8mm VIDEO CAMCORDER

Instruction Manual

E

Canon

8

UC7500/UC7000/UC6000

PAL

This manual explains how to use the UC7500, UC7000 and UC6000 camcorders. In certain areas, some of these three models may be available.

Important Usage Instructions

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK AND TO REDUCE ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

CUSTOMERS IN THE U.K. SHOULD READ THIS BEFORE USING THIS PRODUCT.

CHANGING THE FUSE

THE MAINS LEAD ON THIS PRODUCT IS FITTED WITH A NON-REWIREABLE (MOULDED) PLUG, INCORPORATING A 3 AMP FUSE. SHOULD THE FUSE NEED TO BE REPLACED AN ASTA OR BSI APPROVED BS1632 FUSE OF THE SAME RATING MUST BE USED.

ALWAYS REFIT THE FUSE COVER AFTER REPLACING THE FUSE. NEVER USE THE PLUG WITH THE FUSE COVER OMITTED.

CHANGING THE PLUG

IF THE FITTED PLUG IS NOT SUITABLE FOR YOUR SOCKET OUTLETS, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED IN ITS PLACE. IF POSSIBLE FIT AN APPROPRIATE 3 AMP FUSE. IF THE NEW PLUG HAS NO FUSE, THEN FIT A 5 AMP FUSE AT THE DISTRIBUTION BOARD.

AC POWER CORD CONNECTION (CA-R300B only)
The wires in the mains lead of this apparatus are coloured in accordance with the following cord. **(IMPORTANT)**

```
Mains Lead     ┤══┤──── BLUE..............NEUTRAL
               ┤══┤──── BROWN..........LIVE
```

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red. Neither Blue wire or Brown wire is to be connected to the Earth pin of a 3 pin plug.

THE SEVERED PLUG MUST BE DESTROYED IMMEDIATELY TO AVOID ANY POSSIBLE ELECTRIC SHOCK HAZARD.

Thank you for choosing a Canon

First, we'd like to thank you for buying this Canon camcorder. Its advanced technology makes it very easy to use — you will soon be making high-quality home videos which will give you pleasure for years to come.

To get the most out of your new camcorder, you should read this manual thoroughly — there are many sophisticated features which will add to your recording enjoyment.

To get started, you will need to read these sections:
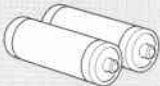"Basic Recording"
"Power Sources"
"Cassettes"
"Preparing the Camera"
Then you can go on to find out about the more advanced features.

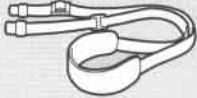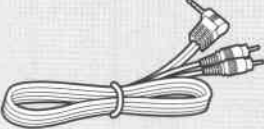As well as using the alphabetical index, you can look up the different parts and functions in the sections called "Nomenclature" and "Viewfinder Displays." There's also a "Troubleshooting" section in case you run into any problems.

Check that this package contains the following accessories:

WL-69 Wireless Controller	Two R6 AA batteries	BP-711 Battery Pack
CA-R300 Compact Power Adapter	DC-100 DC Coupler	Lithium button battery (CR2025)
SS-500 Shoulder Strap	C-250 AV Cable	PC-A10 SCART Cable Adapter

And while you are finding out how your camcorder works, remember:
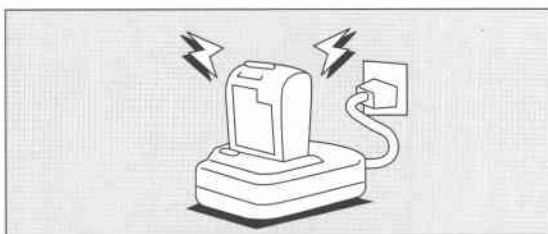
The battery pack must be charged before it can power the camcorder.
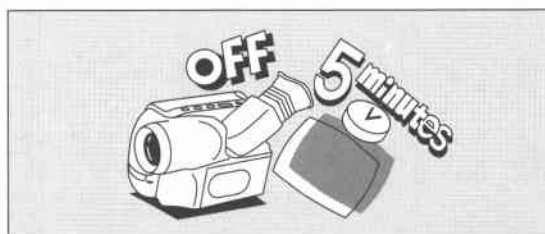
If you leave the camera in record pause mode for more than about five minutes, it will turn itself off to prevent the video heads being damaged.

Introducing the UC7500/UC7000/UC6000

16× lens (32× Digital Zoom [UC7500/UC7000])

From wide-angle to 16× telephoto — with unparalleled optical quality. The digital zoom doubles this magnification for even more dramatic results.

Image stabilizer (UC7500/UC7000)

Stabilizes your recordings, even at the furthest reaches of the zoom range.

Digital effects

Advanced digital technology allows you to add special effects and varied scene transitions to your recordings.
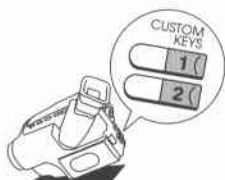
Powerful recording programs

Five recording programs deal with everything from simple point-and-shoot operation to the most challenging recording conditions.

Custom Keys

With the unique Custom Keys, you can decide which functions you want at your fingertips. Assign frequently used functions to the keys on the camera body.

Fade

Add an atmospheric touch to your video productions with smooth fades, synchronised with the soundtrack.

Titles
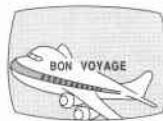
You don't need any extra equipment to add titles to your home videos — the camera does it all.

Remote control

The supplied wireless controller operates both recording and playback from as far away as 5 metres (16 ft).

Colour viewfinder (UC7500)

You don't have to wait until playback to see your shots in colour. Thanks to the UC7500's high-resolution LCD viewfinder, you can see just what you're getting on tape, making it easy to shoot colourful, well-composed video.

Contents

Introduction

Basic Operation

Advanced Functions

Additional Information

Basic Recording

Before you start recording

Complete the following steps:
- Attach a power source (p. 7).
- Load a cassette (p. 12).
- Adjust the viewfinder and fasten the grip belt (p. 13).
- Remove the lens cap.

You may also want to install the backup battery (p. 11) in order to set date and time display (p. 24).

To record

1. **Press down the lock button and turn the POWER switch to CAMERA.**
2. **Turn the program selector to [A].**
   - This selects the camera's Automatic recording program. It allows you to simply point and shoot without making any manual adjustments.
   - The camera operation indicator lights up red, and PAUSE appears in the viewfinder — the camera is now in "record pause mode".

3. **Press the start/stop button to begin recording.**
   - The tally lamp flashes rapidly and REC appears in the viewfinder.

4 **Press the start/stop button again to pause recording.**
   - The camera returns to record pause mode and PAUSE reappears in the viewfinder.
   - You can stop and restart recording as often as you like by pressing the start/stop button.
   - The camera will turn itself off if you leave it in record pause mode for more than about five minutes. To return to record pause mode, turn the POWER switch to OFF and then back to CAMERA.

When you have finished recording

- Unload the cassette.
- Turn the POWER switch to OFF.
- Replace the lens cap.
- Disconnect the power source.

Notes:
- To check that the camera is recording correctly, be sure to make a test recording first.
- Before making important recordings, clean the video heads using Canon CC-8 Video Head Cleaning Cassette or a commercially available dry-type head cleaning cassette.

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Power Sources

Before operating your camera, you will need to use the power adapter to:

provide power from a mains outlet
or
charge a battery pack

Notes:
- The power adapter converts current from a household mains outlet (100–240 V AC, 50–60 Hz) to the DC current used by your camera.
- If the adapter is used next to a TV, it may cause the TV to emit noise — move the adapter away from the TV or the aerial cable.

Connecting the camera to a mains outlet
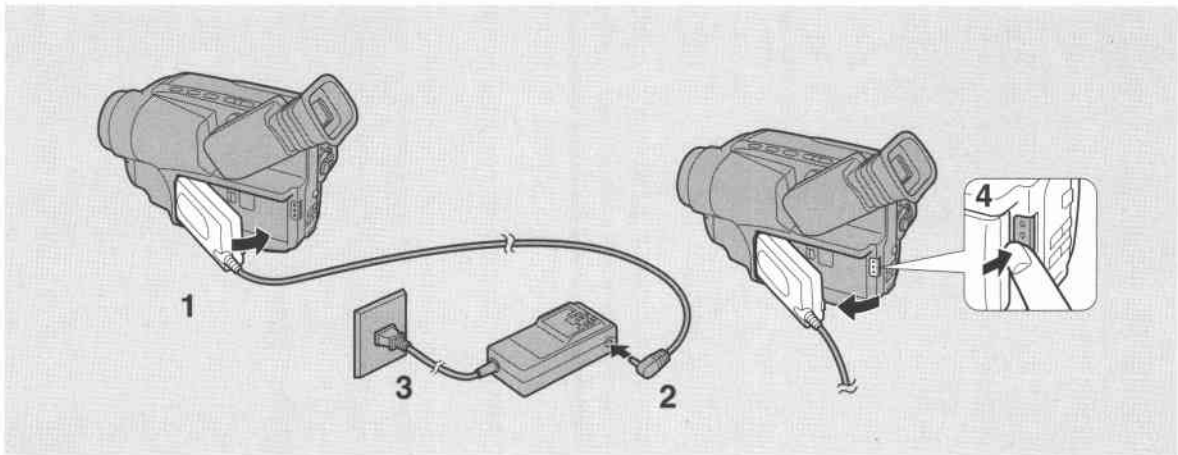
Use the power adapter and the DC coupler to provide your camera with instant power from a mains outlet.

1. **Insert the DC coupler in the camera's power source compartment.**
   - Insert the front end first, then press in the DC coupler until it clicks and locks into place.
2. **Connect the DC coupler to the adapter.**
3. **Plug the adapter into a mains outlet.**
4. **Detach the DC coupler after use.**
   - Press and hold the BATTERY EJECT button while you pull the DC coupler outwards from the rear.
   - Always turn the camera off before removing the power source.

Charging and attaching the battery pack
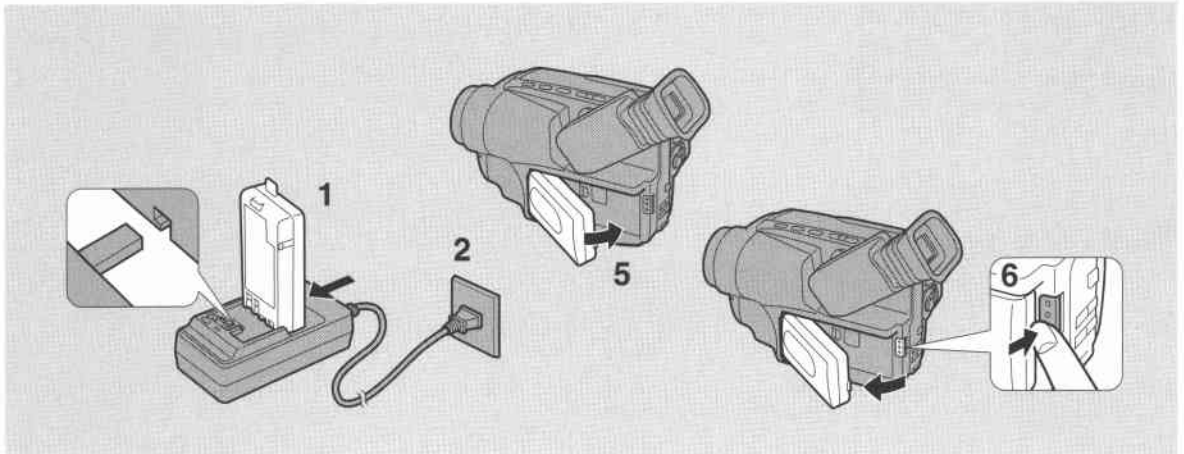
You will have to charge the battery pack before you can use it. A brand new battery pack must be charged twice before use.

1. **Slide the battery pack onto the adapter as shown.**
   • Make sure the DC coupler is not connected.
2. **Plug the adapter into a mains outlet.**
   • The CHARGE/REFRESH indicator flashes red to show that charging is in progress.
3. **Wait until the battery pack is fully charged.**
   • The indicator glows steadily red when the battery pack is fully charged.
4. **If the battery pack is brand new, take it off the adapter, then slide it on again and charge it one more time.**
5. **Take the battery pack off the adapter and attach it to the camera.**
   • Insert the end marked with a triangle first, then press in the battery pack until it clicks and locks into place.
6. **Detach the battery pack after use.**
   • Press and hold the BATTERY EJECT button while you pull the battery pack outwards from the rear.
   • Always turn the camera off before removing the power source.

Charging and recording times

BP-711 Battery Pack

Charging time	70 minutes
Continuous recording time	60 minutes

• These time vary — the safest policy is always to have two or three times as many battery packs as you think you will need.

NOTE FOR CUSTOMERS IN EUROPE

NICKEL-CADMIUM BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

Cd

8

Charge the battery pack before you use it...

* You should charge a brand new battery pack twice before using it for the first time — a single charge may not be enough. Charge it completely (until the adapter's charge indicator glows steadily), then disconnect it and charge it again. Normally, you should not "double charge" the battery pack in this way.

* The battery pack will naturally discharge itself over time. You should charge it the same day you plan to use it, or the day before.

* The battery pack becomes warm during use (and during charging). Wait for it cool before charging or using it again. It may not reach full charge if warm.

charge...   ...then record...   ...until discharged
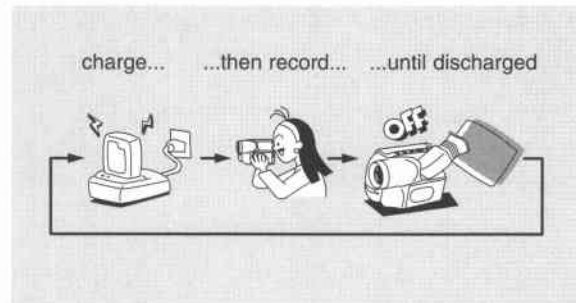
...save power while you are recording...

* You will get more recording time from your battery pack if you turn the camera off between shots, instead of leaving it in record pause mode.

* Recording time will be shorter than usual at low temperatures. You can use the battery pack between 0° and 40°C (32°–104°F), but it works best between 10° and 30°C (50°–86°F).

...and don't recharge it until it is exhausted.

* The camera flashes a ⊏▭ warning when the charge has almost run out. After a few more minutes' use, the camera turns off automatically. You can now either recharge or store the battery pack.

Disconnect the battery pack when you are not using it.

* Even when it turned off, camera will continue to slowly drain power from the battery pack. This means the battery pack will be discharged beyond the normal level if you leave it attached for a long time.

Keep the terminals clean.

* The camera, adapter or battery pack will not work properly if the terminals are dirty. Check them before use, and wipe them with a dry cloth or tissue if necessary.

DANGER!

Always attach the terminal cover.

* Do not allow any metal objects to touch the terminals. The battery pack contains a great deal of energy and short-circuiting it may cause a fire. Attach the terminal cover whenever you are not using the battery pack.
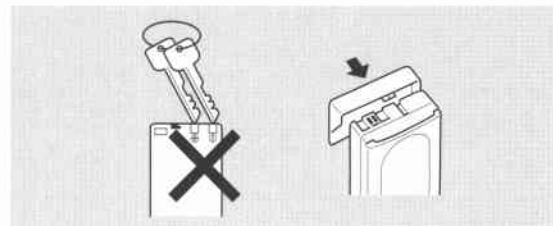
Treat the battery pack with care.

* Keep it away from fire (or it might explode).
* Do not try to disassemble or modify it.
* Do not drop or knock it.
* Do not get it wet.

Basic Operation

Remember, it may start to give you less recording time...

* If you recharge it without first completely discharging it.
* If you leave it attached to the camera (or a video light) for more than a week.
* If you don't use it for three months or more.

...but you should be able to "refresh" it.

* The power adapter has a refresher function which restores battery packs to full capacity (see below).
* If this does not improve the battery pack's performance, it has reached the end of its life and must be replaced.

The lifetime of nickel-cadmium battery packs

* Nickel-cadmium battery packs produce electrical energy from a chemical reaction, so although they can be recharged, they do not last forever. Even if they are not used, their performance still degrades over time. If the battery pack runs out quickly even after you have "refreshed" it, it has come to the end of its useful and should be replaced.
* Be sure to fully charge and discharge the battery pack every three months even if you do not otherwise use it.

Refreshing the battery pack

If the battery pack starts to give less recording time, use the adapter's refresher function to restore it to full capacity. The adapter will first discharge the battery pack, and then recharge it.

REFRESH button
CHARGE/REFRESH indicator

1. **Attach the battery pack to the adapter and plug it into an mains outlet.**
   * See p. 8.
2. **Press the REFRESH button.**
   * The CHARGE/REFRESH indicator flashes green to show that discharging is in progress. When the battery pack is discharged, the indicator begins to flash red any recharging begins.

3. **Remove the battery pack when discharging/recharging has finished.**
   * The indicator glows steadily red when recharging is completed.
   * If you only want to discharge the battery pack, there is no need to plug in the adapter. In this case, you can remove the battery pack when the CHARGE/REFRESH indicator stops flashing green.
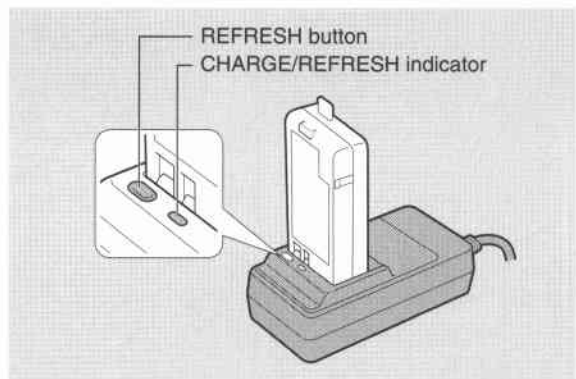
Discharge and recharge times

Battery pack	BP-711	BP-729
Discharge	4 hr.	10 hr.
Recharge	1 hr. 10 min.	2 hr. 30 min.
Total refreshing charge	5 hr. 10 min.	12 hr. 30 min.

* These times are approximate.

Installing the backup battery

You need to install the backup battery so the camera can remember the date and time. Its memory is powered by a CR2025 lithium battery with a life span of about a year.

1. **Open the cover of the backup battery compartment.**
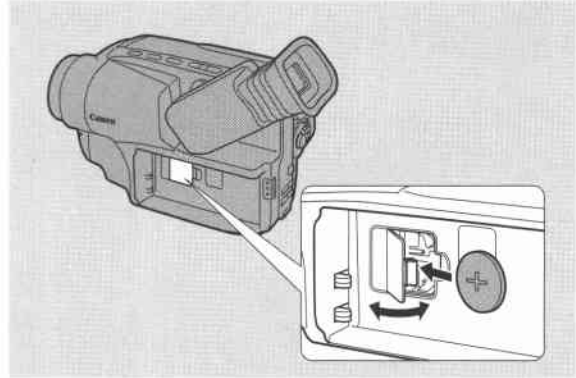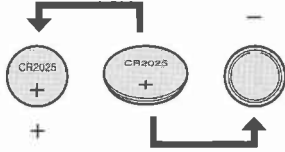2. **Place the new battery in the compartment with the + side facing outwards.**
3. **Click the cover back into place.**
4. **Reset the date and time.**
   •

WARNING!

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C (212°F) or incinerate. Replace the battery with a Sony, Sanyo or Panasonic CR2025, or Duracell DL2025. Use of another battery may present a risk of fire or explosion. The used battery should be handed back to the supplier for safe disposal.

Cautions:
• Do not pick up the battery using tweezers or other metal tools — this will cause a short circuit.
• Wipe the battery with a clean, dry cloth to ensure proper contact.
• Keep the backup battery out of reach of children — if it is swallowed, contact a physician immediately, as the battery case may break down and the battery fluids damage the stomach and intestines.
• Do not disassemble, heat, or immerse the battery in water, to avoid the risk of explosion.

Basic Operation
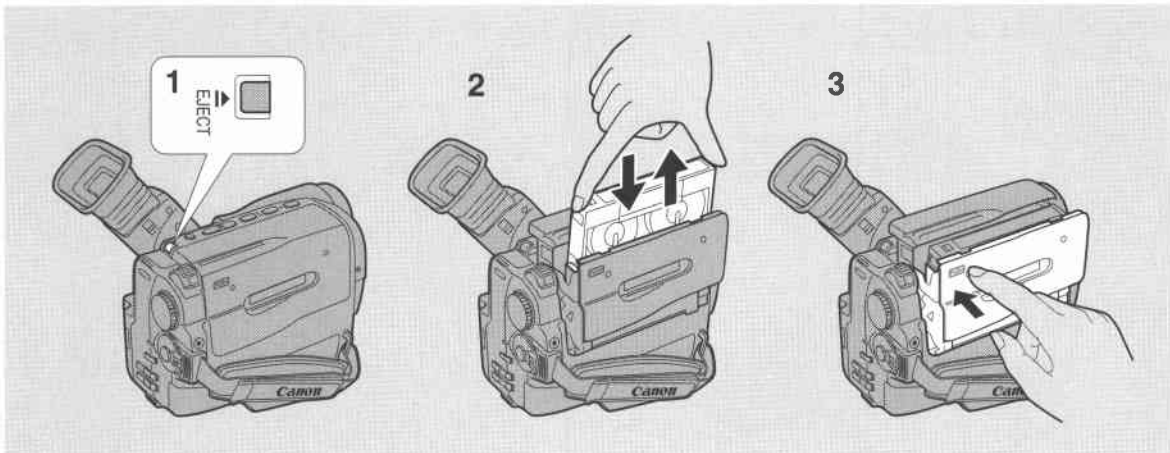
Cassettes

Use video cassettes marked with an **8**.

Loading and unloading

Cassettes can be loaded and unloaded with the camera turned off, as long as a power source is attached.

1. **Press the EJECT ▲ button and wait for the cassette compartment to open.**
2. **Load/unload the cassette.**
   - Insert the cassette gently with the window facing out.
   - Remove the cassette by pulling it straight out.
3. **Press the PUSH mark on the compartment until it clicks, and wait for it to close.**
   - Never push down the top of the compartment.

Preventing accidental erasure

To protect your recordings from accidental erasure, slide the red switch on the cassette so that it covers the hole. (This switch position is usually labelled SAVE or ERASE OFF). When this cassette is loaded, the mark will flash in the viewfinder if you turn the POWER switch to CAMERA.

If you want to record on the cassette again, slide the red switch back so the hole is open. (This position is usually labelled REC or ERASE ON.)
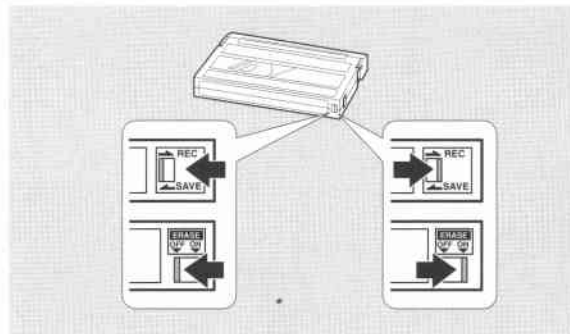
Notes:
- Do not interfere with the compartment while it is opening or closing automatically.
- After loading a cassette, use record search (p. 33) to find the point where you want to start recording.
- Do not leave the cassette in the camera after use — return it to its case and store it in a cool, clean, dry place.
- The holes in the back of the cassette are used for transferring information — do not cover them.

Preparing the Camera

You should already have attached a power source to the camera and loaded a cassette. When you have completed the following steps, you will be ready to start recording.

E
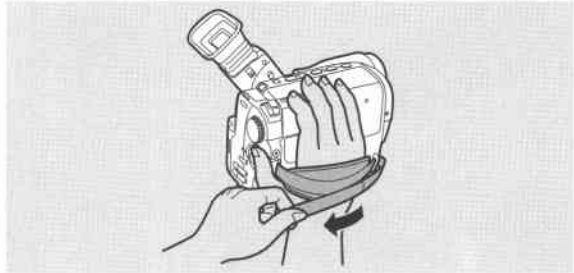
Fasten the grip belt

• Release the Velcro fastening and hold the camera with your right hand while you adjust the belt with your left.

Prepare the lens cap

• Attach/remove the lens cap as shown.
• Hook the lens cap on to the grip belt while you are recording, and place it over the lens when you have finished.
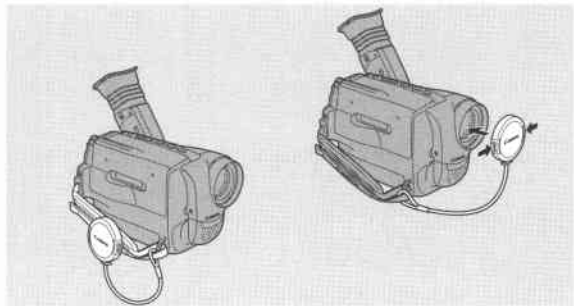
Adjust the viewfinder

• You can adjust the viewfinder to suit your eyesight. First put the camera in record pause mode (press down the lock button and turn the POWER switch to CAMERA).
• Adjust the viewfinder by sliding the viewfinder focusing switch to the left or right to bring the viewfinder displays clearly into focus.
• The viewfinder also rotates through 90° to give a choice of shooting positions.

Attach the shoulder strap

• For extra security and portability, attach the shoulder strap before using the camera.
• Pass the ends through the attachment bars and adjust the length as shown.
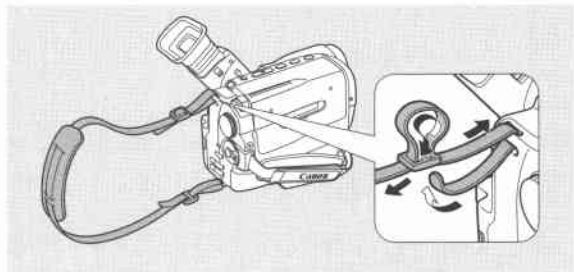
Note:
• Be careful not to leave the viewfinder exposed to bright sunlight, or it will melt. (The light is concentrated by the viewfinder lens.) You may be able to move the viewfinder out of direct sunlight by pushing it upright, or by moving it back down to horizontal.

Basic Operation
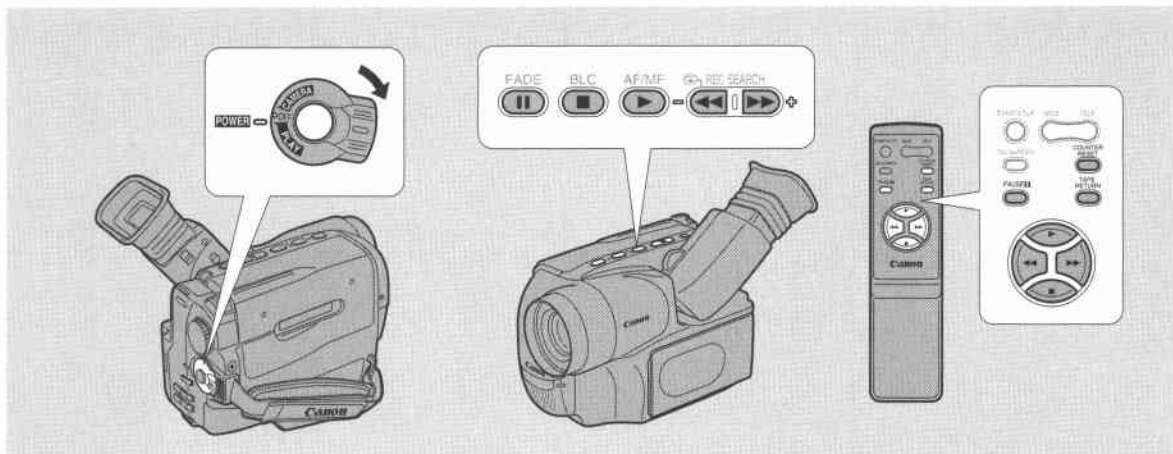
Playback

You can use the viewfinder screen for instant, on-the-spot playback.

To play back your recordings on a TV, see p. 16.
To use the wireless controller, see p. 22.

1. Attach a power source and press down the lock button and turn the POWER switch to PLAY.
  • The operation indicator lights up.

2. Load the cassette.

3. Press the ▶ button to start playback.
  • To end playback, press the ■ button.
  • To wind the tape forwards, stop playback and press the ▶▶ (fast forward) button.
  • To wind the tape backwards, stop playback and press the ◀◀ (rewind) button.
  • If the playback picture is rough, clean the video heads using a Canon CC-8 Video Head Cleaning Cassette or a commercially available dry-type head cleaning cassette.

Special playback

Playback pause
To view the video as a still picture press the ❚❚ button. To resume normal playback, press it again, or press the ▶ button. The camera automatically goes into stop mode after about five minutes' playback pause.

Fast forward playback
To play back the recording at about 9 times normal speed, press and hold the ▶▶ button during normal playback.

Rewind playback
For reverse playback at about 7 times normal speed, press and hold the ◀◀ button during normal playback.

High-speed search
To play back the recording at about 15 times normal speed, press and hold the ▶▶ button during normal fast forward. For reverse playback at about 15 times normal speed, press and hold the ◀◀ button during normal rewind.

Use the wireless controller's TAPE RETURN button to quickly return to a scene you want to see again:

1. **Press the COUNTER RESET button during playback if you come across a scene you want to watch again later.**
   • The tape counter is reset to 0:00:00.

2. **When you have ended playback, press the TAPE RETURN button.**
   • The tape rewinds and stops when the counter nears 0:00:00.
   • You can cancel tape return by pressing the ■ button.

3. **Start playback.**

Notes:
• When the tape reaches the end during normal playback it rewinds automatically.
• Noise bars appear on the screen during special playback and the soundtrack cannot be heard. On certain TVs the picture may roll and divide, or appear in black and white, and the high-speed search picture may not be visible.
• During playback pause, the picture flickers, and fast action scenes may appear blurred.
• The tape counter is reset when a cassette is loaded.

Playback Connection

You can connect the camera to a TV or VCR in order to play back your recordings. You will need to attach a power source to the camera (see p. 7).

If you are going to use the TV as a monitor while you are shooting, remember to keep the TV volume turned down as long as the camera's AUDIO terminal is connected. If the sound from the TV speaker is picked up by the microphone, an unpleasant high-pitched squeal, called feedback, may be produced.

If your TV (or VCR) has audio/video input terminals
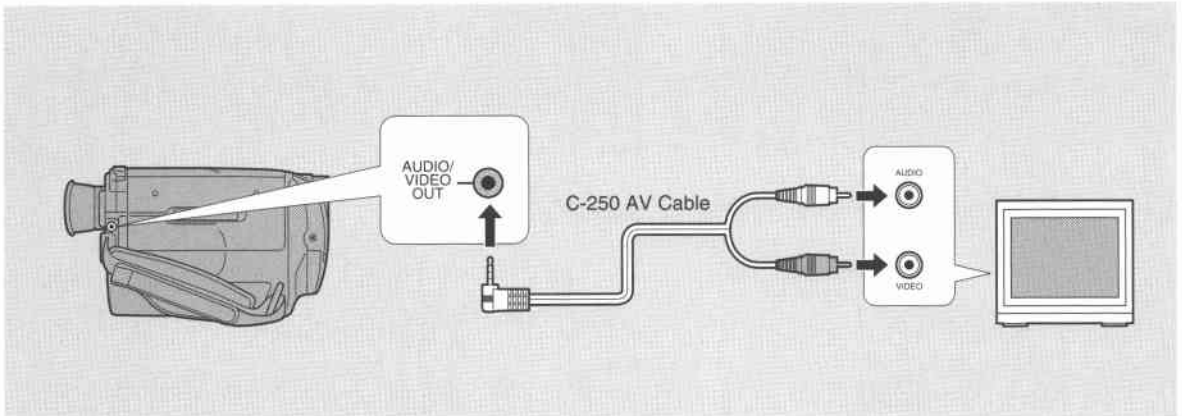
1. **Connect the camera to the TV (or VCR).**
   - Use the C-250 AV Cable. Connect the white plug to the white audio terminal. Connect the yellow plug to the yellow video terminal.
2. **Set the TV/VIDEO selector on the television to VIDEO.**
3. **If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.**
   - See your VCR instruction manual for details.

If your TV (or VCR) has a SCART terminal

1. **Connect the PC-A10 SCART cable adapter to the TV or VCR's SCART terminal.**

2. **Connect the camera to the adapter.**
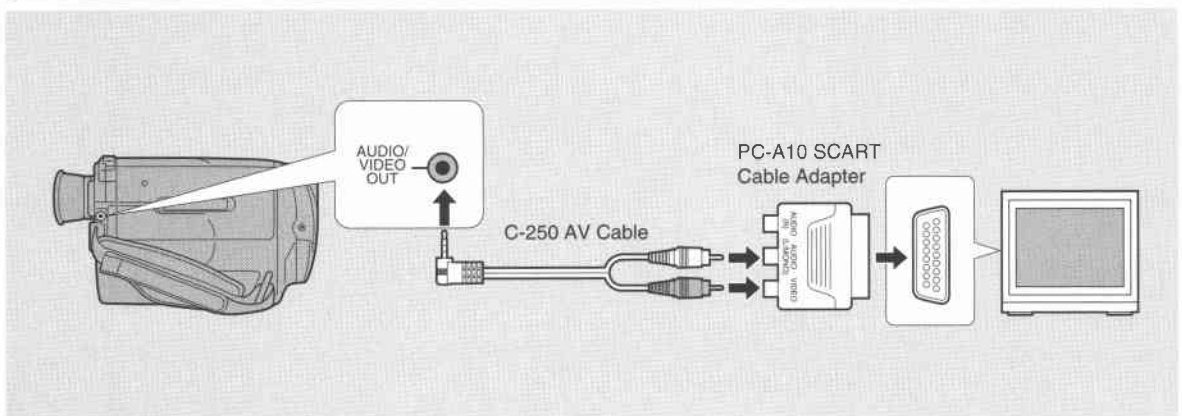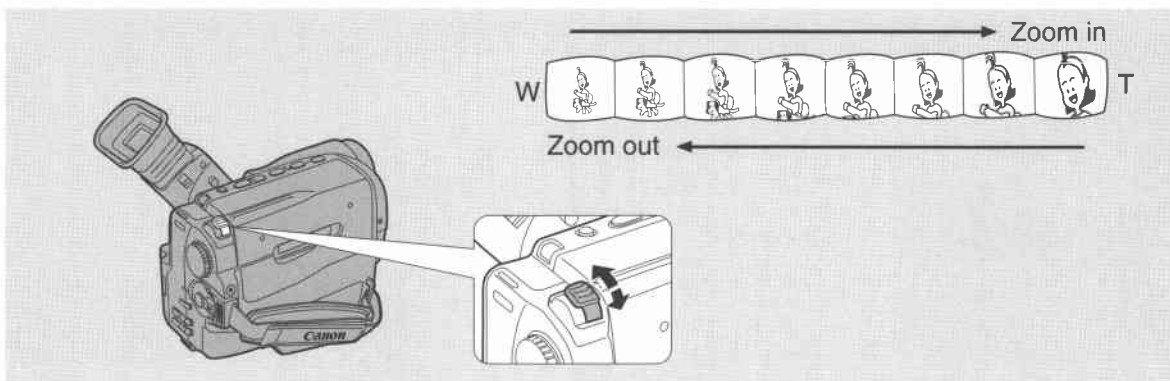   - Use the C-250 AV Cable. Connect the white plug to the white audio terminal. Connect the yellow plug to the yellow video terminal.

3. **If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.**
   - See your VCR instruction manual for details.

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Zooming

The camera's 16× zoom lens allows you to choose the best picture angle for each scene:
* Turn the zoom control towards W to zoom out to wide-angle.
* Turn it towards T to zoom in to telephoto.

You can also control the speed of zooming:
* Move the control slightly to zoom slowly.
* Turn it further to zoom more quickly. (The further you turn the zoom control, the faster the zoom speed.)

The T and W buttons on the wireless controller adjust the picture angle, but not the zoom speed:
* Press W to zoom out to wide-angle.
* Press T to zoom in to telephoto.

32× digital zoom (UC7500/UC7000)

Turn the digital zoom on by choosing DIGITAL ZOOM at the camera menu, to double the camera's zoom range.

▶MENU
(see p. 18)

```
▶DIGITAL ZOOM····ON
```

* In addition, for the UC7500/UC7000 you can assign CUSTOM KEY 1 to turn the digital zoom on/off (see page 20).

The zoom control continues to work as usual. You can freely zoom in and out between 1× and 32× magnification — the camera automatically switches between optical zooming (up to 16×) and digital zooming (16× to 32×).

Viewfinder displays

Zoom in	W ───▷─── T
Zoom out	W ───◁─── T
Stationary	W ───□─── T
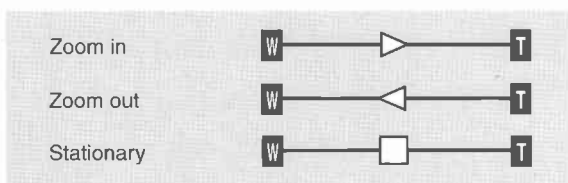
Notes:
* The viewfinder display stays lit for approximately 4 seconds following an adjustment to the picture angle.
* Overuse of the zoom may make recordings seem too busy. It is generally better to use it sparingly, or in order to reframe between shots.
* When you want to get as close as possible to your subject, keep the zoom at the wide-angle position. You can focus on a subject as close as 1 cm (3/8 in).
* When you turn the digital zoom on at the menu, "32×" appears in the viewfinder.

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Using the Menus

The menus let you choose settings for a wide range of functions. There are two separate menus, for recording (camera menu) and playback (play menu).

Camera menu

While the camera is in record pause mode, press the MENU button.

Screen 1

①Custom key information ....p. 21
②Tally lamp ....p. 23
③Remote sensor ....p. 22
④Digital zoom (UC7500/UC7000) ....p. 17
⑤Image stabilizer (UC7500/UC7000) ....p. 21
⑥Date select ....p. 25
⑦Date display ....p. 24
⑧Title ....p. 26

```
MENU
①─► CUSTOM KEY INFO·ON
     TALLY LAMP·····ON ──②
③─── SENSOR·········ON
     DIGITAL ZOOM···ON ──④
⑤─── IMAGE STABIL····ON
     DATE SELECT··DATE&TIME ──⑥
⑦─── DATE DISPLAY···CONT.
     TITLE········AUTO-10S ──⑧
```

Screen 2

①Date set ....p. 24
②Title set ....p. 27
③Title select..p. 28
④Custom key set ....p. 20

```
MENU
①─► DATE SET
     TITLE SET ── ②
③─── TITLE SELECT
     CUSTOM KEY SET ── ④
```
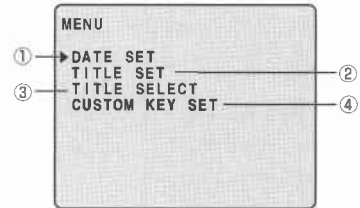
Play menu

With the POWER switch set to PLAY, press the MENU button.

①Remote sensor ....p. 22

```
MENU
①─── SENSOR··········ON
```
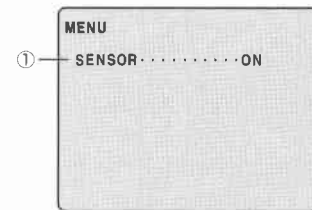
Turn to the appropriate page for a detailed explanation of each function.
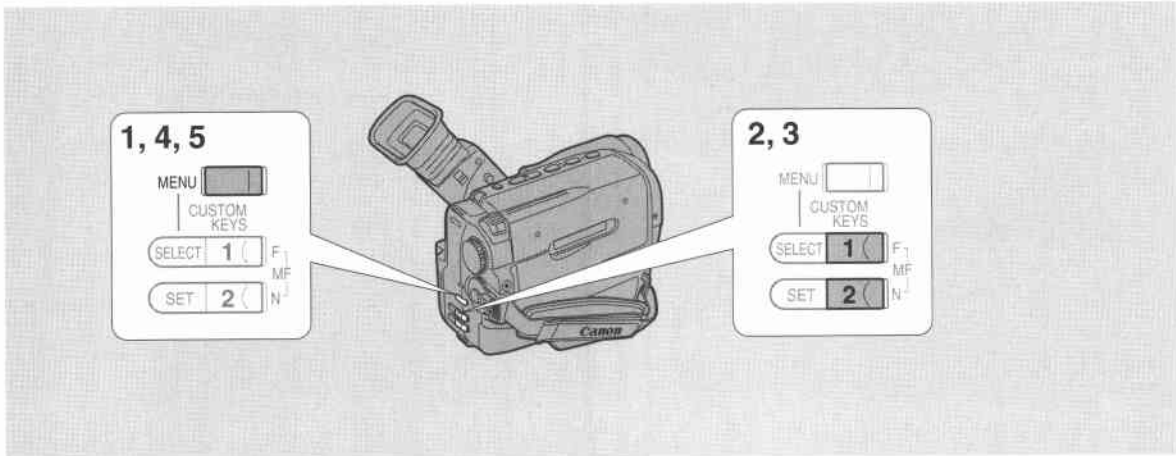
1. **Press the MENU button to open the menu at screen 1.**
2. **Use the SELECT button to move the cursor down the screen.**
   - When the cursor reaches the bottom of the selections it returns to the top of the list.
3. **Press the SET button to turn the function on or off, or to change its setting.**
4. **Press the MENU button again to move to screen 2 of the menu (camera menu only).**
   - Make selections in the same way as for screen 1.
5. **Press the MENU button to close the menu.**

Advanced Functions

Custom Keys

The Custom Keys let you choose the functions you want at your fingertips.
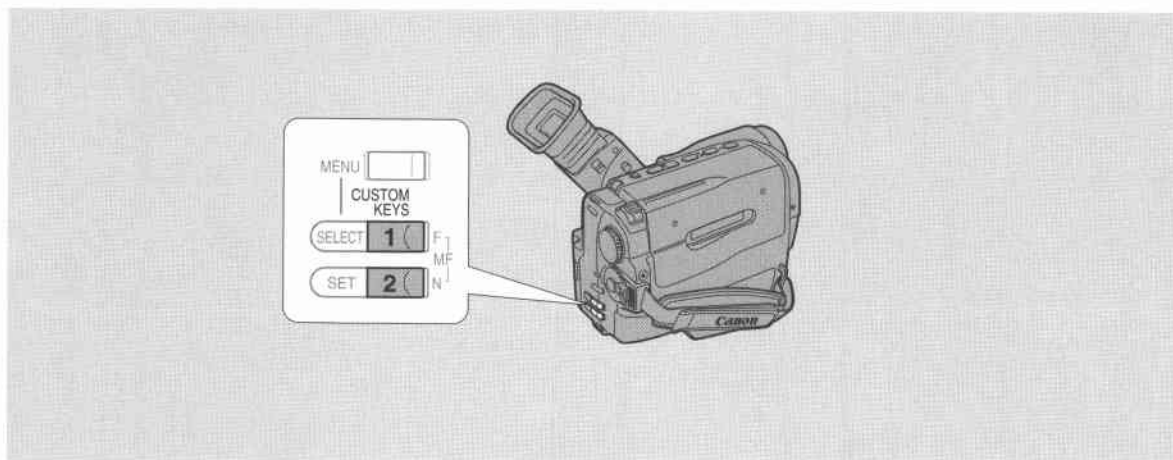
The two keys on the rear of the camera body can easily be set to operate a number of functions. When you buy the camcorder, they should be set as follows:

	CUSTOM KEY 1	CUSTOM KEY 2
UC7500/UC7000	D.ZOOM	IMAGE STABIL
UC6000	D.E.SELECT	D.E.ON/OFF

Select the combination of functions that you are likely to use most often. It is simple to change the Custom Key settings when necessary.

To set the function of the Custom Keys

▶**MENU**
(see p. 18)

▶CUSTOM KEY SET

1. **Press down the lock button and turn the POWER switch to CAMERA.**
2. **Open the camera menu to screen 2 and select CUSTOM KEY SET.**
3. **Press the SELECT button to move the cursor down until you reach the combination of functions of your choice.**

CUSTOM KEY 1	CUSTOM KEY 2
D.ZOOM (UC7500/UC7000 only)	IMAGE STABIL (UC7500/UC7000 only)
D.E.SELECT	D.E.ON/OFF
DATE	TITLE
FADE	BLC

4. **Press the SET (or MENU) button to assign the functions to the CUSTOM KEYS.**
   • The camera displays these functions in the viewfinder for about 3 seconds and then returns to the camera menu.
5. **Press the MENU button to close the menu.**

Displaying the Custom Key function in the viewfinder E

Choose to display the combination of functions set for the CUSTOM KEYS in the viewfinder.

1. **Press down the lock button and turn the POWER switch to CAMERA.**
2. **Open the camera menu and select CUSTOM KEY INFO.**
3. **Turn the information on or off.**
4. **Close the menu.**

Notes:
- If it takes you more than about five minutes to select the Custom Key information, the camera may turn itself off automatically before you finish. This can be avoided by removing the cassette before you begin.
- You can only operate the digital effects when the CUSTOM KEYS are assigned to the digital effect option.
- The camera remembers the Custom Key settings until you make a new selection.
- Even when the CUSTOM KEY INFO. (information) is turned off, the settings are displayed in the viewfinder for about 4 seconds each time you close the menu or turn the camera on.

Image Stabilizer (UC7500/UC7000)

With most camcorders, even the slightest hand movements will be noticeable during telephoto recording. However, the image stabilizer allows you to obtain steady recordings even at 32× magnification. Before you start recording, turn the image stabilizer on or off from the IMAGE STABIL option at the camera menu.

- In addition, for the UC7500/UC7000 you can assign CUSTOM KEY 2 to turn the image stabilizer on/off (see page 20).

Notes:
- The (((💪))) mark appears in the viewfinder when the image stabilizer is turned on.
- Due to the nature of the image stabilizer, the image quality will be lower when the image stabilizer is switched on, and the image will appear slightly enlarged in the viewfinder.
- The image stabilizer is designed to deal with a normal degree of camera shake — it cannot compensate for large movements of the camera.
- Keep the image stabilizer turned off when the camera is mounted on a tripod.
- The image stabilizer is not as effective as usual when the optional wide-convertor or tele-convertor is attached.

Wireless Controller

The wireless controller can operate the camera from a distance of up to 5 metres. Point it at the camera's remote sensor while you press the buttons.

The tally lamp lets you know that the camera is in range and responding to your commands.
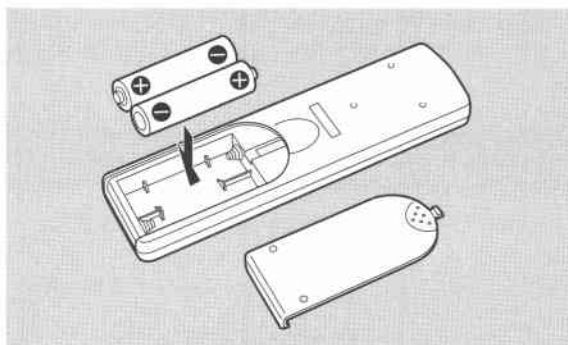
There are two functions which can only be operated using the wireless controller:
• Tape return (p.15)
• On-screen viewfinder displays (p. 48)

5m
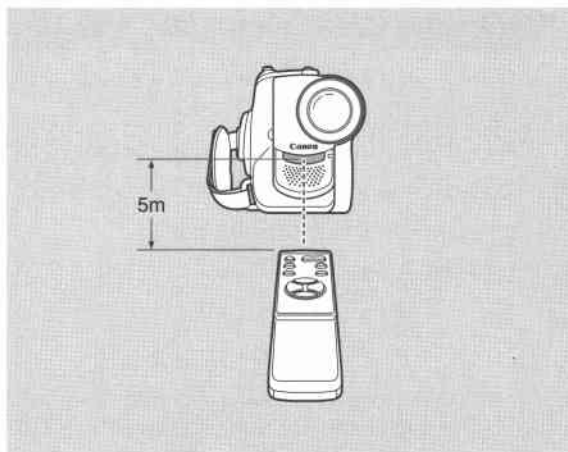
Inserting batteries

Insert two AA batteries, following the ⊕ and ⊖ markings. Be careful not to reverse the polarity of the batteries.
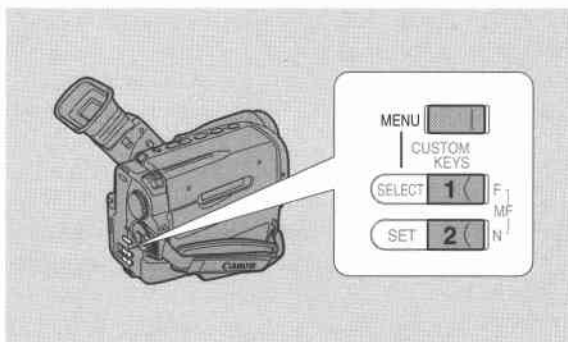
Turning off the remote sensor

▶ **MENU**
(see p. 18)

▶SENSOR·········OFF

The remote sensor may be turned off to prevent interference from other Canon wireless controllers being used nearby.

1. **Open either the camera or play menu and move the cursor to SENSOR.**
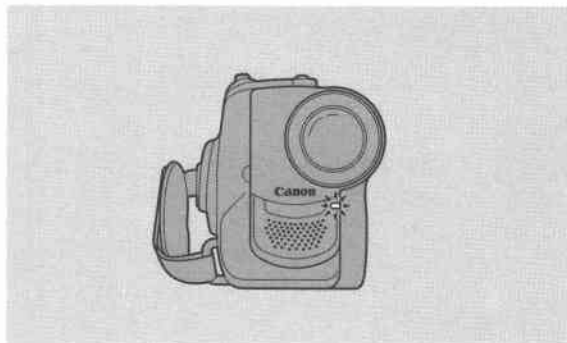2. **Select the OFF setting and close the menu.**

Turning off the tally lamp

▶ MENU
(see p. 18)

▶TALLY LAMP‥‥‥OFF

The tally lamp lets you know the camera is recording. However, it may be reflected into the lens during close-up recording or when recording through glass.

1. **Open the camera menu and move the cursor to TALLY LAMP.**
2. **Select the OFF setting and close the menu.**
   • The tally lamp no longer lights up during recording.

Notes:
• Sunlight or fluorescent light falling on the sensor may shorten the controller's operating distance by interfering with its infrared signals.
• The camera may have difficulty picking up the remote control signals at extremely close range.
• Do not leave the controller exposed to direct sunlight, or in hot or humid places.
• When changing exhausted batteries, replace them all at once.

Advanced Functions

Date and Time

▶**MENU**
(see p. 18)
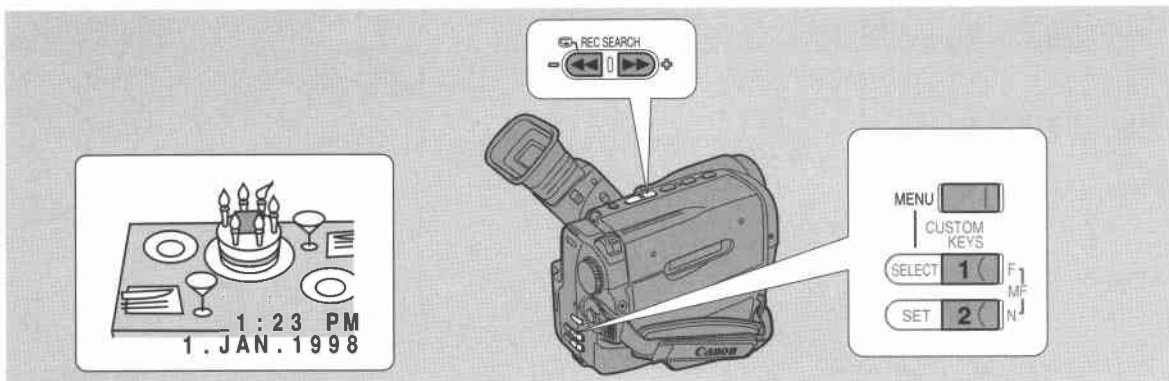
▶DATE DISPLAY···CONT.

Choose whether to add the date and time to your recordings by selecting DATE DISPLAY at the camera menu, and choosing one of the three options:

AUTO–10S: Adds the date and time to your recordings for the first 10 seconds of each scene you record.
   • The date/time display flashes in the viewfinder in record pause mode.

OFF: The date and time will not be added to your recordings at any time.

CONT.: The date and time are recorded continuously.

If you set the date display to AUTO–10S or CONT. but have not yet set the date and time, –:– – appears in the viewfinder during record pause mode. This will not be recorded.

Setting the date and time

Set the date and time display when you first start using your camera. As long as you have inserted the backup battery (p. 11), the camera's internal clock will continue to work even when the main power source is removed.

1. **Open the camera menu to screen 2 and choose the DATE SET option.**
   • The year display starts flashing.

2. **Press the REC SEARCH +/– buttons to move through the years one at a time.**
   • Press and hold to scan through the years.

3. **When you have chosen the year, press the SELECT button.**
   • The month display starts flashing.

4. **Repeat steps 2 and 3 to set the months, days, hours and minutes.**
   • After you set the minutes, press the SET (or MENU) button to start the clock; the camera displays the date and time for about 3 seconds and then automatically returns to the camera menu.
   • You can use the SET button to return to the camera menu, at any stage of setting the clock.

5. **Press the MENU button to close the menu.**

Notes:
• The display can be set to any year between 1998 and 2025.
• In addition, you can assign CUSTOM KEY 1 to choose whether to add the date and time to your recordings (see page 20). Once assigned, press the CUSTOM KEY to choose between auto–10s, off, and continuous display styles (each in turn).

Choosing the display style

You can choose between three different date/time displays at the camera menu.

▐▶**MENU**
(see p. 18)

▶DATE SELECT··DATE&TIME
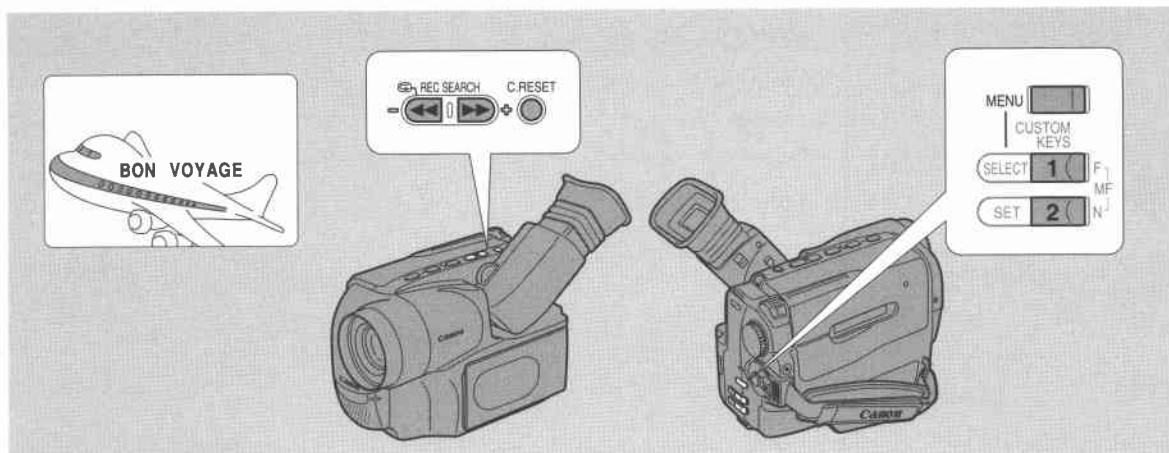
DATE&TIME

       1:23 PM
1.JAN.1998

DATE

1.JAN.1998

TIME

1:23:15 PM

Titles

You can write your own titles and store them in the camera's memory in order to add them to your recordings. Remember to install the backup battery first (see p. 11).

▌▶MENU
(see p. 18)

▶TITLE········AUTO-10S

Choose whether to add the title to your recordings by selecting TITLE at the camera menu, and choosing one of the three options:

AUTO-10S: Adds the title to your recordings for the first ten seconds of each scene your record.
• The current title flashes in the viewfinder in record pause mode.

OFF: The title will not be added to your recordings at any time.

CONT.: The title is recorded continuously.

Notes:
• In addition, you can assign CUSTOM KEY 2 to choose whether to add titles to your recordings (see page 20). Once assigned, press the CUSTOM KEY to choose between auto–10s, off, and continuous display styles (each in turn).
• When you turn the camera off, the TITLE setting is reset to OFF.

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Writing a title

These lines appear in the viewfinder while you are writing
a title.
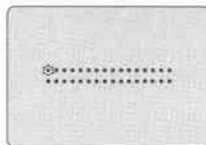
Enter your title in the camera's memory before you start recording. The title can be one or two lines of up
to 16 characters each.

1. **Open the camera menu to screen 2 and choose the TITLE SET option.**
   - The title lines appear in the viewfinder.
   - If you have already entered a title in the memory, it will be displayed in the viewfinder.
   - The first dot (or character) flashes to show where the cursor (the insertion point) is located.

2. **Press the SELECT button to move the cursor to the point where you want to start the title.**
   - Press once to move the cursor one space at a time. Press and hold to move it quickly.

3. **Press the REC SEARCH +/– buttons to scan the list of title characters.**
   - Press once to scan one at a time. Press and hold to scan quickly.
   - You can choose from the following characters:

   ⌐→ABCDEFGHIJKLMNOPQRSTUVWXYZ←⌐
   ⌊→۞&٭!?;:"'-/.,9876543210ËÇÑÆÅØÜÖÄ ←⌋

   - If you choose the flashing dot ۞, nothing will be recorded at this position.
   - You can erase all the characters at and to the right of the cursor by pressing and holding the C. RESET button for more than one second.

4. **When the character you want is displayed, press the SELECT button to move the cursor to the point where you want to write the next character.**

5. **Repeat steps 3 and 4 until your title is complete, then press the SET (or MENU) button to enter the title in the memory.**
   - The title is displayed for about 3 seconds, before the camera returns to the menu.

6. **Press the MENU button to close the menu.**

Note:
- If it takes you more than about five minutes to write a title, the camera may turn itself off automatically before you finish. This can be avoided by removing the cassette before you begin.

Using the preset titles

1. Open the camera menu to screen 2 and choose the TITLE SELECT option.
2. Press the SELECT button to move through the list of preset titles until the title you wish to use is displayed.
   • Each time you press the SELECT button the preset titles will be displayed in order one by one.

```
         ┌──────────┐
         │          ↓
         │  blank title/your own title
         │          ↓
         │   HAPPY BIRTHDAY
         │          ↓
         │  CONGRATULATIONS
         │          ↓
         │      HOLIDAY
         │          ↓
         │   HAPPY EASTER
         │          ↓
         │  MERRY CHRISTMAS
         │          ↓
         │    ANNIVERSARY
         │          ↓
         │    BEST WISHES
         │          ↓
         │    PARTY TIME
         │          ↓
         │     WEDDING
         │          ↓
         │     THE END
         │          ¦
         └──────────┘
```

3. Press the SET button to select the preset title and enter the title in the memory.
4. Press the MENU button to close the menu.

Fade

Fade in

Fade out
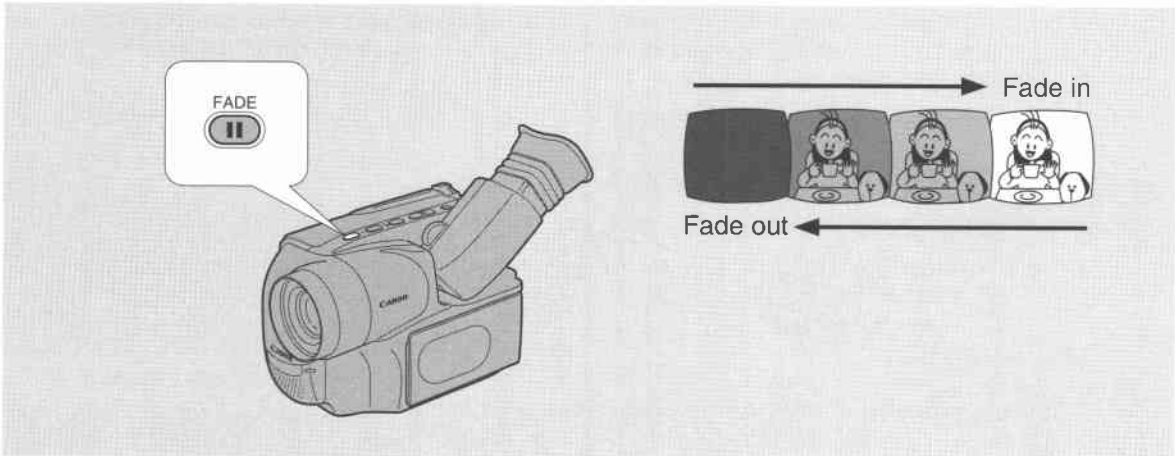
Fade in

To make the scene gradually appear from a blank screen:

1. **Make sure the camera is in record pause mode.**
2. **Press and hold the FADE button until the scene disappears completely from the viewfinder.**
3. **Press the start/stop button to begin recording.**
4. **Release the FADE button.**
   • The scene gradually reappears in the viewfinder.

Fade out

To make the scene gradually disappear:

1. **Press and hold the FADE button during recording.**
2. **When the scene has completely disappeared, press the start/stop button to end recording.**
3. **Release the FADE button.**

Notes:
• In addition, you can assign CUSTOM KEY 1 to operate the fade (see page 20). Once assigned, press the CUSTOM KEY to fade in or out in the same way as detailed above.
• The sound fades together with the image.
• Title, date and time displays do not fade.

Advanced Functions

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Choosing a Recording Program

The camera provides you with a choice of five recording programs. They use different combinations of camera settings in order to adjust the exposure and other functions to match the recording situation.
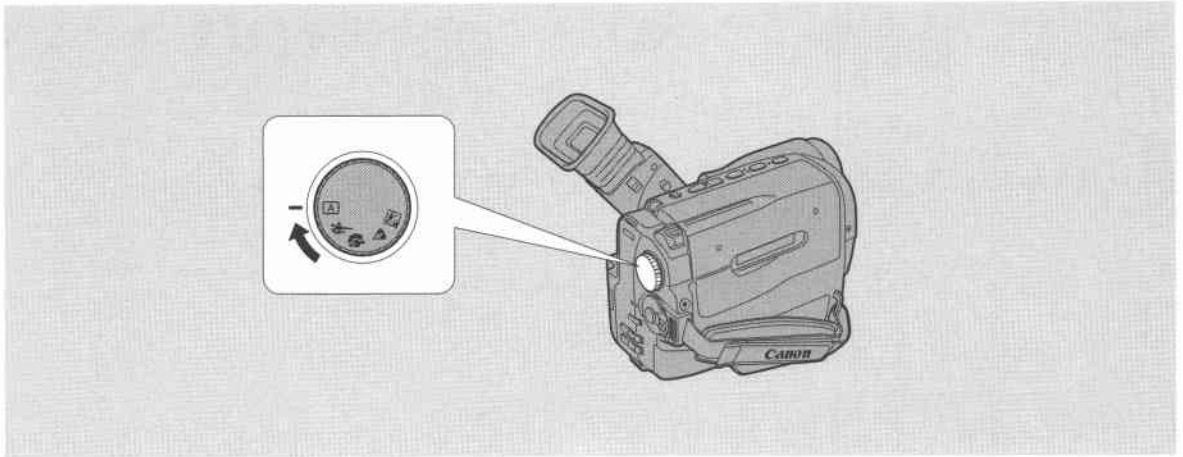
Rotate the program selector to choose the appropriate program before you start recording.

- For normal shooting conditions, you can leave the recording program selector set to A (Auto Recording). For different recording conditions, rotate the selector to the appropriate program before you start recording. Reset to A for standard conditions.

Auto Recording

The simplest way to use the camera is with the program selector set to the A position. The camera will adjust the focus and exposure automatically, leaving you free to point and shoot.

- You can only use the backlight compensation (BLC) button in this mode.

Specialised AE programs

Sports

This program is useful for recording high-speed sports scenes in brightly lit conditions. Normal playback will be slightly jerky, but you will get clear images which can be analysed frame by frame during slow or still playback on a VCR.

Portrait

Use this program outdoors to make the subject stand out from a softened foreground and background. It works well for still-lifes and close-ups. The effect is most noticeable when the zoom position is between the middle range and the telephoto end. Focus manually for maximum accuracy.

Spotlight

This program is designed for recording spotlit scenes, such as on a stage. The exposure is automatically adjusted for glare-free recordings of subjects lit by a concentrated light source.

Sand & Snow

Use this program in places where the background is so bright that the subject appears underexposed in the viewfinder — a sunny beach or ski resort, for example.


Notes:
• You can focus manually in any recording program (p. 32).
• Avoid changing programs during recording as the brightness of the image may change suddenly.
• The specialised AE programs are not suitable for all kinds of lighting. The image may flicker, or a bright line may appear on the screen if you use them in the wrong lighting conditions.

The camera has one other exposure function to give you added control over your recordings:

Backlight compensation

If the subject is brightly lit from behind, it may appear under-exposed and lacking in detail. To compensate for this, use the BLC function.
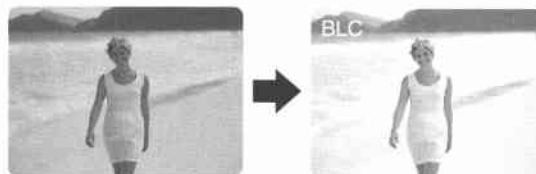
1. **Select the ⒶAuto Recording program.**
2. **If your subject is backlit and underexposed press and hold the BLC button.**
   • The camera will compensate for this as long as you hold the button down.
3. **Release the button when it is no longer needed.**

Note:
• In addition, you can assign CUSTOM KEY 2 to operate the BLC (see page 20).

Focusing
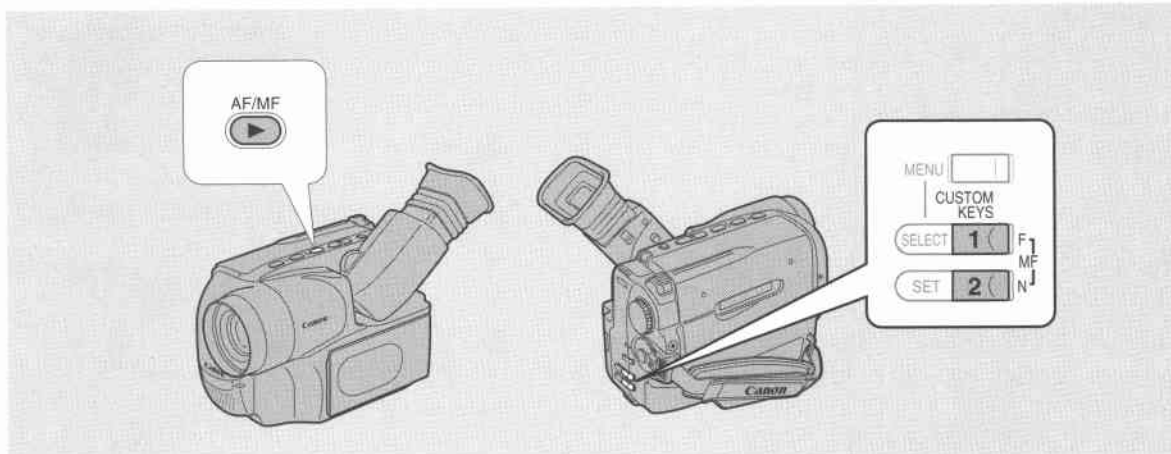
Autofocus

The camera can focus automatically. All you have to do is point it, and whatever is in the centre of the viewfinder will usually be in sharp focus.

You can rely on autofocus to give you good results in normal recording conditions.

Manual focus

Sometimes you will get better results by turning off autofocus and using manual focus instead.
(For a list of difficult to focus subjects refer to page 46.)

1. **Frame the picture with the zoom control.**
    *   If you use the zoom after manual focusing, the picture may go out of focus.

2. **Press the AF/MF button to switch to manual focus.**
    *   MF appears in the viewfinder.
    *   The focus remains locked at the point set by the autofocus.
    *   FAR and NEAR appear in the viewfinder, to represent the function of the Custom Keys.

3. **Press CUSTOM KEY 1 (F) to take the focus further away, and CUSTOM KEY 2 (N) to bring the focus closer towards you.**

4. **To return to autofocus, press the AF/MF button again.**

Notes:
*   The CUSTOM KEYS return to your chosen settings when you press the AF/MF button to turn the autofocus back on.
*   When you turn the camera off, manual focus is cancelled.

Record Search and Record Review
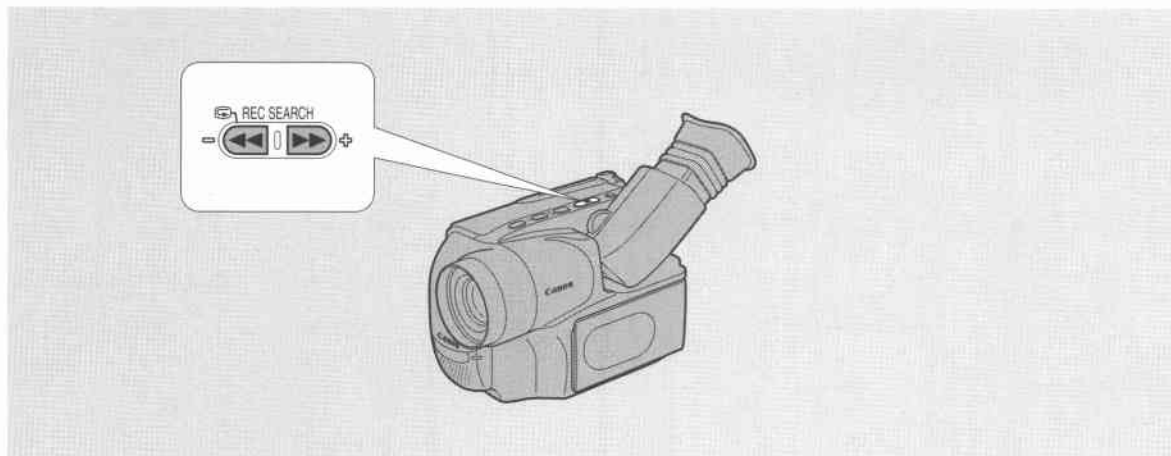
Record search

When the camera is in record pause mode, you can use record search to play the tape forwards or backwards to find the point where you want to start or restart recording. This is useful when you want to add a new scene to a previously used cassette. By using record search, you can ensure a smooth, noise-free join between the new scene and the old one.

1. **Make sure the camera is in record pause mode.**
2. **Press and hold the REC SEARCH + or – button while you check the picture in the viewfinder.**
   • The + button plays the recording forwards and the – button plays it backwards.
3. **Release the button when you find the point where you want to start recording.**
   • The record search picture pauses briefly and then the camera returns to record pause mode.

Record review

When the camera is in record pause mode, you can use record review to play back the last few seconds of your recording and then return automatically to record pause mode. You can quickly make sure that a scene has recorded properly and then go on to shoot the next scene, without producing any noise in the picture.

1. **Make sure the camera is in record pause mode.**
2. **Press and release the ⊖ button (the REC SEARCH – button) while you check the picture in the viewfinder.**
   • The camera rewinds the tape and plays back the last few seconds.
   • The camera returns to record pause mode at the point where you pressed the button.

Note:
• Noise or skew (picture distortion) may appear on the screen during record search and record review.

Advanced
Functions

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Digital Effects
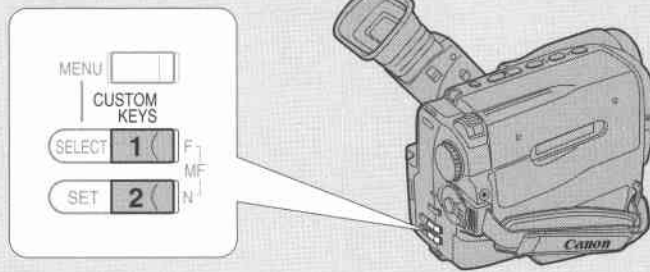
The camera can manipulate the recorded image in a variety of ways. The soundtrack is not affected.
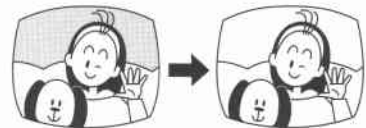
Art

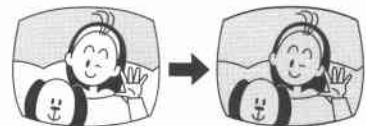Adds a paint-like effect, called solarization, to the image.

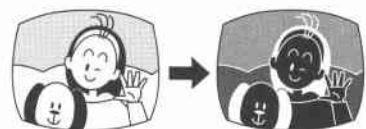## Black & White

Records the image in black and white.

Sepia

Records a monochrome image with a sepia tint.

Negative-Positive Conversion

Records a colour negative of the image. White appears as black, yellow appears as blue, green appears as red, etc. Also converts a negative image to an ordinary positive one.

Using Digital Effects

1. **Press down the lock button and turn the POWER switch to CAMERA.**

2. **Make sure that the CUSTOM KEYS are assigned to D. E. SELECT and D. E. OFF. (see p. 20).**

3. **Press CUSTOM KEY 1 (the SELECT button) to choose the effect you want.**
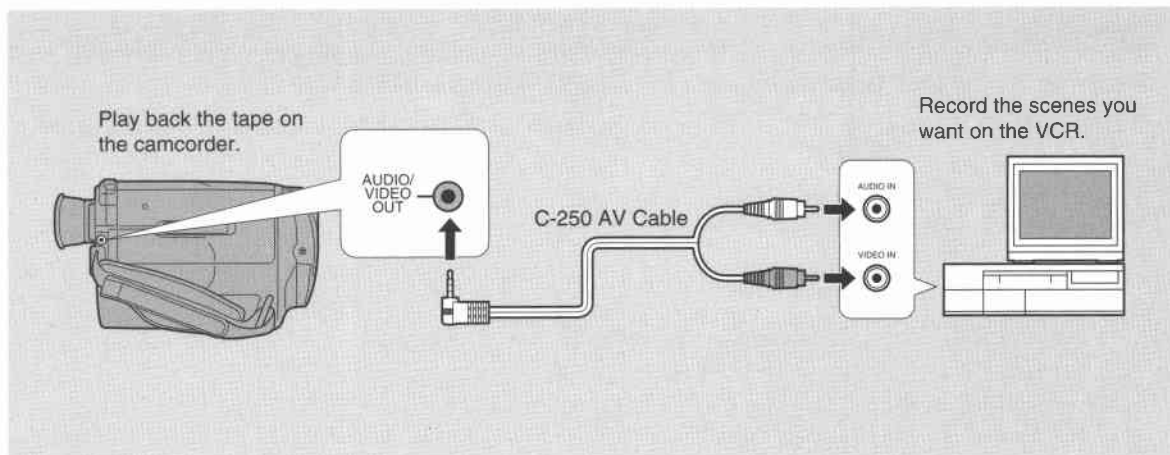   - Each time you press the key, the flashing viewfinder display changes:

No display → ART → BLK&WHT

NEG. ← SEPIA
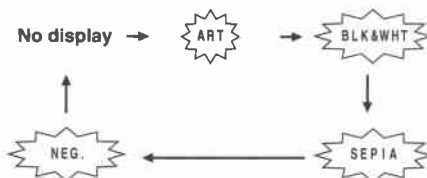
4. **Press CUSTOM KEY 2 (the SET button) to activate the effect.**
   - The viewfinder display stops flashing and shines continuously.

5. **Press CUSTOM KEY 2 to cancel the effect.**
   - The display starts flashing again. You can now select a different effect.

Notes:
- Choosing the blank display deselects all digital effects.
- Pressing CUSTOM KEY 2 now has no effect.

Editing to a VCR

Play back the tape on the camcorder.

AUDIO/VIDEO OUT

C-250 AV Cable

Record the scenes you want on the VCR.

AUDIO IN

VIDEO IN

By connecting the camera to a VCR, you can edit your recordings in order to remove unwanted scenes — or combine different shots to create your own video production.

Preparations

1. **Connect the camera to the VCR.**
   - See "Playback Connection" on p. 16.

2. **Turn the TV on.**
   - Be sure to set it to the video channel, or set the TV/VIDEO selector to VIDEO.

3. **Turn on the VCR and load a blank cassette.**
   - See your VCR instruction manual for details.

4. **Set the VCR's input selector to LINE, and put it in record pause mode.**

5. **Turn the POWER switch to PLAY, and load your recorded casette.**

Basic editing

1. **Find a point on your recorded cassette slightly ahead of the section you want to copy.**

2. **Start to play it back while you monitor the picture on the TV.**

3. **Start recording on the VCR as soon as the section you want to copy appears on the screen.**

4. **Pause the VCR at the end of the section you want to copy, then stop playback on the camera.**

5. **Repeat steps 1 to 4 until your edited recording is complete.**

Before editing

After editing

Note:
- The quality of the edited tape will be slightly lower than that of the original.
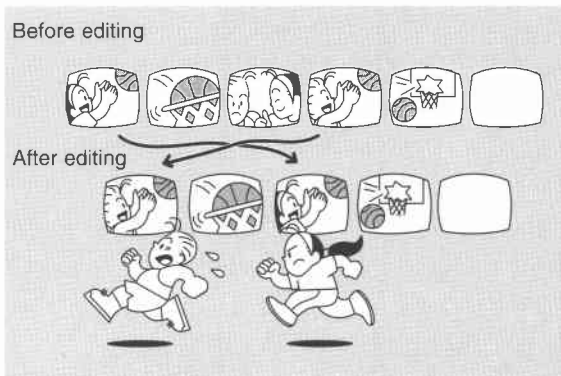
Making Better Videos

Holding the camera

For maximum stability, place your right hand through the grip belt and keep your right elbow pressed against your body. Rest your left hand lightly on the side of the camera. With practice, you will be able to operate the controls by touch, without taking your eye off the action.
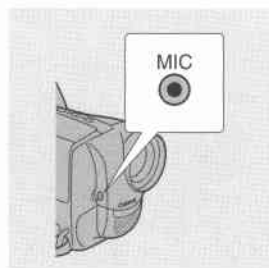
Using a tripod

To prevent any unwanted movement, you can mount the camera on a tripod, and operate it with the wireless controller.

Sound recording

For greater creative control, you can connect an external microphone to the MIC terminal.

Composition

The most important element in the scene does not have to be in the centre. For a more interesting picture, try to position your subject so it is slightly to one side. Leave some space on the side of the frame that the subject is facing or moving towards.

Don't cut off the top of the subject's head, and don't cut people off at the neck, hips or knees (move a little bit above or below).

Watch out for distracting objects in the background.

Additional
Information

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Picture angle

Instead of zooming while recording, try to choose your picture angle before you begin. A good way to tell a story with video is to begin with a long shot that establishes the situation, and then move in with medium shots and close-ups to show the details. Remember to change your viewpoint for each shot.

Long shot

Medium shot

Close-up

Camera moves

Use pans to record a landscape or following a moving subject. Decide the area you want to cover and stand facing the end of your panning angle. Without moving your feet, turn waist to the starting position. Start recording, and after a few seconds begin to turn slowly from the waist. Hold the final image for a few seconds before you stop recording.

Pan   Tilt
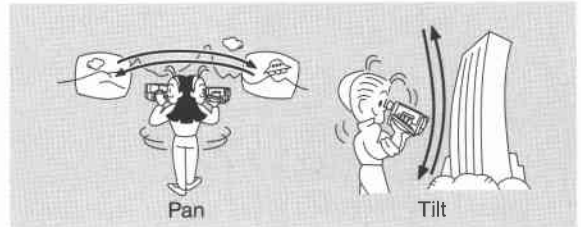
Tilt the camera up to exaggerate the height of the subject. Tilt down from the top of a building for example, as an introduction to subjects at the bottom.

Remember that any camera movement or change in picture angle should have a definite purpose. Avoid unnecessary or half-hearted movements.
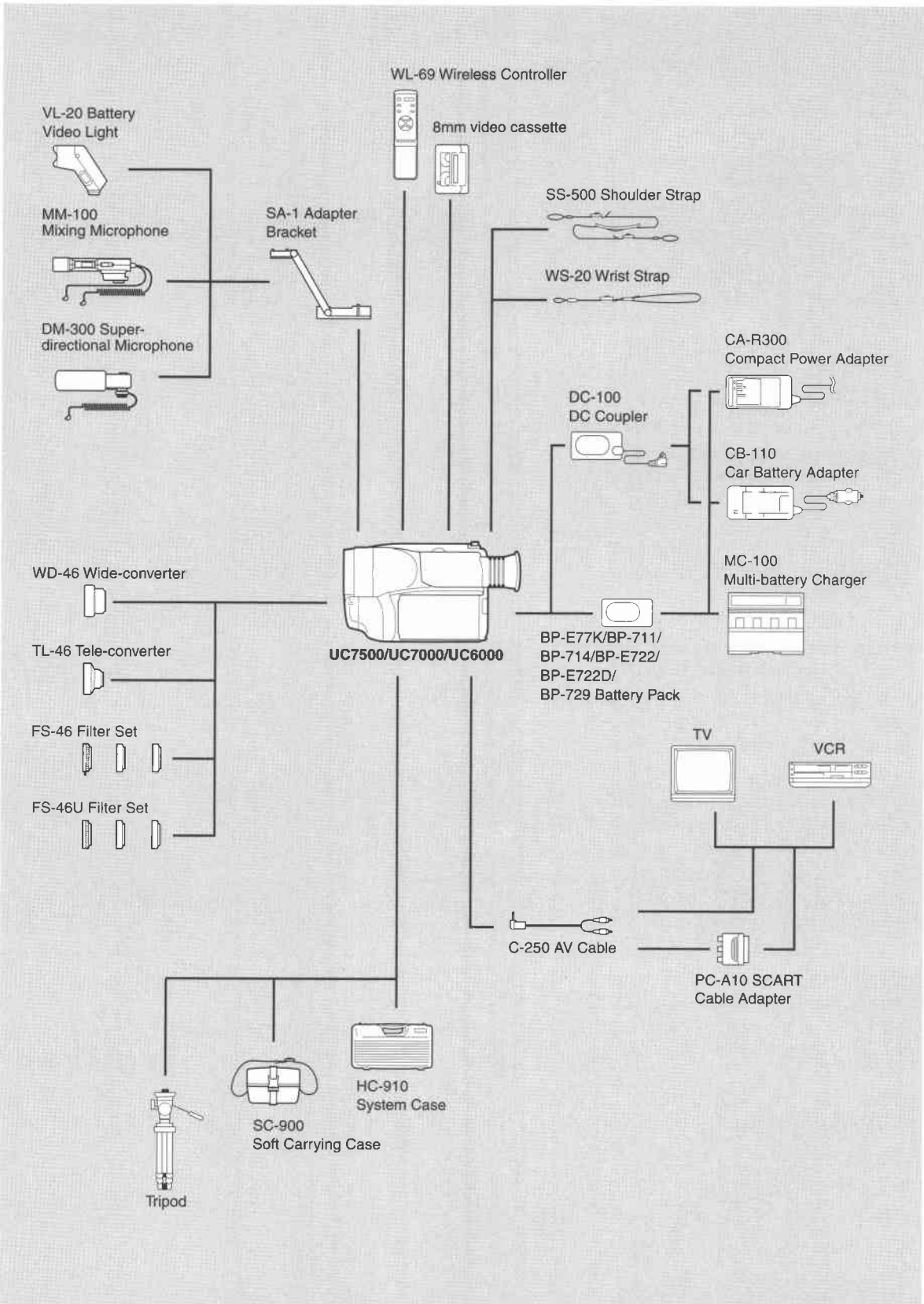
Notes:
- When you are using a tripod, be careful not to leave the viewfinder exposed to bright sunlight or it will melt. (The light is concentrated by the viewfinder lens.) You may be able to move the viewfinder out of direct sunlight by pushing it upright, or by moving it back down to horizontal.
- Make sure that the fastening screw of the tripod is no longer than 6 mm ($1/4$ inch), or it will damage the camera.

Additional
Information

UC7500/UC7000/UC6000 Video System (Availability differs from area to area.)

WL-69 Wireless Controller

VL-20 Battery Video Light

8mm video cassette

MM-100 Mixing Microphone

SA-1 Adapter Bracket

SS-500 Shoulder Strap

WS-20 Wrist Strap

DM-300 Super-directional Microphone

CA-R300 Compact Power Adapter

DC-100 DC Coupler

CB-110 Car Battery Adapter

WD-46 Wide-converter

MC-100 Multi-battery Charger

TL-46 Tele-converter

UC7500/UC7000/UC6000

BP-E77K/BP-711/ BP-714/BP-E722/ BP-E722D/ BP-729 Battery Pack

FS-46 Filter Set

TV

VCR

FS-46U Filter Set

C-250 AV Cable

PC-A10 SCART Cable Adapter

HC-910 System Case

SC-900 Soft Carrying Case

Tripod

Optional Accessories

E

Battery Packs

As well as the battery pack supplied with your camera, a whole range of optional battery packs is available.

Recording times are as follows:

> BP-711/BP-E77K ....60 min.
> BP-714 ....70 min.
> BP-E722/E722D ....120 min.
> BP-729 ....150 min.

The BP-E722D has a five-LED display which lets you know just how much charge you have left.
* Availability of the battery packs differs from area to area.

BP-711
BP-E77K
BP-714

BP-E722
BP-729

BP-E722D

CB-110 Car Battery Adapter

To power your camera or recharge battery packs on the move, the car battery adapter plugs into your car's cigarette lighter socket and runs off a 12/24 V negative ground battery.

CB-110

MC-100 Multi-battery Charger

The microcomputer-controlled MC-100 takes up to four battery packs at a time and dramatically cuts recharge times (it can charge the BP-711/BP-E77K in just 45 minutes). It also performs an automatic charge/discharge/recharge cycle which refreshes battery packs, restoring them to full capacity.

MC-100

TL-46 Tele-converter

This tele-converter lens increases the focal length of the camera lens by a factor of 1.4. The zoom and autofocus operate as usual, so you can take full advantage of the extra range.
* If you have a "professional-type" monitor, there may be some vignetting.

TL-46

WD-46 Wide-converter

This lens decreases focal length by a factor of 0.7, giving you a wide perspective for indoor shots or panoramic views — and you can still use both zoom and autofocus.
* There may be some vignetting at the extreme wide angle position.

WD-46
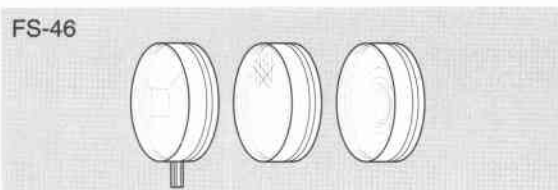
FS-46 Filter Set

Three special effects filters to add a creative touch to your recordings:
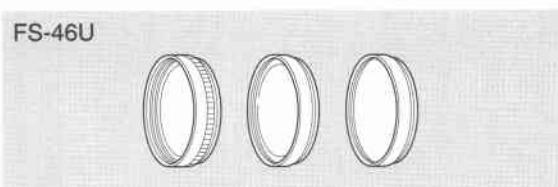multiple-image, R-cross and zoom-spot.
- Turn autofocus off when using special effects filters.
- If you have a "professional-type" monitor, there may be some vignetting.

FS-46U Filter Set

Ultraviolet, neutral density and circular polarising filters help you take control of difficult lighting conditions.

VL-20 Battery Video Light

This compact yet powerful video light can be used for both indoor and outdoor shooting. There are no cables — the BP-711/BP-E77K Battery Pack fits neatly inside, powering it for up to 15 minutes. For longer recordings, the BP-E722/BP-E722D and BP-729 give about 35 and 50 minutes' use respectively. The SA-1 Adapter Bracket is required.

MM-100 Mixing Microphone

The MM-100 mixes live sound and music, so you can create the ideal soundtrack for your video productions.
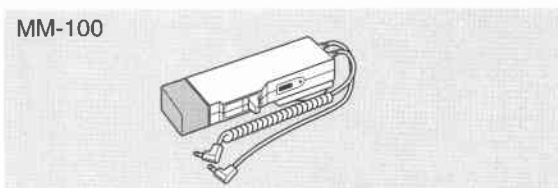
DM-300 Super-directional Microphone

This highly sensitive super-directional microphone helps you obtain quality sound recordings even in the most difficult conditions.
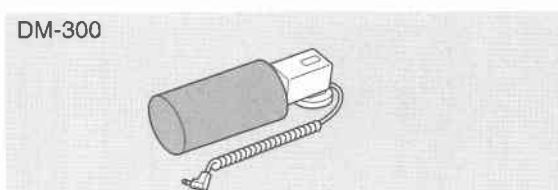
SA-1 Adapter Bracket

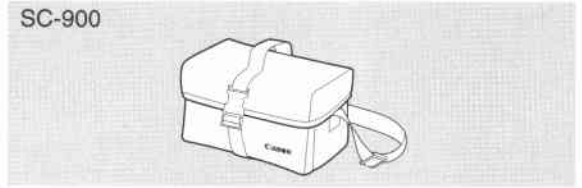Attaches a video light or microphone securely to the camera.

FS-46

FS-46U

VL-20

MM-100

DM-300

SA-1

Additional Information

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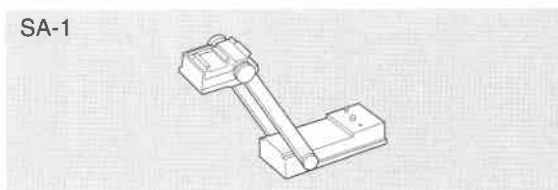
SC-900 Soft Carrying Case

This lightweight bag keeps the camera within easy reach without weighing you down or getting in the way.
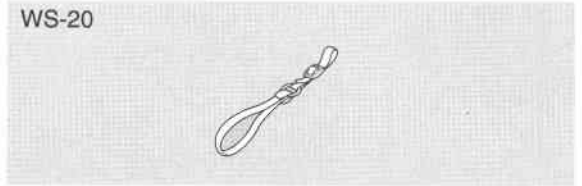
WS-20 Wrist Strap

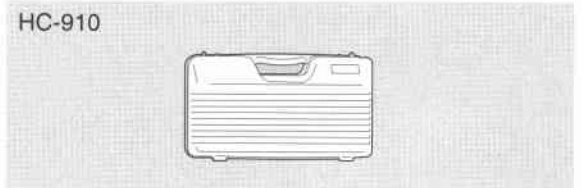Provides an extra measure of protection for active shooting.

HC-910 System Case

This solid, lockable case provides safe and stylish protection for the camera during transportation and storage.

SC-900

WS-20

HC-910

This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canon-brand accessories or products bearing this same mark.

Cautions and Maintenance

Cautions

Avoid high temperatures and high humidity.

- Do not leave the camera inside a car in hot weather, for example.
- Be careful of heat radiating from video lighting equipment.
- Do not take the camera into a humid room.

Avoid sudden changes in temperature.

- If you take the camera from a cold place to a warm place, condensation may form on the lens and internal parts (see p. 44-45).

Do not point the lens or viewfinder at strong light sources.

- Never point it at the sun, and do not leave it aimed at a bright subject.
- Be especially careful when leaving the camera on a tripod.

Avoid magnetic or electric fields.

- Do not use the camera close to TV transmitters, portable communication devices or other sources of electric or magnetic radiation. They may cause picture interference, or permanently damage the camera.

Do not expose the camera to water.

- Cover the camera when you are recording in light rain or mist.
- There is a risk of electric shock if water gets inside the camera — contact qualified service personnel as soon as possible.

Protect the lens.

- Sand and dust can damage the lens — be especially careful on windy days.

Handle the camera gently.

- Vibration or shock can cause damage.
- Do not use the viewfinder as a carrying handle.

### Do not disassemble the camera.

- This is very dangerous as there is a risk of electric shock — if the camera does not function properly, take it to qualified service personnel.

Note:

- These cautions also apply to accessories such as battery packs and cassettes.

Maintenance

Viewfinder

- To clean the viewfinder screen push the viewfinder up and press down the small catch to release the rubber eyecup that you can then slide off.
- For the UC7000/UC6000, gently lift off the lens underneath from the small tab at the top (using a small pointed object if necessary).
- Clean the viewfinder screen with a commercially available blower brush.
- Replace the eyecup by sliding it, until it clicks back into position.

UC7500   UC7000/UC6000
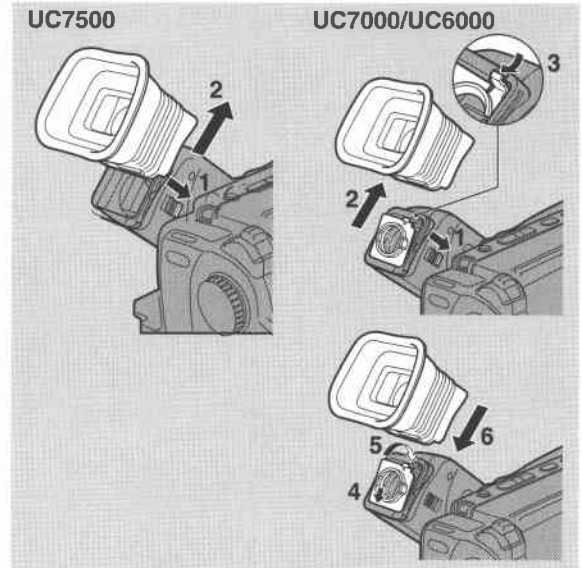
Camera body and lens

- Use a soft, dry cloth to clean the camera body or lens. Never use chemically treated cloth or volatile solvents such as paint thinner.

Video heads

- Clean the video heads only when necessary, preferably using Canon's CC-8 Video Head Cleaning Cassette.
- Do not use a wet-type cleaning cassette as this can cause damage.

Storage

If you do not intend to use the camera for some time, store it in an area which is free of dust and moisture, and where the temperature is no higher than 30°C (86 °F). After storage, check each part and function of your camera to make sure everything is still working properly.
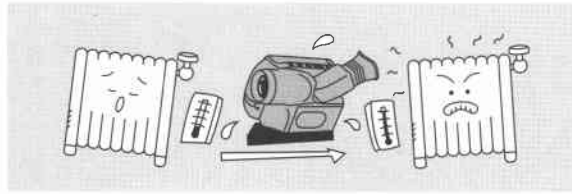
Condensation

Condensation may form on the camera when it is moved from a cold place to a warm place. Using the camera while condensation is present can damage both the tape and the camera.
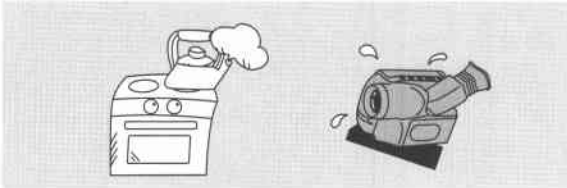
Additional Information
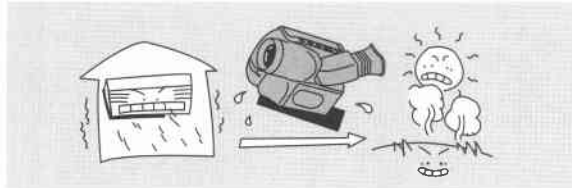
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Condensation may become a problem:
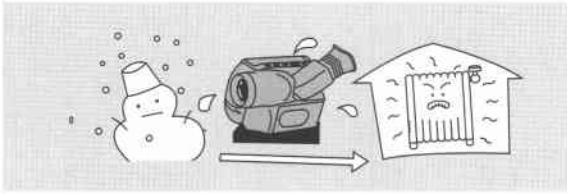
When you bring the camera from a cold place to a warm room

When a cold room is heated rapidly

When the camera is left in a humid room

When the camera is taken from an air-conditioned room to a warm, humid place

Protecting the camera from condensation
• Before you bring the camera to a warm or humid place where condensation is likely to be a problem, unload the cassette and put the camera in a plastic bag. Wait until the camera reaches room temperature before you take it out of the bag.

What happens when condensation is detected
• The operation indicator flashes the ▣ mark flashes in the viewfinder. If there is a cassette in the camera, it stops automatically and EJECT flashes in the viewfinder.
• The camera may not detect the condensation immediately — the condensation warning may not start flashing for 10 to 15 minutes.
• You cannot load a cassette when condensation is detected.

What you should do
• Remove the cassette, leave the cassette compartment open, and turn the camera off.
• Leave it in a dry place until the condensation evaporates. After the condensation warning stops flashing, wait at least another hour before trying to use the camera.

Using the camera abroad

Power sources
• You can use the compact power adapter to operate your camera and charge battery packs in any country where the electricity supply is between 100 and 240 V AC, 50–60 Hz. Contact your Canon dealer for information about plug adapters for overseas use.

TV playback
• Although you can always play back your recordings in the viewfinder, your camera can only be connected to TVs which use its PAL system. This TV system is used in the following countries: Algeria, Australia, Austria, Bangladesh, Belgium, Brunei, China, Denmark, Finland, Germany, Hong Kong, Iceland, India, Indonesia, Ireland, Italy, Jordan, Kenya, Kuwait, Liberia, Malaysia, Malta, Mozambique, the Netherlands, New Zealand, North Korea, Norway, Oman, Pakistan, Portugal, Qatar, Sierra Leone, Singapore, South Africa, Spain, Sri Lanka, Swaziland, Sweden, Switzerland, Tanzania, Thailand, Turkey, Uganda, United Arab Emirates, United Kingdom, Yemen, former Yugoslavia, Zambia.

Additional
Information

Troubleshooting

Refer to this checklist first if you have any problems with your camera. Possible explanations are given below each problem on the list — turn to the page numbers in brackets for more information.

Make sure that the camera is properly connected if you ate using it with a TV or VCR. Consult your dealer or service outlet if problems persist.

? Nothing happens when I press the buttons.
- You haven't turned the camera on (p. 6, 14).
- You haven't loaded a cassette, or it is set for erasure prevention (p. 12).
- The tape has reached the end.
- The battery pack is exhausted, or not properly attached (p. 8-10).
- You need to select a different recording program to use that function (p. 30).

? The camera turned itself off.
- You left it in record pause mode for more than about five minutes (p. 6).
- The battery pack is exhausted (p. 9-10).

? The start/stop button doesn't work.
- The POWER switch is not set to CAMERA (p. 6).
- You haven't loaded a cassette, or it is set for erasure prevention (p. 12).
- The Tape has reached the end.

? There's no picture in the viewfinder.
- The POWER switch is not set to CAMERA (p. 6).

? The Custom Keys don't work.
- The focus is set to manual (p. 32).

? The camera won't focus.
- The camera is on manual focus (p. 32).
- The viewfinder lens needs adjusting (p. 13).
- The lens is dirty (p. 44).
- Some subjects are not suitable for autofocus.

Subjects behind glass

Several subjects in the viewfinder at different distances
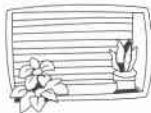
Slanted subjects

Rapidly moving subjects

Subjects without much contrast (such as a white wall)

Subjects with horizontal stripes

Dark subjects

Subjects which reflect too much light (such as shiny car exteriors)

Night scenes and low light conditions

Subjects not in the centre of the viewfinder

In these situations, you will often get better results using manual focus (see p. 32).

? The ▶ (PLAY) button doesn't work.

- The POWER switch is not set to PLAY (p. 14).
- You haven't loaded a cassette (p. 12).
- The tape has reached the end.

? There's a bright stripe on the screen.

- When you are recording in dark places, a bright light in the scene may cause a vertical bar, called smear, to appear on the screen.

? The playback picture is rough.

- If your recordings do not play back smoothly, clean the video heads (p. 44).

? There's no picture on the TV screen, even though the tape is moving.

- The video heads need cleaning (p. 44).
- The TV/VIDEO selector on the TV isn't set to VIDEO (p. 16).

? The wireless controller doesn't work.

- The remote sensor is turned off (p. 22).

? The tally lamp doesn't flash.

- It is turned off (p. 23).

? The operate indicator is flashing.

- Check the viewfinder displays (p. 48).

? Malfunction

- External interference may cause the camera's microprocessor to malfunction temporarily. If random letters appear in the viewfinder or if normal operation is interrupted, remove and then replace the power source (and if necessary, the backup battery).

About the LCD Viewfinder (UC7500)

Liquid Crystal Viewfinder use extremely high-precision technology, but there will be pixels which do not light up or which are continuously lit. This is not an error and will not affect the recording.
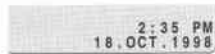
Viewfinder Displays

Use the wireless controller's ON SCREEN button to choose whether or not the viewfinder displays appear on the TV screen. They are not recorded to the tape if you start recording with the camera.
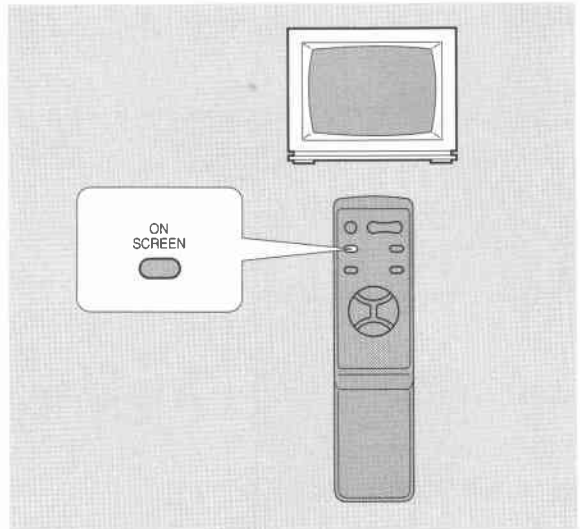
⁣⁣⁣⁣ indicates a flashing display.

Date and time display (p. 24)	2:35 PM 18.OCT.1998
The date and time have not been set. This display will not be recorded (p. 24)	--:-- -- --,---.----
Title (p. 26)	ANNIVERSARY
Record pause mode (p. 6)	PAUSE
Recording (p. 6)	REC
Playback (p. 14)	►
Fast forward (p. 14)	►►
Rewind (p. 14)	◄◄
The tape is stopped (p. 14).	STOP

The camera is ejecting the tape (p. 12).	EJECT
The safety mechanism is activated. Unload the cassette and turn the camera off. Turn it on again and reload the cassette.	EJECT
No cassette is loaded, or the cassette is set for erasure prevention (p. 12).	
The tape is within five minutes of the end.	END
The tape has reached the end.	END
Tape return, forward and reverse (p. 15)	T.RTN►► T.RTN◄◄
The battery pack is nearly exhausted (p. 8-10).	
The backup battery is nearly exhausted, or not inserted properly (p. 11).	

Optical zoom (p. 17)

Digital zoom (UC7500/
UC7000 only) (p. 17)

Image stabilizer (UC7500/
UC7000 only) (p. 21)

Remote sensor is turned off
(p. 22)

S OFF

Tally lamp is turned off
(p. 23)

T OFF

Tally lamp and remote sensor
are turned off (p. 22-23).

T / S OFF

Specialised AE programs
(p. 30-31)

SPORTS

PORTRAIT

SPOTLIGHT

SAND&SNOW

Autofocus is turned off
(p. 32)

MF

Backlight compensation
(p. 31)

BLC

Digital effects:
The display flashes when the
effect is being selected, and
appears steadily when it is
activated (p. 34-35).

ART

BLK&WHT

SEPIA

NEG.

Condensation warning
(p. 44-45)

Custom key settings

E

(UC7500/UC7000 only)

| D.ZOOM |
| IMAGE STABIL |

| D.E.SELECT |
| D.E.ON/OFF |

| DATE |
| TITLE |

| FADE |
| BLC |

(During manual focus)

| FAR |
| NEAR |

Tape counter

1:23:45

The tape counter indicates the approximate running
time of the tape — 1 hour, 23 minutes and 45
seconds in this example. The tape counter is reset
when a cassette is loaded, or when you press the
COUNTER RESET button (p. 15).

Recording reminder

| 0SEC | ➡ | 10SEC |

When you start recording, the camera counts from
0SEC to 10SEC. Shots which are shorter than 10
seconds may be difficult to edit later. On the other
hand, if you are not planning to edit the recording,
remember that a shot which does not contain action
should generally last no longer than 10 seconds.

Nomenclature

E

C. (counter) RESET button (p. 15)

▶▶ (fast forward) button (p. 14)
REC SEARCH + button (p. 33)

◀◀ (rewind) button (p. 14)
REC SEARCH – and
⊡ (record review) button (p. 33)

▶ (play) button (p. 14)
AF/MF button (p. 32)

■ (stop) button (p. 14)
BLC button (p. 31)

❙❙ (pause) button (p. 14)
FADE button (p. 29)

Lens (p. 44)

Remote sensor
(p. 22)

Microphone
(p. 37)

Tally lamp (p. 23)

Backup battery
compartment (p. 11)

Battery pack (p. 8–10)

RELEASE switch
(p. 44)

EJECT ▲ button
(p. 12)

Zoom control
(p. 17)

Cassette compartment
(p. 12)

AUDIO/VIDEO OUT
terminal (p. 16)

Grip belt (p. 13)

MIC terminal (p. 37)

Additional
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E

Viewfinder (p. 13, 44)

Viewfinder focusing switch (p. 13)

Tripod socket (p. 37)

Strap attachment bar (p. 13)

Program selector (p. 6, 30)

MENU button (p. 18)

Start/stop button (p. 6)

Lock button (p. 6)

BATTERY EJECT button (p. 7)

POWER switch (p. 6)

SELECT button (p. 19)
CUSTOM KEY 1 (p. 20)

SET button (p. 19)
CUSTOM KEY 2 (p. 20)

Strap attachment bar (p. 13)

ZOOM buttons (p. 17)

START/STOP button (p. 6)
ON SCREEN button (p. 48)
PAUSE II button (p. 14)
REW ◄◄ button (p. 14)

COUNTER RESET button (p. 15)
TAPE RETURN button (p. 15)
PLAY ► button (p. 14)
FF ►► button (p. 14)
STOP ■ button (p. 14)

Additional Information

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Specifications

UC7500/UC7000/UC6000

Power supply (rated):	6 VDC
Power consumption:	5.4 W
Television System:	CCIR standard (625 lines, 50 fields) PAL colour signal
Video recording system:	2 rotary heads, helical scanning system
	Luminance signal: FM azimuth recording
	Chrominance signal: Converted subcarrier phase shift recording (8mm video standard)
Audio recording system:	Frequency multiplexing with the video signal by 2 rotary heads, 1 channel
Image sensor:	1/4-inch CCD (charge-coupled device), 320,000 pixels (290,000 effective pixels). With image stabilizer on (UC7500/UC7000): 200,000 effective pixels
Tape format:	8mm video cassette, metal particle
Tape speed:	20.05 mm/s
Maximum recording time:	90 minutes (with a P5-90 cassette)
Fast forward/rewind time:	Approx. 6 minutes (with a P5-90 cassette)
Lens:	f/1.4–2.7, 16× power zoom, 3.9–62.4 mm
Focusing system:	TTL autofocus, manual focusing buttons
Minimum focusing distance:	1 cm (3/8 in) on maximum wide angle
Maximum shutter speed:	1/1000 sec
Minimum illumination:	2 lx
Recommended illumination:	More than 100 lx
Filter diameter:	46 mm
Electronic viewfinder:	UC7500: 0.55 inch colour LCD, 113,000 pixel
	UC7000/UC6000: 0.5 inch monochrome CRT
Microphone:	Non-directional electret condenser microphone
Output level:	Video terminal: 1 Vp-p/75 ohms unbalanced
	Audio terminal: –10 dBV, less than 3 kohms, unbalanced
Operating temperature range:	0°–40° (32°–104°F)
Dimensions:	106.5 × 97.5 × 199.3 mm (4 3/16 × 3 3/16 × 7 13/16 in)
Weight:	UC7500/UC7000: Approx. 710 g (1 lb 9 oz)
	UC6000: Approx. 700 g (1 lb 8 3/4 oz)

BP-711 Battery Pack

Battery type:	Rechargeable nickel cadmium battery
Rated voltage:	6V DC
Operating temperature range:	0°–40°C (32°–104°F)
Dimensions:	22.5 × 47 × 90 mm (7/8 × 1 7/8 × 3 5/8 in)
Weight:	150 g (5 1/4 oz)

Weight and dimensions are approximate
Errors and omissions excepted.
Subject to change without notice.

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Additional
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Canon