

Canon

MACRO RING LITE MR-14EX

MACRO TWIN LITE MT-24EX

E

EXPLANATION
INSTRUCTIONS

Thank you for purchasing a Canon product.

The Canon Macro Ring Lite MR-14EX/Macro Twin Lite MT-24EX are flash units for closeup photography. They have many high-end features such as the E-TTL (Evaluative-TTL) autoflash system.

The available features depend on the type of EOS camera you use with the MR-14EX/Macro Twin Lite MT-24EX. Refer to the tables below to confirm your EOS camera type and the MR-14EX/MT-24EX features which are compatible with your camera.

This instructions booklet has separate sections for Type-A and Type-B EOS cameras. Read Chapter 1 which applies to all cameras, then read the respective chapters which apply to your camera type.

Type-A Cameras	E-TTL	EOS-1D, 1V, 3, D30, ELAN 7/7E, 30/33, ELAN II/ELAN II E, 50/50E, REBEL 2000/300, REBEL G, 500N, 3000N/66, IX, IX 7/IX Lite
Type-B Cameras	TTL	All EOS cameras other than the above.

MR-14EX/MT-24EX Features Available with EOS Cameras

O: Available X: Not available

Features	With Type-A Cameras	With Type-B Cameras
E-TTL autoflash	O	X
TTL autoflash	O*	O
High-speed sync (FP flash)	O	X
FE lock	O	X
FEB (Flash exposure bracketing)	O	O
Wireless, multi-Speedlite E-TTL	O	X

*With C.Fn-3-1.

■Key to Symbols



The Caution symbol alerts you to actions to prevent flash photography problems.



The Note symbol gives additional information for basic operations.



The Light bulb symbol offers helpful tips for operating the Macro Ring Lite or for taking pictures.

Keep this Instructions booklet handy for future reference.

About Macro Twin Lite MT-24EX Instructions

The only difference between Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX is the flash tube/heads and a few features. This instructions booklet centers on the MR-14EX and most of the instructions also apply to the MT-24EX. Instructions which apply only to the MT-24EX are in a separate chapter. If you have the MT-24EX, read up to page 5, then read pages 75 to 85. All other instructions (on pages 7 to 73) for the MT-24EX are the same as for the MR-14EX.

How to Use this Booklet

If you have a Type-A camera, read pages 9 to 48 and 64 to 73. If you have a Type-B camera, read pages 9 to 20 and 49 to 73.

- The operation procedures assume that the camera and the MR-14EX/MT-24EX are already turned on. Before proceeding, be sure to turn on the main switch.
- The icons used in the text are the same ones found on the camera and the MR-14EX/MT-24EX's buttons and settings. For the name of the button or dial, see "Nomenclature" on pages 6 to 8 and 76.

Icons for the camera's shooting modes are as follows:

	: Full Auto		: Shutter-priority AE
	: Program AE		: Manual
	: Aperture-priority AE		

- The (8) and (12) icons indicate that the function remains in effect for 8 sec. and 12 sec. respectively after the relevant button is released.
- Reference page numbers are indicated in parentheses as follows: (→p.■)
- The  icon brings attention to a simple description of the respective Custom Function. For a detailed explanation of the Custom Function, see "Custom Functions" on pages 64 and 83. The instructions in this booklet assume that the standard Custom Functions settings are in effect.

Contents

About Macro Twin Lite MT-24EX Instructions	3
How to Use this Booklet	3
Nomenclature	6

1 Before You Start (Type-A Cameras, Type-B Cameras) ...9

Installing Batteries	10
External Power Sources	12
Attaching the Control Unit to the Camera	13
Attaching the Flash Ring	14
Main Switch	15
Pilot Lamp and Test Firing	16
Flash Exposure Confirmation	16
Flash Range	17
Flash Mode	19
Setting the Film Speed	19
LCD Panel Illumination	19
Focusing Lamp	20
Resetting to the Default Settings	20

2 Basic Flash Photography (Type-A Cameras).....21

Using Flash with the Camera's Shooting Modes	22
--	----

3 Advanced Flash Photography (Type-A Cameras)25

 Selecting the Flash Tube	26
Modeling Flash	29
FE Lock	30
 Flash Exposure Compensation	32
 FEB (Flash Exposure Bracketing)	34
 High-Speed Sync (FP Flash)	36
M Manual Flash Mode	38
 Second-Curtain Synchronization	40

4 Wireless Flash Photography (Type-A Cameras).....41

Setting Up a Wireless Flash System	42
Using the Wireless Flash System.....	45

1**5 Basic Flash Photography (Type-B Cameras).....49**

Using Flash with the Camera's Shooting Modes.....	50
---	----

2**6 Advanced Flash Photography (Type-B Cameras)53**

Selecting the Flash Tube	54
Flash Exposure Compensation	56
FEB (Flash Exposure Bracketing)	58
M Manual Flash Mode	60
Second-Curtain Synchronization	62
Wireless Manual Flash	63
Custom Functions.....	64
MR-14EX/MT-24EX System	66
Troubleshooting Guide	68
Specifications	69
Feature Availability Table	72

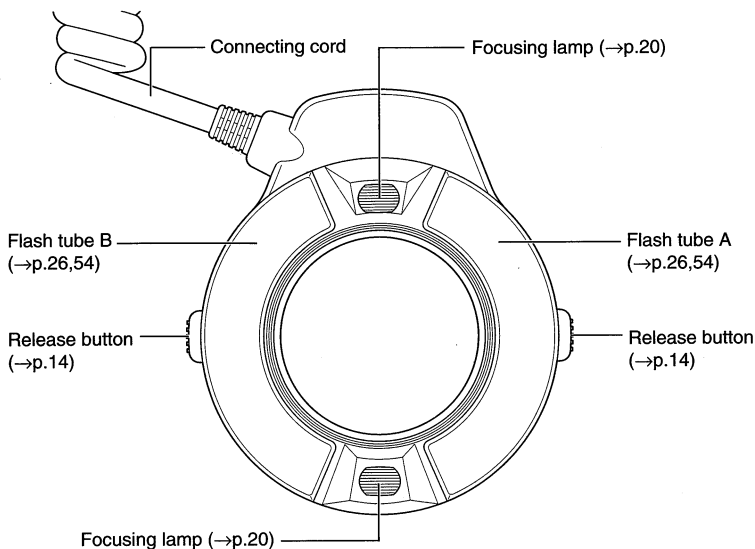
3**4****5****6****7 Macro Twin Lite MT-24EX Features75**

Nomenclature	76
Attaching the Flash Heads	77
Flash Head Movements	80
Flash Distance Range	83
Custom Functions.....	83
Major Specifications	84

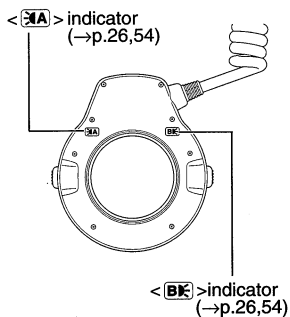
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Nomenclature

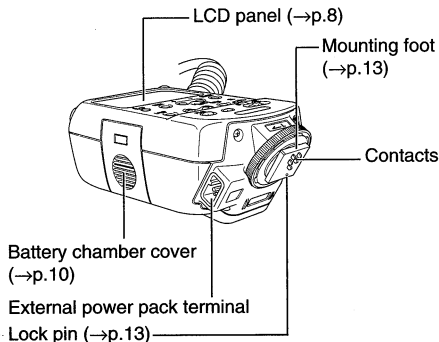
Flash Ring



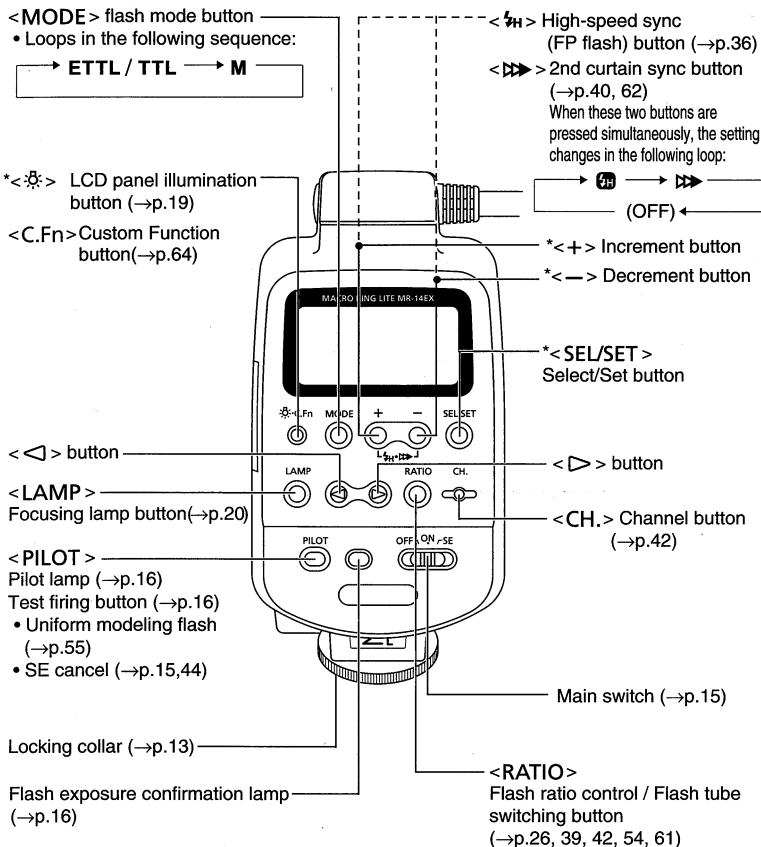
Flash Ring Rear



Side Panel



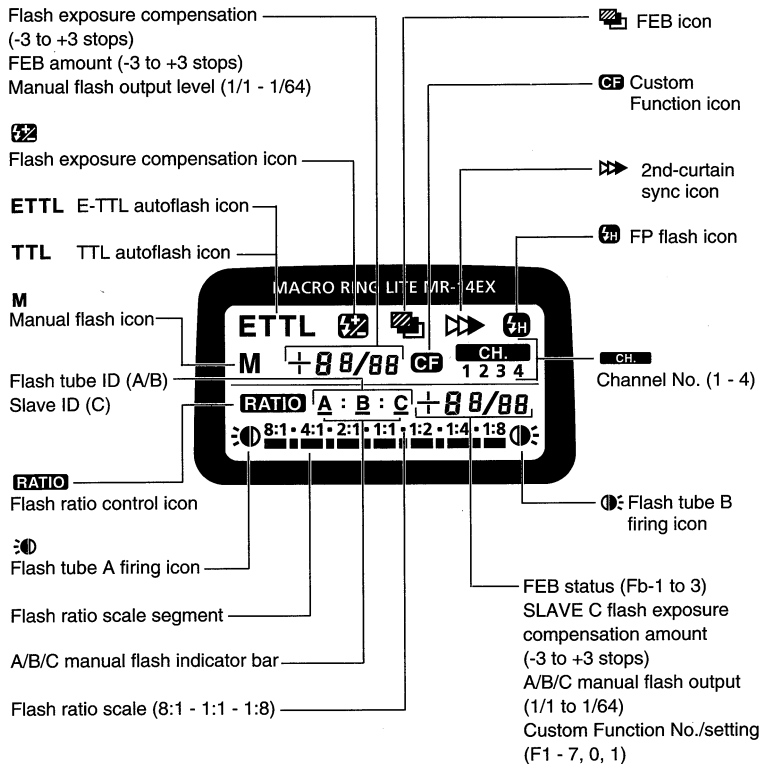
Control Unit



 Asterisked items have functions which remain effective for (⬆8) after the button is released. The <⬆> button illuminates the LCD panel for (⬆12).

Nomenclature

LCD Panel



- The LCD panel is shown with all the icons and indications displayed. The items actually displayed differ depending on the flash settings.

Learn how to prepare the Macro Ring
Lite MR-14EX for actual use.

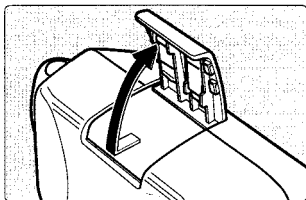


Before You Start

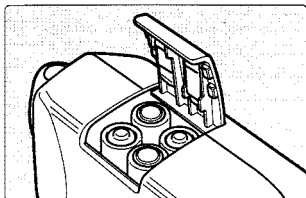
Installing Batteries

Macro Ring Lite MR-14EX requires one of the following two types of batteries:

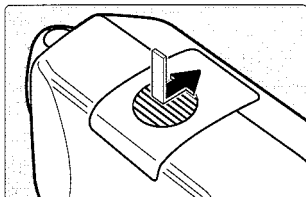
- (1) Four size-AA alkaline batteries
- (2) Four size-AA nickel-hydride batteries



1 Slide the battery compartment cover as shown by the arrow and flip it up.



2 Insert the batteries.
• Make sure the + and – battery contacts are properly oriented as shown in the battery chamber.



3 Close the battery chamber cover as shown in the diagram.



- Use four new batteries of the same type. When replacing batteries, replace all four batteries at one time.
- Size-AA lithium batteries can also be used.
- Although non-alkaline, manganese batteries may also be used, the number of flashes will be less.
- Remove the batteries when the Macro Ring Lite MR-14EX will not be used for an extended period.
- In low temperatures, take two sets of batteries and keep one set warm in a pocket, etc., and use the batteries alternately.



- To prevent faulty connections, make sure the battery contacts are clean. If necessary, use a clean cloth to wipe the battery contacts.
- In the case of size-AA nickel-hydrate and size-AA lithium batteries, the shape of the contacts is not standardized. Be sure that the batteries are compatible with the flash unit before buying.

Recycling Time and Flash Count

(Applicable to both or only one flash tube firing)

Battery Type	Recycling Time	Flash Count
Size-AA alkaline batteries	Approx. 0.1-7 sec.	Approx. 120 to 800

- The minimum recycling time applies in the E-TTL or TTL mode while the maximum recycling time applies in the manual or full-output (1/1) mode.
- The minimum flash count applies in the manual or full-output (1/1) mode while the maximum flash count applies in the E-TTL or TTL mode.
- The above specifications are based on Canon's testing standards.
- Using size-AA nickel-hydrate batteries will yield only about 70 to 80 percent of the flashes (1550 mAh at full output) obtainable with size-AA alkaline batteries. The recycling time will also be about half the time with size-AA alkaline batteries.

External Power Sources

Macro Ring Lite MR-14EX can use either of the following two external power packs. For details on the power pack, refer to the Instructions of the respective power pack.

- (1) Compact Battery Pack CP-E2
Uses six size-AA alkaline, nickel-hydride, or lithium batteries.
- (2) Transistor Pack E
Uses Battery Magazine TP (six size-C alkaline batteries) or Ni-Cd Pack TP.

Recycling Time and Flash Count

(Applicable to both or only one flash tube firing)

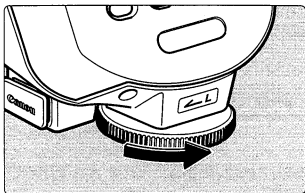
Power Source		Recycling Time (sec.)	Flash Count
Internal Power Sources	Size-AA alkaline batteries	Approx. 0.1-7	Approx. 120-800
External Power Sources	Compact Battery Pack CP-E2 (w/alkaline batteries)	Approx. 0.1-4	Approx. 400-2500
	Transistor Pack E (w/alkaline batteries)	Approx. 0.1-4	Approx. 400-2500
	Transistor Pack E (w/Ni-Cd Pack TP)	Approx. 0.1-3	Approx. 330-2000

- The minimum recycling time applies in the E-TTL or TTL mode while the maximum recycling time applies in the manual or full-output (1/1) mode.
- The minimum flash count applies in the manual or full-output (1/1) mode while the maximum flash count applies in the E-TTL or TTL mode.
- The above specifications are based on Canon's testing standards.

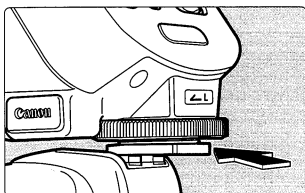


- Even when an external power source is used, batteries must still be installed in the MR-14EX to power its internal circuitry.
- The MR-14EX uses both the internal and external power sources to recycle the flash. Therefore, the internal power source may become exhausted sooner than the external power source. For prolonged flash photography, keep a spare set of size-AA batteries handy for the internal power source.

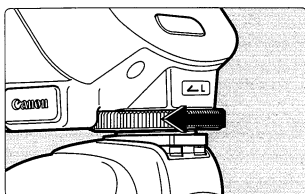
Attaching the Control Unit to the Camera



- 1** Loosen the locking collar by turning it as shown by the arrow.



- 2** Slip the Control Unit's mounting foot into the camera's hot shoe all the way.

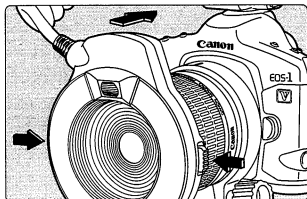


- 3** Turn the locking collar as shown by the arrow and tighten.
- The mounting foot's locking pin will also extend into the hot shoe.
 - To detach the Control Unit, turn the locking collar in the opposite direction until it stops. (The locking pin retracts into the mounting foot.) Then slip it off the hot shoe.

! The hot shoe on the EOS 650, 620, 750, and 850 does not have a locking pin hole. Although the MR-14EX can still be mounted on these cameras, be careful not to have it slip off the hot shoe.

Attaching the Flash Ring

The Macro Ring Lite MR-14EX can be attached directly to the following lenses: EF 50mm f/2.5 COMPACT MACRO, EF 100mm f/2.8 MACRO USM, EF 100mm f/2.8 MACRO, and MP-E 65mm f/2.8 1-5x lenses. To attach it to the EF 180mm f/3.5L MACRO USM, the Macro Lite Adapter 72C (sold separately) is required.



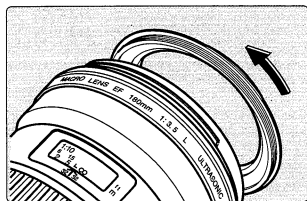
1 Press the release buttons on both sides of the flash ring.

- Keep pressing both release buttons.

2 Attach the flash ring to the Macro Ring Lite mount on the front of the lens.

- Let go of the release buttons and make sure the flash ring is securely attached to the front of the lens.
- The flash ring can rotate 360 degrees.
- To detach the flash ring, follow this procedure in reverse.

Attaching the Macro Lite Adapter 72C



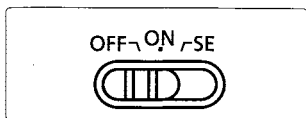
Screw on the Macro Lite Adapter 72C onto the front of the EF 180mm f/3.5L MACRO USM lens.



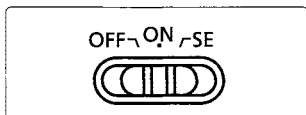
- A lens hood cannot be attached while the Macro Ring Lite MR-14EX is attached to the lens.
- The MR-14EX cannot be attached to the EF 100mm f/2.8 MACRO USM or to the MP-E 65mm f/2.8 1-5x while a filter is attached to the lens. Remove any filter before attaching the MR-14EX.

Main Switch

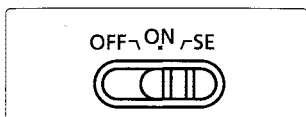
The main switch has three settings as shown below.



Turns off the power.



Turns on the power.



Turns on the power and enables the SE mode.

- To save battery power, the SE (Save Energy) mode turns off the Macro Ring Lite automatically after 90 sec. of non-use.
- To cancel the SE mode, press the test firing button.

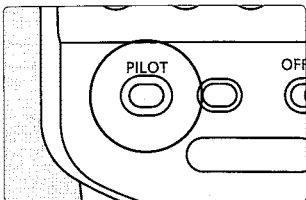


Memory feature

The Macro Ring Lite's current flash mode, flash exposure compensation setting, etc., are retained in memory even after it is turned off. When the Macro Ring Lite is turned on again, all the settings will still be in effect. When you replace the batteries, you can retain the settings if you install new batteries within 90 sec.

Pilot Lamp and Test Firing

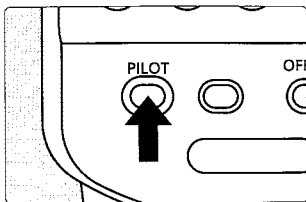
This tests whether the Macro Ring Lite can fire a flash.



1

Check the Pilot lamp.

- When the flash is ready, the Pilot lamp will light.



2

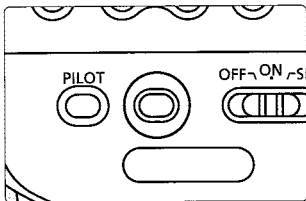
Press the Pilot lamp (test firing button).

- A flash will fire.
- The Pilot lamp is also a test firing button.



- A test flash cannot be fired after you press the camera's shutter button halfway and the camera metering is still active for (6).
- If the Macro Ring Lite is in the SE mode, pressing the test firing button turns on the Macro Ring Lite.

Flash Exposure Confirmation

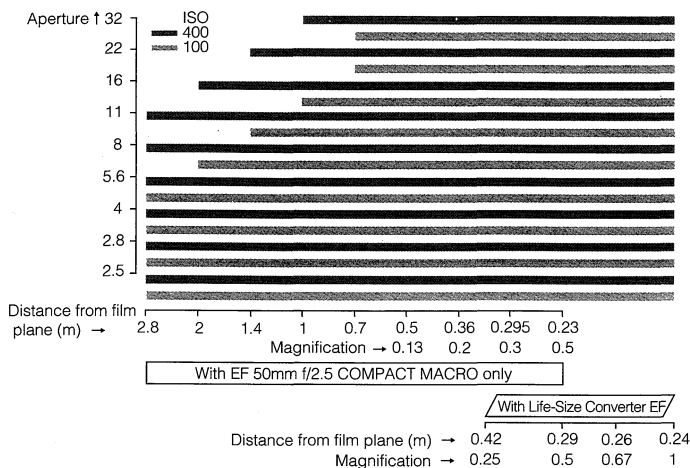


When a correct flash exposure has been obtained, the flash exposure confirmation lamp lights in yellow-green for 3 sec. immediately after the flash fires.

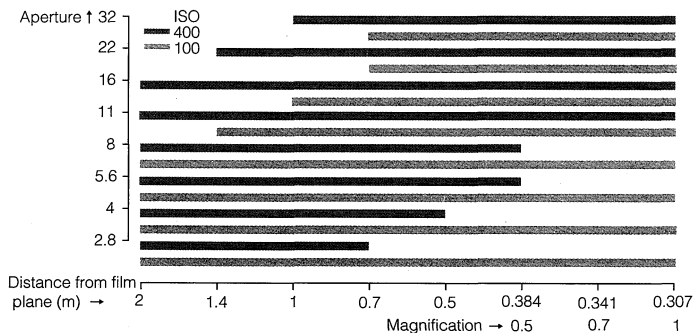
Flash Range

This is a general guide to the MR-14EX's effective flash range.

With EF 50mm f/2.5 COMPACT MACRO

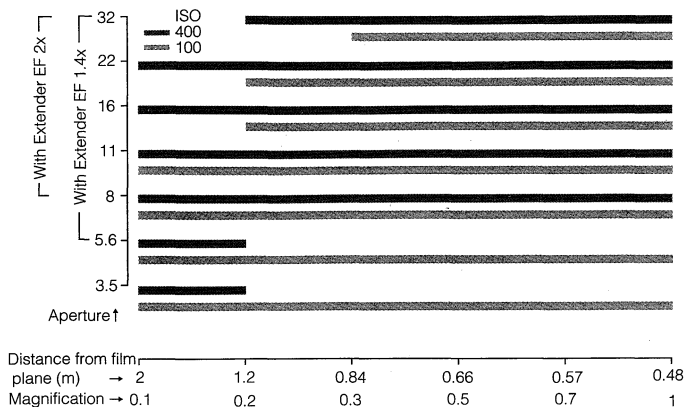


With EF 100mm f/2.8 MACRO USM / EF 100mm f/2.8 MACRO

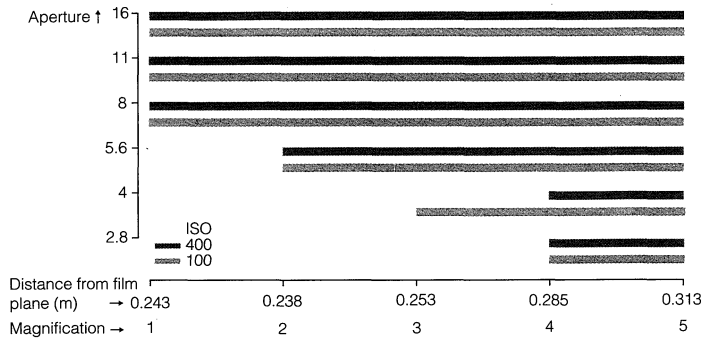


Flash Range

With EF 180mm f/3.5L MACRO USM

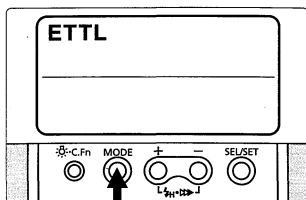


With MP-E 65mm f/2.8 1-5x



Flash Mode

Press the <MODE> button to select the E-TTL (or TTL) autoflash mode or manual flash mode.



Press the <MODE> button.

- Pressing the button toggles the flash mode between **ETTL (TTL)** and **M**



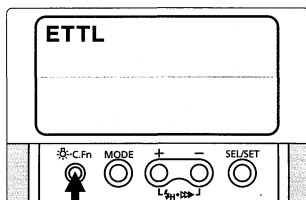
With a Type-A camera, **ETTL** autoflash will be set. With a Type-B camera, **TTL** autoflash will be set.

Setting the Film Speed

The film speed is set automatically according to the film speed set with the camera.

LCD Panel Illumination

In low-light, you can illuminate the LCD panel for (12).

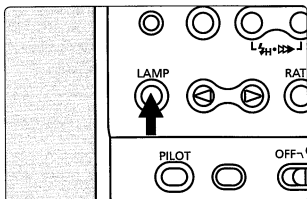


Press the <Fn> button to illuminate the LCD panel.

- The LCD panel is illuminated for 12 sec.
- To turn off the illumination, press the <Fn> button again.
- Pressing any button other than the <PILOT> and <Fn> buttons will extend the illumination time beyond (12).

Focusing Lamp

In low-light or when the viewfinder image gets darker at high magnifications, it becomes difficult to achieve correct focus. In such cases, the focusing lamp can assist with focusing.



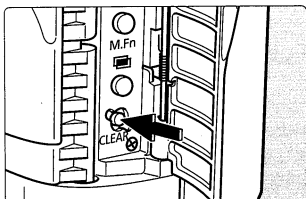
- 1 Press the <LAMP>button.**
 - The focusing lamps on the top and bottom of the flash ring will light for about 20 sec.

- 2 Focus the subject.**

- 3 Press the <LAMP>button.**
 - To turn off the focusing lamps, press the <LAMP> button again.

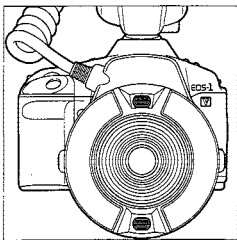
Resetting to the Default Settings

When the Macro Ring Lite is attached to an EOS camera equipped with a <CLEAR> button, pressing the <CLEAR> button resets the Macro Ring Lite's settings (except the Custom Functions) to its default settings



- 1 Press the camera's <CLEAR> button.**
 - The default settings are as follows:
 - E-TTL autofocus*
 - Left and right flash tubes firing at the same output
 - Normal flash

*With the EOS-1N and EOS-1, TTL autofocus will be set.



When the MR-14EX is mounted on a Type-A camera such as the EOS-1V, taking flash pictures with E-TTL autoflash is just as easy as normal autoexposure (AE) pictures. As with evaluative metering, the E-TTL autoflash system uses a multi-zone metering sensor which enables highly precise flash exposure control. A preflash is fired for evaluative flash metering and the reading is stored in memory. The result is a flash picture with excellent balance between the flash exposure and ambient light.

For Type-A Cameras Basic Flash Photography

❶ In macro photography, setting the correct exposure greatly depends on the subject. It would be best to bracket the exposure even for the same subject. (→p.32)



- This section uses the EOS-1 V as the Type-A camera.
- Before proceeding, first turn on the Main Switch on the EOS-1 V and MR-14EX.
- For EOS-1 V operations, refer to the EOS-1 V instructions booklet.

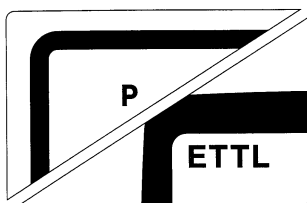
Using Flash with the Camera's Shooting Modes

For E-TTL autoflash shots, just set the camera's shooting mode to **P** (Program AE), **A_v** (aperture-priority AE), or **M** (Manual exposure). For serious closeup flash photography, **A_v** or **M** is recommended.

* When you press the shutter button completely, a preflash is fired immediately before the picture is taken. The preflash is used to obtain the subject's reflected-light reading for calculating the optimum output of the main flash.

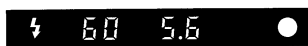
P: Program AE Mode and E-TTL Autoflash

Set the camera's shooting mode to **P**, and the camera will set the flash aperture and shutter speed automatically. You can thereby concentrate on the subject.



1 Set the camera's shooting mode to **P**.

2 Set the MR-14EX's flash mode to **E-TTL**.



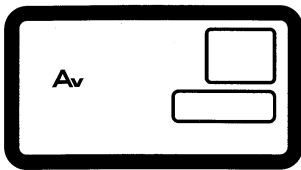
3 **Focus and take the picture**
• Check that the ⚡ icon (flash ready) is displayed in the viewfinder before taking the picture.



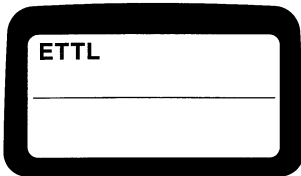
- If the camera has the Full Auto mode  and it is set to this mode, the shutter speed and aperture will be set in the same way as with the **P** mode (Program AE).
- If the **DEP** mode (depth-of-field AE) is used with the MR-14EX, it will be the same as using the **P** mode.
- If the **T_v** mode (shutter speed-priority AE) is used to set the shutter speed, the camera will set the flash aperture automatically. Since you cannot set the desired aperture in this mode, it is not recommended for closeup flash photography.

Av: Aperture-Priority AE and E-TTL Autoflash

This mode is effective for controlling the depth of field in your flash pictures. You can also obtain a correct exposure for both the subject and background. You set the aperture and the camera sets the shutter speed automatically for the correct exposure of the background. The E-TTL autoflash system obtains the correct flash exposure based on the aperture you set.



1 Set the camera's shooting mode to **Av** and set the aperture.



2 Set the MR-14EX's flash mode to **ETTL**.



3 **Focus and take the picture.**

- Check that the  icon (flash ready) is displayed in the viewfinder before taking the picture.

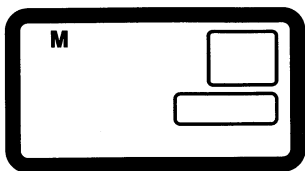
- In low-light conditions, the shutter speed will be slow. Use a tripod.
- If you take the picture while the focusing lamp is on, underexposure may result. Wait until the focusing lamp turns off, then take the picture.



If the top shutter speed display blinks, the background will be overexposed. Or if the slowest shutter speed (30") display blinks, the background will be underexposed. In such cases, change the aperture until the shutter speed display stops blinking.

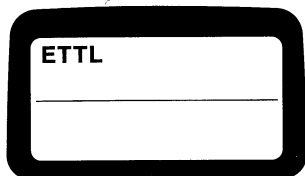
M: Manual Exposure and E-TTL Autoflash

In this mode, you set both the shutter speed and aperture. The E-TTL autoflash system controls the flash exposure based on the aperture you set. The proper exposure of the background is set with both the aperture and shutter speed.



1 Set the camera's shooting mode to M and set the aperture and shutter speed.

- Set the desired aperture and the shutter speed anywhere from 30 sec. to the top sync speed. You can also use buLb.



2 Set the MR-14EX's flash mode to ETTL.



3 Focus and take the picture.

- Check that the  icon (flash ready) is displayed in the viewfinder before taking the picture.



With the EOS-1 V and EOS-3, you can check the background exposure level by looking at the exposure level indicator in the viewfinder.

The MR-14EX's advanced features are explained in this chapter. They are as follows:

- Selecting the Flash Tube (→p.26)
- Modeling Flash (→p.29)
- FE Lock (→p.30)
- Flash Exposure Compensation (→p.32)
- FEB (Flash Exposure Bracketing) (→p.34)
- High-Speed Sync (FP flash) (→p.36)
- Manual Flash Mode (→p.38)
- Second-Curtain Synchronization (→p.40)

For Type-A Cameras Advanced Flash Photography

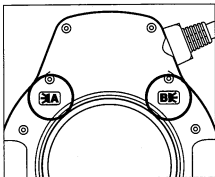


- This section uses the EOS-1 V as the Type-A camera.
- Before proceeding, first turn on the Main Switch on the EOS-1 V and MR-14EX.
- For EOS-1 V operations, refer to the EOS-1 V Instructions booklet.

☞☞ Selecting the Flash Tube

By firing only one of the flash tubes or by setting a flash ratio for flash tubes A and B, you can create shadows and sculptural lighting effects. You can set the flash ratio from 1:8 to 1:1 to 8:1 (13 levels) in 1/2-stop increments.

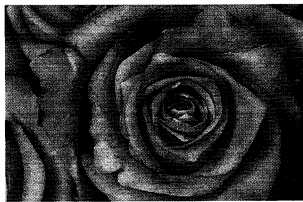
- * The **ETTL** flash mode must be set.
- * Since the flash exposure is controlled automatically, you need not bother with any flash metering calculations.
- * If you set the flash mode to **M**, see page 39.



The flash tube ID is “A” for the left one and “B” for the right one when you look at the rear of the flash ring.



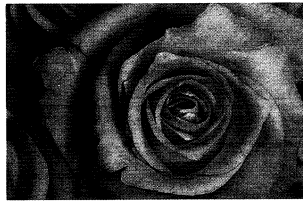
A:B=1:1



A:B=4:1

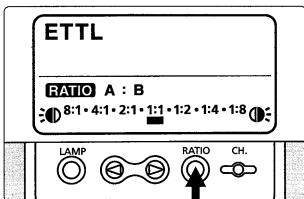


Only flash tube A fired.



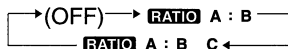
Only flash tube B fired.

Firing Both Flash Tubes

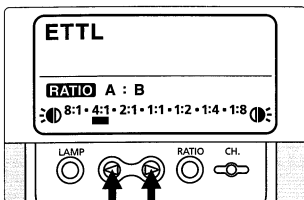


1 Press the <RATIO> button and select **RATIO A : B**.

- Each time you press the button, the selection will change in the following loop:



- The flash ratio and the $\Rightarrow$ and $\Leftarrow$ icons will be displayed.



2 Press the <Δ> or <▽> button to move the bar **left or right** to set the respective **A:B flash ratio**.

- You can set the flash ratio from 1:8 to 1:1 to 8:1

3 Focus and take the picture.

- Check that the ⚡ icon (flash ready) is displayed in the viewfinder before taking the picture.



- The flash ratio for the short bars ■ on the flash ratio scale is as shown below.

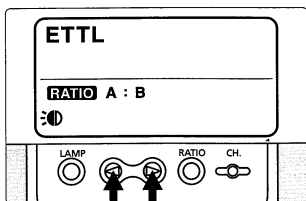
8:1 • 4:1 • 2:1 • 1:1 • 1:2 • 1:4 • 1:8

(5.6:1) (2.8:1) (1.4:1) (1:1.4) (1:2.8) (1:5.6)

- In exposure stops, the flash ratio range is equivalent to 3:1 to 1:1 to 1:3.
- Even if the **RATIO** icon is not displayed, both flash tubes will fire. The flash output will be the same for both flash tubes.
- You can also use the <SEL/SET> button and <+> <-> buttons to set the flash ratio for flash tubes A and B.

Firing Only One Flash Tube

Follow the same procedure as for “Firing Both Flash Tubes” except for step 2. For step 2, follow the operation below.



Press the **<◁>** or **<▷>** button to move the bar **■** all the way to the left or right to the **⌂A** or **⌂B** icon.

- **⌂A**: Fires only flash tube A **⌂A**
- **⌂B**: Fires only flash tube B **⌂B**



The flash ratio can be adjusted only with the EOS-1D, 1V, 3, D30, ELAN 7E/30, and ELAN 7/33 cameras. With other Type-A cameras, the flash ratio will be fixed at 1:1 for both flash heads. You can also fire only one of the flash heads.

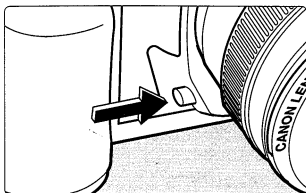
- Pressing the **<RATIO>** button will not display the **RATIO** icon and flash ratio. Selecting **⌂A** or **⌂B** will fire only one of the flash tubes. When both **⌂A** **⌂B** icons are displayed, both flash tubes will fire at the same output.

Modeling Flash

Firing a modeling flash enables you to check the lighting and shadow effects before you take the picture.

* The modeling flash is fired at 70 Hz for 1 sec.

Modeling Flash with Flash Ratio (w/EOS-1D, 1V, 3, D30, ELAN 7/7E, or 30/33)



Press the depth-of-field preview button.

- The modeling flash will fire according to the flash ratio that has been set.



To prevent overheating and deterioration of the flash tubes, do not fire the modeling flash more than 10 times in succession. After 10 times, allow the MR-14EX to cool for at least 10 minutes.

CF C.Fn-6 can disable the modeling flash with flash ratio. (→p.64)

CF C.Fn-4 can have the modeling flash fire at a uniform output with all Type-A cameras. (→p.64)

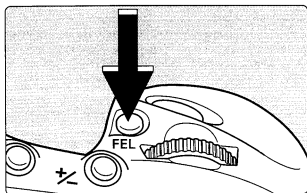
FE Lock

With Type-A cameras, you can set FE (flash exposure) lock. This is the flash version of AE lock. With FE lock, you use spot metering to obtain the correct flash exposure reading for a specific area of the subject.

* The flash mode must be set to **ETTL**.

1 Select a shooting mode with the camera.

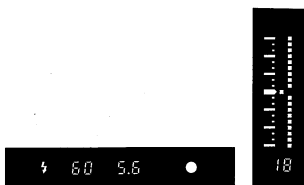
2 Focus the subject.



3 Aim the viewfinder's spot metering circle over the area of the subject to be metered. Then press the <FEL> button on the camera. FE lock remains in effect for 16 sec.

- The MR-14EX fires a preflash to obtain an exposure reading. The reading is retained temporarily in memory.
- FEL is displayed on the viewfinder bottom for 0.5 sec.
- You can obtain a new FE lock reading by pressing the <FEL> button again.
- To cancel FE lock, wait until 16 sec. elapse or press the <MODE>, <AF>, or <Ⓢ> button on the camera.

4 Focus the subject.



5

Take the picture

- In the viewfinder, check the flash exposure level indicator and check that the  icon is displayed.

**With FE lock**

The flash exposure was locked on the leaf where the butterfly was resting. After recomposing, the picture was taken. Since the butterfly's white wings and the dark background did not affect the flash exposure reading, the butterfly was exposed correctly.



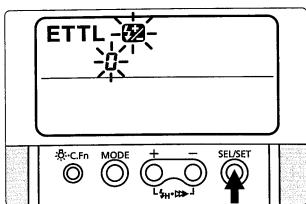
- If the flash will be insufficient,  will blink. Use a larger aperture (smaller f-number) and try FE lock again
- FE lock cannot be used when the MR-14EX is set to the M (Manual) flash mode. With the EOS Elan II/Elan IIE/50/50E and EOS IX, the  icon blinks in the viewfinder to warn that FE lock cannot be used.



- The preflash for FE lock fires at about 1/32 output.
- With Type-A cameras other than the EOS-1D, 1V and EOS-3, the AE lock button functions as an FE lock button when the MR-14EX is flash-ready.
- If the subject is smaller than the spot metering circle, using FE lock might not make any difference.

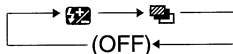
Flash Exposure Compensation

With the MR-14EX, you can set the flash exposure compensation up to ± 3 stops in 1/3-stop increments (or 1/2-stop increments with some cameras). In tandem, you can also set exposure compensation with the camera to control the background's exposure level in the flash picture.

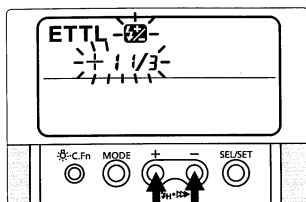


1 Press the <SEL/SET> button and select .

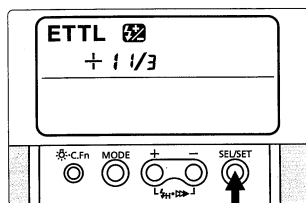
- Pressing the button changes the blinking selection in the following loop:



- The  icon and flash exposure compensation amount will blink.



2 Press the <+> or <-> button to set the desired flash exposure compensation amount.



3 Press the <SEL/SET> button.

- The  icon and flash exposure compensation amount will be displayed.

4 Focus the subject.

- When you press the shutter button halfway, the flash exposure compensation amount will be displayed on the viewfinder's right and the $\pm$ icon will be displayed on the viewfinder bottom.

5 Take the picture

- Check that the $\pm$ and $\pm$ icons are displayed in the viewfinder before taking the picture.



- Flash exposure compensation set with the MR-14EX overrides any flash exposure compensation set with the camera.
- In step 3, instead of pressing the <SEL/SET> button, you can press the shutter button halfway to set the flash exposure compensation.
- If you take a picture during step 2 (while the flash exposure compensation amount is still blinking), the flash exposure compensation will take effect in the picture according to the blinking amount.
- If the subject is small and the background is dark or far away, flash exposure compensation may not obtain the desired result. In such a case, use the manual flash mode. (→p.38)



How exposure compensation affects the flash picture

	Effect
E-TTL flash exposure compensation	Changes the flash exposure of the subject.
AE exposure compensation	Changes the background exposure.
Changing the ISO film speed setting	Changes both the flash (subject) exposure and background exposure.

FEB (Flash Exposure Bracketing)

You can change the flash exposure level automatically while keeping the background exposure level the same. Three flash shots can be bracketed up to ± 3 stops in 1/3-stop increments (or 1/2-stop increments with some cameras) as follows: Correct exposure, decreased exposure, and increased exposure. FEB is canceled automatically after all three bracketed flash shots are taken.



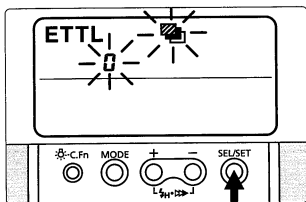
Correct exposure.



Decreased exposure by 1 stop.

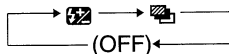


Increased exposure by 1 stop.

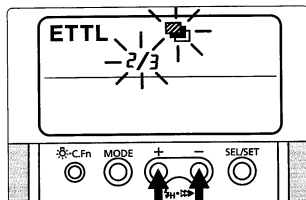


1 Press the <SEL/SET> button and select .

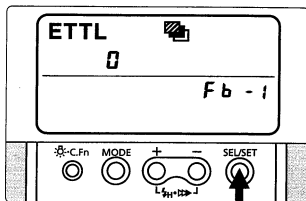
- Pressing the <SEL/SET> button changes the blinking selection in the following loop:



- The  icon and flash exposure bracketing amount will blink.



2 Press the <+> or <-> button to set the flash exposure bracketing amount.



3

Press the <SEL/SET> button.

- The MR-14EX's LCD panel display will be as shown on the left.

4

Focus the subject

- When you press the shutter button halfway, the FEB setting is displayed on the viewfinder's right.

5

Take the picture.

- Check that the ⚡ icon is displayed in the viewfinder before taking the picture.

6

Repeat steps 4 to 5 to take the remaining two bracketed shots.

- After all three bracketed shots are taken, the FEB setting is cancelled automatically.



FEB cannot be used with any flash exposure compensation set with the camera.



- Before taking the picture, make sure that the MR-14EX's pilot lamp is lit or the ⚡ icon is displayed in the viewfinder. The □ (single-frame) film advance mode is recommended.
- In the □, □L, □H, or □H* continuous shooting mode with the EOS-1D, 1V or EOS-3, the next bracketed picture will not be taken if the flash is not ready. While the flash is not ready, you can still take a picture in the normal AE mode if you release your finger from the shutter button and press it completely.
- With Type-A cameras other than the EOS-1D, 1V and EOS-3, if the flash is not ready, you can still take pictures in the normal AE mode.
- When the flash is ready, you can resume taking the bracketed flash shots.



- FE lock and FEB can be used in combination.
- FEB and flash exposure compensation can be set together with the MR-14EX. In this case, the FEB amount will shift according to the flash exposure compensation amount.

CF

C.Fn-1 can prevent the FEB setting from canceling automatically after the three bracketed flash shots are taken. (→p.64)

CF

C.Fn-2 can change the sequence of the bracketed flash shots. (→p.64)

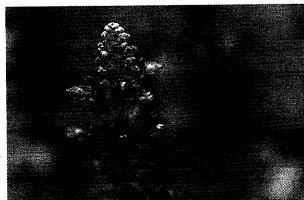
High-Speed Sync (FP Flash)

With high-speed sync (FP flash), the MR-14EX can synchronize with the camera at all shutter speeds even those faster than the normal sync speed. When high-speed sync is set,  is displayed in the viewfinder.

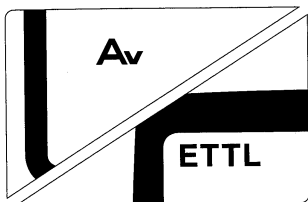
- * High-speed sync can be used in the **ETTL** and **M** flash modes.
- * High-speed sync is especially effective for fill-flash in daylight, enabling you to:
 - (1) Obtain better background blur with a larger aperture.
 - (2) Soften shadows.



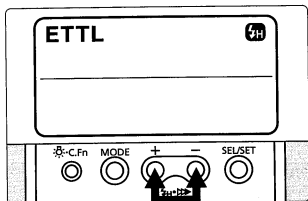
With normal flash.



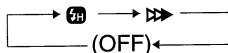
With FP flash.



- 1** Select the camera's shooting mode and the MR-14EX's flash mode.



- 2** Press the **<+>** and **<->** buttons simultaneously to select .
 - Each time you press the **<+>** and **<->** buttons simultaneously, the setting changes in the following loop.





Focus and take the picture.

- Check that the  icon is displayed in the viewfinder before taking the picture.



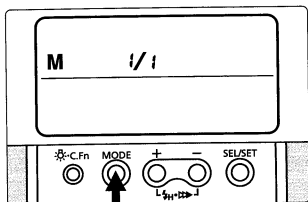
- To cancel high-speed sync, press the <+> and <-> buttons simultaneously so that the  icon on the LCD panel turns off.
- If you want to use a large aperture (smaller f-number), set the **Av** or **M** mode.
- With high-speed sync, the MR-14EX's Guide No. changes depending on the shutter speed (→71). The faster the shutter speed, the smaller the Guide No. will be.
- When high-speed sync is used in the manual flash mode, the flash output ranges from 1/1 to 1/64.

M Manual Flash Mode

In the manual flash mode, you can set the flash output from 1/1 (full) to 1/64 power in whole-stop increments. The flash tubes can be fired in one of three configurations: 1. Fire both flash tubes at the same output, 2. Fire flash tube A at a different output from flash tube B, 3. Fire only one of the flash tubes.

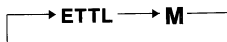
Firing Both Flash Tubes at the Same Output

1 Set the camera's shooting mode to A_v or M.

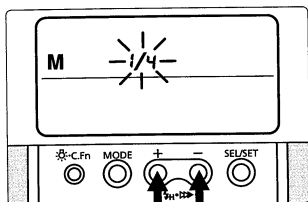


2 Press the MR-14EX's <MODE> button and select M.

► Pressing the <MODE> button toggles the flash mode between E TTL and M.



3 Press the <SEL/SET> button.
► The flash output display blinks.



4 Press the <+> or <-> button to set the desired flash output.

► Each time you press the button, the flash output increases or decreases by one stop.

5 Press the <SEL/SET> button again.
► The flash output is displayed.

6 Set the camera's aperture.

7 Focus and take the picture.

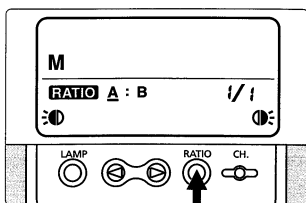
• Check that the  icon (flash ready) is displayed in the viewfinder before taking the picture.



To determine the correct flash exposure, use a hand-held flash meter or take test shots.

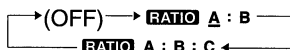
Firing Both Flash Tubes at a Different Output

For step 3 on the preceding page, following the procedure below to set a different flash output between flash tube A and B



Press the <RATIO> button and select **RATIO A : B.**

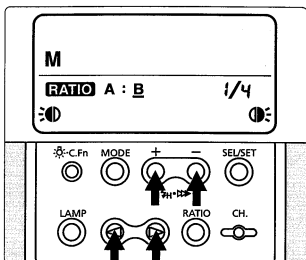
- Each time you press the button, the selection will change in the following loop:



- The flash output is displayed on the lower right of the LCD panel. When **A** is displayed, the flash output displayed is for flash tube A.

Press the <◁> or <▷> button to select flash tube A or B, then press the <+> or <-> button to set the flash output.

- First select the flash tube, then set the flash output for that flash tube.
- The remaining steps are the same as steps 6 and 7 on the preceding page.



Firing Only One Flash Tube

Press the <-> button and set the flash output to --. This disables the selected flash tube from firing.

- The -- setting comes after the 1/64 setting. The flash tube whose flash output is set to -- will not fire. Also, you cannot set -- for both flash tubes.



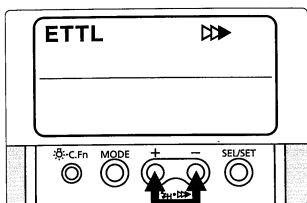
- To prevent overheating and deterioration of the flash tubes, observe the following limits for continuous shooting with flash. If you reach the limit, allow the MR-14EX to cool for at least 10 min.

- At 1/1 or 1/2 output: Max. 15 continuous flash shots.
- At 1/4 to 1/8 output: Max. 20 continuous flash shots.
- At 1/16, 1/32, or 1/64 output: Max. 40 continuous flash shots.

▶▶ Second-Curtain Synchronization

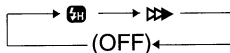
Normally, the flash fires in synchronization with the first shutter curtain when the shutter is fully open. With second-curtain synchronization, the flash fires immediately before the second shutter curtain closes at the end of the exposure.

1 Set the shooting mode with the camera.



2 Press the <+> and <-> buttons simultaneously to select ▶▶ on the LCD panel.

- Each time you press the <+> and <-> buttons simultaneously, the synchronization mode changes in the following loop:



3 Focus and take the picture.

- Check that the ⚡ icon is displayed in the viewfinder before taking the picture.



- To cancel second-curtain synchronization, press the <+> and <-> buttons simultaneously to turn off the ▶▶ icon on the LCD panel.
- With the Rebel G/500N, TTL autoflash is used with second-curtain synchronization.
- Second-curtain synchronization does not work with the camera's □ (Full Auto) shooting mode and Programmed Image Control modes.

This chapter explains the MR-14EX's built-in features for wireless flash photography with one or more additional Speedlites.

- Setting Up a Wireless Flash System (→p.42)
- Using the Wireless Flash System (→p.45)

4

For Type-A Cameras Wireless Flash Photography



- This chapter uses the EOS-1V, MR-14EX, and 550EX (slave unit) for explanatory purposes
- Before proceeding, turn on the camera and flash units' main switch.
- For EOS-1 V operations, refer to the EOS-1 V Instructions booklet.
- For wireless operations with Type-A cameras other than the EOS-1D, 1V, 3, D30, ELAN 7/7E, and 30/33, see **CF** on page 45.

Setting Up a Wireless Flash System

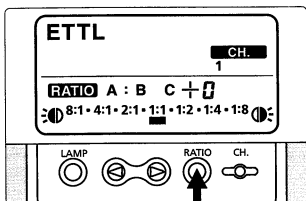
By using a Speedlite 550EX as a slave unit, you can set up a wireless flash system with the MR-14EX.

Setting the MR-14EX as the Master Unit

As with the Speedlite 550EX, the MR-14EX can be set as the master unit which transmits wireless signals to the slave unit.

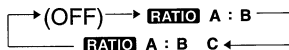
1 Press the MR-14EX's <MODE> button and select **ETTL**.

- Pressing the <MODE> button toggles the flash mode between **ETTL** and **M**.

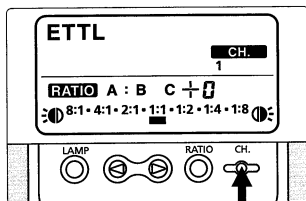


2 Press the <RATIO> button and select **RATIO A : B C**.

- Each time you press the button, the selection will change in the following loop:



- CH.** will be displayed.



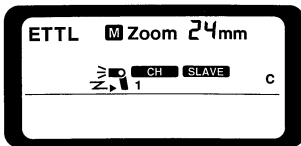
3 Press the <CH.> button to select the channel.

- Select a channel from 1 to 4.

! Be sure to set the same channel No. for the master and slave unit. Otherwise, slave C will not fire.

Setting the 550EX as a Slave Unit

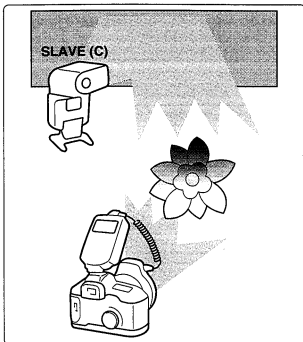
To set the 550EX as a slave unit, refer to page 53 in the 550EX's Instructions booklet.



1 Set the same channel No. as the master unit.

2 Set the slave ID to C.

Positioning and Test Firing

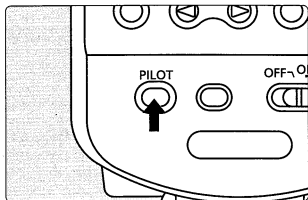


1 After setting up the wireless flash system, position slave C as shown in the left diagram.

- When indoors, position the slave unit within 5 meters from the master unit. When outdoors, position it within 3 meters. The slave unit should also be within an 80-degree angle in front of the master unit.
- Face the slave unit's transmission sensor toward the master unit.
- Indoors, the transmission signals can bounce off the walls so the slave unit's positioning can be a little more flexible.
- Do not place any objects between the master unit and slave unit which may obstruct the wireless transmission.

2 Check that the master unit's pilot lamp is lit and that slave C is flash-ready.

- When the slave unit is flash-ready, its AF-assist light will blink.



3 Press the master unit's pilot lamp (test firing button) to fire a test flash.

- The master unit and slave unit should fire (at 1/64 output).
- If the slave unit does not fire, reposition it closer to the master unit and more toward the front and center of the master unit. Then fire a test flash again.

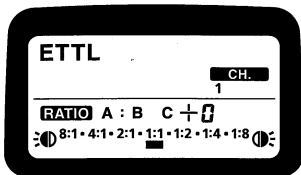


- In a wireless flash system, the flash mode (E-TTL autoflash or manual flash), flash ratio, flash exposure compensation, FEB, FP flash, and other settings are all set with the master unit. The master unit transmits all these settings to the slave unit via wireless signals.
- Before taking the picture, you can fire a modeling flash (→p.29) to check the lighting effects.
- Test firing cannot be executed while the camera's metering is active for 6 sec.
- In the manual flash mode, the test flash will be fired at the manually-set flash output.

Using the Wireless Flash System

Using Slave C (w/EOS-1D, 1V, 3, D30, ELAN 7/7E, or 30/33)

You can fire flash tubes A and B and slave C at the same time. A correct flash exposure is obtained with flash tubes A and B together, and slave C alone is set automatically to obtain a correct exposure. Slave C is used to eliminate background shadows or to create accent lighting.



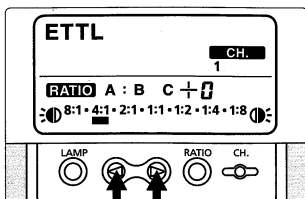
- 1 Check that **RATIO A : B C** is displayed on the LCD panel.
 - If it is not displayed, press the <RATIO> button until it is displayed. (→p.42)
- 2 Check that the master unit's pilot lamp is lit and that slave C is also flash-ready.
- 3 Focus and take the picture.
- 4 Check that the master unit's flash exposure confirmation lamp lights.

- If the flash output of flash tube A or B or slave C is insufficient, the master unit's flash exposure confirmation lamp will not light.
- If you use slave C to illuminate the subject directly, overexposure of the subject may result.
- If you set **RATIO A : B**, slave C will not fire.
- In a wireless flash system, the master unit will always fire both flash tubes A and B. You cannot fire only one flash tube in a wireless flash system.

- CF** With Type-A cameras, C.Fn-5 can have both the master unit and slave unit fire together as one group. (→p.64)
- While **RATIO** is not displayed on the master unit, you can just position the slave unit as desired.

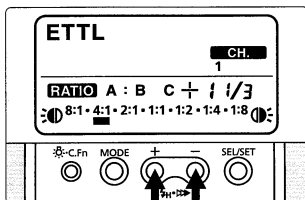
Using the Wireless Flash System

You can also set a flash ratio for flash tubes A and B and set flash exposure compensation for slave C. After step 1 on the preceding page, follow the procedure below.



Press the <◁> or <▷> button to set a flash ratio for flash tubes A and B.

- To set the flash ratio for flash tubes A and B, see page 27.
- The sample diagram on the left shows the left:right flash ratio set to 4:1.
- When **RATIO** is displayed, you can change the flash ratio anytime.



Press the <+> or <-> button to set slave C's flash exposure compensation amount.

- The amount can be set up to ± 3 stops in 1/3- or 1/2-stop increments.
- The remaining steps are the same as steps 2 and 4 on page 45.



You can also use the <SEL/SET> button and the <+> and <-> buttons to set the flash ratio for flash tubes A and B and slave C's flash exposure compensation amount.

Features Available with Wireless Flash

The following features can also be used in a wireless flash system:

- Wireless FE Lock
- Wireless flash exposure compensation
- Wireless flash exposure bracketing (FEB)
- Wireless high-speed sync (FP flash)



- To set the above features, see pages 30 to 37.
- You set all the above features with the master unit. You need not touch the slave unit's controls.

Wireless Manual Flash

With all Type-A cameras, you can also set up a wireless manual flash system.

Setting the flash output for flash tubes A and B and slave C

With **RATIO** A : B : C displayed on the master unit, set the flash output for flash tubes A and B. Then set the flash output for slave C. For the setting procedure, see "Firing Both Flash Tubes at a Different Output" on page 39.



- To determine the correct flash exposure, use a hand-held flash meter or take test shots.



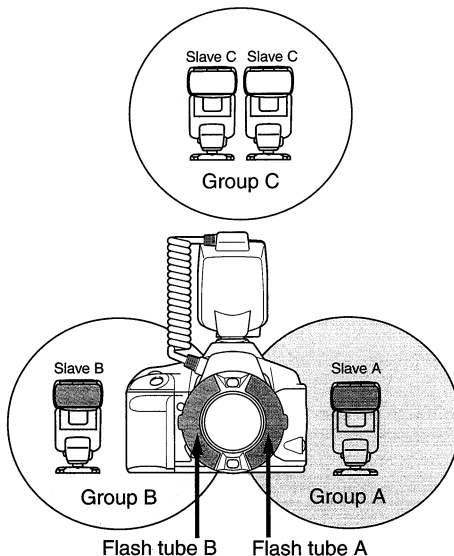
- CF** With all Type-A cameras, C.Fn-5 can set the same flash output for flash tubes A and B and slave C. (→p.64)
 - While **RATIO** is not displayed on the master unit, you can just set the flash output with the master unit.

Wireless Slave Groups

When C.Fn-5-1 is set, you can use additional Speedlites and set their slave IDs to A, B, or C.(→p.64)

By having multiple Speedlites set to the same slave ID, you can create a slave group to produce a brighter flash. For example, a slave unit whose slave ID is A will fire together with flash tube A. Each slave group is treated as one Speedlite, with the same flash settings applied to all the Speedlites in the group.

There is no limit as to the number of slave units that can belong to one group. With the EOS-1D, 1V, 3, D30, ELAN 7/7E, or 30/33, E-TTL autoflash control can be applied individually to each of the three A, B, and C slave groups. With other Type-A EOS cameras, the same E-TTL autoflash control is applied to all three groups. In the manual flash mode, all Type-A EOS cameras can apply E-TTL autoflash control individually to each of the three slave groups.



When the MR-14EX is mounted on a Type-B camera such as the EOS-1N, taking flash pictures with TTL autoflash is just as easy as normal autoexposure (AE) pictures. In the Full Auto mode, you can just press the shutter button to take flash pictures. Or you can set the shutter speed or aperture while the flash exposure is automatic. In this way, you can take various flash pictures.

With the EOS-1N, the flash exposure is controlled with the 3-zone, TTL autoflash system (real-time off-the-film flash metering).

For Type-B Cameras Basic Flash Photography

 In macro photography, setting the correct exposure greatly depends on the subject. It would be best to bracket the exposure even for the same subject. (→p.56)

-  This section uses the EOS-1N as the Type-B camera.
- Before proceeding, first turn on the Main Switch on the EOS-1N and MR-14EX.
 - For EOS-1N operations, refer to the EOS-1N Instructions booklet.

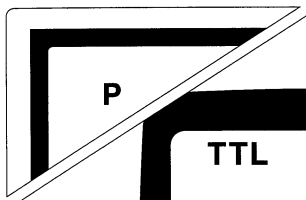
Using Flash with the Camera's Shooting Modes

For TTL autofocus shots, just set the camera's shooting mode to **P** (Program AE), **A_v** (aperture-priority AE), or **M** (Manual exposure). For serious closeup flash photography, **A_v** or **M** is recommended.

* When you press the shutter button completely, TTL autofocus metering (the light reflected off the film is metered and the flash is cut off when the proper amount of light is received) is used to control the flash exposure based on the flash aperture.

P: Program AE Mode and TTL Autoflash

Set the camera's shooting mode to **P**, and the camera will set the flash aperture and shutter speed automatically. You can thereby concentrate on the subject.



1 Set the camera's shooting mode to **P**.

2 Set the MR-14EX's flash mode to **TTL**.



3 Focus and take the picture.

- Check that the ⚡ icon (flash ready) is displayed in the viewfinder before taking the picture.



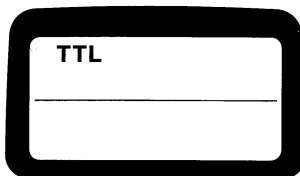
- If the camera has the Full Auto mode  and it is set to this mode, the shutter speed and aperture will be set in the same way as with the **P** mode (Program AE).
- If the **DEP** mode (depth-of-field AE) is used with the MR-14EX, it will be the same as using the **P** mode.
- If the **T_v** mode (shutter speed-priority AE) is used to set the shutter speed, the camera will set the flash aperture automatically. Since you cannot set the desired aperture in this mode, it is not recommended for closeup flash photography.

Av: Aperture-Priority AE and TTL Autoflash

This mode is effective for controlling the depth of field in your flash pictures. You can also obtain a correct exposure for both the subject and background. You set the aperture and the camera sets the shutter speed automatically for the correct exposure of the background. The TTL autoflash system obtains the correct flash exposure based on the aperture you set.



1 Set the camera's shooting mode to **Av** and set the aperture.



2 Set the MR-14EX's flash mode to **TTL**.



3 Focus and take the picture.

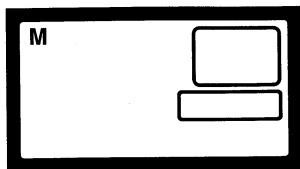
- Check that the ⚡ icon (flash ready) is displayed in the viewfinder before taking the picture.

- ❗ In low-light conditions, the shutter speed will be slow. Use a tripod.
- If you take the picture while the focusing lamp is on, underexposure may result. Wait until the focusing lamp turns off, then take the picture.

📄 If the top shutter speed display blinks, the background will be overexposed. Or if the slowest shutter speed (30") display blinks, the background will be underexposed. In such cases, change the aperture until the shutter speed display stops blinking.

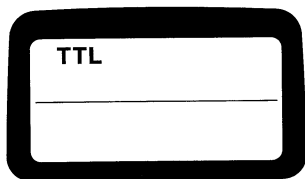
M: Manual Exposure and TTL Autoflash

In this mode, you set both the shutter speed and aperture. The TTL autoflash system controls the flash exposure based on the aperture you set. The proper exposure of the background is set with both the aperture and shutter speed.

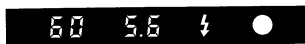


1 Set the camera's shooting mode to M and set the aperture and shutter speed.

- Set the desired aperture and the shutter speed anywhere from 30 sec. to the top sync speed. You can also use buLb.



2 Set the MR-14EX's flash mode to TTL.



3 Focus and take the picture.

- Check that the ⚡ icon (flash ready) is displayed in the viewfinder before taking the picture.



With the EOS-1N and EOS-1, you can check the background exposure level by looking at the exposure level indicator in the viewfinder.

The MR-14EX's advanced features are explained in this chapter. They are as follows:

- Selecting the Flash Tube (→p.54)
- Flash Exposure Compensation (→p.56)
- FEB (Flash Exposure Bracketing) (→p.58)
- Manual Flash Mode (→p.60)
- Second-Curtain Synchronization (→p.62)
- Wireless Manual Flash (→p.63)



For Type-B Cameras Advanced Flash Photography

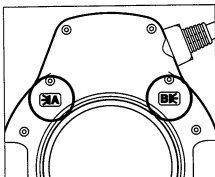


- This section uses the EOS-1N as the Type-B camera.
- Before proceeding, first turn on the Main Switch on the EOS-1N and MR-14EX.
- For EOS-1N operations, refer to the EOS-1N Instructions booklet.

☺☹ Selecting the Flash Tube

By firing only one of the flash tubes or both flash tubes, you can create shadows and sculptural lighting effects.

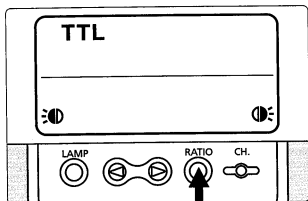
- * The **TTL** flash mode must be set.
- * If you set the flash mode to **M**, see page 61.



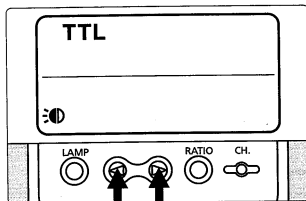
The flash tube ID is "A" for the left one and "B" for the right one when you look at the rear of the flash ring.



Only flash tube A fired. Both flash tubes fired. Only flash tube B fired.



- Press the <RATIO> button.**
 - The ☺☹ and ☹☺ icons will be displayed.



- Press the <◁> or <▷> button to select the flash tube(s).**
 - ☺☹ ☹☺: ☺A and ☹B will fire.
 - ☺☹ ☺☺: ☺A will fire.
 - ☹☹ ☹☹: ☹B will fire.

3

Focus and take the picture.

- Check that the ⚡ icon (flash ready) is displayed in the viewfinder before taking the picture.



A flash ratio cannot be set. You can fire both flash tubes at the same output or fire only one of the flash tubes.

Uniform Modeling Flash

Set C.Fn-4-1 (→p.64). Then you can press the test firing button to fire a modeling flash to see the lighting and shadow effects before taking the picture.

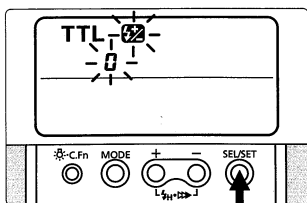
* The modeling flash is fired at 70 Hz for 1 sec.



To prevent overheating and deterioration of the flash tubes, do not fire the modeling flash more than 10 times in succession. After 10 times, allow the MR-14EX to cool for at least 10 minutes.

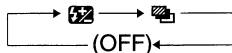
Flash Exposure Compensation

With the MR-14EX, you can set the flash exposure compensation up to ± 3 stops in 1/3-stop increments (or 1/2-stop increments with some cameras). In tandem, you can also set exposure compensation with the camera to control the background's exposure level in the flash picture.

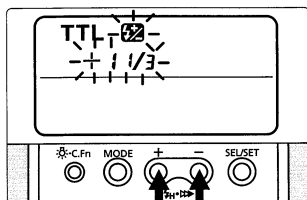


1 Press the <SEL/SET> button and select .

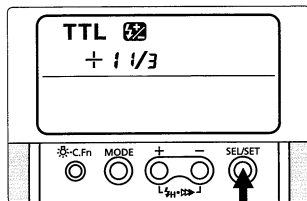
- Pressing the button changes the blinking selection in the following loop:



- The  icon and flash exposure compensation amount will blink.



2 Press the <+> or <-> button to set the desired flash exposure compensation amount.

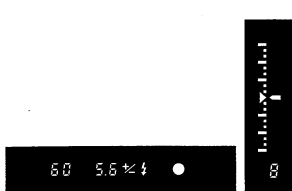


3 Press the <SEL/SET> button.

- The  icon and flash exposure compensation amount will be displayed.

4 Focus the subject.

- When you press the shutter button halfway, the  icon will be displayed on the viewfinder bottom.



5 Take the picture.

- Check that the  and  icons are displayed in the viewfinder before taking the picture.



- Flash exposure compensation set with the MR-14EX overrides any flash exposure compensation set with the camera.
- In step 3, instead of pressing the <SEL/SET> button, you can press the shutter button halfway to set the flash exposure compensation.
- If you take a picture during step 2 (while the flash exposure compensation amount is still blinking), the flash exposure compensation will take effect in the picture according to the blinking amount.
- If the subject is small and the background is dark or far away, flash exposure compensation may not obtain the desired result. In such a case, use the manual flash mode. (→p.60)



How exposure compensation affects the flash picture

	Effect
TTL flash exposure compensation	Changes the flash exposure of the subject.
AE exposure compensation	Changes the background exposure.
Changing the ISO film speed setting	Changes both the flash (subject) exposure and background exposure.

FEB (Flash Exposure Bracketing)

You can change the flash exposure level automatically while keeping the background exposure level the same. Three flash shots can be bracketed up to ± 3 stops in 1/3-stop increments (or 1/2-stop increments with some cameras) as follows: Correct exposure, decreased exposure, and increased exposure. FEB is canceled automatically after all three bracketed flash shots are taken.



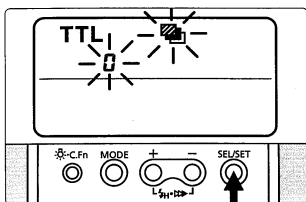
Correct exposure.



Decreased exposure by 1 stop.

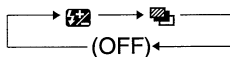


Increased exposure by 1 stop.

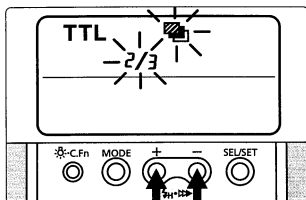


1 Press the <SEL/SET> button and select .

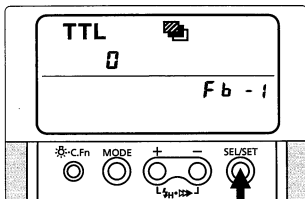
Pressing the <SEL/SET> button changes the blinking selection in the following loop:



The  icon and flash exposure bracketing amount will blink.



2 Press the <+> or <-> button to set the flash exposure bracketing amount.



3

Press the <SEL/SET> button.

- The MR-14EX's LCD panel display will be as shown on the left

4

Focus the subject.

- When you press the shutter button halfway, the $\frac{1}{2}$ icon is displayed on the viewfinder's bottom.

5

Take the picture.

- Check that the $\frac{1}{2}$ and $\frac{1}{2}$ icons are displayed in the viewfinder before taking the picture.

6

Repeat steps 4 to 5 to take the remaining two bracketed shots.

- After all three bracketed shots are taken, the FEB setting is cancelled automatically.



FEB cannot be used with any flash exposure compensation set with the camera.



- Before taking the picture, make sure that the MR-14EX's pilot lamp is lit or the $\frac{1}{2}$ icon is displayed in the viewfinder. The $\square$ (single-frame) film advance mode is recommended.
- If the flash is not ready, you can still take pictures in the normal AE mode. When the flash is ready, you can resume taking the bracketed flash shots.



FEB and flash exposure compensation can be set together with the MR-14EX. In this case, the FEB amount will shift according to the flash exposure compensation amount.

CF

C.Fn-1 can prevent the FEB setting from canceling automatically after the three bracketed flash shots are taken. (→p.64)

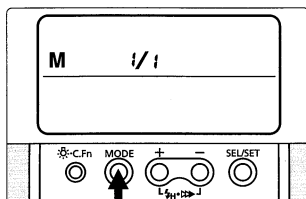
CF

C.Fn-2 can change the sequence of the bracketed flash shots. (→p.64)

MManual Flash Mode

In the manual flash mode, you can set the flash output from 1/1 (full) to 1/64 power in whole-stop increments. The flash tubes can be fired in one of three configurations: 1. Fire both flash tubes at the same output, 2. Fire flash tube A at a different output from flash tube B, 3. Fire only one of the flash tubes.

Firing Both Flash Tubes at the Same Output



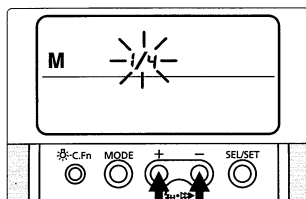
1 Set the camera's shooting mode to **A_v** or **M**.

2 Press the MR-14EX's <MODE> button and select **M**.

▸ Pressing the <MODE> button toggles the flash mode between **TTL** and **M**.



3 Press the <SEL/SET> button.
▸ The flash output display blinks.



4 Press the <+> or <-> button to set the desired flash output.

▸ Each time you press the button, the flash output increases or decreases by one stop.

5 Press the <SEL/SET> button again.
▸ The flash output is displayed.

6 Set the camera's aperture.

7 Focus and take the picture.

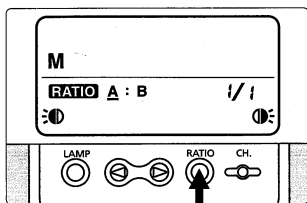
• Check that the  icon (flash ready) is displayed in the viewfinder before taking the picture.



To determine the correct flash exposure, use a hand-held flash meter or take test shots.

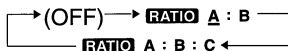
Firing Both Flash Tubes at a Different Output

After step 3 on the preceding page, following the steps below to set a different flash output between flash tube A and B.



Press the <RATIO> button and select **RATIO A : B.**

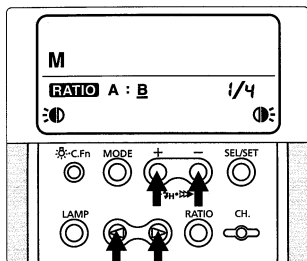
- Each time you press the button, the selection will change in the following loop:



- The flash output is displayed on the lower right of the LCD panel. When **A** is displayed, the flash output displayed is for flash tube A.

Press the <Δ> or <▷> button to select flash tube A or B, then press the <+> or <-> button to set the flash output.

- First select the flash tube, then set the flash output for that flash tube.
- The remaining steps are the same as steps 6 and 7 on the preceding page.



Firing Only One Flash Tube

Press the <-> button and set the flash output to --. This disables the selected flash tube from firing.

- The -- setting comes after the 1/64 setting. The flash tube whose flash output is set to -- will not fire. Also, you cannot set -- for both flash tubes.



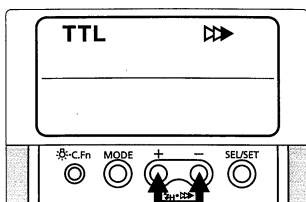
To prevent overheating and deterioration of the flash tubes, observe the following limits for continuous shooting with flash. If you reach the limit, allow the MR-14EX to cool for at least 10 min.

- (1) At 1/1 or 1/2 output: Max. 15 continuous flash shots.
- (2) At 1/4 to 1/8 output: Max. 20 continuous flash shots.
- (3) At 1/16, 1/32, or 1/64 output: Max. 40 continuous flash shots.

▶▶ Second-Curtain Synchronization

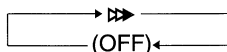
Normally, the flash fires in synchronization with the first shutter curtain when the shutter is fully open. With second-curtain synchronization, the flash fires immediately before the second shutter curtain closes at the end of the exposure.

1 Set the shooting mode with the camera.



2 Press the <+> and <-> buttons simultaneously to select ▶▶ on the LCD panel.

- ▶ Each time you press the <+> and <-> buttons simultaneously, the synchronization mode changes in the following loop:



3 Focus and take the picture.

- ▶ Check that the ⚡ icon is displayed in the viewfinder before taking the picture.



- To cancel second-curtain synchronization, press the <+> and <-> buttons simultaneously to turn off the ▶▶ icon on the LCD panel.
- Second-curtain synchronization does not work with the camera's  (Full Auto) shooting mode and Programmed Image Control modes.

Wireless Manual Flash

With all Type-B cameras, you can also set up a wireless manual flash system.

- * To set up a wireless flash system, follow the same procedure for Type-A cameras on page 42 to 44.
- * Wireless autoflash is not possible.

Setting the flash output for flash tubes A and B and slave C

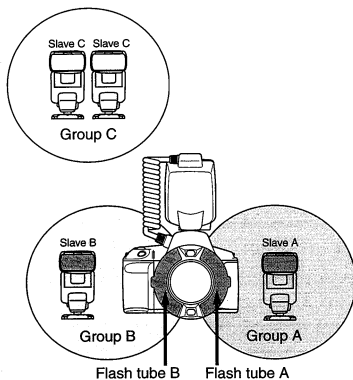
With **RATIO** A : B : C displayed on the master unit, set the flash output for flash tubes A and B. Then set the flash output for slave C. For the setting procedure, see “Firing Both Flash Tubes at a Different Output” on page 61.



To determine the correct flash exposure, use a hand-held flash meter or take test shots.

- CF** With all Type-B cameras, C.Fn-5 can set the same flash output for flash tubes A and B and slave C. (→p.64)
 - While **RATIO** is not displayed on the master unit, you can just set the flash output with the master unit.

Wireless Slave Groups



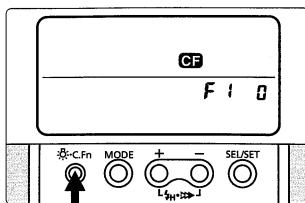
When C.Fn-5-1 is set, you can use additional Speedlites and set their slave IDs to A, B, or C. (→p.65)

By having multiple Speedlites set to the same slave ID, you can create a slave group to produce a brighter flash. For example, a slave unit whose slave ID is A will fire together with flash tube A. Each slave group is treated as one Speedlite, with the same flash settings applied to all the Speedlites in the group. There is no limit as to the number of slave units that can belong to one group.

Custom Functions

Custom Functions enable you to customize the MR-14EX's functions according to your preferences.

Setting a Custom Function

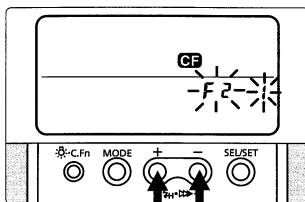


1 Press the <C.Fn> button for at least 2 sec.

- The **CF** icon, Custom Function No., and setting No. will appear on the LCD panel.

2 Press the <SEL/SET> button.

- The Custom Function No. and setting No. will start blinking.
- Each time you press the button, the next Custom Function No. will appear from F1 to F7.

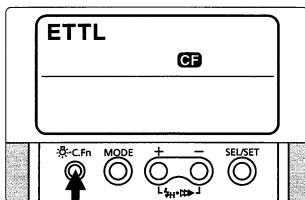


3 Press the <+> or <-> button to set the Custom Function setting.

- Set it to 0 or 1 according to your preference.

4 Press the <SEL/SET> button.

- The display stops blinking, and the Custom Function is set.



5 Press the <C.Fn> button or the <MODE> button

- The MR-14EX is now ready for picture-taking.
- You need not press the <C.Fn> button for 2 sec. or longer.

When a Custom Function has been set, the **CF** icon is always displayed on the LCD panel.

Custom Function Settings

Function	Custom Function No.	Setting No	Description
FEB cancellation after completion	C.Fn-1	0	Enabled
		1	Disabled (FEB continues)
FEB sequence	C.Fn-2	0	Correct exposure, decreased exposure, increased exposure
		1	decreased exposure, correct exposure, increased exposure
Flash metering system	C.Fn-3	0	E-TTL autofocus
		1	TTL autofocus
Test firing button	C.Fn-4	0	With E-TTL autofocus, fire at full output With manual flash, fire at the set output
		1	Uniform modeling flash
Wireless slave control	C.Fn-5	0	Slave C only
		1	Slaves A, B, and C
Modeling flash with flash ratio	C.Fn-6	0	Enabled
		1	Disabled (Depth-of-field preview)
Power source for flash charging	C.Fn-7	0	Internal power + External power
		1	External power only

C.Fn-4: Setting this to "1" will have the flash heads fire the modeling flash fire at the same output with all EOS cameras. If both flash heads have been set to fire with autofocus, both flash heads will fire the modeling flash at the same output. In the manual flash mode, the modeling flash will be fired at the flash ratio set manually.

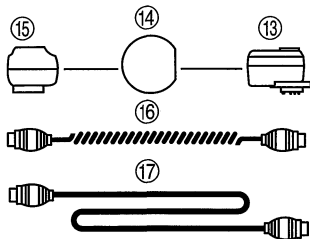
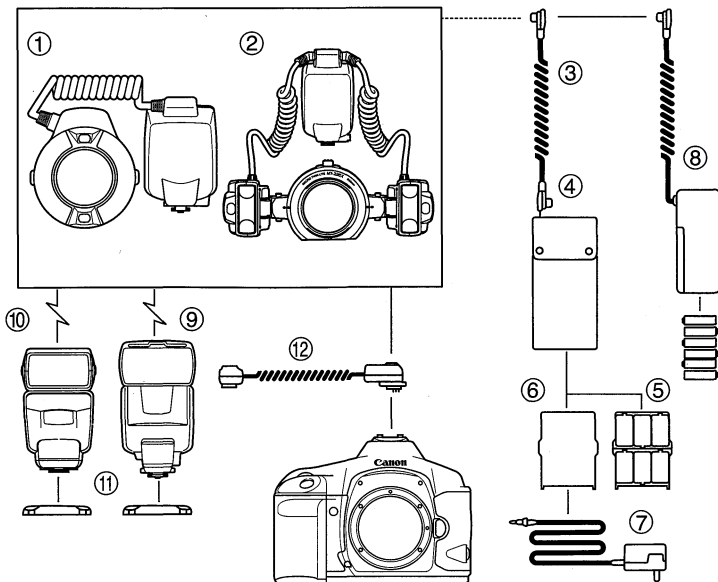
C.Fn-5: When this is set to "1", slave units whose ID is A or B will fire as part of the same slave group as flash tube A or B respectively.

C.Fn-7: When an external power pack is used, the flash unit uses both the internal and external power sources to recharge the flash. However, the internal power source may become exhausted sooner than the external power pack, preventing the flash from firing. By setting this Custom Function to "1," the flash unit will use only the external power pack to recharge the flash so that the internal power source will last longer. (The focusing lamp is always powered by the internal power source.)

- ❗ With a Type-A camera, the C.Fn-3-1 setting will not enable wireless operation with autofocus.
- With the EOS D30 camera, setting C.Fn-3-1 will disable the flash.
- If C.Fn-5-1 is set, you cannot have only one flash tube firing.

📷 With a Type-B camera, TTL autofocus will be set regardless of the C.Fn-3 setting.

MR-14EX/MT-24EX System



The accessories on the left enable wired, multi-Speedlite TTL autoflash.

- (13) TTL Hot Shoe Adapter 3
- (14) TTL Distributor
- (15) Off-Camera Shoe Adapter OA-2
- (16) Connecting Cord 60
- (17) Connecting Cord 300

- ① **Macro Ring Lite MR-14EX**
- ② **Macro Twin Lite MT-24EX**
- ③ **Connecting Cord ET** (included with Transistor Pack E)
- ④ **Transistor Pack E**
Houses Battery Magazine TP or Ni-Cd Pack TP.
- ⑤ **Battery Magazine TP**
Houses six size-C alkaline batteries.
- ⑥ **Ni-Cd Pack TP**
Ni-Cd pack dedicated to Transistor Pack E.
Shortens flash recycle time as with a high-voltage battery. Rechargeable with Ni-Cd Charger TP for repeated use.
- ⑦ **Ni-Cd Charger TP**
Dedicated charger for Ni-Cd Pack TP. Charging time is about 15 hours.
- ⑧ **Compact Battery Pack CP-E2**
Small and lightweight external power source. It uses six size-AA alkaline or nickel-hydride batteries. It can also use lithium batteries.
- ⑨ **Speedlite 550EX** (Slave unit)
- ⑩ **Speedlite 420EX** (Slave unit)
- ⑪ **Mini Stand** (provided with the 550EX and 420EX)
Mini stand to prop up the 550EX or 420EX positioned as a remote slave unit.
Tripod socket provided at the bottom.
- ⑫ **Off-Camera Shoe Cord 2**
For off-camera flash operation up to 60 cm away from the camera. All flash functions can be used. (Not compatible with the EOS 630/600 and RT.)

Troubleshooting Guide

The flash does not fire.	The MR-14EX's mounting foot is not securely mounted on the camera's hot shoe. ▶ Slide the mounting foot all the way into the hot shoe.(→p.13)
	The camera's hot shoe contacts or the MR-14EX's contacts are soiled. ▶ Clean the contacts. (→p.13)
The flash does not fire even after I connected the external power pack installed with new batteries.	Batteries have not been installed in the MR-14EX. ▶ Install batteries in the MR-14EX. (→p.10) The batteries in the MR-14EX are exhausted. ▶ Install new batteries in the MR-14EX. (→p.10)
The pictures came out underexposed (or overexposed).	Flash exposure compensation has been set. ▶ Cancel the flash exposure compensation. (→p.32, 56)
I want to fire only one flash tube, but I can't.	C.Fn-5-1 has been set. ▶ Set C.Fn-5-0. (→p.64) RATIO A : B C (RATIO A : B : C) has been set ▶ Set to RATIO A : B. (→ 27, 39, 61)
The power turns off automatically when I don't use the MR-14EX.	The main switch is set to SE. ▶ Set the main switch to ON. (→p.15) ▶ Press the test firing button. (→p.16)
I can't detach the MR-14EX from the camera's hot shoe.	The locking collar has not been loosened enough. ▶ Loosen the locking collar until the locking pin disengages.(→p.13)
Although I have a Type-A camera, wireless autoflash does not work.	C.Fn-3-1 has been set. ▶ Set C.Fn-3-0. (→p.64)
The slave unit does not fire.	The slave unit's wireless selector is set to OFF or MASTER. ▶ Set the wireless selector to SLAVE . (→p.16 of 550EX Instructions/→p.13 of 420EX Instructions) The slave unit is not within the master unit's wireless transmission range. ▶ Position the slave unit within the master unit's wireless transmission range. (→p.43, 63) The slave unit's transmission sensor is not facing toward the master unit. ▶ Face the slave unit's transmission sensor toward the master unit. (→p.43, 63)
When I use slave C, the picture comes out overexposed.	Slave C is pointed directly at the front of the subject. ▶ Use slave C in another way. (→p.43)

Specifications

Type	Closeup photography-dedicated, ring-type flash with two flash tubes, wireless transmission/reception functions, and E-TTL/TTL autoflash control
Compatible cameras	Type-A EOS cameras (for E-TTL autoflash control) Type-B EOS cameras (for TTL autoflash control)
Compatible lenses	EF 50mm f/2.5 COMPACT MACRO, EF 100mm f/2.8 MACRO USM, EF 100mm f/2.8 MACRO, EF 180mm f/3.5L MACRO USM, and MP-E 65mm f/2.8 1-5x
Flash coverage	80 deg. vertical, 80 deg. horizontal
Guide No.	(→p.71)
Flash count and recycling time	(→ p.11, 12)
Flash modes	(1) E-TTL autoflash (w/Type-A cameras) • FE lock, flash exposure compensation, FEB, flash ratio control (2) TTL autoflash (w/Type-B cameras) • Flash exposure compensation, FEB (3) Manual flash (w/Type-A/B cameras) • 1/1 - 1/64, whole-stop increments, 7 steps
Firing mode	(1) Normal flash (2) High-speed sync (FP flash) (3) Test flash (4) Modeling flash • With C.Fn-6-0: Modeling flash with flash ratio (w/EOS-1D, 1V, 3, D30, ELAN 77E, or 30/33) • With C.Fn-4-1: Uniform modeling flash (w/all EOS cameras) (5) Preflash
Flash tube firing mode	(1) Both flash tubes firing • Both flash tubes fired at the same output (E-TTL/TTL autoflash) • Both flash tubes fired according to a flash ratio (E-TTL autoflash) • Both flash tubes fired manually (Manual flash) (2) Only one flash tube firing (All flash modes) Only flash tube A or B fired
High-speed sync	Enabled in E-TTL autoflash and manual flash modes
Flash exposure compensation	(1) Automatic compensation: Automatic flash output reduction for fill flash. (2) Manual adjustment of flash exposure compensation w/the MR-14EX: Up to ± 3 stops in 1/3- or 1/2-stop increments (3) Manual adjustment of flash exposure compensation w/the camera: Up to ± 3 or ± 2 stops in 1/3- or 1/2-stop increments
FEB	Adjustable with the MR-14EX: Up to ± 3 stops in 1/3- or 1/2-stop increments
Flash tube A:B ratio control	1:8 - 1:1 - 8:1, 1/2-stop increments, 13 steps
Shutter curtain sync	1st- or 2nd-curtain sync enabled
Flash-ready indicator	Red pilot lamp
Flash range (at f/2.8, ISO 100)	(1) Normal flash: Approx. 20mm - 5 m/0.8 in - 16 ft (2) High-speed sync (FP flash) at 1/320 sec.: Approx. 20mm - 2.2 m/0.8 in - 7.2 ft
Flash exposure confirmation	Pilot lamp lights in yellow-green (for 3 sec.) immediately after the picture is taken.
Sync speed	(→ p.72)
Flash duration	(1) Normal flash: 1.4 ms or less (2) High-speed sync (FP flash): 26 ms or shorter.

Specifications

Color temperature	Approx. 5500 K (Equivalent to daylight)
Focusing lamps	Coverage: 40 deg. vertical, 45 deg. horizontal Light duration: Approx. 20 sec.
Wireless Functions	
Transmission system	Optical pulse transmission
Configuration	EOS camera, MR-14EX, and 550EX (slave)
Firing control	Slaves centrally controlled by MR-14EX master unit
Slave groups	[E-TTL autoflash] With EOS-1D, 1V, 3, D30, ELAN 7/7E, and 30/33: Max. 3 groups (A, B, C) With other Type-A cameras: 1 group (no ID) [Manual Flash] Max. 3 groups (A, B, C) with both Type-A and B cameras
Flash modes	(1) E-TTL autoflash (w/Type-A cameras) (2) Manual autoflash (w/Type-A/B cameras)
Channels	1 to 4
Transmission angle	Same as flash coverage
Transmission range (w/slave facing the master straight on)	Indoors: Approx. 20 cm - 5 m/0.65 ft - 16.4 ft Outdoors: Approx. 20 cm - 3 m/0.65 ft - 9.8 ft
Film speed	Set automatically according to the camera's setting (ISO 6 - 6400)
Custom Functions	(→p.64)
Main switch	3 positions: OFF, ON, SE (turns off after 90 sec. of idle)
Power source	[Internal power sources] (→p.11) (1) Size-AA alkaline batteries x 4 (2) Size-AA nickel-hydride batteries x 4 • Size-AA lithium batteries x 4 also can be used. [External power sources] (→ p.12, 66) (1) Compact Battery Pack CP-E2 (2) Transistor Pack E
Dimensions	Control unit: 74.0 (W) x 125.9 (H) x 97.4 (D) mm 2.9 (W) x 5.0 (H) x 3.8 (D) in Flash ring: 112.8 (W) x 126 (H) x 25.6 (D) mm 4.4 (W) x 5.0 (H) x 1.0 (D) in Cord length: Approx. 25 cm/9.8in
Weight	430g/15.1 oz (excluding batteries)

- Specifications are based on Canon's testing criteria.
- Specifications and the product exterior are subject to change without notice.

Guide No.**[Normal Flash]**

(At ISO 100 in meters/feet)

Flash Output	1/1	1/2	1/4	1/8	1/16	1/32	1/64
Guide No.	14.0/46.2	10.0/33	7.0/23.1	5.0/16.5	3.5/11.5	2.5/8.2	1.8/5.9

[High-Speed Sync (FP Flash)]

(At ISO 100 in meters/feet)

Shutter Speed (sec.)	1/125	1/160	1/200	1/250	1/320	1/400	1/500	1/640
Guide No.	7.9/26	7.6/25	7.2/23.7	6.8/22.4	6.2/20	5.5/18.1	4.9/16.1	4.4/14.5

Shutter Speed (sec.)	1/800	1/1000	1/1250	1/1600	1/2000	1/2500	1/3200	1/4000
Guide No.	3.9/12.8	3.5/11.5	3.1/10.2	2.7/8.9	2.4/7.9	2.2/7.2	1.9/6.2	1.7/5.6

Shutter Speed (sec.)	1/5000	1/6400	1/6000
Guide No.	1.5/4.9	1.4/4.6	1.2/3.9

* The above figures apply to both or only one flash tube firing at a manual flash output of 1/1.

Camera's Flash-Related Exposure Warnings

Mode	Warning Indication	Description	Remarks
Aperture-priority AE	Max. sync speed display blinks.	The background will be overexposed.	The flash exposure setting for the subject is correct. Changing the aperture may stop the shutter speed display from blinking.
Shutter speed-priority AE	Minimum aperture display blinks.	The background will be overexposed.	Only the flash exposure setting for the subject is correct.
	Maximum aperture display blinks.	The background will be underexposed.	
Program AE	Minimum aperture display blinks.	The subject is too bright.	Attach a neutral-density (ND) filter to the lens to reduce the amount of light received by the camera.

Feature Availability Table

Camera	Camera's Max. Sync Speed (sec.)					Autoflash Control		Wireless Flash
	1/90	1/125	1/200	1/250	1/500	E-TTL	TTL	E-TTL
EOS 650		●				×	●	×
EOS 620				●		×	●	×
EOS 750		●				×	●	×
EOS 850		●				×	●	×
EOS 630/600		●				×	●	×
EOS-1				●		×	●	×
EOS RT		●				×	●	×
EOS 10S/10		●				×	●	×
EOS 700		●				×	●	×
EOS 1000/1000F/ REBEL/REBEL S	●					×	●	×
EOS 100/ELAN		●				×	●	×
EOS REBEL II/REBEL S II/ 1000N/1000FN	●					×	●	×
EOS 5/A2/A2E			●			×	●	×
EOS 500/REBEL X/REBEL XS	●					×	●	×
EOS-1N/1N RS				●		×	●	×
EOS 5000/888	●					×	●	×
EOS 50/50E/ELAN II/ELAN II E		●				●	●*1	●*2
EOS REBEL G/500 N	●					●	●*1	●*2
EOS IX			●			●	●*1	●*2
EOS IX 7/IX Lite		●				●	●*1	●*2
EOS-3			●			●	●*1	●
EOS 3000/88	●					×	●	×
EOS 300/REBEL 2000	●					●	●*1	●*2
EOS-1V				●		●	●*1	●
EOS ELAN 7/7E/30/33		●				●	●*1	●
EOS D30			●			●	×	●
EOS 3000N/66	●					●	●*1	●*2
EOS-1D					●	●	×	●

*1 With C.Fn-3-1 set.

*2 Only one slave group can be controlled.

*3 With the EOS 700, the aperture will be fixed at f/5.6 for bulb exposures.

Feature Availability Table

●: Available. x: Not available.

Wireless Flash M	FP Flash	FE Lock	Flash Exposure Compensation		FEB	Flash Ratio Control	Modeling Flash	2nd-Curtain Sync
			w/flash	w/camera				
●	x	x	x	x	x	x	x	●
●	x	x	x	x	x	x	x	●
x	x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x	x
●	x	x	●	x	●	x	x	●
●	x	x	●	x	●	x	x	●
●	x	x	●	x	●	x	x	●
●	x	x	●	x	●	x	x	●
● ^{*3}	x	x	● ^{*4}	x	● ^{*4}	x	x	● ^{*4}
●	x	x	●	x	●	x	x	●
●	x	x	●	x	●	x	x	●
●	x	x	●	x	●	x	x	●
●	x	x	●	●	●	x	x	●
●	x	x	●	x	●	x	x	●
●	x	x	●	●	●	x	x	●
●	x	x	●	x	●	x	x	●
●	●	●	●	●	●	x	x	●
●	●	●	●	x	●	x	x	●
●	●	●	●	●	●	●	● ^{*5}	●
●	x	x	●	x	●	x	x	●
●	●	●	●	x	●	x	x	●
●	●	●	●	●	●	●	● ^{*5}	●
●	●	●	●	●	●	●	● ^{*5}	●
●	●	●	●	●	●	●	● ^{*5}	●
●	●	●	●	x	●	x	x	●
●	●	●	●	●	●	●	● ^{*5}	●

^{*4} Shutter-priority AE is possible.

^{*5} With C.Fn-6-0 set, modeling flash with flash ratio can be fired with the depth-of-field preview button.(With C.Fn-4-1 set, the test firing button fires a uniform modeling flash with all cameras.)



In this chapter, the features specific only to the MT-24EX are explained. Any features not mentioned here are the same as the MR-14EX's and they are explained on pages 7 to 73 instead.

Macro Twin Lite MT-24EX Features



In macro photography, the correct exposure depends on the subject. To be safe, always bracket your exposures for each subject. (→p.32,56)

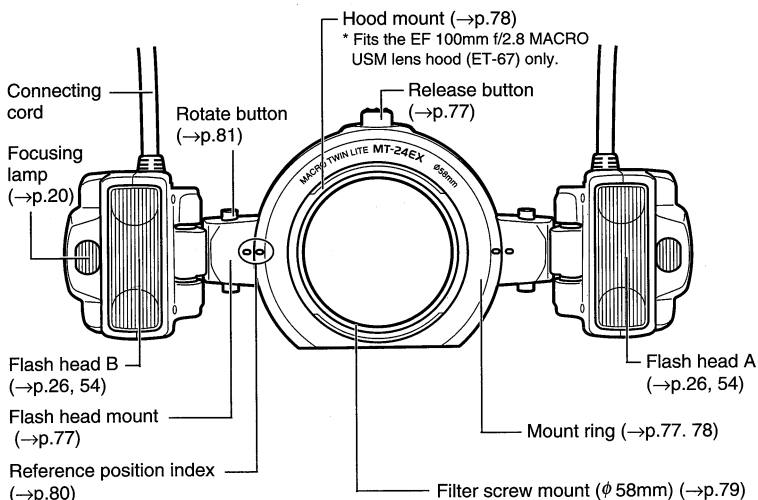


Before proceeding with any operation, be sure to turn on the camera and the MT-24EX's main switch. (→p.15)

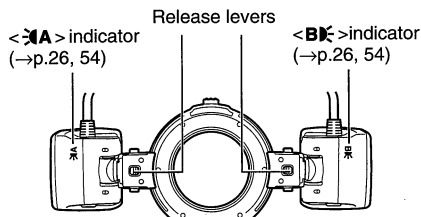
Nomenclature

The nomenclature of the control unit and LCD panel is the same as the MR-14EX's control unit and LCD panel (see p. 7 and 8).

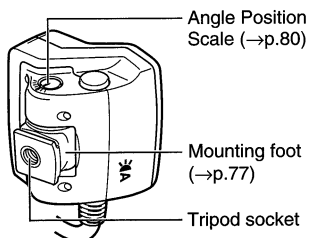
Flash Head Assembly (Flash heads + Mount ring)



Rear View

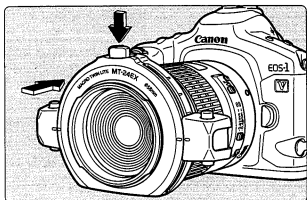


Side/Bottom View



Attaching the Flash Heads

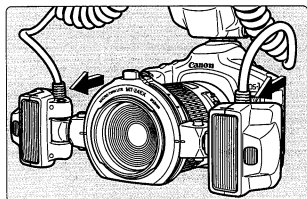
The MT-24EX can be attached directly to the front of the following lenses: EF 50mm f/2.5 COMPACT MACRO, EF 100mm f/2.8 MACRO USM, EF 100mm f/2.8 MACRO, and MP-E 65mm f/2.8 1-5x. It can also be attached to the EF 180mm f/3.5L MACRO USM with the Macro Lite Adapter 72C (Optional). See p.14.



1 Press and hold down the release button on the top of the mount ring.

2 Attach the mount ring to the front of the lens.

- Keep the release button positioned upward at the center.
- Let go of the release button and make sure the mount ring is securely attached to the lens.
- While rotating the mount ring, be sure to hold down the release button.
- To detach the mount ring, follow the attachment procedure in reverse.

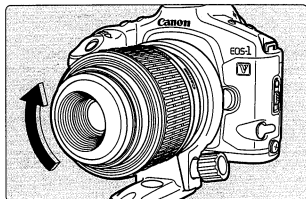


3 Attach the flash heads to the flash head mounts.

- Attach the control unit to the camera's hot shoe.(→p.13)
- Push in the guide mounting foot it snaps in place.
- To detach the flash heads, move the flash heads to the reference position (→p.80), then press the release lever to detach the heads.

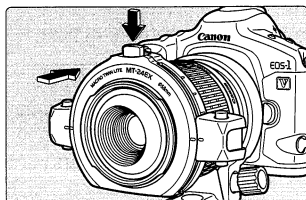
⚠ If the mount ring is attached to the EF 180mm f/3.5L MACRO USM lens and rotated without the release button being pressed, the Macro Lite Adapter 72C might over tighten on the lens filter screw threads and get stuck. To prevent this, be sure to hold down the release button while rotating the mount ring. If the Macro Lite Adapter 72C gets stuck, turn the mount ring without pressing the release button so that it is in close contact with the lens. Then turn it so that the Adapter detaches.

Attaching the MP-E 65mm f/2.8 1-5x's Dedicated Hood



1 Attach the dedicated hood to the MP-E 65mm f/2.8 1-5x's filter screw mount.

- The dedicated hood is optional.



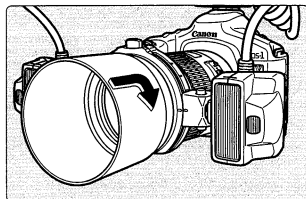
2 Attach the mount ring to the macro flash mount on the front of the lens.

- Make sure it is securely attached.
- Attach the flash heads to the flash head mounts.



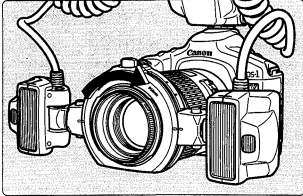
If the MP-E 65mm f/2.8 1-5x's dedicated hood is attached to a different EF macro lens, flash obstruction may occur.

Attaching the EF 100mm f/2.8 MACRO USM's Dedicated Hood ET-67



With the EF 100mm f/2.8 MACRO USM lens, you can also attach the ET-67 (Optional) hood to the bayonet mount on the front of the mount ring. **However, since the hood will obstruct part of the flash coverage, turn off the MT-24EX's main switch and use the existing light instead.**

Attaching a Filter



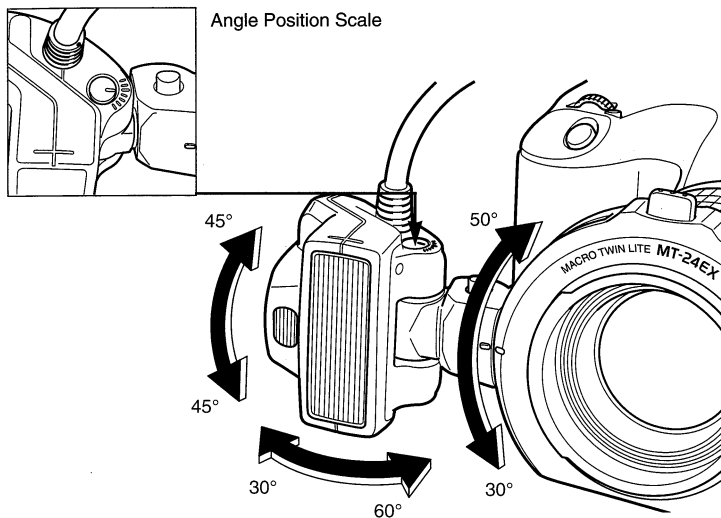
A 58mm dia. filter (Optional) can be screwed on to the mount ring.

❗ A filter cannot be attached to the mounting ring if you use the MP-E 65mm f/2.8 1-5x lens with the dedicated hood attached or if you use the EF 50mm f/2.5 COMPACT MACRO lens.

📖 With the EF 50mm f/2.5 COMPACT MACRO and EF 100mm f/2.8 MACRO lens, you can attach a 52mm filter directly to the lens and attach the mounting ring to it.

Flash Head Movements

To suit the subject or shooting conditions, the flash head can be tilted, swung, and rotated within the limits indicated below. The flash head's reference position is set when the mount ring's reference position index is aligned with the flash head mount's index (both flash heads are open at 180°). This gives a straight, frontal flash.



Flash Head Movements

Direction		Angle*	Click Stops
Tilt	Upward	45°	22.5° increments
	Downward	45°	
Swing	Inward	60°	15° increments
	Outward	30°	
Mounting Ring Rotation	Up	50°	5° increments
	Down	30°	

* Single flash head with respect to the reference position.

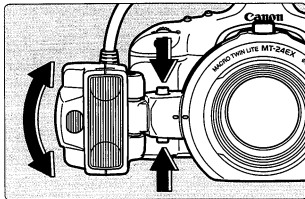
Flash Head Tilt and Swing Movements

To tilt or swing the flash head, just grasp it by hand and tilt and swing it as desired.

When swinging the flash head inward or outward from the standard position, refer to the angle position scale (15° increments) on the side of the flash head.

- ❗ Do not swing or tilt the flash heads beyond the maximum angle. Doing so may cause the flash head to fall off the flash head mount.
- With the EF 50mm f/2.5 COMPACT MACRO lens, swinging flash head B outward will have it come into contact with your hand holding the camera grip.

Rotating the Flash Heads on the Mount Ring

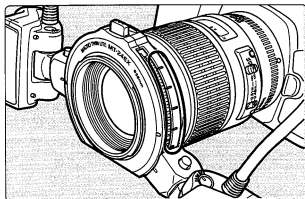


1
2

Hold down the rotate button.

- Use your fingers to hold down the button.

Rotate the flash head mount.



- While rotating the flash head mount, use the scale (15° increments) on the mount ring as a reference.

Rotating the Mount Ring

Be sure to hold down the release button while rotating the mount ring with your hand. Let go of the release button at the desired mount ring position.

- ❗ If the EOS IX or EOS IX 7/IX Lite is used with the EF 50mm f/2.5 COMPACT MACRO lens, rotating the mount ring from the reference position will have the flash head hit the control unit. The flash heads therefore cannot be rotated 180° in this way.

Setting the Flash Head Angle

The table below is a general guide to the flash head angle that should be set for the respective macro lens and magnification. Refer to the angle position scale (15° increments) on the side of the flash head and position both heads at the same angle. The angles specified in the table are inward angles with respect to the flash head's reference position.

Lens	Magnification	Inward Angle of Flash Head				
		60°	45°	30°	15°	0°
EF50mm f/2.5 COMPACT MACRO	1:2		●	●		
	1:2.5 - 1:3			●		
	1:4			●	●	
	1:5 - 1:6				●	
	1:8				●	●
	1:10					●
EF50mm f/2.5 COMPACT MACRO +LIFE-SIZE CONVERTER EF	1:1		●			
	1:1.2		●	●		
	1:1.5 - 1:2			●		
	1:4				●	
EF100mm f/2.8 MACRO USM	1:1 - 1:1.5			●		
	1:2			●	●	
	1:3				●	
	1:5					●
EF100mm f/2.8 MACRO	1:1		●			
	1:1.5			●		
	1:2			●	●	
	1:2.5 - 1:3				●	
	1:4					●
EF180mm f/3.5L MACRO USM	1:1			●	●	
	1:1.2 - 1:1.5				●	
	1:2 - 1:10					●
MP-E65mm f/2.8 1-5 ×	5 × - 2 ×	●				
	1 ×		●			

Flash Distance Range

The MT-24EX's effective flash distance range greatly depends on the position and angle of the flash heads. For best results, point the flash heads directly at the subject and use FE lock (→ p.30) and modeling flash (→ p.29, 55).

When the correct flash exposure is obtained, the flash exposure confirmation lamp lights (→ p.16).

i If you are shooting at around the closest focusing distance, stop down the aperture by about three stops (from max. aperture at ISO 100).

Custom Functions

The MT-24EX has nine Custom Functions from C.Fn-1 to C.Fn-9. C.Fn-1 to C.Fn-7 are the same as the MR-14EX's (→ p.65), and C.Fn-8 and C.Fn-9 are described below.

Custom Function Settings

Function	Custom Function No.	Setting No	Description
Flash ratio control increments	C.Fn-8	0	1/2-stop
		1	Full-stop
Focusing lamp on/off by double-clicking the shutter button halfway	C.Fn-9	0	Disabled
		1	Enabled

C.Fn-9: Setting this to "1" enables you to turn on/off the focusing lamp by double-clicking the shutter button halfway. This is convenient when both of your hands are busy. The clicking interval differs slightly depending on the EOS camera.
(The clicking interval cannot be adjusted.)

- i** C.Fn-9-1 does not work with the EOS D30.
- With the EOS Elan II/Elan II E/50/50 E, C.Fn-9-1 will work only while the pilot lamp is on.
- Turning the focusing lamp on and off too often will drain the batteries faster.
- If C.Fn-9-1 has been set, note that pressing the shutter button halfway too often during autofocus may inadvertently turn on/off the focusing lamp instead. This also applies to the AE lock button and depth-of-field preview button. Pressing any of these buttons twice in rapid succession or one button after another may turn the focusing lamp on or off.

Major Specifications

The following specifications are specific to the MT-24EX only. Other specifications are the same as the MR-14EX's.

Type	Closeup photography-dedicated, twin-flash unit with built-in wireless transmission/reception and E-TTL/TTL autoflash control
Configuration.....	Flash head assembly, mount ring, control unit, connecting cords
Flash coverage.....	Approx. 70 deg. vertical, 53 deg. horizontal (Reference position for one flash head)
Flash head movements.....	Relative to reference position Tilt: 45 deg. upward (22.5 deg. increments)/ 45 deg. downward (22.5 deg. increments) Swing: 60 deg. inward (15 deg. increments)/ 30 deg. outward (15 deg. increments) Mount ring rotation: 50 deg. upward (5 deg. increments)/ 30 deg. downward (5 deg. increments)
Maximum Guide No. (→ p.85) ..	Both flash heads: 24 Single flash head: 26 (at ISO 100 in meters)
Flash ratio control	1:8 - 1:1 - 8:1, 1/2-stop increments (full-stop increments with C.Fn-8-1), (Flash heads A:B) 13 steps
Flash distance range.....	(1) In normal mode (with f/2.8 lens and ISO 100) Both flash heads: Approx. 20 mm - 8.6 m/0.8 in - 28.2 ft Single head: Approx. 20 mm - 9.3 m/0.8 in - 30.5 ft (2) In high-speed sync (FP flash) at 1/320 sec. mode Both flash heads: Approx. 20 mm - 3.8 m/0.8 in - 12.5 ft Single head: Approx. 20 mm - 4.1 m/0.8 in - 13.5 ft
Focusing lamp.....	Duration: Approx. 20 sec. With C.Fn-9-1, the focusing lamp can be turned on/off by double-clicking the shutter button halfway.
Wireless transmission range ..	Indoors: Approx. 20 cm - 8m/0.65 ft - 26.2 ft Outdoors: Approx. 20 cm - 5 m/0.65 ft - 16.4 ft (while pointed at slave front and center)
Custom Functions (→ p.64,83) ..	Nine provided (C.Fn-1 to C.Fn-9)
Filter size	58mm dia. filter attachable to mount ring
Hood.....	EF 100mm f/2.8 MACRO USM lens-dedicated Hood ET-67 attachable to mount ring's hood mount(w/available light only)
Dimensions	Control unit: 74.0 (W) x 125.9 (H) x 97.4 (D) mm 2.9 (W) x 4.9 (H) x 3.8 (D) in Flash heads + mount ring: 235.0 (W) x 90.4 (H) x 49.0 (D) mm 9.2 (W) x 3.5 (H) x 1.9 (D) in Connecting cord: Approx. 30 cm/11.7 in, 6.6 mm/0.26 in dia.
Weight.....	585 g/20.64 oz (including control unit, flash heads, mount ring, and connecting cords. Excludes batteries.)

- All specifications are based on Canon's measuring and testing standards.
- Specifications and external appearance are subject to change without notice.

Guide No.**[Normal Flash]**

(At ISO 100 in meters/feet)

Flash Output	1/1	1/2	1/4	1/8	1/16	1/32	1/64
Guide No. w/twin heads	24/78.7	17/55.8	12/39.4	8.5/27.9	6.0/19.7	4.2/13.8	3.0/9.8
Guide No. w/single head	26/85.3	18.4/60.4	13/42.6	9.2/30.2	6.5/21.3	4.6/15.1	3.3/10.8

[High-Speed Sync (FP Flash)]

(At ISO 100 in meters/feet)

Shutter Speed (sec.)	1/125	1/160	1/200	1/250	1/320	1/400	1/500	1/640
Guide No. w/twin heads	15.9/52.2	14.9/48.9	13.3/43.6	11.9/39.0	10.6/34.8	9.4/30.8	8.4/27.6	7.5/24.6
Guide No. w/single head	17.2/56.4	16.2/53.2	14.4/47.2	12.9/42.3	11.5/37.7	10.2/33.5	9.1/29.9	8.1/26.6

Shutter Speed (sec.)	1/800	1/1000	1/1250	1/1600	1/2000	1/2500	1/3200	1/4000
Guide No. w/twin heads	6.7/30.0	5.9/19.4	5.3/17.4	4.7/15.4	4.2/13.8	3.7/12.1	3.3/10.8	3.0/9.8
Guide No. w/single head	7.2/23.6	6.4/21.0	5.7/18.7	5.1/16.7	4.5/14.8	4.1/13.5	3.6/11.8	3.2/10.5

Shutter Speed (sec.)	1/5000	1/6400	1/8000
Guide No. w/twin heads	2.6/8.5	2.4/7.9	2.1/6.9
Guide No. w/single head	2.9/9.5	2.6/8.5	2.3/7.5

* The above values apply to manual, full-output flash (1/1).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These equipment are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Complies with the Canadian ICES-003 class B specifications.

Respecte les exigences de la class B de la NMB-003 du Canada.



The CE Mark is a Directive conformity mark of the European Community (EC)

The apparatus shall not be exposed to dripping or splashing.
Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
Dry batteries shall not be subjected to charging.

[illegible]



CANON INC. 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

U.S.A.	CANON U.S.A. INC. For all inquiries concerning this camera, call toll free in the U.S. 1-800-OK-CANON or write to: Customer Relations, Canon U.S.A., Inc. One Canon Plaza, Lake Success, N.Y. 11042-1198
CANADA	CANON CANADA INC. HEADQUARTERS 6390 Dixie Road, Mississauga, Ontario L5T 1P7, Canada CANON CANADA INC. MONTREAL BRANCH 5990, Côte-de-Liesse, Montréal Québec H4T 1V7, Canada CANON CANADA INC. CALGARY OFFICE 2828, 16th Street, N.E. Calgary, Alberta T2E 7K7, Canada For all inquiries concerning this camera, call toll free in Canada 1-800-OK-CANON
EUROPE, AFRICA & MIDDLE EAST	CANON EUROPA N.V. Bovenkerkerweg 59-61, P.O. Box 2262, 1180 EG Amstelveen, The Netherlands CANON COMMUNICATION & IMAGE FRANCE S.A. 102, Avenue du Général de Gaulle 92257 La Garenne-Colombes Cedex, France CANON UK LTD. Woodhatch Reigate Surrey RH2 8BF, United Kingdom CANON DEUTSCHLAND GmbH Europark Fichtenhain A10, 47807 Krefeld, Germany CANON ITALIA S.p.A. Via Milano 8 I-20097 San Donato Milanese, Milano, Italy CANON Schweiz AG Geschäftsbereich Wiederverkauf, Industriestrasse 12, CH-8305 Dietlikon, Switzerland CANON G. m. b. H. Oberlaaerstrasse 233, 4th floor, 1100 Wien, Austria CANON España, S. A. C/Joaquín Costa, 41, 28002 Madrid, Spain SEQUE Soc. Nac. de Equip., Lda., Praça da Alegria, 58, 2º, 1269-149 Lisboa, Portugal
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OCEANIA	CANON AUSTRALIA PTY. LTD. 1 Thomas Holt Drive, North Ryde, N.S.W. 2113, Australia CANON NEW ZEALAND LTD. Akoranga Business Park, Akoranga Drive, Northcote, Auckland, New Zealand
JAPAN	CANON SALES CO., INC. 16-6, Kohnan 2-chome, Minato-ku, Tokyo 108-8011, Japan

This Instruction Booklet is current as of August 2001. For information on using this product with cameras introduced after this date, contact your nearest Canon Service Center.

PRESENT OWNERSHIP AND PRODUCTS INTERESTED IN
Articles déjà en possession ou jugés dignes d'intérêt
Productos en posesión y que le interesan

CAMERAS
Appareils
photo
CÁMARAS

(Camera)
(Appareil)
(CÁMARAS)

(Camera)
(Appareil)
(CÁMARAS)

INTERCHANGEABLE LENS
Objectif interchangeable
OBJETIVOS INTERCAMBIABLES

OWN
En possession
EN POSESIÓN

INTERESTED IN
Intéressé par
INTERESADO EN

OTHER ACCESSORIES
Autres accessoires
OTROS ACCESORIOS

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INTERESTED IN
Intéressé par
INTERESADO EN

CT5-7728-000

PRINTED IN JAPAN

MODEL
Modèle
MODELO

M.RING LITE MR-14EX

SERIAL NO.
No. de série
N° DE SERIE

CUSTOMER
Client
CLIENTE

NAME
Nom
NOMBRE

CITY/STATE
Ville/Province
CIUDAD/ESTADO

ADDRESS
Adresse
DIRECCION

ZIP
Code postal
CÓDIGO POSTAL

PHONE
Téléphone
TELEFONO

CANON INTERNATIONAL WARRANTY

Canon

CANON U.S.A., INC.
CANON CANADA., INC.

CANON U.K.RCC
CANON AUSTRALIA PTY LTD.

CANON NEW ZEALAND LTD.
CANON SALES CO. JAPAN

CANON LATIN AMERICA, INC.
CANON MEXICANA

NAME
NOM
NOMBRE

ADDRESS
ADRESSE
DIRECCION

CITY
VILLE
CIUDAD

PROVINCE
PROVINCIA

POSTAL CODE
CODE POSTAL
CÓDIGO POSTAL

MODEL
MODELE
MODELO

M.RING LITE MR-14EX

PURCHASE DATE
DATE D'ACHAT
FECHA DE COMPRA

/ /

BODY NO.
BOITIER NO
N° DE CUERPO

DEALER'S NAME & ADDRESS
MARCHAND NOM & ADRESSE
NOMBRE Y DIRECCION DEL DISTRIBUIDOR

Canon

LIMITED WARRANTY

The Limited Warranty set forth below is given by CANON COMPANY listed below with respect to Canon Photographic Products purchased in the United States, Canada, Australia, the United Kingdom, New Zealand, Mexico or Japan.

This Limited International Warranty is only effective upon presentation of the warranty card and proof of purchase.

This Canon equipment is warranted against defective materials or workmanship for one (1) year from the date of original purchase and is limited to repair, adjustment and/or replacement of defective parts.

Equipment covered by this Warranty will be repaired by Canon International Warranty Members located in the United States, Canada, Australia the United Kingdom, New Zealand, Mexico and Japan, WITHOUT CHARGE. (List of Canon International Warranty Members included with the equipment.)

Equipment covered by this Warranty will be repaired by Canon International Warranty Members WITHOUT CHARGE, except for insurance, transportation and handling charges. (See list of Canon International Warranty Members included with the equipment.)

When returning equipment for warranty service, the shipping charges must be prepaid and the equipment should be shipped in its original carton or box, or an equivalent, properly packed to withstand the hazards of shipment and be fully insured. A copy of this warranty card and proof of purchase should be enclosed, as well as a description of the problem, film samples, etc. Repairs will be made and the equipment will be returned, shipped at NO CHARGE within the country of repair.

This warranty only covers defective materials or workmanship encountered in normal use of the equipment and does not apply in the following cases:

(a) Loss or damage to the equipment due to abuse causing deterioration, mishandling, accident or failure to follow operating instructions.

(b) If equipment is defective as a result of leaking batteries or liquid damage.

(c) Defective materials or workmanship where the defect is due to the equipment having been serviced or modified by other than Canon International Warranty Members or other authorized service facilities around the world.

(d) Malfunction resulting from the use of accessories, attachments, product supplies, parts or devices (including, without limitation, batteries, film, lenses, flash attachments and other accessories) with this Canon photographic equipment that do not conform to Canon specifications.

(e) Damage resulting during shipment. (Claim must be presented and examined by the shipper.)

Equipment covered by this Canon photographic equipment may be repaired by Canon International Warranty Members located outside the United States, Canada, Australia, the United Kingdom, New Zealand, Mexico and Japan, WITHOUT CHARGE, except for insurance, transportation and handling charges. (Worldwide list of Canon International Warranty Members included with equipment.)

CANON COMPANY EXCLUDES ALL REPRESENTATIONS, WARRANTIES, CONDITIONS OR LIABILITIES (WHETHER EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) IN RELATION TO THE EQUIPMENT, EXCEPT THOSE WHICH ARE SET FORTH ABOVE AND/OR EXCEPT TO THE EXTENT THAT ANY SUCH EXCLUSION WOULD CONTRAVENE ANY STATUTE OR CAUSE THIS TERM TO BE VOID.

EXCEPT TO THE EXTENT THAT ANY SUCH EXCLUSION WOULD CONTRAVENE ANY STATUTE OR CAUSE THIS TERM TO BE VOID, CANON COMPANY EXCLUDES ALL LIABILITY TO THE PURCHASER IN RESPECT OF ANY CLAIM (WHETHER CONTRACTUAL, TORTIOUS, STATUTORY OR OTHERWISE) FOR ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS, DAMAGE, COST OR EXPENSE (INCLUDING, WITHOUT LIMITATION, ANY LOSS OF FILM) IN RELATION TO THE EQUIPMENT OR ANY SERVICES SUPPLIED BY CANON COMPANY IN RELATION TO THE EQUIPMENT. THIS WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS EQUIPMENT OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province and country to country.

KEEP THIS WARRANTY CARD, IT IS YOUR PERMANENT RECORD OF WARRANTY. IF LOST IT WILL NOT BE RE-ISSUED.

*Limited Warranty means that the contents of this warranty are limited to the above-mentioned terms and conditions.

Canon

GARANTIE LIMITEE

La garantie internationale décrite ci-dessous est accordée par la société CANON à l'égard des produits de photographie Canon achetés aux Etats-Unis, au Canada, en Australie, au Royaume-Uni, en Nouvelle Zélande, au Mexique ou au Japon.

La présente garantie internationale n'est valide que sur présentation de la carte de garantie et d'une preuve d'achat.

La présente équipement CANON est garanti contre les vices de matériaux ou de fabrication pendant une période de un (1) an à compter de la date de l'achat initial. Si l'équipement présente un défaut matériel pendant la période de garantie, les pièces défectueuses seront réparées, réglées et (ou) remplacées.

L'équipement sous garantie sera réparé SANS FRAIS par les membres du réseau mondial de fournisseurs de service sous garantie internationale de Canon, qui sont situés aux Etats-Unis, au Canada, en Australie, au Royaume-Uni, en Nouvelle Zélande, au Mexique et au Japon. (La liste des membres du réseau mondial de fournisseurs de service sous garantie internationale de Canon accompagne l'équipement.)

Si le produit est retourné pour être réparé ou remplacé au titre de la garantie, l'expéditeur du produit doit payer d'avance les frais d'expédition. L'équipement doit être envoyé dans sa boîte originale, ou dans un emballage équivalent, être assuré pour sa valeur intégrale, et il doit être emballé adéquatement pour éviter les risques de dommages en cours de transport. L'équipement doit être accompagné d'une copie de la présente carte de garantie, d'une preuve d'achat ainsi que d'une description du problème, d'échantillons de pellicule ou de toute autre preuve de défectuosité. Les réparations seront effectuées et l'équipement sera retourné à l'expéditeur, SANS FRAIS, si l'adresse de l'expéditeur est dans le pays où l'équipement a été réparé.

La présente garantie ne couvre que les vices de matériaux et de fabrication survenus dans le cadre d'une utilisation normale de l'équipement. Elle ne s'applique pas dans les cas suivants:

(a) perte de l'équipement ou dommage à l'équipement en raison d'un usage abusif menant à la détérioration, d'une manipulation inappropriée, d'un accident ou de tout défaut de suivre les directives d'utilisation;

(b) défauts dus à une fuite au niveau des piles ou dommages dus à une exposition à des substances liquides;

(c) vices de matériaux ou de fabrication dus à la réparation ou à la modification de l'équipement par un tiers, autre qu'un membre du réseau mondial de fournisseurs de service sous garantie de Canon, ou autre qu'un point de service autorisé au monde;

(d) défaut de fonctionnement découlant de l'usage d'accessoires, de compléments, de fournitures, de pièces ou de dispositifs (y compris, sans toutefois s'y limiter, les piles, les pellicules, les lentilles, les lampes-éclairs et autres accessoires) qui sont non conformes aux spécifications Canon et qui sont utilisés avec cet équipement de photographie Canon;

(e) dommages subis en cours de transport (Toute réclamation doit être présentée et examinée par le transporteur.)

L'équipement sous garantie peut être réparé SANS FRAIS par les membres du réseau mondial de fournisseurs de service sous garantie de Canon qui ont une place d'affaires à l'extérieur des Etats-Unis, du Canada, de l'Australie, du Royaume-Uni, de la Nouvelle Zélande, du Mexique et du Japon, mais le propriétaire de l'équipement devra assumer les frais d'assurance, de transport et de manutention. (La liste des membres du réseau mondial de fournisseurs de service sous garantie de Canon accompagne l'équipement.)

LA SOCIÉTÉ CANON DÉCLARE QU'IL N'EXISTE, À L'ÉGARD DE CET ÉQUIPEMENT, AUCUNE AUTRE DÉCLARATION, GARANTIE, CONDITION OU OBLIGATION (EXPRESSE OU TACITE, Y COMPRIS TOUTE GARANTIE DE QUALITÉ MARCHANDE OU DE CONVENANCE À UN USAGE PARTICULIER) QUE LA GARANTIE ÉNONCÉE CI-DESSUS, À MOINS QU'UNE TELLE CLAUSE D'EXCLUSION N'ENFREIGNE TOUTE LOI APPLICABLE OU NE RENDE LA PRÉSENTE MODALITÉ NULLE.

À MOINS QU'UNE TELLE CLAUSE D'EXCLUSION N'ENFREIGNE TOUTE LOI APPLICABLE OU NE RENDE LA PRÉSENTE MODALITÉ NULLE, LA SOCIÉTÉ CANON N'ASSUME AUCUNE RESPONSABILITÉ À L'ÉGARD DE TOUTE RÉCLAMATION DE NATURE CONTRACTUELLE, DÉDUCTIBLE, LÉGALE OU AUTRE, RONDE SUR TOUTE Perte (Y COMPRIS, SANS TOUTEFOIS S'Y LIMITER, TOUTE PERTE DE PELLICULES), TOUTS DOMMAGES, TOUT DOUT OU TOUTS FRAIS DE NATURE GÉNÉRALE, SPÉCIALE, ACCESSOIRE OU INDIRECTE TOUCHANT L'ÉQUIPEMENT OU SUR TOUT SERVICE DISPENSÉ PAR LA SOCIÉTÉ CANON À L'ÉGARD DE L'ÉQUIPEMENT. LA PRÉSENTE GARANTIE NE S'APPLIQUERA À AUCUNE AUTRE PERSONNE QUE L'ACHETEUR INITIAL DE CET ÉQUIPEMENT OU LA PERSONNE QUI L'A REÇU EN CADEAU.

La présente garantie vous confère des droits particuliers en vertu de la loi, et il se peut que vous ayez d'autres droits qui varient selon l'état, la province ou le pays.

VEUILLEZ CONSERVER LA PRÉSENTE CARTE DE GARANTIE. ELLE CONSTITUE UNE PREUVE PERMANENTE DE LA GARANTIE APPLICABLE À VOTRE ÉQUIPEMENT ET NE SERA PAS REMISE EN CAS DE PERTE.

*La présente garantie est qualifiée de limitée car son contenu est restreint aux modalités et conditions décrites ci-dessus.

Canon

GARANTIA LIMITADA

La garantía limitada establecida a continuación es otorgada por las empresas CANON COMPANY indicadas en la lista de abajo, para los productos fotográficos Canon comprados en los Estados Unidos, Canadá, Australia, Reino Unido, Nueva Zelanda, México o Japón.

Esta garantía internacional limitada será efectiva únicamente contra presentación de la tarjeta de garantía y de una prueba fehaciente de la compra.

El equipo Canon está garantizado contra defectos de material o de mano de obra bajo uso normal por un período de un (1) año a partir de la fecha de compra original y se encuentra limitado a la reparación, ajuste o sustitución y/o reemplazo de las piezas defectuosas.

El equipo cubierto por esta garantía será reparado por los miembros de la garantía internacional Canon ubicados en los Estados Unidos, Canadá, Australia, Reino Unido, Nueva Zelanda, Canadá, Latinoamérica, México y Japón SIN CARGO ALGUNO. (La lista de los miembros de la garantía internacional Canon que acompaña al equipo).

El equipo cubierto por esta garantía será reparado por los miembros de la garantía internacional Canon, SIN CARGO ALGUNO, excepto para los gastos de seguro, transporte y manejo. (Véase la lista de miembros de la garantía internacional Canon que acompaña al equipo).

Para poder recibir el servicio de garantía, usted deberá enviar el producto con todos los fletes pagados de antemano en su caja de cartón original o equivalente, debidamente empaquetado para que pueda soportar los riesgos de transporte, y completamente asegurado. Se deberá incluir una copia de esta tarjeta de garantía y una prueba fehaciente de la compra, junto con una descripción del problema, muestras de películas, etc.

Se efectuarán las reparaciones y el flete de la devolución del equipo será SIN CARGO dentro del país de reparación.

Esta garantía cubre únicamente los defectos de material o de mano de obra bajo uso normal, y no será aplicable en los siguientes casos:

(a) Pérdidas o daños al equipo causados por deterioro resultante del abuso, mal uso, accidente, o falta de atención a las instrucciones de funcionamiento.

(b) Defectos del equipo resultante de pérdidas de electrólito o de daños causados por el mismo.

(c) Defecto de material o de mano de obra cuando el defecto sea resultado de modificación o reparación realizada por personal distinto de los miembros de la garantía internacional Canon u otros centros de servicio autorizados distribuidos por todo el mundo.

(d) Fallo de funcionamiento resultante de la utilización, junto con este equipo fotográfico Canon, de accesorios, piezas de sujeción, consumibles del producto, repuestos o dispositivos (incluyendo, sin limitación, pilas, películas, objetivos, accesorios de flash y otros accesorios) que no cumplan con las especificaciones de Canon.

(e) Daños provocados durante el transporte. (El reclamo debe ser presentado a y examinado por la empresa de transporte).

El equipo cubierto por esta garantía puede ser reparado por los miembros de la garantía internacional Canon ubicados fuera de Estados Unidos, Canadá, Australia, Reino Unido, Nueva Zelanda, Canadá, Latinoamérica, México y Japón SIN CARGO ALGUNO, excepto para los gastos de seguro, transporte y manejo. (La lista de los miembros de la garantía internacional Canon del mundo que acompaña al equipo).

CANON COMPANY EXCLUDES TODAS LAS REPRESENTACIONES, GARANTÍAS, CONDICIONES O OBLIGACIONES (SEA EXPRESA O IMPLÍCITA, INCLUYENDO COMERCIABILIDAD E IDONEIDAD PARA UN PROPÓSITO PARTICULAR) RELACIONADAS CON EL EQUIPO, EXCEPTO LO EXPRESAMENTE ESTABLECIDO EN EL TEXTO PRECEDENTE Y/O EXCEPTO HASTA EL GRADO EN QUE ALGUNA EXCLUSIÓN PUEDE INFRINGIR ALGUN ESTATUTO O CAUSAR LA ANULACIÓN DE ESTOS TÉRMINOS.

EXCEPTO HASTA EL GRADO EN QUE ALGUNA EXCLUSIÓN PUEDE INFRINGIR ALGUN ESTATUTO O CAUSAR LA ANULACIÓN DE ESTOS TÉRMINOS, CANON COMPANY NO SE RESPONSABILIZA POR LA PERDIDA O DAÑO DE CUALQUIER EQUIPO, ACCESORIO, PIEZA DE SUJECIÓN, CONSUMIBLES DEL PRODUCTO, REPUESTOS O DISPOSITIVOS (INCLUYENDO, SIN LIMITACIÓN, PILAS, PELÍCULAS, OBJETIVOS, ACCESORIOS DE FLASH Y OTROS ACCESORIOS) QUE NO CUMPLAN CON LAS ESPECIFICACIONES DE CANON.

ESTA GARANTÍA SE CONCEDE ÚNICAMENTE PARA EL COMPRADOR ORIGINAL DE ESTE EQUIPO O PARA QUIEN FUERA ADQUIRIDO COMO REGALO.

Esta garantía le otorga a usted derechos legales específicos, y es posible que distinte también de otros derechos que varían de estado a estado, de provincia a provincia, o de país a país.

GUARDE ESTA TARJETA DE GARANTÍA. CONSTITUYE UNA PRUEBA PERMANENTE DE LA GARANTÍA, Y NO SERÁ REEMITIDA EN CASO DE EXTRAVÍO.

*Garantía limitada significa que el contenido de esta garantía se encuentra limitado a los términos y condiciones mencionados más arriba.

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Canon Canada, Inc. 8590 Dixie Road, Mississauga, Ontario, L5T 1P7 Canada
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Canon Latin America, Inc. Miami 703 Waterford Way Suite 400, Miami, FL 33126 U.S.A.
Canon Sales Co. Japan 2-16-8, Kohnan, Minato-ku, Tokyo 106-8011, Japan

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キャノンカメラ国際サービス網

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- ・当リストに無いサービス拠点の問い合わせは各地域の修理窓口へお問い合わせをお願いします。

Canon Photographic Product International Service Network

Service of your Canon product will be provided at any of the listed authorized service facilities. Warranty service of products with international Warranty certificate (with the symbol  for Canon International Warranty System indicated above) will be provided at the listed service facilities marked  in areas other than the country or region where the product was purchased. You must present your warranty certificate when requesting repairs during the warranty period. If no certificate is presented, or if the warranty does not bear the place and date of purchase, you will be charged the cost of the repairs.

- Some types of repair may require that parts be ordered specially. In this event, the repairs may take longer than usual.
- The contents of this document are subject to change without notice.

CANON 照相机国际服务网

凡列名委托的任何服务单位都能为您的 Canon 佳能产品提供服务的。在购买产品的国家或地区以外的地区而标识有  标记的列名服务单位即能提供附带有国际保证书（带有上面所指 Canon 佳能国际保证系统用的标记 ）的 Canon 佳能产品的保证服务。在保证期间内，当您要送修产品时，一定要出示您的保证书。如不出示保证书，或保证书未记载购买产品的商店和日期时，便须付一切修理费用。

- 某些型式产品的修理可能必须特别订购零件。因此，可能需要较长的修理期间。
- 本文件内容有所变更时，恕不另行奉告。

CANON 照相機國際服務網

凡列名委托的任何服務單位都能為您的 Canon 佳能產品提供服務的。在購買產品的國家或地區以外的地區而標識有  標記的列名服務單位即能提供附帶有國際保證書（帶有上面所指 Canon 佳能國際保證系統用的標記 ）的 Canon 佳能產品的保證服務。在保證期間內，當您要送修產品時，一定要出示您的保證書。如不出示保證書，或保證書未記載購買產品的商店和日期時，便須付一切修理費用。

- 某些型式產品的修理可能必須特別訂購零件。因此，可能需要較長的修理期間。
- 本文件內容有所變更時，恕不另行奉告。

		(**) — Country & Area Code	
JAPAN		http://www.canon.jp	
REGIONAL HEADQUARTERS	CANON SALES CO., INC.	Phone:	(81)03-3455-9353
*For service center location, please contact the phone number above.			
ASIA		http://www.canon-asia.com	
HONG KONG	④ Canon HongKong Co. Ltd. - Domestic Sales Office 18/F The Metropolis Tower, 10 Metropolis Drive Hung Hom, Kowloon, Hong Kong	Phone:	(852)2170-2888
INDONESIA	④ Pt. INTER-DELTA Tbk Jl. Gaya Motor Barat, Sunter II Jakarta 14330, Indonesia	Fax:	(852)2428-3983
MALAYSIA	④ Canon Marketing (Malaysia) Sdn. Bhd. Block D, Peremba Square, Saujana Resort, Section U2, 40150 Shah Alam, Selangor Darul Ehsan, Malaysia	Phone:	(62)21-651-1533
PHILIPPINES	④ Canon Marketing (Philippines), Inc. Marvin Plaza Building, 2153 Don chiro roces Ave. Makati City, Philippines	Fax:	(62)21-651-0472
SINGAPORE	④ Canon (Singapore) Pte. Ltd. 1 HarbourFront Avenue #04-01 Keppel Bay Tower, Singapore 098632	Phone:	(60)03-7845-0055
TAIWAN	④ Rainbow Photo & Image Co. Ltd. No. 20 Chiling Road, Taipei 10424, Taiwan	Fax:	(60)03-7844-6044
THAILAND	④ Canon Marketing (Thailand) Co. Ltd 10 th Floor, Bangkok City Tower, 179/34-45 South Sathorn Road, Bangkok 10120, Thailand	Phone:	(63)02-812-6047
VIETNAM	④ NGOC Co. Ltd. 465 Vo Van Tan Street, Ward 5 District 3, Ho Chi Minh City, Vietnam	Fax:	(63)02-812-0067
		Phone:	(65)6799-8888
		Fax:	(65)6799-8882
		Phone:	(886)02-2537-1940
		Fax:	(886)02-2537-1169
		Phone:	(66)02-344-9999
		Fax:	(66)02-344-9910
		Phone:	(848)839-5639
		Fax:	(848)839-0060
UNITED STATES OF AMERICA		http://www.usa.canon.com	
REGIONAL HEADQUARTERS	CANON U.S.A., INC.	Phone:	(1)800-828-4040
*For service center location, please contact the phone number above.		* Within US only	
CANADA		http://www.canon.ca	
REGIONAL HEADQUARTERS	CANON CANADA INC.,	Phone:	(1)800-828-4040
*For service center location, please contact the phone number above.		*Within Canada only	
CENTRAL & SOUTH AMERICA		http://www.canonlatinamerica.com	
REGIONAL HEADQUARTERS (Except Mexico)	CANON LATIN AMERICA, INC.	Phone:	(1)305-260-7423
*For service center location, please contact the phone number or refer the URL above.			
MEXICO		http://www.canon.com.mx	
REGIONAL HEADQUARTERS	CANON MEXICANA, S.D.E R.L DE C.V. Manuel Avila Camacho No. 138, PB y pisos 15, 16 y 17 Col. Lomas de Chapultepec Delegacion Miguel Hidalgo, C.P.11000 Mexico, D.F., Mexico	Phone:	(01)800-710-7168
*For service center location, please contact the phone number above or send an e-mail to: canonmx_soporte@cusa.canon.com		*Within Mexico only	
		Fax:	(52)52-494-944
		(**) — Country & Area Code	
EUROPE / MIDDLE EAST / AFRICA		http://www.canon-europa.com	
REGIONAL HEADQUARTERS	CANON EUROPA N.V Bovenkerkerweg 59-61 1180 EG Amstelveen, The Netherlands	Phone:	(31)020-545-8545
*For general Inquiry only. For repair, please contact one of service center listed below.			
AUSTRIA	④ Canon Ges.m.b.H. http://www.canon.at	Phone:	0810-081009 (0,06€/min)
BELGIUM	④ Canon Belgium N.V. / S.A. http://www.canon.be	Phone:	070-30012 (0,06€/min)
CANARY ISLANDS	④ Chellsons S.A. Islands 57, La Naval-Las Palmas, Canary Islands	Phone:	(34)28-470008
DENMARK	④ Chellsons S.A. 23, Imeldo Seris-Sta Cruz de Tenerife, Canary Islands	Phone:	(34)28-470008
FINLAND	④ Canon Oy Ab http://www.canon.fi	Phone:	70-2055-15 (0,25DKK/min)
FRANCE	④ Canon Communication & Image France SA http://www.cci.canon.fr	Phone:	020-366-466 (0,15€/min)
GERMANY	④ Canon Germany Regional Competence Center http://www.canon.de	Phone:	0825-002-923 (0,15€/min)
GREECE	④ Intersys Photo Service Volou7,18346 Mosxato/Athens, Greece	Phone:	0180-500-6022 (0,12€/min)
ICELAND	④ Beco ehf Langholtssvegur 84, 104 Reykjavik, Iceland	Phone:	(30)109554080
IRELAND	④ Canon Ireland Ltd. http://www.canon.ie	Phone:	(354)533-3411
ITALY	④ Canon Italy Regional Competence Center http://www.canon.it	Phone:	(353)1890-200-563
LUXEMBOURG	④ Canon Luxembourg N.V. / S.A. http://www.canon.lu	Phone:	848-800-519 (0,019€/min)
		Phone:	0478-8832-85 (0,12€/min)

Weitweites Kundendienstnetz für Canon Kameras

Ihr Canon Produkt wird bei jeder der aufgelisteten autorisierten Kundendienststellen gewartet und repariert. Garantieleistungen für Produkte mit der internationalen Garantiekarte (gekennzeichnet mit dem Symbol  für das internationale Canon Garantiesystem) erhalten Sie in anderen Gebieten als dem Land oder der Region, wo das Produkt gekauft wurde, bei den in der Liste mit  gekennzeichneten Kundendienststellen. Wenn Sie das Produkt während der Garantiezeit zur Reparatur geben, müssen Sie Ihre Garantiekarte vorlegen. Wenn Sie keine Garantiekarte vorlegen oder wenn die Garantiekarte nicht den Ort und das Datum des Kaufs trägt, werden Ihnen die Kosten der Reparatur in Rechnung gestellt.

- Einige Arten von Reparaturen können die Bestellung spezieller Teile erfordern. In diesem Fall kann die Reparatur länger als normal dauern.
- Per alcuni tipi di riparazione può essere necessario ordinare a parte i pezzi di ricambio. In questo caso, la riparazione richiederà più tempo del normale.
- Änderungen des Inhalts dieses Dokuments sind ohne Vorankündigung vorbehalten.

Réseau International des Services Canon Appareil-Photo

Votre appareil Canon pourra être réparé dans un des centres de service après-vente agréés indiqués dans la liste ci-dessous. Il sera réparé sous garantie contre présentation du Certificat de Garantie (avec la marque  du Système de Garantie Internationale Canon) dans les centres de service après-vente indiqués par la marque  dans les pays ou régions autres que celui où le produit a été acheté. Vous devrez présenter votre certificat de garantie pour toute demande de réparation pendant la période de validité de la garantie. Toutefois, les réparations seront à vos frais si vous ne présentez pas votre garantie ou si elle ne comporte ni l'adresse du revendeur ni la date d'achat du produit.

- Certaines réparations peuvent nécessiter des commandes de pièces spéciales. Dans ce cas, elles peuvent durer plus longtemps que prévu.
- Le contenu de ce document peut faire l'objet de modifications sans préavis.

Rete Di Assistenza Internazionale Per Fotocamere Canon

L'assistenza del prodotto Canon acquistato sarà fornita presso uno qualsiasi dei centri di assistenza autorizzati riportati nella lista. L'assistenza in garanzia di prodotti con certificato di garanzia internazionale (con il simbolo  per il sistema di garanzia internazionale Canon sopra indicato) sarà fornita presso i centri di assistenza riportati nella lista contrassegnati da  in aree diverse dal paese o dalla regione in cui è stato acquistato il prodotto. È necessario presentare il certificato di garanzia di cui si è in possesso quando si richiedono prestazioni di assistenza durante il periodo di validità della garanzia. Se non si presenta il certificato, o se la garanzia non reca le indicazioni del luogo e della data di acquisto, la riparazione sarà a pagamento.

- Per alcuni tipi di riparazione può essere necessario ordinare a parte i pezzi di ricambio. In questo caso, la riparazione richiederà più tempo del normale.
- Il contenuto di questo documento è soggetto a modifiche senza preavviso.

Sistema Internacional de Servicio de Cámaras Fotográficas Canon

El servicio de su producto Canon será proporcionado por cualquiera de las instalaciones de servicio autorizadas mencionadas en la lista. El servicio de garantía de los productos con certificado de Garantía Internacional (con el símbolo  del Sistema de Garantía Internacional de Canon indicado arriba) será proporcionado por las instalaciones de servicio que figuran en la lista con la marca , en otras áreas distintas del país o de la región donde se adquirió el producto. Cualquier solicitud de reparación durante el periodo de garantía se realizará al presentar el certificado de garantía debidamente llenado incluyendo el lugar y la fecha de compra, en caso de no ser así la reparación será con cargo al cliente.

- Algunos tipos de reparaciones podrían requerir un pedido especial de repuestos. En tal caso, las reparaciones podrían demorar más de lo habitual.
- Los contenidos de este documento se encuentran sujetos a cambios sin previo aviso.

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THE NETHERLANDS	 Canon Netherland N.V.	Phone:	0900-202-2915 (0,13€/min)
	http://www.canon.nl		
NORWAY	 Canon Norge A/S	Phone:	226-29321 (0,24NOK/min)
	http://www.canon.no		
PORTUGAL	 SEQUE Soc. Nac. De Equip., Ltda.	Phone:	(351)213242830
	Praca da Alegria, 58-2, 1269-149 Lisboa, Portugal		
SLOVENIA	 3A Servis	Phone:	(386)0-1546100022
	Zaloska c.161, 1000 Ljubljana, Slovenia		
SPAIN	 Canon España, S.A.	Phone:	(34)91-5384500
	cl. Joaquín Costa, 41, 28002 Madrid, Spain		
SWEDEN	 Canon Nordic Regional Competence Center	Phone:	08-7448620 (0,23SEK/min)
	http://www.canon.se		
SWITZERLAND	 Canon Schweiz AG	Phone:	0900-575-520 (0,20CHF/min)
	http://www.canon.ch		
UNITED KINGDOM	 Canon UK Regional Competence Center	Phone:	08-705-143723 (7,91£/min)
	http://www.canon.co.uk		
IRAN	 Aghomir Co. Ltd.	Phone:	(98)21-8752442
	127, South Sohrevardi Avenue P.O. Box 11365/1167, Tehran, Iran		
ISRAEL	 Karat Israel Ltd.	Phone:	(972)3-6888525
	50 Anilevitch St, Tel Aviv 67060, Israel		
SAUDI ARABIA	 AIQuraishi Leisure Services	Phone:	(966)2-6970779/ 6970852
	P.O. Box 1796, Jeddah 21441, Saudi Arabia		
SOUTH AFRICA	 Canon South Africa.	Phone:	(27)11-2667162
	P.O. Box 1782 Halfway House 1685 Johannesburg, South Africa		

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OCEANIA REGIONAL HEADQUARTERS	 CANON AUSTRALIA PTY. LTD.	Phone:	(61)02-9805-2555
		Fax:	(61)02-9888-3314
	*For service center location, please contact the phone number above.		

NEW ZEALAND	 Canon New Zealand Ltd. Akoranga Business Park, Akoranga Drive Northcote, Auckland, New Zealand	Phone:	(64)09-489-0470
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NON-IW MEMBERS

* Service facilities listed below are not "International Warranty Members".
They do not accept any warranty repair but may assist you when the repair charge is acceptable.

ASIA			
BRUNEI	 Interhouse Company	Phone:	(673)02-653001
	No.6 & 6, Bunut Jaya Complex, Km 7 1/4, Jalan Tutong B.S.B. 2690, Negara Brunei Darussalam, Brunei		
CAMBODIA	 Royal Cambodia Co., Ltd	Phone:	(855)23426414
	6 th Floor, Royal Group Building, 246 Preah Monivong Boulevard, Phnom Penh, Cambodia	Fax:	(855)23426024
CHINA	 Canon (China) Co., Ltd.	Phone:	(86)10-8529-8488
	10 th South Tower, Beijing Kerry Center, 1 Guang Hua Road, Chao Yang District, 10020, Beijing, China	Fax:	(86)10-8529-9771
INDIA	 Mahatta & Co.	Phone:	(91)11-23414139
	59, M Block Connaught Circus New Delhi - 110001, India	Fax:	(91)11-23416674
KOREA	 LG International Corp.	Phone:	(82)2-3773-5745
	LG Twin Towers, 20, Yoido-dong, Youngdungpo-gu, Seoul 150-1606, Korea	Fax:	(82)2-3733-5711
MYANMAR	 Accel International Co., Ltd.	Phone:	(95)1202-092
	Level 6, FJV Commercial Centre, 422-426 Strand Road, Botataung, Township, Yangon, Myanmar	Fax:	(95)1202-079
PAKISTAN	 Global Systems	Phone:	(92)21-438-9581
	39-C/1, Block-6, P.E.C.H.S Off: Shahrah-e-Faisal, behind Jason Trade Centre, Karachi 75400, Pakistan	Fax:	(92)21-438-9589
SRI LANKA	 Homebase (Pvt.) Limited	Phone:	(94)112437797
	No.85 Braybrooke Place, Colombo 02, Sri Lanka	Fax:	(941)12448980
NEPAL	 Primax International Inc.	Phone:	(971)4-222-4079
	3 rd Floor, Maitry Bhavan, New Road, Kathmandu, Nepal	Fax:	(971)4-222-9358

EUROPE / MIDDLE EAST / AFRICA			
CZECH Rep.	 Canon CZ S.R.O.	Phone:	(42)02-25280-111
	160 00 Praha 6, Czech Rep.		
	 AWH service	Phone:	(42)02-2272-1525
	Milesovska 1, 130 00 Praha 3, Czech Rep.		
CIS	 Canon Representative Office	Phone:	(7)0952585600
	Kosmodamianskaya nab. 52, Building 3, 5 th Floor 113054 Moscow, CIS		
HUNGARY	 Camera Kft	Phone:	(36)12668085
	Somogy 1, Bela u. 10, 1085 Budapest, Hungary		
MALTA	 P. Cutajar	Phone:	(356)448466
	P.O.Box 38, Birkirkara BKR01 Notable Road, Mriehel, Malta		
POLAND	 Canon Polska SP.Z.O.O.	Phone:	(48)22-572-30-00
	ul. Raclawicka146, 02-117 Warszawa, Poland		
	 CSI Foto Video	Phone:	(48)22-862-41-38
	ul. Zytnia 15, 01-014 Warszawa, Poland		
SLOVAKIA	 Pro Laika	Phone:	(42)07-394890
	Radlinského 26, 811 07 Bratislava, Slovakia		
CYPRUS	 NT. Kakoyiannis/Paroutis Electronics Ltd.	Phone:	(357)05-355274
	115 Omionias Avenue Paroutis Building, 3045 Limassol, Cyprus		
KUWAIT	 Naser Mohammed, Al Sayer Comm.Co.	Phone:	(965)2-44810315
	P.O. Box 974 Safat 13008, Kuwait		
OMAN	 GENETCO	Phone:	(968)706153
	P.O. Box 3139, Ruwi 112, Oman		
UAE	 Khoory Electronics	Phone:	(971)4-3534168
	P.O.Box 284 Dubai, UAE		
LEBANON	 Image System sal	Phone:	(961)11-582-000
	460 Corniche Al-Nahr, Beirut, Lebanon		

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