that is larger than those of conventional EOS cameras.
This is mounted on the eyepiece from the top and locked by clicking.

NAME : Eye Cup Ed-E

MARKETED : 1992

DIMENSIONS :

PRICE :

WEIGHT :

This is a large eye cup for EOS 5 (EOS A2/A2E) and EOS 55 (EOS ELAN II, EOS 50).
This eye cup prevents the intrusion of external light including sunlight to improve the visibility of the finder.
This is particularly useful when taken photos with glasses.
Because the mounting section can be turned, this can also be used for shooting in the vertical position.

NAME : Eye Cup Ec-II

MARKETED : 1994

DIMENSIONS : 50.8×33.9×12 mm

PRICE :

WEIGHT : 8 g

This is an eye cup for EOS-1, EOS-1N, and EOS-1NRS.
This is mounted on the eyepiece by inserting from the top (with lock).
To mount, slide upward while pressing both sides.

NAME : Eye Cup Eb

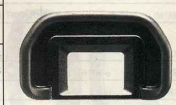
MARKETED : 1988

DIMENSIONS : 48.1×27.8×10 mm

PRICE :

WEIGHT : 6 g

This is an eye cup for EOS 10 (EOS 10S), EOS 100 (EOS ELAN), EOS 1000 (EOS REBEL), EOS 1000S (EOS REBEL II), EOS 700, EOS 750, EOS 850, EOS KISS (EOS REBEL X, EOS 500), NEW EOS KISS (EOS REBEL G, EOS 500N).
This is mounted on the eyepiece by inserting from the top (with lock).



NAME : Eyepiece Extender EP-EX15

MARKETED : October 1993

PRICE :

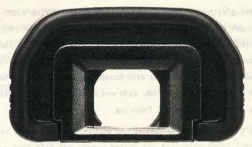
DIMENSIONS : 49.2×28.6×20.3 mm

WEIGHT : 20 g

POWER SOURCE :

PRODUCT USED ON :

Those EOS cameras that use Eye Cup Eb *



TYPE : Eyepiece extender to be mounted on the eye cup mounting section (Consisting of two plastic lenses and external parts)

MOUNTING AND DISMOUNTING : Mounted on and dismounted from the eyepiece of the camera by sliding

EYE POINT WITH THIS EXTENDER MOUNTED : 15 mm, the magnification of the extended finder is 0.5X

This is a accessory to extend the eyepiece backward by 15 mm. This eliminates the uncomfortable feeling due to the contact of the tip of the nose to the camera body that occurs when the camera is held. This also eliminates make-up wearers of the fear of damaging their makeup.

* EOS10/100, EOS KISS (EOS REBEL X, EOS 500), EOS 1000QD/1000S, EOS RT, EOS 700/750/850, NEW EOS KISS (EOS REBEL G, EOS 500N)
* Although so this can also be mounted on EOS-1 and EOS-1N, this cannot be used concurrently with eye cup in that case.

NAME : Angle Finder Adapter Ed

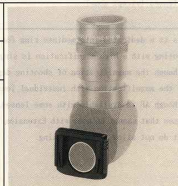
MARKETED : 1992

DIMENSIONS : 30×28.5×6.7 mm

PRICE :

WEIGHT : 6.7 g

This is used for EOS 5 (EOS A2/A2E) and EOS 55 (EOS ELAN II, EOS 50), EOS IX E (EOS IX).
This is provided to enable the mounting of Angle Finder B on EOS5, etc.
This is mounted on Angle Finder Ed by screwing.
This is mounted on the eyepiece from the top and locked by bayonet.
If Angle Finder B is mounted on EOS5, etc., eye control focus does not function.



NAME : Extension Tube EF25

MARKETED : October 1990 DISCONTINUED :

PRICE : (including the case)

DIMENSIONS : φ 67.6×27.3 mm

WEIGHT : 125 g

POWER SOURCE :

PRODUCT USED ON :
EF lenses (except some)

This is a dedicated intermediate ring for close-up shooting for use with EF lenses.
Shooting with high magnification is single. Having eight electronic contacts, this extension tube enables normal AE function.
Although the magnification of shooting depends of the lens in use, it is 0.7 or more in case where a standard zoom lens is used.
For the magnification with individual lenses, refer to the details for each product.
Although AF is available with some lenses, manual focusing or focus aid are more desirable.
Lenses that cannot be uses with Extension Tube EF25 : EF14mm *f*/2.8LUSM, EF15mm *f*/2.8 fish eye, EF20 mm *f*/2.8USM, EF50mm *f*/1.0LUSM, EF20 to 35mm *f*/3.5 to 4.5USM, wide end of EF17 to 35mm *f*/2.8LUSM, wide end of EF20 to 35mm *f*/2.8LUSM, TS-E45mm *f*/2.8, and other lenses that do not allow manual focusing.

NAME : Extension Tube EF12

MARKETED : 1995 DISCONTINUED :

PRICE : (including the case)

DIMENSIONS : φ 66.5×12.3 mm

WEIGHT : 66 g

POWER SOURCE :

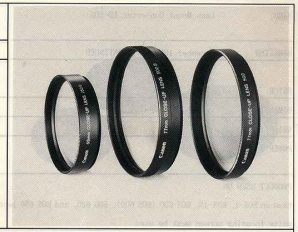
PRODUCT USED ON :
EF lenses (except some)

This is a dedicated intermediate ring for close-up shooting for use of EF lenses.
Shooting with a high magnification is single. Having eight electronic contacts, this extension tube enables normal AE function.
Although the magnification of shooting depends of the lens in use, it is 0.3 to 0.5 in case where a standard zoom lens is used.
For the magnification with individual lenses, refer to the details for each product.
Although AF is available with some lenses, manual focusing or focus aid are more desirable.
Lenses that cannot be uses with Extension Tube EF25 : EF14 mm *f*/2.8LUSM, EF15mm *f*/2.8 fish eye, EF50mm *f*/1.0LUSM, and other lenses that do not allow manual focusing.

NAME : Close-Up Lenses

MARKETED : 1995 DISCONTINUED :

PRICE : 250D/52mm
/58mm
500D/52mm
/58mm
/72mm
/77mm
500/52mm
/58mm
/72mm
/77mm



This enables close-up shooting by mounting on the filter screw at the front of the lens.
The 250D and 500D series use a configuration of two lenses, one convex and one concave, to suppress color aberration. The lenses do not impair the excellent performance of EF lenses providing a picture quality comparable with that of a dedicated lens.
The 500 series use a configuration of a single lens, which is excellent in cost performance and enables close-up shooting more easily.
The working distance from the tip of the lens is 25 cm for the 250D and 50 cm for the 500D and 500 series.
(When the master lens is focused at infinity)
The 250D series provides higher magnification than that of the 500D and 500 series.

Method for use
① Manual focusing is used. Further, for an improved picture quality, it is desirable to reduce to the lens opening to about *f*/5.6.
② From the viewpoint of picture quality, it is preferable to use this lens with the lenses having the following focal length.
Close-up Lens 250D : 38 to 135mm
Close-up Lens 500D・500 : 70 to 300mm
③ With the following lenses, the close-up lens cannot be used, or there is limitation in use.
・ Vignetting occurs when the lens is set to infinity : EF20mm *f*/2.8USM
・ Vignetting occurs during tilt or shift : All TS-E lenses
・ Vignetting occurs as the wide end : EF20-35mm *f*/2.8L, EF20-35mm *f*/3.5-4.5USM, EF28-70mmLUSM, EF28-80mm *f*/3.5-5.6II USM, EF28-105mm *f*/4.5-5.6USM, EF35-350mm *f*/3.5-5.6LUSM
・ The front of the lens does not allow the mounting of a close-up lens : EF14mm *f*/2.8LUSM, EF15mm *f*/2.8FE, EF200mm *f*/1.8LUSM, EF300mm *f*/2.8LUSM, EF400mm *f*/2.8LUSM, EF500mm *f*/4.5LUSM, EF600mm *f*/4LUSM, EF1200mm *f*/5.6LUSM

The diameters of all screws are the same for the front and rear.

NAME : Lens Mount Converter FD-EOS

MARKETED : December 1989 DISCONTINUED :

PRICE :

DIMENSIONS : φ 69×29.4 mm

WEIGHT : 130 g

POWER SOURCE :

PRODUCT USED ON :

Used on EOS-1, EOS-1N, EOS 630 (EOS 600), EOS 620, and EOS 650 laser matte focusing screen must be used

This is a converter for mounting FD lenses on the EOS body. This has excellent performance that maintain the picting performance of the master lens almost completely. (Has a lens configuration of 3 groups/4 elements, super spectra coating) The focal length is 1.26 times that of the master lens, with the lens aperture darker by 2/3 step. Incidentally, in relation with the built-in exposure meter, a laser matte focusing screen must be used.

Lenses with which this converter can be used are as follows

NewFD200mm *f*/1.8L, NewFD200mm *f*/2.8RF, NewFD200mm *f*/2.8L, NewFD300mm *f*/4,
NewFD300mm *f*/4L, NewFD400mm *f*/2.8L, NewFD500mm *f*/4.5L, NewFD600mm *f*/4.5L,
NewFD800mm *f*/5.6L, NewFD50-300mm *f*/4.5L, NewFD150-600mm *f*/5.6L, NewFD85-300mm *f*/4.5

NAME : Macro Lens Mount Converter FD-EOS

MARKETED : October 1990 DISCONTINUED :

PRICE :

DIMENSIONS : φ 69×13.9 mm

WEIGHT : 85 g

POWER SOURCE :

PRODUCT USED ON :

Used on EOS-1, EOS-1N, EOS 630 (EOS 600), EOS 620, and EOS 650 laser mattetete focusing screen must be used

This is a mount converter for mounting FD macro accessories, such as auto bellows and photo micro unit, and all FD lenses on the EOS body.

Focusing is performed manually while exposure control uses Stopped-down AE or manual.

Incidentally, in relation with the built-in exposure meter, a laser matte focusing screen must be used.

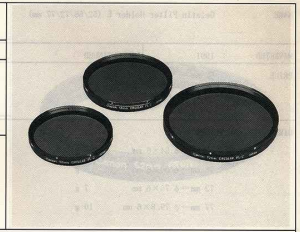
Further, because Macro Lens Mount Converter FD-EOS has the same function as an intermediate ring with a length of approx. 14 mm, it allows close focusing.

NAME : Circular Polarizing Filter PL-C
(52/58/67/72/77 (II) mm)

MARKETED : 52, 58, 72 mm→1987, 77 mm→1991, 67 mm→1996

PRICE : 77 mm (II)→,
52 mm→, 58 mm→,
67 mm→, 72 mm→

DIMENSIONS (including mounting screws) :
77 mm→φ 80×9.2 mm, 52 mm→φ 54×7.8 mm,
58 mm→φ 60×8.1 mm, 67 mm→φ 69.6×5.2 mm,
72 mm→φ 75×9.7 mm



Type : Threaded circular polarizing filter
This is mounted on the lens using the filter thread at the front of the lens. The filter section can be rotated endlessly.
The rotating section has white dot indexes.

This polarizing filter controls harmful reflections, which may interfere with picture quality, and thus enhances the effect.

It is used for eliminating reflections from glass or water surface, or emphasizing the blue of the sky.

Because this is a circular polarizing filter, it can be used without affecting the AF or AE systems.

NAME : 48mm Drop-In Filter PL-C

MARKETED : 1987

DIMENSIONS : 67×77×14.8 mm

PRICE :

WEIGHT :

TYPE : Drop-in circular polarizing filter. This is inserted into the filter slot located at the rear of the lens. The filter section can be rotated endlessly. For dismounting, lift the filter upward while pressing the pin at the top. By rotating the dial at the top of the filter, the filter section can be rotated endlessly.

NAME :

MARKETED :

DIMENSIONS :

PRICE :

WEIGHT :

NAME : Gelatin Filter Holder E (52/58/72/77 mm)

MARKETED : 1991 DISCONTINUED :

PRICE : 52 mm→, 58 mm→,
72 mm→, 77 mm→

DIMENSIONS AND WEIGHT :

52 mm→ ϕ 54×6 mm	5 g
58 mm→ ϕ 60×6 mm	6 g
72 mm→ ϕ 75×6 mm	7 g
77 mm→ ϕ 79.8×6 mm	10 g

This is a holder that allows the mounting of up to three gelatin filters, which enable fine adjustment of color reproduction, compensation of the light source color temperature, etc.
This holder is mounted on the lens in the same manner as an ordinary filter. This holder consists of a filter frame and ring-like pressure spring, where a gelatin filter cut into a circular form is inserted and fastened by the spring.

NAME : 48mm Drop-In Gelatin Filter Holder II

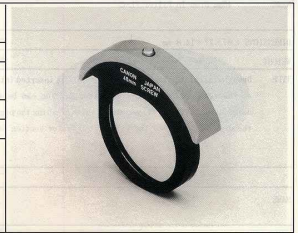
MARKETED : 1991 DISCONTINUED :

PRICE :

DIMENSIONS : 63.5×67×14.8 mm

WEIGHT : 40 g

PRODUCT USED ON :
Lenses that use the 48 mm Drop-in Filter



This is a gelatin filter holder of rear insertion type.
This holder consists of the holder body and gelatin filter pressure spring.
This to replace the glassless type-I holder, which had been carried over from the FD lens series.
This holder enables mounting of up to three gelatin filters.

NAME : PROTECT Filter (52/58/67/72/77 mm)

MARKETED : 1992 (52/58/72 mm)

PRICE : 52 mm→, 58 mm→,
67 mm→, 72 mm→,
77 mm→

DIMENSIONS AND WEIGHT :

52 mm→ ϕ 54×6.8 mm	15 g
58 mm→ ϕ 60×6.9 mm	20 g
67 mm→ ϕ 69.6×7.4 mm	27 g
72 mm→ ϕ 75×7.5 mm	32 g
77 mm→ ϕ 80×7.5 mm	36 g

This colorless transparent filter has been developed to protect the front lens without affecting the excellent color balance of the lens.
Super Spectra Coating is applied to both sides of this filter to achieve a neutral color balance and to suppress the generation of ghosts and flare by the filter.

NAME : Gelatin Filter Holder III MARKETED : 1996

DIMENSIONS : PRICE :

WEIGHT :

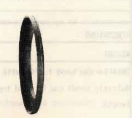
This is a gelatin filter holder for the 3-inch square gelatin filter holder.
This is used by mounting it to the lens filter threads via the separately sold Gelatin Filter Holder Adapter III.
This enables mounting the Gelatin Filter Holder Hood III.

NAME : Gelatin Filter Holder Adapter III (52mm, 58mm, 72mm, 77mm) MARKETED : 1996

DIMENSIONS : PRICE :

WEIGHT :

This is a filter ring mounting adapter for Gelatin Filter Holder III.
This corresponds to the diameters of various lens filter threads.
Four types: 52 mm, 58 mm, 72 mm, and 77 mm are provided.



NAME : Gelatin Filter Holder Hood III
MARKETED : 1996
DIMENSIONS :
PRICE :
WEIGHT :

This is the hood for Gelatin Filter Holder III.
Multiple hoods can be used together to achieve the correct hood length for the lens focal length.

NAME : Gelatin Filter Holder IV
MARKETED : 1996
DIMENSIONS :
PRICE :
WEIGHT :

This is a gelatin filter holder for the 4-inch square gelatin filter holder.
This is used by mounting it on the lens filter threads via the separately sold Gelatin Filter Holder Adapter IV.
This enables to mount the Gelatin Filter Holder Hood IV.

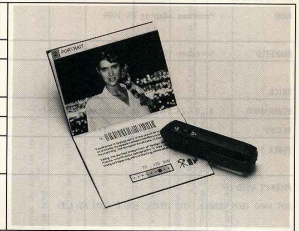
NAME : Gelatin Filter Holder Adapter IV
(52mm, 58mm, 72mm, 77mm)
MARKETED : 1996
DIMENSIONS :
PRICE :
WEIGHT :

This is a filter frame mounting adapter for Gelatin Filter Holder IV.
This corresponds to the diameters of various lens filter frames.
Four type : 52 mm, 58 mm, 72 mm, and 77 mm are provided.

NAME : Gelatin Filter Holder Hood IV
MARKETED : 1996
DIMENSIONS :
PRICE :
WEIGHT :

This is the hood for Gelatin Filter Holder IV.
Multiple hoods can be used together to achieve the correct hood length for the lens focal length.

NAME : Bar Code Reader E
MARKETED : March 1990
DISCONTINUED :
PRICE :
DIMENSIONS : 85×24×16 mm
WEIGHT : 30 g (including batteries)
POWER SOURCE : Lithium battery CR2025 - 2 pcs.
PRODUCT USED ON :
EOS 10 (EOS 10S), EOS 100 (EOS ELAN)



This is a bar code reader to enable quick reading of the shooting information attached to example photos.
Input of information to the body can be performed momentarily.
The contents of the bar code includes a combination of data of the program No., AE mode, feed mode, AF mode, FA mode, light measuring mode, exposure compensation value, flash compensation value, TV value, and AV value.
The body consists of the bar code reader and the output-to-camera section, which are located at opposite ends.
Enables approx. 300 bar-code readings and outputs.
An intermittent electronic buzzer sound of "pi, pi, pi, ... " after reading the bar code indicates the time for replacing batteries.

NAME : Magnifier 4×
MARKETED : 1996
DISCONTINUED :
PRICE : (including the case)
DIMENSIONS : φ 53×63 mm
WEIGHT : 110 g
POWER SOURCE :
PRODUCT USED ON :

This is a high 4X magnification 35 mm frame magnifier. This achieves a very high performance by thorough elimination of distortion and the adoption of super spectral coating.
Focus adjustment with a helicoid provides good operability.
Rubber eye cups, which are also useful for protecting eye glasses from being damaged, are available in two types : one with a strap and one without.
Detachable hoods are also available in two types : translucent and opaque black, which can be interchanged as necessary.

7 Others

NAME : Panorama Adapter PA-1000	
MARKETED : November 1991	DISCONTINUED :
PRICE :	
DIMENSIONS : 41.8×24.2×2.6 mm (panorama mask only)	
WEIGHT : 2.4 g (panorama mask only)	
POWER SOURCE :	
PRODUCT USED ON : EOS 1000 (EOS REBEL), EOS 1000S, EOS 5 (EOS A2/A2E)	

This consists of an aperture section with dimensions of 24×36 mm with a mask with dimensions of 13.2×36 mm attached to it.
It is mounted into the film aperture of 35 mm SLR cameras without built-in panorama mask.
The adapter is accommodated in a dedicated case attached to its holder.
This can be used with EOS 5 (EOS A2/A2E), EOS 1000S, and EOS 1000 (EOS REBEL). Panorama shooting is available only by mounting this adapter on the body in a single operation.
When this adapter is used with EOS5, it is preferable to replace the focusing screen with Ed-P (a mat with panorama lines).
Caution : Do not use this adapter in cameras with built-in panorama mask.

NAME : Macro Ring Light Adapter 72C	MARKETED : 1996
DIMENSIONS :	PRICE :
WEIGHT :	

This is and adapter used for EF180mm *f*/3.5L macro USM and for mounting Macro Ring Light ML-3.
Made of aluminum, black

NAME :	MARKETED :
DIMENSIONS :	PRICE :
WEIGHT :	

Single-Lens Reflex Cases

Name	Product Used On (Examples)	Marketed	Price	Material, Color, Features
Semi-Hard Case EH1-L	EOS650, EOS630 (EOS600), EOS620, EOS RT+EF28-70/3.5-4.5	1987		Cordley (synthetic leather), black
Semi-Hard Case EH1-LL	EOS650, EOS630 (EOS600), EOS620, EOS RT+EF35-105/3.5-4.5	1987		Front section : High-frequency molded parts are used in the front section.
Semi-Hard Case EH1-S	EOS650, EOS630 (EOS600), EOS620, EOS RT+EF50/1.8	1987		Rear section : The side and bottom plates are reinforced with galvanized steel sheet.
Semi-Hard Case EH2-L	EOS-1+EF50/1.4USM, EF28-80/3.5-5.6USM	1989		Clarino panard (synthetic leather), black
Semi-Hard Case EH2-LL	EOS-1+EF35-105/3.5-4.5, EF80-200/4.5-5.6	1989		Front section : Parts reinforced with cardboard core are used in the front section.
Semi-Hard Case EH2-S	EOS-1+EF35/2, EF50/1.8	1989		Rear section : The side and bottom plates are reinforced with galvanized steel sheet.
Semi-Hard Case EH2N-L	EOS-1N+EF35-105/4.5-5.6	1994		Clarino panard (synthetic leather), black
				Front section : Parts reinforced with core are used in the portion from the lens front to the top. Other portions consist of a face skin and liner bonded each other.
Semi-Hard Case EH2N-LL	EOS-1N+EF35-135/4-5.6	1994		Rear section : The side and bottom plates are reinforced with galvanized steel sheet.
Semi-Hard Case EH3-L	EOS10 (EOS10S)+EF28-80/3.5-5.6USM, EF35-105/4.5-5.6	1990		Cordley (synthetic leather), black
				Front section : Parts reinforced with core are used in the front section and they are sewed to each other.
Semi-Hard Case EH3-LL	EOS10 (EOS10S)+EF35-105/3.5-4.5, EF80-200/4.5-5.6	1990		Rear section : The side and bottom plates are reinforced with galvanized steel sheet.
Semi-Hard Case EH4-L	EOS700, EOS750, EOS800+EF35-80/4-5.6, EF100/2USM	1988		Cordley (synthetic leather), black
Semi-Hard Case EH4-LL	EOS700, EOS750, EOS800+EF14/2.8L, EF35-105/4.5-5.6	1988		Front section : High-frequency molded parts with double surface skins are used in the front section.
Semi-Hard Case EH4-S	EOS700, EOS750, EOS800+EF15/2.8FE, EF50/1.8	1988		Rear section : The side plates are reinforced with press-board core.
Semi-Hard Case EH5	EOS1000, EOS1000S (EOS REBEL II/S, EOS1000N/FN)+ EF20/2.8USM, EF28-70/3.5-4.5	1990		PVC synthetic leather, black Front section : The front section is reinforced with core.
Semi-Hard Case EH5-S	EOS1000, EOS1000S (EOS REBEL II/S, EOS1000N/FN)+ EF50/1.4USM, EF35-105/3.5-4.5	1992		Rear section : The bottom plate is reinforced with cardboard core (fastened using the hole for the tripod).
Semi-Hard Case EH6-L	EOS100 (EOS ELAN)+EF14/2.8L USM, EF28-105/3.5-4.5USM	1991		PVC synthetic leather, two tones of black and gray
Semi-Hard Case EH6-LL	EOS100QD-P+EF14/2.8L USM, EF28-105/3.5-4.5USM	1991		Front section : The front section is reinforced with core.
Semi-Hard Case EH6-L P	EOS100 (EOS ELAN)+EF20/2.8USM, EF35-135/4.5-5.6USM	1993		Rear section : Reinforced with cardboard core (fastened using the hole for the tripod).
Semi-Hard Case EH6-LL P	EOS100QD-P+EF20/2.8USM, EF35-135/4.5-5.6USM	1993		P type has a hole for operating the panorama/normal switching lever.
Semi-Hard Case EH7-L	EOS5 (EOS A2/A2E)+EF50/1.4USM, EF85/1.8USM, EF35-80/4-5.6	1992		PVC synthetic leather, two tones of black and gray
Semi-Hard Case EH7-LL	EOS5 (EOS A2/A2E)+EF14/2.8L USM, EF20-35/2.8L, EF80-200/4.5-5.6USM	1992		Rear section : Reinforced with cardboard core (fastened using the hole for the tripod).
Semi-Hard Case EH8-L	EOS Kiss (EOS REBEL X, EOS500)+EF50/1.4L, EF35-80/4-5.6USM, EF35-105/4.5-5.6USM	1993		PVC synthetic leather, black Rear section : Reinforced with cardboard core (fastened using the hole for the tripod).
Semi-Hard Case EH8-LL	EOS Kiss (EOS REBEL X, EOS500)+EF28-105/3.5-4.5USM, EF35-80/4-5.6, EF100/2USM	1993		
Semi-Hard Case EH9-L	EOS55 (EOS ELAN II, EOS50)+EF28-105/3.5-4.5USM, EF28-80/3.5-5.6III USM	1995		PVC synthetic leather, two tones of black and dark brown Rear section : The side and bottom plates are reinforced with cardboard core. Front section : The front section is reinforced with core.
Semi-Hard Case EH10-L	EOS IX E (EOS IX)+EF24-85/3.5-4.5	1996		Two tones of suede-like synthetic leather (gray) and PVC synthetic leather (black)
				Consists of a rear section reinforced with cardboard core (fastened using the hole for the tripod) and cap-type front case.
Snap Case SA-4	EOS650, EOS620+EF50/1.8, EF35-70/3.5-4.5	1987		Amara (suede-like synthetic leather) gray, with a fastener reaching to the top opening
Snap Case SB-5	EOS Kiss (EOS REBEL X, EOS500)+Grip GR-80TP	1995		Urethane coated PVC, black Opening and closing : Velcro is used for fastening the cap and side flaps.

Compact Camera Cases

Name	Product Used On (Examples)	Marketed	Price	Material, Color, Features
Soft Case CS-1	CB35	1988		
Soft Case CS-2	Autoboy Prism	1988		Cabron Linden, black, sewed top-cover open-close type, with magic tape* (* magic tape=velcro-like tape)
Soft Case CS-4	Autoboy Mini	1991		Nylon, black, sewed side-cover open-close type, with magic tape
Soft Case CS-6	Autoboy F	1993		PU leather, PVC leather, black
Soft Case CS-7	Autoboy D5	1994		Nylon, red
Soft Case CS-8	CANON 11→→→IX10			Nylon, white
Soft Case CT-1	Autoboy Tele 6	1988		Cordley, black, consisting of the high-frequency-molded front case section, rear case section, case cover, and belt hole, which are coupled by high-frequency fusing, with magic tape
Soft Case CT-2	Autoboy World Traveler	1990		A Taiwanese material equivalent to polywants, sewed top-cover open-close type, with magic tape
Soft Case CT-3	Autoboy Mini Tele	1991		PVC leather, black, sewed top-cover open-close type, with magic tape
Soft Case CZ-1	Autoboy Zoom			Cordley
Soft Case CZ-2	Autoboy Zoom Super	1989		Cordley, black, sewed top-cover open-close type, with magic tape
Soft Case CZ-3	New Autoboy	1989		Cordley, black, consisting of the high-frequency-molded front case section, rear case section, case cover, and belt hole, which are coupled by high-frequency fusing, with magic tape
Soft Case CZ-4	Autoboy Jet	1990		Nylon, dark metallic gray, sewed top-cover open-close type, with magic tape, bottom plate reinforced by cardboard core
Soft Case CZ-5	Autoboy Zoom 105	1991		Nylon, black
	Autoboy Jack	1994		Sewed top-cover open-close type, with magic tape, bottom plate reinforced by cardboard core
Soft Case CZ-6	JET135	1992		Nylon, black
Soft Case CZ-7	Autoboy Ace	1992		Nylon, black, sewed top-cover open-close type, with magic tape
Soft Case CZ-8	Autoboy Super	1993		Urethane synthetic leather, black
Soft Case CZ-9	Autoboy Luna	1994		PU synthetic leather, black
Soft Case CZ-10	Autoboy Super II	1996		PVC leather, black
Soft Case CZ-11	IXY	1996		Amara, gray
Soft Case CZ-12	IXY G	1996		Amara, gray
Camera Cloth	AB SE	1995		
Camera Porch CS-3	SKETCH・BOOK	1990		Nylon, black, consisting of the front and rear parts of the same form sewed to each other. This is a purse type, where closure is effected by a string.
Camera Porch CS-5	BF35	1992		

List of Lens Cases

Case Name	Product Used On (Examples)	Marketed	Price	Material, Color, Features
Lens Soft Case ES-C9	EF50/1.8, EF50/1.4USM	1987		Molded portion : Cordley, back, outer side-plate material : Polywants (Toyo Cloth)
Lens Soft Case ES-C13	EF35-135/4-5.6USM	1987		Cylindrical soft case, opened and closed with a slide fastener
Lens Soft Case ES-C17	EF75-300/4-5.6USM	1987		Equipped with a removable foam cushion
Lens Soft Case ES-C20	EF100-300/5.6L	1987		
Lens Hard Case LH-D11	EF20-35/3.5-4.5USM	1993		Synthetic leather, black (Made in Taiwan, Katsuhiro Jitsugyo Luxas) Cylindrical hard case, where face skins are pointed by high-frequency fusing and mounted on the cardboard core, with a hook and lifting lug.
Lens Hard Case LH-D12	EF85/1.2L USM	1989		Same as above
Lens Hard Case LH-D13	EF20/2.8USM	1989		Same as above
Lens Hard Case LH-D14	TS-E24/3.5L	1991		Same as above
Lens Hard Case LH-D14B	EF17-35/2.8L USM	1996		Same as above
Lens Hard Case LH-D16	EF80-200/2.8-4L USM	1989		Same as above
Lens Hard Case LH-D16II	EF28-70/2.8L USM	1993		Same as above
Lens Hard Case LH-D18	EF200/2.8L USM	1991		Same as above
Lens Hard Case LH-D18B	EF75-300/4-5.6IS USM	1995		Same as above (However, this case alone is made of Patra (Kanebo) and not equipped with a lifting lug.)
Lens Hard Case LH-D18II	EF200/2.8L II USM	1996		Same as above
Lens Hard Case LH-D22	EF35-350/3.5-5.6L USM	1992		Same as above
Lens Hard Case LH-D23	EF80-200/2.8L	1989		Same as above
Lens Hard Case LH-D24B	EF70-200/2.8L USM	1995		Same as above
Lens Hard Case LH-D24C	EF180/3.5L Macro USM	1996		Same as above
Lens Hard Case LH-D26	EF300/4L USM	1991		Same as above
Lens Hard Case LH-D29	EF400/5.6L USM	1993		Same as above
Carrying Case for EF300 2.8L	EF300/2.8L USM	1987		Patra (Kanebo), black Long square case reinforced with cardboard core and coated with leather, with a lock and lifting lug.
Carrying Case for EF200 1.8L	EF200/1.8L USM	1988		Coated with PVC leather, gray
Carrying Case for EF400 2.8L	EF400/2.8L II USM	1991		A trunk reinforced with veneer and aluminum sash. Equipped with a lock.
Carrying Case for EF500 4.5L	EF500/4.5L USM	1992		
Carrying Case for EF600 4L	EF600/4L USM	1988		
Carrying Case for EF1200 5.6L	EF1200/5.6L USM	1993	Production upon order received	A trunk reinforced with veneer and aluminum sash. Equipped with a lock.
Lens Trunk 200	EF200/1.8L USM	1994		Coated with PVC leather, light gray
Lens Trunk 300	EF300/2.8L USM	1994		A trunk reinforced with veneer and aluminum sash. Improved from the trunk.
Lens Trunk 500	EF500/4.5L USM	1994		(The handle can be accommodated on either the left or right side, the strength of various parts is increased, etc.) Equipped with a lock.
Lens Trunk 400	EF400/2.8L II USM	1994		Coated with PVC leather, light gray
Lens Trunk 600	EF600/4L USM	1994		A trunk reinforced with veneer and aluminum sash. Improved from the trunk.
				(Compact size and light weight are achieved, the handle can be accommodated on either the left or right side, the strength of various parts is increased, etc.) Equipped with a lock.

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