# SONY

# Digital Video Camera Recorder Mini De Digital Video Cassette

# **Operating Instructions**

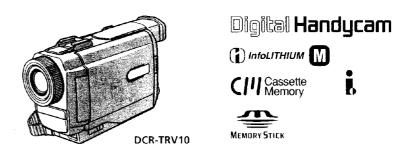
Before operating the unit, please read this manual thoroughly, and retain it for future reference.

# **Owner's Record**

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

 Model No. DCR-TRV
 Model No. AC-\_\_\_\_\_

 Serial No.
 Serial No.



DCR-TRV8/TRV10

©1999 by Sony Corporation

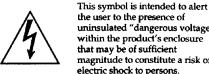
#### Welcome!

Congratulations on your purchase of this Sony Digital Handycam camcorder. With your Digital Handycam, you can capture life's precious moments with superior picture and sound quality. Your Digital Handycam is loaded with advanced features, but at the same time it is very easy to use. You will soon be producing home video that you can enjoy for years to come.

# WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.





the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Never expose the battery pack to temperatures above 140°F (60°C ) such as in a car parked in the sun or under direct sunlight.

#### **DISPOSAL OF LITHIUM ION BATTERY.** LITHIUM ION BATTERY.

### **DISPOSE OF PROPERLY.**

You can return your unwanted lithium ion batteries to your nearest Sony Service Center or Factory Service Center.

Note: In some areas the disposal of lithium ion batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call

1-800-222-SONY (United States only)

For the Sony Factory Service Center nearest you call 416-499-SONY (Canada only)

Caution: Do not handle damaged or leaking lithium ion battery.

#### For customers in CANADA CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

#### For customers in the U.S.A. CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Declaration of Conformity	
Trade Name:	SONY
Model No.:	DCR-TRV8, DCR-TRV10
<b>Responsible Party:</b>	Sony Electronics Inc.
Address:	1 Sony Drive, Park Ridge, NJ, 07656 USA
Telephone No.: 201-930-6970	
Rules. Operation is	es with Part15 of the FCC subject to the following two device may not cause

harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

#### Note:

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 limits 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Memory Stick

#### For customers in CANADA

This Class B digital apparatus complies with Canadian ICES-003.

#### For customers in the U.S.A.

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.

# **Table of contents**

Quick Start Guide ...... 4

### **Getting started**

Using this manual	. 6
Checking supplied accessories	
Step 1 Preparing the power supply	
Installing the battery pack	. 9
Charging the battery pack	10
Connecting to a wall outlet	13
Step 2 Inserting a cassette	14

### **Recording – Basics**

Recording a picture 15
Shooting backlit subjects (BACK LIGHT) 21
Shooting in the dark (NightShot) 21
Checking the recording – END SEARCH / EDITSEARCH / Rec Review 24
/ EDITSEARCH / Rec Review 24

#### **Playback – Basics**

Playing back a tape	. 25
Viewing the recording on TV	. 28

# **Advanced Recording Operations**

Photo recording
Using the wide mode
Using the fader function
Using special effects - Picture effect 36
Using special effects - Digital effect 38
Adjusting the white balance manually 41
Using the PROGRAM AE function 42
Adjusting the exposure manually 44
Focusing manually 45

# **Advanced Playback Operations**

Playing back a tape with picture effects 46
Playing back a tape with digital effects 47
Quickly locating a scene using the zero
set memory function 48
Searching a recording by date - Date search 49

# Editing

Dubbing a tape 54
Editing partially on a DV tape - DV
Editing partially on a DV tape – DV synchro-editing (DCR-TRV10 only) 56
Recording video or TV programs 58
Inserting a scene from a VCR 59
Audio dubbing 61
Superimposing a title 65

Making your own titles	68
Labeling a cassette	70

## **Customizing Your Camcorder**

Changing the MENU settings	
	-

## Memory Stick operations (DCR-TRV10 only)

### **Additional Information**

Usable cassettes 1	09
Troubleshooting 1	11
Self-diagnosis display 1	16
Warning indicators and messages 1	17
Using your camcorder abroad 1	19
Maintenance information and precautions 1	. <b>2</b> 0
Specifications 1	24

# **Quick Reference**

Identifying the pa	rts and controls 125
Quick Function G	uide 135
Index	Back cover

Windows is registered trademarks licensed to Microsoft Corporation, registered in the U.S.A. and other countries.

respective companies. Furthermore, """ and "®" are not mentioned in each case in this manual.

Getting started

All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies.

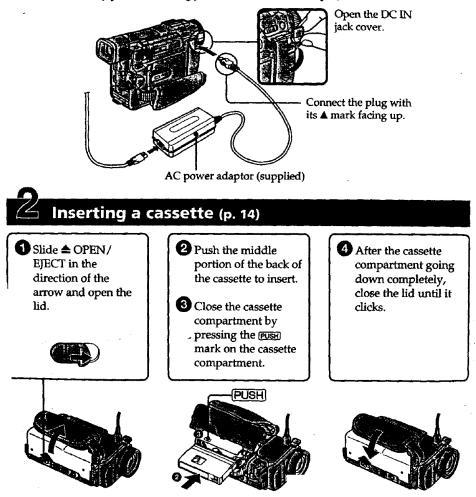
# **Quick Start Guide**



This chapter introduces you to the basic features of your camcorder. See the page in parentheses "( )" for more information.

# Connecting the power cord (p. 13)

Use the battery pack when using your camcorder outdoors (p. 9).

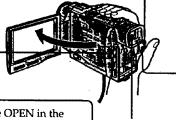




# Remove the lens cap.

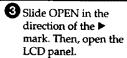
2 Set the POWER switch to CAMERA while pressing the small green button. The picture appears on the LCD screen.





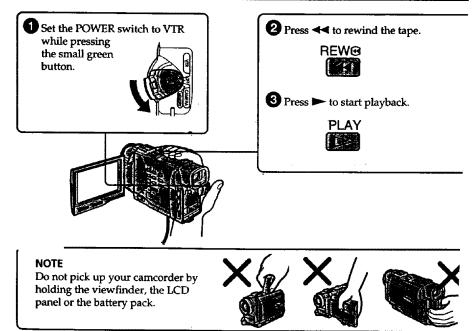
Press START/STOP. Your camcorder starts recording. To stop recording, press START/STOP again.





Viewfinder When the LCD panel is closed, use the viewfinder placing your eye against its eyecup.

# Monitoring the playback picture on the LCD screen (p. 25)



Getting started -Ising this manual

> The instructions in this manual are for the two models listed in the table below. Before you start reading this manual and operating your camcorder, check the model number by looking at the bottom of your camcorder. The DCR-TRV10 is the model used for illustration purposes. Otherwise, the model name is indicated in the illustrations. Any differences in operation are clearly indicated in the text, for example, "DCR-TRV10 only."

> As you read through this manual, buttons and settings on your camcorder are shown in capital letters.

e.g. Set the POWER switch to CAMERA.

When you carry out an operation, you can hear a beep sound to indicate that the operation is being carried out.

#### **Types of differences**

DCR-		TRV8	TRV10
DV synchro-editing	•		•
MEMORY mark* (on the POWER switch)			•

Provided

Not provided

\* The model with MEMORY marked on the POWER switch is provided with memory functions. See page 79 for details.

# be measure denory.

Your camcorder is based on the DV format. You can only use mini DV cassettes with your camcorder. We recommend you to use a tape with cassette memory CIII.

The functions which depend on whether the tape has the cassette memory or not are: • End search (p. 24, 27)

- Searching a recording by date date search (p. 49)
- Photo search (p. 52).

The functions you can operate only with the cassette memory are:

- Searching the boundaries of recorded tape by title title search (p. 51)
- Superimposing a title (p. 65)
- Making your own titles (p. 68)
- Labeling a cassette (p. 70).

For details, see page 109.



CM You see this mark in the introduction of the features that operate only with cassette memory.

Tapes with cassette memory are marked by CIII (Cassette Memory).

### Using this manual

#### Partice (OG) In the state

TV color systems differ from country to country. To view your recordings on a TV, you need an NTSC system-based TV.

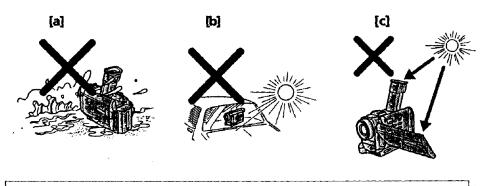
#### 

Getting started

Television programs, films, video tapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provision of the copyright laws.

#### Second on Emboration of the second of the se

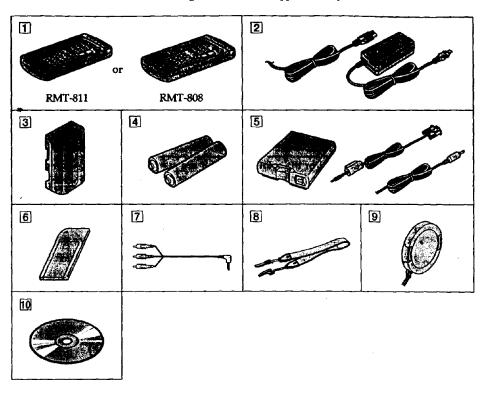
- The LCD screen and/or the color viewfinder are manufactured using highprecision technology. However, there may be some tiny black spots and/or bright spots (red, blue or green in color) that constantly appear on the LCD screen and/or in the color viewfinder. These spots occur normally in the
- manufacturing process and do not affect the recorded picture in any way. Effective number of pixels is 99.99% or more.
- Do not let your camcorder get wet. Keep your camcorder away from rain and sea water. Letting your camcorder get wet may cause your camcorder to malfunction. Sometimes this malfunction cannot be repaired **[a]**.
- Never leave your camcorder exposed to temperatures above 140°F (60°C), such as in a car parked in the sun or under direct sunlight [b].
- Do not place your carncorder so as to point the viewfinder or the LCD screen toward the sun. The inside of the viewfinder or LCD screen may be damaged **[c]**.



Contents of the recording cannot be compensated if recording or playback is not made due to a malfunction of the camcorder, video tape, etc.

# **Checking supplied accessories**

Make sure that the following accessories are supplied with your camcorder.



- 1 Wireless Remote Commander (1) (p. 132) RMT-811: DCR-TRV10 RMT-808: DCR-TRV8
- 2 AC-L10A/L10B/L10C AC power adaptor (1), Power cord (1) (p. 10)
- **3** NP-FM50 battery pack (1) (p. 9, 10)
- 4 Size AA (R6) battery for Remote Commander (2) (p. 132).
- 5 Serial port adaptor for Memory Stick (1), PC serial cable (1), AC power adaptor for Serial port adaptor (1) (p. 96) DCR-TRV10 only
- 6 Memory Stick (1) (p. 79) DCR-TRV10 only
- **7** A/V connecting cable (1) (p. 28, 54)

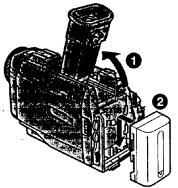
- 8 Shoulder strap (1) (p. 129)
- **9** Lens cap (1) (p. 15)
- 10 Application software: PictureGear 3.2Lite (CD ROM) (1) (p. 96) DCR-TRV10 only

# Step 1 Preparing the power supply

# mannan the bettery place

Install the battery pack to use your camcorder outdoors.

- (1) Lift up the viewfinder.(2) Slide the battery pack down until it clicks.

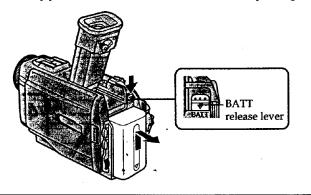


Getting started

.

# To remove the battery pack

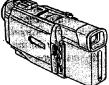
Lift up the viewfinder. Slide the battery pack out in the direction of the arrow while pressing BATT down.

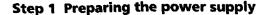


#### After installing the battery pack

Do not carry your camcorder by holding the battery pack. If you do so, the battery pack may slide off your camcorder unintentionally, damaging your camcorder.

If you use the large capacity battery pack If you install the NP-FM70/FM90 battery pack on your camcorder, extend its viewfinder. Take care not to pinch your finger when lifting the viewfinder up and down.





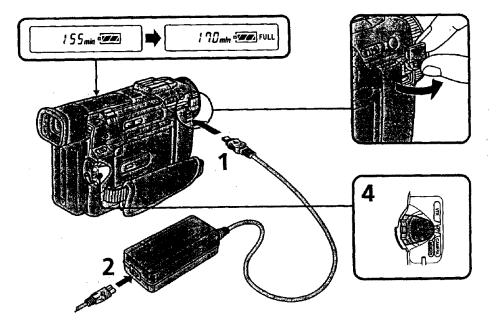
# Characteria and an and a source of the sourc

Use the battery pack after charging it for your camcorder. Your carncorder operates only with the "InfoLITHIUM" battery pack (M series).

"InfoLITHIUM" is a trademark of Sony Corporation.

- (1) Open the DC IN jack cover and connect the AC power adaptor supplied with your camcorder to the DC IN jack with the plug's ▲ mark facing up. (2) Connect the power cord to the AC power adaptor.
- (3) Connect the power cord to a wall outlet.
- (4) Set the POWER switch to OFF. Charging begins. The remaining battery time is indicated in minutes on the display window.

When the remaining battery indicator changes to **main normal charge** is completed. To fully charge the battery (full charge), leave the battery pack attached for about 1 hour after normal charge is completed until FULL appears in the display window. Fully charging the battery allows you to use the battery longer than usual.





#### Note

Prevent metallic objects from coming into contact with the metal parts of the DC plug of the AC power adaptor. This may cause a short-circuit, damaging the AC power adaptor.

#### **Remaining battery time indicator**

The remaining battery time indicator in the display window roughly indicates the recording time.

Until your camcorder calculates the actual remaining battery time --min'' appears in the display window.

# While charging the battery pack, no indicator appears or the indicator flashes in the display window in the following cases

- The battery pack is not installed correctly.

- The AC power adaptor is disconnected.

- Something is wrong with the battery pack.

#### **Charging time**

Battery pack	Full charge (Normal charge)	
NP-FM50 (supplied)	150 (90)	
NP-FM70	240 (180)	
NP-FM90	330 (270)	

Approximate number of minutes to charge an empty battery pack

#### Recording time DCR-TRV8

Battery pack	Recordir the viev	•	Recording with the LCD screen	
	Continuous*	Typical**	Continuous*	Typical**
NP-FM50 (supplied)	170 (155)	90 (80)	135 (120)	70 (60)
NP-FM70	355 (320)	190 (170)	285 (255)	150 (135)
NP-FM90	540 (485) ·	290 (260)	435 (390)	230 (210)

#### DCR-TRV10

Battery pack	Recordin the viev		Recording with the LCD screen	
	Continuous*	Typical**	Continuous*	Typical**
NP-FM50 (supplied)	170 (155)	90 (80)	130 (115)	70 (60)
NP-FM70	355 (320)	190 (170)	270 (245)	145 (130)
NP-FM90	540 (485)	290 (260)	410 (370)	220 (195)

Approximate number of minutes when you use a fully charged battery

Numbers in parentheses "( )" indicate the time using a normally charged battery.
Approximate continuous recording time at 77°F (25°C). The battery life will be shorter if you use your camcorder in a cold environment.

\*\* Approximate number of minutes when recording while you repeat recording start/ stop, zooming and turning the power on/off. The actual battery life may be shorter.

1

## Preparing the power supply

#### Playing time DCR-TRV8

Battery pack	Playing time on LCD screen	Playing time with LCD closed
NP-FM50 (supplied)	140 (125)	180 (160)
NP-FM70	295 (265)	370 (330)
NP-FM90	450 (400)	560 (505)

#### DCR-TRV10

Battery pack	Playing time on LCD screen	Playing time with LCD closed	
NP-FM50 (supplied)	135 (120)	180 (160)	
NP-FM70	275 (250)	370 (330)	
NP-FM90	425 (380)	560 (505)	

Approximate number of minutes when you use a fully charged battery

Numbers in parentheses "( )" indicate the time using a normally charged battery. The battery life will be shorter if you use your camcorder in a cold environment.

#### After charging the battery pack

Disconnect the AC power adaptor from the DC IN jack on your camcorder.

# Note on the remaining battery time indicator during recording

The indicator may not be correct, depending on the conditions in which you are recording. When you close the LCD panel and open it again, it takes about 1 minute for the correct remaining battery time to be displayed.

#### What is "InfoLITHIUM"?

The "InfoLITHIUM" is a lithium ion battery pack which can exchange data such as battery consumption with compatible video equipment. This unit is compatible with the "InfoLITHIUM" battery pack (M series). Your camcorder operates only with the "InfoLITHIUM" battery. "InfoLITHIUM" M series battery packs have the Demonstration of mark.

. «

"InfoLITHIUM" is a trademark of Sony Corporation.

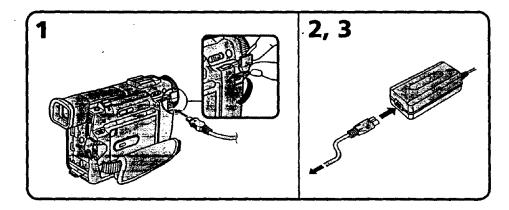
# Eline Hause of ChilleEnde?

When you use your camcorder for a long time, we recommend that you power it from a wall outlet using the AC power adaptor.

(1) Open the DC IN jack cover, pulling the cover out a little and rotating it.

Connect the AC power adaptor to the DC IN jack on your cancorder with the plug's  $\blacktriangle$  mark facing up.

- (2) Connect the power cord to the AC power adaptor.
- (3) Connect the power cord to a wall outlet.



#### WARNING

The power cord must only be changed at a qualified service shop.

#### PRECAUTION

The set is not disconnected from the AC power source (house current) as long as it is connected to the wall outlet, even if the set itself has been turned off.

#### Notes

- The AC power adaptor can supply power even if the battery pack is attached to your camcorder.
- The DC IN jack has "source priority". This means that the battery pack cannot supply any power if the power cord is connected to the DC IN jack, even when the power cord is not plugged into a wall outlet.
- Keep the AC power adaptor away from your camcorder if the picture is disturbed.

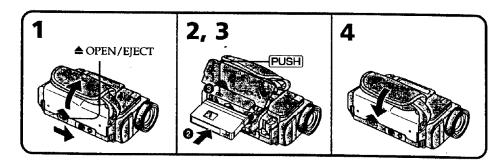
#### Using a car battery

Use Sony DC Adaptor/Charger (not supplied).

**Getting started** 

# Step 2 Inserting a cassette

- (2) Push the middle portion of the back of the cassette to insert. Insert the cassette in a straight line deeply into the cassette compartment with the window facing out.
- (3) Close the cassette compartment by pressing the EVSH mark on the cassette compartment. The cassette compartment automatically goes down.
- (4) After the cassette compartment going down completely, close the lid until it clicks.



#### To eject a cassette

Follow the procedure above and in step 2, take out the cassette.

#### Notes

- Do not press the cassette compartment down. Doing so may cause malfunction.
- The cassette compartment may not be closed when you press any part of the lid other than the FUSH mark.

### When you use mini DV cassette with cassette memory

Read the instruction about cassette memory to use this function properly (p. 109).

#### To prevent misoperation of your camcorder

Set the POWER switch to OFF when you insert and eject a cassette.

#### To prevent accidental erasure

Slide the write-protect tab on the cassette to expose the red mark.

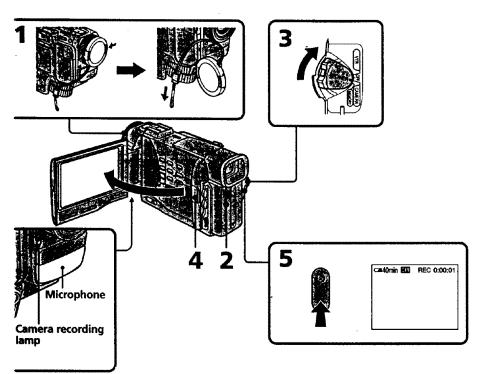


# Recording - Basics -Cecording a picture

Your camcorder automatically focuses for you.

- (1) Remove the lens cap by pressing both knobs on its sides and attatch the lens cap to the grip strap.
- (2) Install the power source and insert a cassette. See "Step 1" and "Step 2" for more information (p. 9 to p. 14).
- (3) Set the POWER switch to CAMERA while pressing the small green button. Your camcorder is set to the standby mode.
- (4) Slide OPEN in the direction of the ► mark. Then, open the LCD panel. The viewfinder automatically turns off.
- (5) Press START/STOP. Your camcorder starts recording. The "REC" indicator appears. The camera recording lamp located on the front of your camcorder lights up. To stop recording, press START/STOP again.

**Recording – Basics** 



#### Note

Fasten the grip strap firmly. Do not touch the built-in microphone during recording.

#### Note on Recording mode

Your carncorder records and plays back in the SP (standard play) mode and in the LP (long play) mode. Select SP or LP in the MENU settings. In the LP mode, you can record 1.5 times as long as in the SP mode.

When you record a tape in the LP mode on your camcorder, we recommend playing the tape on your camcorder.

#### Note on the lock (DCR-TRV10 only)

When you slide the lock to the right, the POWER switch can no longer be set to MEMORY accidentally. The lock is set to the left before your camcorder leaves the factory.

#### To enable smooth transition

Transition between the last scene you recorded and the next scene is smooth as long as you do not eject the cassette even if you turn off your camcorder. When you change the battery pack, set the POWER switch to OFF. When you use a tape with cassette memory, however, you can make the transition smooth even after ejecting the cassette il you use the END SEARCH function (p. 24).

# If you leave your camcorder in the standby mode for 5 minutes while the cassette is inserted

Your camcorder automatically turns off. This is to save battery power and to prevent battery and tape wear. To resume the standby mode, set the POWER switch to OFF, and to CAMERA again.

# When you record in the SP and LP modes on one tape or you record some scenes in the LP mode

The playback picture may be distorted or the time code may not be written properly between scenes.

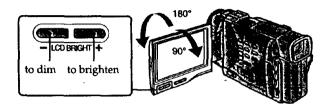
### and the left particulus

To adjust the brightness of the LCD screen, press either of the two buttons on LCD BRIGHT.

The LCD panel moves about 90 degrees to the viewfinder side and about 180 degrees to the lens side.

**Recording – Basics** 

If you turn the LCD panel over so that it faces the other way, the indicator appears in the viewfinder and on the LCD screen (**Mirror mode**).



When closing the LCD panel, set it vertically until it clicks, and swing it into the camcorder body.

#### Note

When using the LCD screen except in the mirror mode, the viewfinder automatically turns off.

#### When you use the LCD screen outdoors in direct sunlight

The LCD screen may be difficult to see. If this happens, we recommend that you use the viewfinder.

#### LCD screen backlight

You can change the brightness of the backlight. Select LCD B.L. in the MENU settings.

Even if you adjust the LCD screen backlight or brightness of the LCD screen The recorded picture will not be affected.

#### Picture in the mirror mode

The picture on the LCD is a mirror-image. However, the picture will be normal when recorded.

#### During recording in the mirror mode

ZERO SET MEMORY on the Remote Commander does not work.

#### Indicators in the mirror mode

The STBY indicator appears as IIO and REC as O. Some of the other indicators appear mirror-reversed and others are not displayed.

### ATTAT RECEIPTED TO THE

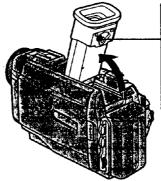
- (1) Set the POWER switch to OFF.
- (2) Close the LCD panel.
- (3) Eject the cassette.

# **Recording a picture**

# ्ति स्वर्धना असिल्स्टर क्रिय स्टब्स्लान क्रिय स्टब्स्लन क्रिय प्रकाशन

If you record pictures with the LCD panel closed, check the picture with the viewfinder Adjust the viewfinder lens to your eyesight so that the indicators in the viewfinder come into sharp focus.

Lift up the viewfinder and move the viewfinder lens adjustment lever.

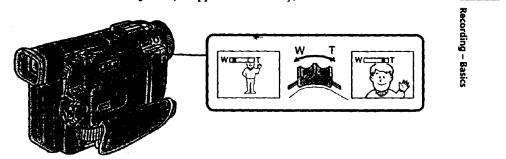




#### ાલાનું મેરુ સાનેલા દેવનેલાવ્યું

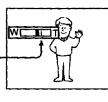
Move the power zoom lever a little for a slower zoom. Move it further for a faster zoom. Using the zoom function sparingly results in better-looking recordings.

- "T" side: for telephoto (subject appears closer)
- "W" side: for wide-angle (subject appears farther away)



Zoom greater than 10x is performed digitally, if you set D ZOOM to ON in the MENU settings. The digital zoom function is set to OFF at the factory. (p. 72)

The right side of the bar shows the digital zooming zone. The digital zooming zone appears when you set D ZOOM to ON.



#### When you shoot close to a subject

If you cannot get a sharp focus, move the power zoom lever to the "W" side until the focus is sharp. You can shoot a subject that is at least about 2 feet 5/8 inch (about 80 cm) away from the lens surface in the telephoto position, or about 1/2 inch (about 1 cm) away in the wide-angle position.

#### Notes on digital zoom

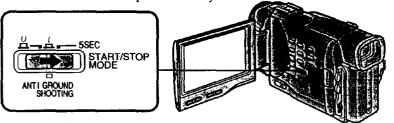
- Digital zoom starts to function when zoom exceeds 10x.
- The picture quality deteriorates as you go toward the "T" side. Set D ZOOM to OFF in the MENU settings. Otherwise the digital zoom activates without notice (p. 72).

## antrat another antrata

- L: Recording starts when you press START/STOP, and stops when you press it again (factory setting).
- ANTI GROUND SHOOTING 1:

Your camcorder records only while you press START/STOP. Use this mode to avoid recording unnecessary scenes.

5SEC: When you press use this mode to START/STOP, your camcorder records for 5 seconds and then stops automatically.



#### Notes

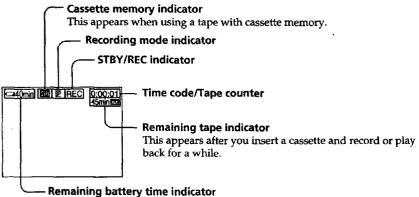
- You cannot use the fader function in the 5SEC or  $\perp$  mode.
- The time code does not appear in the 5SEC mode.

#### To extend the recording time in the 5SEC mode

Five dots (**●●●●**) appear, and then disappear at a rate of one per second. To extend the recording time, press START/STOP again before all the dots disappear. Recording continues for about 5 seconds from the moment you press START/STOP.

### Indicators displayed in the recording mode

The indicators are not recorded on tape.



#### Time code

The time code indicates the recording or playback time, "0:00:00" (hours : minutes : seconds) in CAMERA mode and "0:00:00:00" (hours : minutes : seconds : frames) in VTR mode. You cannot rewrite only the time code. Your camcorder uses the drop frame mode.

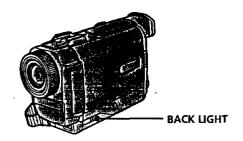
#### Remaining tape indicator

The indicator may not be displayed accurately depending on the tape.

# वत्रकोतन भवन्यपि आणेवन्छ (प्रिनेट प्रविधा)

When you shoot a subject with the light source behind the subject or a subject with a light background, use the backlight function.

Press BACK LIGHT in the recording or standby mode. The ⊠ indicator appears in the viewfinder or on the LCD screen. To cancel, press BACK LIGHT again.

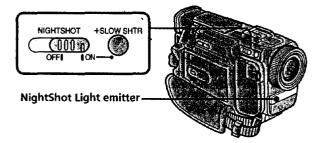


If you press EXPOSURE when shooting backlit subjects The backlight function will be canceled.

# Shooting in the dark (NightShot)) (Show (Show) (Show) (Show) (Show)

The NightShot function enables you to shoot a subject in a dark place. For example, you can satisfactorily record the environment of nocturnal animals for observation when you use this function.

- (1) While your camcorder is in the standby mode, slide NIGHTSHOT to ON.
- (2) Press START/STOP to start recording.





**Recording – Basics** 

#### Using +SLOW SHTR

The NightShot +Slow shutter mode makes subjects more than four times brighter than those recorded in the NightShot mode.

- Slide NIGHTSHOT to ON in the standby or recording mode. 

   indicator appears.
- (2) Press +SLOW SHTR until the desired NIGHTSHOT indicator flashes. The indicator changes as follows:

   Ø (NIGHTSHOT) → @1 (NIGHTSHOT1) → @2 (NIGHTSHOT2) → @

(NIGHTSHOT)

To cancel the NightShot +Slow shutter mode, slide NIGHTSHOT to OFF.

#### Using the NightShot Light

The picture will be clearer with the NightShot Light on. To enable NightShot Light, se N.S.LIGHT to ON in the MENU settings (p. 72).

#### Notes

- Do not use the NightShot function in bright places (ex. outdoors in the daytime). Th may cause your camcorder to malfunction.
- When you keep NIGHTSHOT set to ON in normal recording, the picture may be recorded in incorrect or unnatural colors.
- If focusing is difficult with the autofocus mode when using the NightShot function, focus manually.

#### While using the NightShot function, you cannot use the following functions:

- Exposure
- PROGRAM AE
- White balance
- -Fader\*
- Digital effect\*
- \* You cannot use these functions only in the NightShot +Slow shutter mode.

#### Shutter speed in the NightShot +Slow shutter mode

Indicator	Shutter speed
©1 (NIGHTSHOT1)	1/15
©2 (NIGHTSHOT2)	1/4

#### The +SLOW SHTR button does not work:

- while the fader function is set or in use

- while the digital effect function is in use

- when NIGHTSHOT is set to OFF

~ in the MEMORY mode (DCR-TRV10 only)

#### NightShot Light

NightShot Light rays are infrared and so are invisible. The maximum shooting distausing the NightShot Light is about 10 feet (3 m). The shooting distance will be twice more in the NightShot +Slow shutter mode.



# Sale Huld is solution

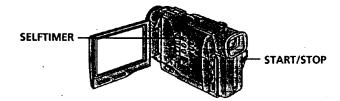
You can make a recording with the self-timer. This mode is useful when you want to record yourself.

(1) Press SELFTIMER in the standby mode. The 🛇 (self-timer) indicator appears on the LCD screen or in the viewfinder.

עברהותוווא – המאור

(2) Press START/STOP.

Self-timer starts counting down from 10 with a beep sound. In the last two seconds of the countdown, the beep sound gets faster, then recording starts automatically.



### To stop the self-timer during recording

Press START/STOP. Use the Remote Commander for convenience.

### To record still pictures using the self-timer

Press PHOTO in step 2.

### To cancel self-timer recording

Press SELFTIMER so that the  $\mathfrak{O}$  indicator disappears from the LCD or viewfinder screen while your camcorder is in the standby mode.

Note

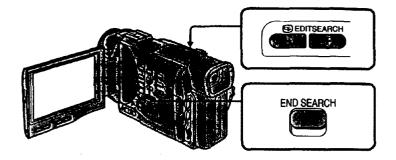
The self-timer recording mode is automatically cancelled when

-Self-timer recording is finished.

- The POWER switch is set to OFF or VTR.

Checking the recording - END SEARCH / EDITSEARCH / Rec Review

You can use these buttons to check the recorded picture or shoot so that the transition between the last recorded scene and the next scene you record is smooth.



# **NDESEARCH**

You can go to the end of the recorded section after you record.

Press END SEARCH in the standby mode.

The last 5 seconds of the recorded section are played back and playback stops. You can monitor the sound from the speaker or headphones.

# (I) SREELIGE

You can search for the next recording start point.

Hold down the +/- side of EDITSEARCH in the standby mode. The recorded section is played back.

- + : to go forward
- : to go backward

Release EDITSEARCH to stop playback. If you press START/STOP, re-recording begins from the point you released EDITSEARCH. You cannot monitor the sound.

#### **CECREWE**

You can check the last recorded section.

Press the – side of EDITSEARCH momentarily in the standby mode. The last few seconds of the recorded section are played back. You can monitor the sound from the speaker or headphones.

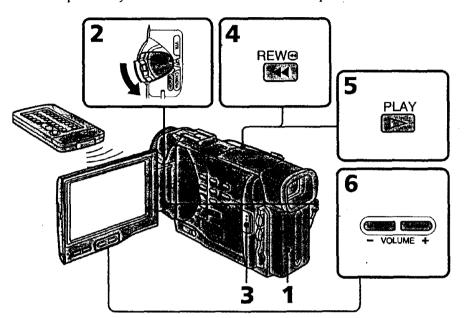
#### End search function

When you use a tape without cassette memory, the end search function does not work once you eject the cassette after you have recorded on the tape. If you use a tape with cassette memory, the end search function works even once you eject the cassette. If there is a blank portion in the recorded portion, the end search function may not work correctly. (p. 109)

# Playback - Basics --'laying back a tape

You can monitor the playback picture on the LCD screen. If you close the LCD panel, you can monitor the playback picture in the viewfinder. You can control playback using the Remote Commander supplied with your cancorder.

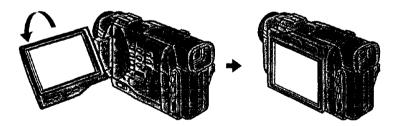
- (1) Install the power source and insert the recorded tape.
- (2) Set the POWER switch to VTR while pressing the small green button. The video control buttons light up.
- (3) Slide OPEN. Then, open the LCD panel.
- (4) Press **4** to rewind the tape.
- (5) Press > to start playback.
- (6) To adjust the volume, press either of the two buttons on VOLUME. The speaker on your camcorder is silent when the LCD panel is closed.



# To stop playback Press .

#### When monitoring on the LCD screen

You can turn the LCD panel over and move it back to the camcorder body with the LCD screen facing out.

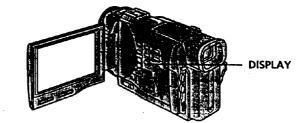


Playback - Basics

#### Playing back a tape

#### To ileany the extent mileators ( deploy function -

- Press DISPLAY on your camcorder or the Remote Commander supplied with your camcorder.
- The indicators appear on the LCD screen.
- To make the indicators disappear, press DISPLAY again.



#### Using the data code function

Your camcorder automatically records not only images on the tape but also the recording data (date/time or various settings when recorded) (Data code). You can only operate with the Remote Commander.

Press DATA CODE on the Remote Commander in the playback mode.

#### The display changes as follows:

date/time  $\rightarrow$  various settings (SteadyShot, white balance, gain, shutter speed, aperture value)  $\rightarrow$  no indicator



#### Not to display various settings

Set DATA CODE to DATE in the MENU settings (p. 72). The display changes as follows: date/time  $\rightarrow$  no indicator

#### Note

The pictures taken on the Memory Stick are not recorded with various settings.

#### Recording data

Recording data is your camcorder's information when you have recorded. In the recording mode, the recording data will not be displayed.

#### When you use data code function, bars (-- -- ) appear if:

- A blank section of the tape is being played back.
- The tape is unreadable due to tape damage or noise.
- The tape was recorded by a camcorder without the date and time set.

#### Data code

The data code is displayed on the TV screen if you connect your carncorder to the TV (p. 28).

## KOROGE DEVIDAGE MORES

To operate control buttons, set the POWER switch to VTR.

# To view a still picture (playback pause)

Press II during playback. To resume playback, press II or >.

#### To advance the tape

Press ▶▶ in the stop mode. To resume normal playback, press ▶.

#### To rewind the tape

Press **44** in the stop mode. To resume normal playback, press **>**.

#### To change the playback direction

Press < on the Remote Commander during playback to reverse the playback direction. To resume normal playback, press 🏲 .

#### To locate a scene monitoring the picture (picture search)

Keep pressing < or 🍽 during playback. To resume normal playback, release the button.

#### To monitor the high-speed picture while advancing or rewinding the tape (skip scan)

Keep pressing < while rewinding or 🍉 while advancing the tape. To resume rewinding or advancing, release the button.

#### To view the picture at slow speed (slow playback)

Press I> on the Remote Commander during playback. For slow playback in the reverse direction, press <, then press ▶ on the Remote Commander. To resume normal playback, press 🏲.

#### To view the picture at double speed

Press ×2 on the Remote Commander during playback. For double speed playback in the reverse direction, press <, then press ×2 on the Remote Commander. To resume normal playback, press >.

### To view the picture frame-by-frame

Press II on the Remote Commander in the playback pause mode. For frame-by-frame playback in the reverse direction, press ◄II. To resume normal playback, press ►.

#### To search the last scene recorded (END SEARCH)

Press END SEARCH in the stop mode. The last

5 seconds of the recorded section plays back and stops.

#### **End Search**

When you use a tape without cassette memory, the end search function does not work once you eject the cassette after you have recorded on the tape. When you use a tape with cassette memory, the end search function works even once you eject the cassette.

#### In the various playback modes

Sound is muted.

#### When the playback pause mode lasts for 5 minutes

Your camcorder automatically enters the stop mode. To resume playback, press **>**.

#### Slow playback

The slow playback can be performed smoothly on your camcorder; however, this function does not work for an output signal from the DV IN/OUT jack.

#### When you play back a tape in reverse

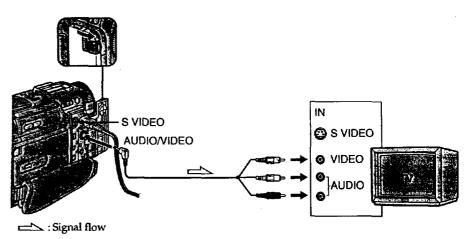
Horizontal noise appears at the center or top and bottom of the screen. This is not a 27 malfunction.

Playback – Basic

# ewing the recording on TV

Connect your camcorder to your TV or VCR with the A/V connecting cable supplied with your camcorder to watch the playback picture on the TV screen. You can operate the playback control buttons in the same way as when you monitor playback pictures on the LCD screen. When monitoring the playback picture on the TV screen, we recommend that you power your camcorder from a wall outlet using the AC power adaptor (p. 13). Refer to the operating instructions of your TV or VCR.

Open the jack cover. Connect your camcorder to the TV using the A/V connecting cable. Then, set the TV/VCR selector on the TV to VCR.



### YOUR I'V IS AREALON COMPERED OF YOR

Connect your camcorder to the LINE IN input on the VCR by using the A/V connecting cable supplied with your camcorder. Set the input selector on the VCR to LINE.

#### A YOUR MY OF YOR IS IT MOTERIAL AVOR

Connect the yellow plug of the A/V connecting cable to the video input jack and the white or the red plug to the audio input jack on the VCR or the TV. If you connect the white plug, the sound is L (left) signal. If you connect the red plug, the sound is R (right) signal.

#### If your TV or VCR has an S video jack

Connect using an S video cable (not supplied) to obtain high-quality pictures. With this connection, you do not need to connect the yellow (video) plug of the A/V connecting cable.

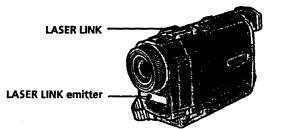
Connect the S video cable (not supplied) to the S video jacks on both your camcorder and the TV or the VCR.

Refer to the operating instructions of your TV.

This connection produces higher quality DV format pictures.

# Buddatts We with the Brand Mar

Once you connect the AV cordless IR receiver (not supplied) to your TV or VCR, you can easily view the picture on your TV. For details, refer to the operating instructions of the AV cordless IR receiver.



Playback -- Basics

- (1) After connecting your TV and AV cordless IR receiver, set the POWER switch on the AV cordless IR receiver to ON.
- (2) Turn the TV on and set the TV/VCR selector on the TV to VCR.
- (3) Press LASER LINK. The lamp of LASER LINK lights up.
- (4) Press > on your camcorder to start playback.
- (5) Point the LASER LINK emitter at the AV cordless IR receiver. Adjust the position of your camcorder and the AV cordless IR receiver to obtain clear playback pictures.



### To cancel the laser link function

Press LASER LINK. The lamp on the LASER LINK button goes out.

If you turn the power off

Laser link turns off automatically.

#### If you use a Sony TV

- You can turn on the TV automatically when you press LASER LINK or >. To do so, set AUTO TV ON to ON in the MENU settings and turn the TV's main switch on, then do either of the following:
- Point the LASER LINK emitter at the TV's remote sensor and press LASER LINK.
- Turn on LASER LINK and press
- You can switch the video input of the TV automatically to the one which the AV cordless IR receiver is connected. To do so, set AUTO TV ON to ON and TV INPUT to the same video input (1, 2, 3) in the MENU settings. With some models, however, the picture and sound may be disconnected momentarily when the video input is switched.
- The above feature may not work on some TV models.

#### Note

When laser link is activated (the LASER LINK button is lit), your camcorder consumes power. Press LASER LINK to turn off the laser link function when it is not needed.

- Advanced Recording Operations -

# Photo recording

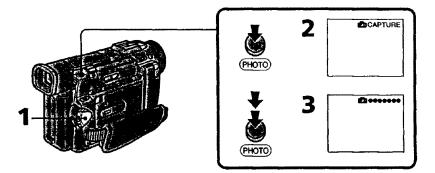
You can record a still picture like a photograph. This mode is useful when you want to record a picture such as a photograph or when you print a picture using a video printer (not supplied).

You can record about 510 pictures in the SP mode and about 765 pictures in the LP mode on a 60-minute tape.

Besides the operation described here, your camcorder can record still pictures on Memory Sticks (p. 85) (DCR-TRV10 only).

- (1) Set the POWER switch to CAMERA.
- (2) In the standby mode, keep pressing PHOTO lightly until a still picture appears. The CAPTURE indicator appears. Recording does not start yet. To change the still picture, release PHOTO, select a still picture again, and then press and hold PHOTO lightly.
- (3) Press PHOTO deeper.

The still picture in the viewfinder or on the LCD screen is recorded for about seven seconds. The sound during those seven seconds is also recorded. During recording, the still image you are shooting appears in the viewfinder or on the LCD screen.



#### Notes

• During photo recording, you cannot change the mode or setting.

- During photo recording, you cannot turn your camcorder off or press the PHOTO button.
- When recording a still picture, do not shake your camcorder. The picture may fluctuate.
- The photo recording function does not work:
- while the fader function is set or in use
- while the digital effect function is set or in use
- When \$ flashes, the appropriate brightness may not be obtained.
- When you start photo recording, from normal CAMERA recording, the video flash light (not supplied) does not work ( 4 does not appear).

#### If you record a moving subject with photo recording function

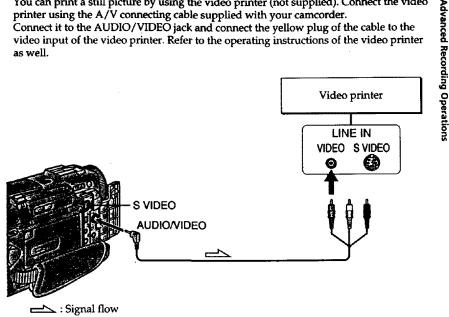
When you play back the still picture on other equipment, the picture may fluctuate.

To use the photo recording function using the Remote Commander Press PHOTO on the Remote Commander. Your camcorder records a picture on the LCD screen or in the viewfinder immediately.

To use the photo recording function during normal CAMERA recording Press PHOTO deeper. The still picture is then recorded for about seven seconds and your camcorder returns to the standby mode. You cannot select another still picture.

### Pitatio to fill diamo

You can print a still picture by using the video printer (not supplied). Connect the video printer using the A/V connecting cable supplied with your camcorder. Connect it to the AUDIO/VIDEO jack and connect the yellow plug of the cable to the video input of the video printer. Refer to the operating instructions of the video printer as well.

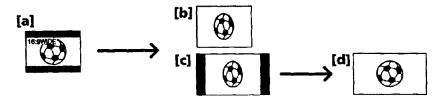


If the video printer is equipped with S video input

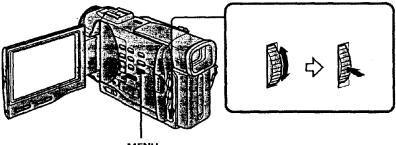
Use the S video connecting cable (not supplied). Connect it to the S VIDEO jack and the S video input of the video printer.

# Using the wide mode

You can record a 16:9 wide picture to watch on the 16:9 wide-screen TV (16:9WIDE). Black bands appear on the screen during recording in 16:9WIDE mode **[a]**. The picture during playing back on a normal TV **[b]** or a wide -screen TV **[c]** are compressed in the widthwise direction. If you set the screen mode of the wide-screen TV to the full mode, you can watch pictures of normal images **[d]**.



In the standby mode, set 16:9WIDE to ON in the MENU settings (p. 72).



MENU

#### To cancel the wide mode

Set 16:9WIDE to OFF in the MENU settings.

#### In the wide mode

You cannot select the old movie function with DIGITAL EFFECT and the bounce function with FADER.

#### During recording

You cannot select or cancel the wide mode. When you cancel the wide mode, set your cancorder to the standby mode and then set 16:9WIDE to OFF.

#### Connection for a TV

Pictures recorded in the 16:9WIDE mode automatically appear on the TV screen at full size when you connect your camcorder to a TV that is compatible with the video ID (ID-1/ID-2) system.

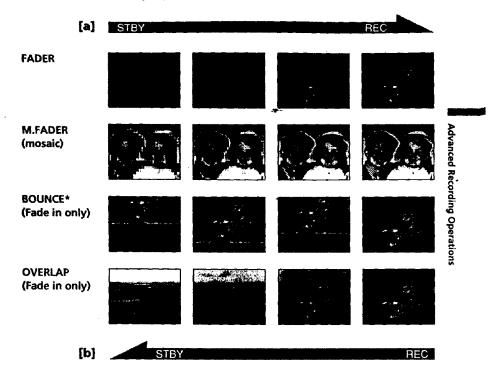
#### ID-2 system

The ID-2 system sends a copyright protection signal with ID-1 signals inserted between video signals when you connect your carcorder to other equipment by an A/V connecting cable.



# Jsing the fader function

You can fade in or out to give your recording a professional appearance.



#### MONOTONE

When fading in, the picture gradually changes from black-and-white to color. When fading out the picture gradually changes from color to black-and-white.

\* You cannot use this function when D ZOOM is set to ON in the MENU settings.

.

# (1) When fading in [a]

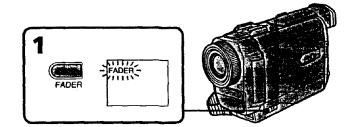
In the standby mode, press FADER until the desired fader indicator flashes. When fading out [b]

In the recording mode, press FADER until the desired fader indicator flashes. The indicator changes as follows:

FADER  $\rightarrow$  M.FADER  $\rightarrow$  BOUNCE  $\rightarrow$  MONOTONE  $\rightarrow$  OVERLAP  $\rightarrow$  no indicator

The last selected fader mode is indicated first of all.

(2) Press START/STOP. The fader indicator stops flashing.



#### To cancel the fader function

After the fade in/out is carried out : Your camcorder automatically returns to the normal mode.

Before the fade in/out is carried out : Before pressing START/STOP, press FADER until the indicator disappears.

# Using the fader function

# Note You cannot use the following functions while using the fader function. Also, you cannot use the fader function while using the following functions. - Digital effect - Low lux mode of PROGRAM AE (Overlap function only) - NightShot +Slow shutter - Photo recording When the OVERLAP indicator appears Your camcorder automatically stores the image recorded on a tape. As the image is being stored, the OVERLAP indicator flashes fast, and the playback picture is displayed. At this stage, the picture may not be recorded clearly, depending on the tape condition. When START/STOP MODE is set to 🛓 or 5SEC You cannot use the fader function. While using the bounce function, you cannot use the following functions: -Exposure - Focus -Zoom - Picture effect

#### Note on the bounce function

The BOUNCE indicator does not appear in the following mode or functions:

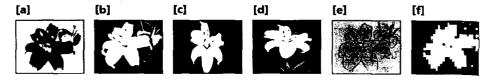
- D ZOOM is set to ON in the MENU settings
- Wide mode
- Picture effect
- PROGRAM AE

Advanced Recording Operations

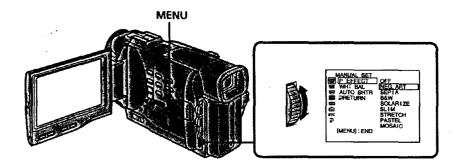
# **Using special effects – Picture effect**

You can digitally process images to obtain special effects like those in films or on the TV.

NEG. ART [a] :	The color and brightness of the picture is reversed.
SEPIA :	The picture is sepia.
B&W :	The picture is monochrome (black-and-white).
SOLARIZE [b] :	The light intensity is clearer, and the picture looks like an illustration.
SLIM [c] :	The picture expands vertically.
STRETCH [d] :	The picture expands horizontally.
	The contrast of the picture is emphasized, and the picture looks like an animated cartoon.
MOSAIC [f] :	The picture is mosaic.



Select the desired picture effect mode in the MENU settings (p. 72).



**To turn the picture effect function off** Set P EFFECT to OFF in the MENU settings.

# During playback, you can process a scene using the picture effect function

The available picture effects are NEG. ART, SOLARIZE, SEPIA and B&W.



# While using the picture effect function

You cannot select the old movie mode with DIGITAL EFFECT.

#### When you turn the power off

Your camcorder automatically returns to the normal mode.

# If you select the picture effect mode in the recording mode Pictures processed by the picture effect function will be recorded.

# When the POWER switch is set to VTR

The SLIM, STRETCH, PASTEL and MOSAIC indicators do not appear in the MENU settings.

**Advanced Recording Operations** 

# Using special effects – Digital effect

You can add special effects to recorded pictures using the various digital functions. The sound is recorded normally.

#### STILL

You can record a still picture so that it is superimposed on a moving picture.

#### FLASH (FLASH MOTION)

You can record still pictures successively at constant intervals.

# LUMI. (LUMINANCEKEY)

You can swap a brighter area in a still picture with a moving picture.

#### TRAIL

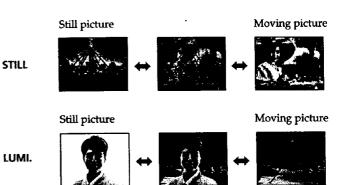
You can record the picture so that an incidental image like a trail is left.

#### SLOW SHTR (SLOW SHUTTER)

You can slow down the shutter speed. The slow shutter mode is good for recording dark pictures more brightly. However, the picture may be less clear.

#### OLD MOVIE

You can add an old movie type atmosphere to pictures. Your camcorder automatically sets the wide mode to ON, picture effect to SEPIA, and the appropriate shutter speed.



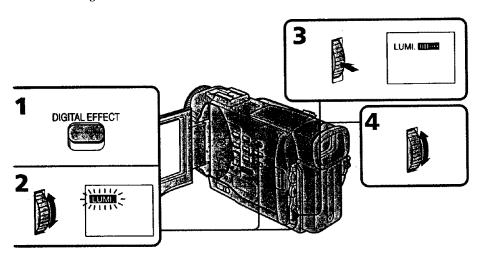
# ing special effects - Digital effect

- (1) While your camcorder is in the standby or recording mode, press DIGITAL EFFECT. The digital effect indicator appears.
- (2) Turn the SEL/PUSH EXEC dial to select the desired digital effect mode. The indicator changes as follows:
- STILL  $\leftrightarrow$  FLASH  $\leftarrow$  LUMI.  $\leftrightarrow$  TRAIL  $\leftrightarrow$  SLOW SHTR  $\leftrightarrow$  OLD MOVIE (3) Press the SEL/PUSH EXEC dial. The indicator lights up and the bars appear.
- In the STILL and LUMI. modes, the still picture is stored in memory.
- (4) Turn the SEL/PUSH EXEC dial to adjust the effect.

## Items to adjust

STILL	The rate of the still picture you want to superimpose on the moving picture
FLASH	The interval of flash motion
LUMI.	The color scheme of the area in the still picture which is to be swapped with a moving picture
TRAIL	The vanishing time of the incidental image
SLOW SHTR	Shutter speed. The larger the shutter speed number, the slower the shutter speed.
OLD MOVIE	No adjustment necessary

The more bars there are on screen, the stronger the digital effect. The bars appear in the following modes: STILL, FLASH, LUMI. and TRAIL.



# To cancel the digital effect

Press DIGITAL EFFECT. The digital effect indicator disappears.

# **Using special effects – Digital effect**

# Notes

- The following functions do not work during digital effect:
- Fader
- Low lux mode of PROGRAM AE
- Photo recording
- NightShot +Slow shutter
- The following function does not work in the slow shutter mode:
- PROGRAM AE
- The following functions do not work in the old movie mode:
- Wide mode
- Picture effect
- PROGRAM AE

#### When you turn the power off

The digital effect will be automatically canceled.

# When recording in the slow shutter mode

Auto focus may not be effective. Focus manually using a tripod.

# Shutter speed

Shutter speed number	Shutter speed	
SLOW SHTR 1	1/30	
SLOW SHTR 2	1/15	
SLOW SHTR 3	1/8	
SLOW SHTR 4	1/4	

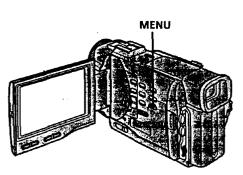
# Adjusting the white balance manually

You can manually adjust and set the white balance. This adjustment makes white subjects look white and allows more natural color balance. Normally white balance is automatically adjusted.

In the standby or recording mode, select the desired white balance mode in the MENU settings. (p. 72)

The selected white balance indicator appears.

AUTO (Automatic white balance mode) : no indication HOLD (Hold mode) : HOLD OUTDOOR (Outdoor mode) : \* INDOOR (Indoor mode) : \*



## **To return to the automatic white balance mode** Set WHT BAL to AUTO in the MENU settings.

Cases that you can obtain better results by adjusting the white balance manually

Examples of picture-taking conditions	White balanc <del>e</del> indicator	
<ul> <li>If the lighting conditions, like those at a party, are changing.</li> <li>If the picture is being taken in a studio lit by TV lighting.</li> <li>If the subject is being lit by sodium- or mercury-vapor lamps.</li> </ul>	<b></b>	
<ul> <li>At night-time with neon or fireworks in the picture</li> <li>At sunrise or sunset</li> <li>Under daytime-fluorescent light</li> </ul>	*	
• If the subject or background is all the same color.	HOLD	

If the picture is being taken in a studio lit by TV lighting We recommend you to record in the indoor mode.

#### When you record under fluorescent lighting

Use the automatic white balance or hold mode.

Your camcorder may not adjust the white balance correctly in the indoor mode.

#### To record when lighting conditions change

- When you move from indoors to outdoors, or vice versa, or detach the battery for replacement while recording in the automatic white balance mode, point your camcorder at a white subject for about 10 seconds after setting the POWER switch to CAMERA.
- When you move from indoors to outdoors, or vice versa, or change the PROGRAM AE mode while recording in the hold mode, set the white balance to AUTO and reset to HOLD after few seconds.

41

**Advanced Recording Operations** 

# Using the PROGRAM AE function

You can select PROGRAM AE (Auto Exposure) mode to suit your specific shooting requirements.

### Spotlight mode

This mode prevents people's faces, for example, from appearing excessively white when shooting subjects lit by strong light at weddings or in the theater.

#### Soft portrait mode

This mode brings out the subject while creating a soft background for subjects such as people or flowers, and faithfully reproduces skin color.

#### 3 Sports lesson mode

This mode minimizes shake on fast-moving subjects such as in tennis or golf.

#### 7 Beach & ski mode

This mode prevents people's faces from appearing dark in strong light or reflected light, such as at a beach in midsummer or on a ski slope.

## Sunset & moon mode

This mode allows you to maintain atmosphere when you are recording sunsets, general night views, fireworks displays and neon signs.

#### Landscape mode

This mode is for when you are recording distant subjects such as mountains and prevents your camcorder from focusing on glass or metal mesh in windows when you are recording a subject behind glass or a screen.

#### Low lux mode

This mode makes subjects brighter in insufficient light.







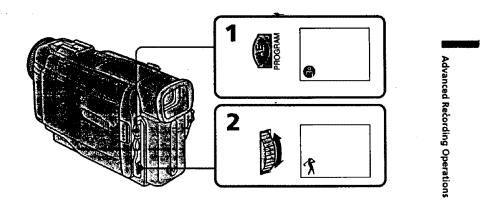








- (1) Press PROGRAM AE in the standby mode. The PROGRAM AE indicator appears.
- (2) Turn the SEL/PUSH EXEC dial to select the desired PROGRAM AE mode. The indicator changes as follows:



# To turn the PROGRAM AE function off

Press PROGRAM AE.

# Notes

- In the spotlight, sports lesson and beach & ski modes, you cannot take close-ups. This is because your camcorder is set to focus only on subjects in the middle to far distance.
- In the sunset & moon and landscape modes, your camcorder is set to focus only on
- distant subjects.
- The following functions do not work in the PROGRAM AE mode:
- -Slow shutter
- -Old movie
- Bounce
- The following functions do not work in the low lux mode:
- Digital effect
- -Overlap

 If you press PROGRAM AE when using the NightShot function, the PROGRAM AF indicator flashes and the PROGRAM AE function does not work.

# While WHT BAL is set to AUTO in the MENU settings

The white balance is adjusted even if the PROGRAM AE function is selected.

# Even if the PROGRAM AE function is selected

You can adjust the exposure.

# If you are recording under a discharge tube such as a fluorescent lamp, sodium lamp or mercury lamp

Flickering or changes in color may occur in the following modes. If this happens, turn the PROGRAM AE function off.

Soft portrait mode

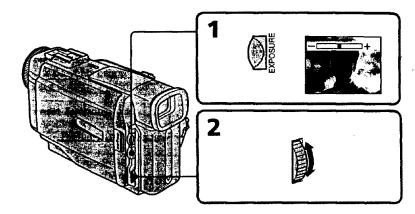
- Sports lesson mode

# Adjusting the exposure manually

You can manually adjust and set the exposure. Adjust the exposure manually in the following cases:

-

- The subject is backlit
- Bright subject and dark background
- To record dark pictures (e.g. night scenes) faithfully
- (1) Press EXPOSURE in the standby or recording mode. The exposure indicator appears.
- (2) Turn the SEL/PUSH EXEC dial to adjust the brightness.



# To return to the automatic exposure mode Press EXPOSURE again.

## Note

When you adjust the exposure manually, the backlight function does not work.

If you change the PROGRAM AE mode or slide NIGHTSHOT to ON Your camcorder automatically returns to the automatic exposure mode.

# Focusing manually

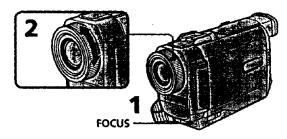
- You can gain better results by manually adjusting the focus in the following cases:
- The autofocus mode is not effective when shooting
- subjects through glass coated with water droplets
- horizontal stripes
- subjects with little contrast with backgrounds such as walls and sky

 When you want to change the focus from a subject in the foreground to a subject in the background

\*Shooting a stationary subject when using a tripod



- (1) Set FOCUS to MANUAL in the standby or recording mode. The @ indicator appears.
- (2) Turn the focus ring to sharpen focus.



## To return to the autofocus mode Set FOCUS to AUTO.

# To record distant subjects

When you press FOCUS down to INFINITY. The lens focuses on and 🛓 indicator appears. When you release FOCUS, your camcorder returns to the manual focus mode. Use this mode when your camcorder focuses on near objects even though you are trying to shoot a distant object.

## Not to make subjects out of focus when using zoom function

Focus after forcusing at the "T" (telephoto) position. It will be harder to focus on when using digital zoom function.

#### Shooting in relatively dark places or shooting fast-moving subjects in relatively bright places

Shoot at the "W" (wide-angle) position after focusing at the "T" (telephoto) position.

## When you shoot close to the subject

Focus at the end of the "W" (wide-angle) position.

#### The following indicators may appear

**When recording a distant subject.** 

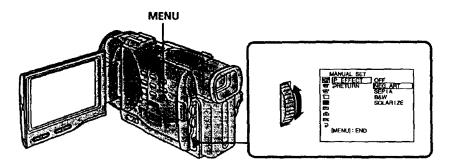
when the subject is too close to focus on.

Advanced Recording Operations

- Advanced Playback Operations -Playing back a tape with picture effects

During playback, you can process a scene using the picture effect functions: NEG.ART, SOLARIZE, SEPIA and B&W.

During playback, select the desired picture effect mode in the MENU settings (p. 72). For details of each picture effect function, see page 36.



# To cancel the picture effect function

Set P EFFECT to OFF in the MENU settings.

#### Notes

- You cannot process externally input scenes using the picture effect function.
- To record pictures that you have processed using the picture effect function, record the pictures on the VCR using your camcorder as a player.

# Pictures processed by the picture effect function

Pictures processed by the picture effect function are not output through the **b** DV IN/OUT jack.

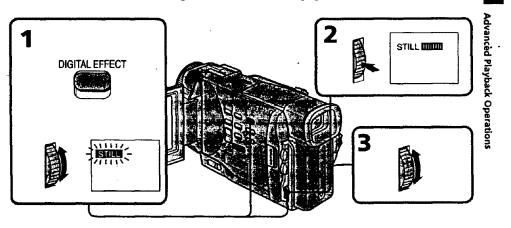
## When you set the POWER switch to OFF or stop playing back

The picture effect function is automatically canceled.

# Playing back a tape with digital effects

During playback, you can process a scene using the digital effect functions: STILL, FLASH, LUMI. and TRAIL.

- (1) During playback, press DIGITAL EFFECT and turn the SEL/PUSH EXEC dial until the desired digital effect indicator (STILL, FLASH, LUMI. or TRAIL) flashes.
- (2) Press the SEL/PUSH EXEC dial. The digital effect indicator lights up and the bars appear. In the STILL or LUMI. mode, the picture where you press the SEL/PUSH EXEC dial is stored in memory as a still picture.
- (3) Turn the SEL/PUSH EXEC dial to adjust the effect. For details of each digital effect function, see page 38.



# To cancel the digital effect function

Press DIGITAL EFFECT.

# Notes

- You cannot process externally input scenes using the digital effect function.
- To record pictures that you have processed using the digital effect, record the pictures on the VCR using your camcorder as a player.

## Pictures processed by the digital effect function

Pictures processed by the digital effect function are not output through the  $\dot{\mathbf{i}}$  DV IN/OUT jack.

# When you set the POWER switch to OFF or stop playing back

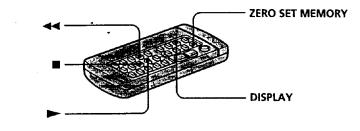
The digital effect function is automatically canceled.



# Quickly locating a scene using the zero set memory function

Your camcorder goes forward or backward to automatically stop at a desired scene having a tape counter value of "0:00:00". You can do this with the Remote Commander. Use this function, for example, to view a desired scene later on during playback. (1) In the playback mode, press DISPLAY.

- (2) Press ZERO SET MEMORY at the point you want to locate later. The tape counter shows "0:00:00" and the ZERO SET MEMORY indicator flashes.
- (3) Press when you want to stop playback.
- (4) Press ◄◄ to rewind the tape to the tape counter's zero point. The tape stops automatically when the tape counter reaches approximately zero. The ZERO SET MEMORY indicator disappears and the time code appears.
- (5) Press 🍉. Playback starts.



#### Notes

- When you press ZERO SET MEMORY before rewinding the tape, the zero set memory function will be canceled.
- There may be a discrepancy of several seconds from the time code.
- The zero set memory function may not work when there is a blank portion between pictures on a tape.

## ZERO SET MEMORY functions also in the recording standby mode

When you insert a scene in the middle of a recorded tape, press ZERO SET MEMORY at the point you want to end the insertion. Rewind the tape to the insert start point, and start recording. Recording stops automatically at the tape counter zero point. Your camcorder returns to the standby mode.

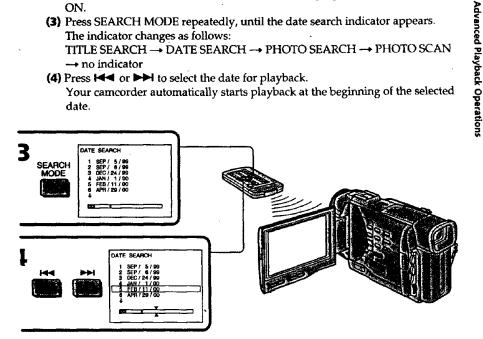
# earching a recording by date Date search

You can automatically search for the point where the recording date changes and start playback from that point (Date search). Use a tape with cassette memory for convenience. You can do this with the Remote Commander. Use this function to check where recording dates change or to edit the tape at each recording date.

# vionen energenerverstenen so enhance

You can use this function only when playing back a tape with cassette memory (p. 109).

- (1) Set the POWER switch to VTR.
- (2) Set CM SEARCH in 🖾 to ON in the MENU settings (p. 72). Factory setting is ON.
- (3) Press SEARCH MODE repeatedly, until the date search indicator appears. The indicator changes as follows:
  - TITLE SEARCH  $\rightarrow$  DATE SEARCH  $\rightarrow$  PHOTO SEARCH  $\rightarrow$  PHOTO SCAN
- (4) Press  $\blacksquare$  or  $\blacksquare$  to select the date for playback.
  - Your camcorder automatically starts playback at the beginning of the selected date.



To stop searching Press



# viences effectes parts inouting each and endiring ex-

- (1) Set the POWER switch to VTR.
- (2) Set CM SEARCH in III to OFF in the MENU settings (p. 72).
- (3) Press SEARCH MODE repeatedly, until the date search indicator appears. The indicator changes as follows:
- DATE SEARCH  $\rightarrow$  PHOTO SEARCH  $\rightarrow$  PHOTO SCAN  $\rightarrow$  no indicator
- (4) Press I to search for the previous date or press ►►I to search for the next date. Your camcorder automatically starts playback at the point where the dat changes. Each time you press I or ►►I, your camcorder searches for the previous or next date.

# To stop searching

Press 🔳 :

#### Notes

- If one day's recording is less than two minutes, your camcorder may not accurately find the point where the recording date changes.
- The cursor in the [00] mark indicates the present point on the tape.

# If a tape has a blank portion between recorded portions The date search function may not work correctly.

#### Cassette memory

The tape cassette memory can hold six recording date data.

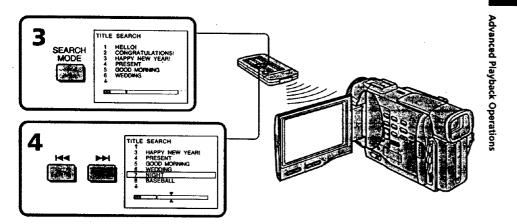
# Searching the boundaries of recorded tape by title – Title search



If you use a tape with cassette memory, you can search for the boundaries of recorded tape by title (Title search). Use the Remote Commander for this operation.

- (1) Set the POWER switch to VTR.
- (2) Set CM SEARCH in Kill to ON in the MENU settings (p. 72). Factory setting is ON.
- (3) Press SEARCH MODE repeatedly, until the title search indicator appears.
- (4) Press I or I to select the title for playback.

Your camcorder automatically starts playback of the scene having the title that you selected.



# To stop searching

Press 🔳.

If you use a tape without cassette memory You cannot superimpose or search a title.

## **To superimpose a title** See page 65.

If a tape has a blank portion between recorded portions

The title search function may not work correctly.



# Searching for a photo – Photo search/ Photo scan

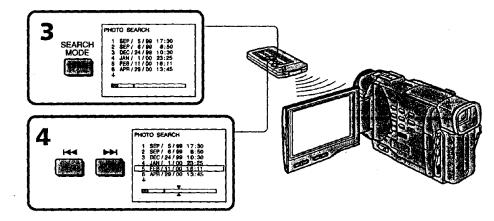
You can search for a still picture you have recorded on a mini DV tape (photo search). You can also search for still pictures one after another and display each picture for five seconds automatically regardless of cassette memory (photo scan). Use the Remote Commander for these operations.

Use this function to check or edit still pictures.

# vachien energy entry vacione card (authores

You can use this function only when playing back a tape with cassette memory (p. 109). (1) Set the POWER switch to VTR.

- (2) Set CM SEARCH in 🖾 to ON in the MENU settings (p. 72). Factory setting is ON.
- (3) Press SEARCH MODE repeatedly, until the photo search indicator appears. The indicator changes as follows: TITLE SEARCH → DATE SEARCH → PHOTO SEARCH → PHOTO SCAN
  - TITLE SEARCH  $\rightarrow$  DATE SEARCH  $\rightarrow$  PHOTO SEARCH  $\rightarrow$  PHOTO SCAN  $\rightarrow$  no indicator
- (4) Press I or ►►I to select the date for playback. Your camcorder automatically starts playback of the photo having the date that you selected.



To stop searching Press **II**.

If a tape has a blank portion between recorded portions The photo search function may not work correctly.

# values exerts unter menus of an and a contracted

- (1) Set the POWER switch to VTR.
- (2) Set CM SEARCH in 📶 to OFF in the MENU settings (p. 72).
- (3) Press SEARCH MODE repeatedly, until the photo search indicator appears.
- (4) Press I or I to select the photo for playback. Each time you press I or
  - >>>, your camcorder searches for the previous or next photo.
    - Your camcorder automatically starts playback of the photo.

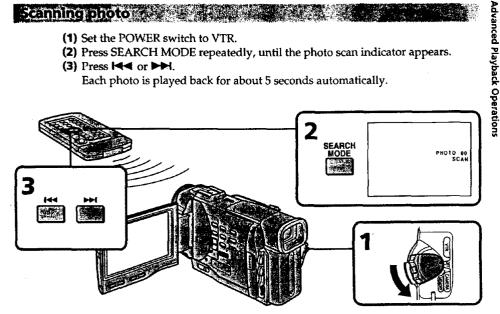
# To stop searching

Press 🔳.

# Scanning photo

- (1) Set the POWER switch to VTR.
- (2) Press SEARCH MODE repeatedly, until the photo scan indicator appears.
- (3) Press I or ►►.

Each photo is played back for about 5 seconds automatically.



To stop scanning Press **I**.



5 g

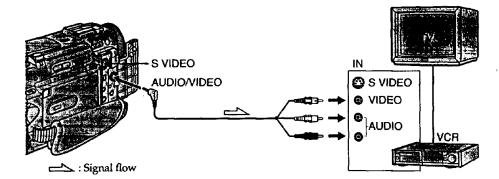
# - Editing -Dubbing a tape

# Using the A/V connecting cable

Connect your camcorder to the VCR using the A/V connecting cable supplied with your camcorder.

Set the input selector on the VCR to LINE, if available.

- (1) Insert a blank tape (or a tape you want to record over) into the VCR, and insert the recorded tape into your camcorder.
- (2) Set the POWER switch to VTR.
- (3) Play back the recorded tape on your camcorder.
- (4) Start recording on the VCR.



# When you have finished dubbing a tape

Press II on both your camcorder and the VCR.

If you have displayed the screen indicators on the TV Make the indicators disappear by pressing SEARCH MODE or DATA CODE on the Remote Commander or DISPLAY so that they will not be superimposed on the edited tape.

# You can edit on VCRs that support the following systems

8 8 mm, Hill Hill, H) Digitals, MRS VHS, SWRS S-VHS, WHSD VHSC, SMRSD S-VHSC, Betamax, 1986 ED Betamax, ""DY mini DV or DY DV

#### If your VCR is a monaural type

Connect the yellow plug of the A/V connecting cable to the video input jack and the white or the red plug to the audio input jack on the VCR or the TV. When the white plug is connected, the left channel audio is output, and the red plug is connected, the right channel audio is output.

# Connect using an S video cable (not supplied) to obtain high-quality pictures

With this connection, you do not need to connect the yellow (video) plug of the A/V connecting cable.

Connect an S video cable (not supplied) to the S video jacks of both your camcorder and the VCR.

This connection produces higher quality DV format pictures.

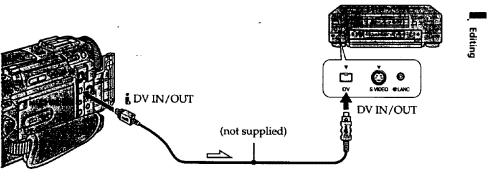


# Using the i.LINK cable (DV connecting cable)

Simply connect the VMC-IL4435/2DV/4DV i.LINK cable (DV connecting cable) (not supplied) to **§** DV IN/OUT and to DV IN/OUT of the DV products. With digital-todigital connection, video and audio signals are transmitted in digital form for highquality editing. You cannot dub the titles, display indicators or the contents of cassette memory.

(1) Insert a blank tape (or a tape you want to record over) into the VCR, and insert the recorded tape into your camcorder.\*-

- (2) Set the POWER switch to VTR.
- (3) Play back the recorded tape on your camcorder.
- (4) Start recording on the VCR.



Signal flow

# When you have finished dubbing a tape

Press (STOP) on both your camcorder and the VCR.

# You can connect one VCR only using the i.LINK cable (DV connecting cable).

# During digital editting

You cannot use DIGITAL EFFECT button functions.

#### You can also use your camcorder as a recorder

You can use your camcorder as a player or recorder without changing the connection. When you use your camcorder as a recorder, the DV IN indicator appears in the viewfinder or on the LCD screen. The DV IN indicator may appear on both equipment.

## If you record playback pause picture with the i DV IN/OUT jack

The recorded picture becomes rough. And when you play back the picture using the other video equipment, the picture may jitter.

## To perform a more precise editing (DCR-TRV10 only)

Use DV synchro-editing function (p. 56).

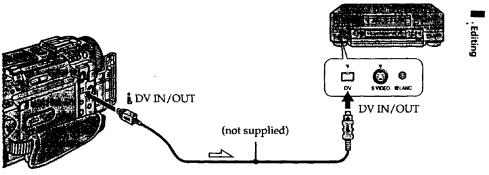


# Using the i.LINK cable (DV connecting cable)

Simply connect the VMC-IL4435/2DV/4DV i.LINK cable (DV connecting cable) (not supplied) to **b** DV IN/OUT and to DV IN/OUT of the DV products. With digital-todigital connection, video and audio signals are transmitted in digital form for highquality editing. You cannot dub the titles, display indicators or the contents of cassette memory.

(1) Insert a blank tape (or a tape you want to record over) into the VCR, and insert the recorded tape into your camcorder.

- (2) Set the POWER switch to VTR.
- (3) Play back the recorded tape on your camcorder.
- (4) Start recording on the VCR.



Signal flow

# When you have finished dubbing a tape

Press (STOP) on both your camcorder and the VCR.

You can connect one VCR only using the i.LINK cable (DV connecting cable).

## During digital editting

You cannot use DIGITAL EFFECT button functions.

#### You can also use your camcorder as a recorder

You can use your camcorder as a player or recorder without changing the connection. When you use your camcorder as a recorder, the DV IN indicator appears in the viewfinder or on the LCD screen. The DV IN indicator may appear on both equipment.

# If you record playback pause picture with the B DV IN/OUT jack

The recorded picture becomes rough. And when you play back the picture using the other video-equipment, the picture may jitter.

## To perform a more precise editing (DCR-TRV10 only)

Use DV synchro-editing function (p. 56).

5\_

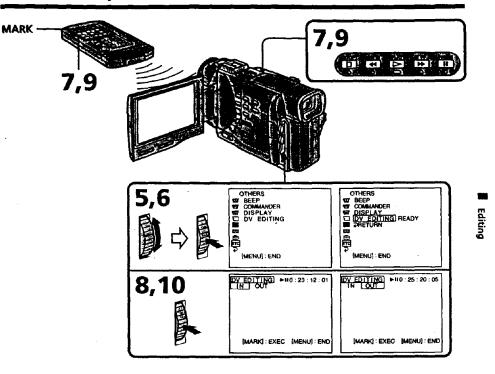
# - DV synchro-editing (DCR-TRV10 only)

By simply selecting the scenes to edit, you can duplicate the desired portion on a tape, using other equipment connected with an i.LINK cable (DV connecting cable). The scenes can be selected by frame. Since your camcorder exchanges digital signals, you can edit with little audio and video deterioration.

You cannot duplicate titles, display indicators, or the contents of cassette memory. The connection is the same as on page 55.

- (1) Insert a recorded tape into your camcorder and insert a blank tape (or a tape you want to record over) into the DV product.
- (2) Set the POWER switch of your camcorder to VTR.
- (3) Set the input selector to DV input on the DV product. If the DV product is another DV camcorder, set its POWER switch to VTR.
- (4) Press MENU to display the menu.
- (5) Turn the SEL/PUSH EXEC dial to select E, then press the dial.
- (6) Turn the SEL/PUSH EXEC dial to select DV EDITING, then press the dial.
- (7) Using the video control buttons, locate the point where you want to start editing, then press II to set your camcorder in the playback pause mode (p. 130).
- (8) Press the SEL/PUSH EXEC dial or MARK on the Remote Commander to set DV EDITING IN.
- (9) Using the video control buttons, locate the point where you want to end editing, then press **II** to set your camcorder in the playback pause mode.
- (10) Press the SEL/PUSH EXEC dial or MARK on the Remote Commander to set DV EDITING OUT. The editing process starts. When the process ends, your camcorder and the DV product automatically set to pause mode.

# Editing partially on a DV tape – DV synchro-editing (DCR-TRV10 only)



#### Notes

- If you use other than Sony equipment with the **§** DV jack, you cannot perform DV synchro-editing.
- If a tape has a blank portion between recorded portions, DV synchro-editing may not work correctly.

#### Errors in duplicating

If you connect your carcorder to Sony equipment with DV jack, the range of errors is within +/-5 frames. The range may become wider in the following conditions.

5

• The interval between DV EDITING IN and OUT is less than five seconds.

• DV EDITING IN or OUT is set at the beginning of the tape.

If you do not make connections with i.LINK cable (DV connecting cable) The screen shows NOT READY, and you cannot select DV EDITING.

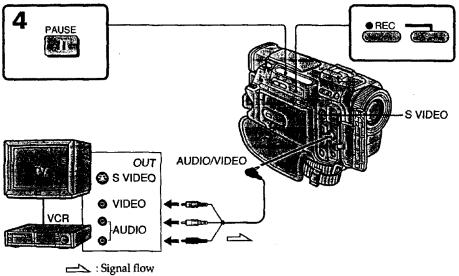
### On a blank portion of the tape

You cannot set DV EDITING IN or OUT.

# **Recording video or TV programs**

You can record a tape from another VCR or a TV program from a TV that has video/ audio outputs. Use your camcorder as a recorder. Turn down the volume of your camcorder. Otherwise, the picture may be distorted.

- Insert a blank tape (or a tape you want to record over) into your camcorder. If you are recording a tape from the VCR, insert a recorded tape into the VCR.
   Control of the POLYDER with the VCR.
- (2) Set the POWER switch to VTR.
- (3) Set DISPLAY to LCD in the MENU settings (p. 72). The picture from a TV or VCR appears in the viewfinder or on the LCD screen.
- (4) Press 
   REC and the button on its right simultaneously on your camcorder, then immediately press 
   II on your camcorder.
- (5) Press ➤ on the VCR to start playback if you are recording a tape from VCR. Select a TV program if you are recording from TV.
- (6) Press **11** on your camcorder at the scene where you want to start recording from.



#### Note

If you fast-forward or slow-playback on the other equipment, the image being recorded may turn black and white. When recording from other equipment, be sure to play back the original tape at normal speed.

#### If your VCR is a monaural type

Connect the yellow plug of the A/V connecting cable to the video output jack and the white or the red plug to the audio output jack on the VCR or the TV. When the white plug is connected, the left channel audio is output, and the red plug is connected, the right channel audio is output.

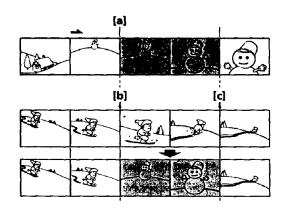
Connect using an S video cable (not supplied) to obtain high-quality pictures With this connection, you do not need to connect the yellow (video) plug of the A/V connecting cable.

Connect an S video cable (not supplied) to the S video jacks of both your camcorder and the VCR.

This connection produces higher quality DV format pictures.

# - Institute Mercal - Edge 6 no millioner millioner

You can insert a new scene from a VCR onto your originally recorded tape by specifying the insert start and end points. Use the Remote Commander for this operation. Connections are the same as on page 54 or 55. Insert a cassette containing the desired scene to insert into the VCR.

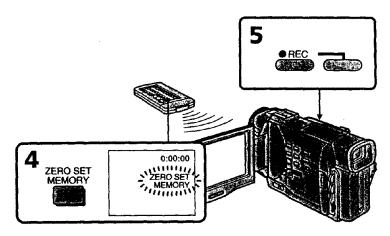


# Inserting a scene from a VCR

(1) Set the POWER switch to VTR.

- (2) On the VCR, locate just before the insert start point [a], then press II to set the VCR to the playback pause mode.
- (3) On your camcorder, locate the insert end point [c] by pressing ◄◄ or ►►. Then press II to set it to the playback pause mode.
- (4) Press ZERO SET MEMORY on the Remote Commander. The ZERO SET MEMORY indicator flashes and the end point of the insert is stored in memory.
- (5)On your camcorder, locate the insert start point [b] by pressing ◄◄, then press two ● REC buttons at same time to set your camcorder to the recording pause mode.
- (6) First press II on the VCR, and after a few seconds press II on your carncorder to start inserting the new scene.

Inserting automatically stops near the zero point on the tape counter. Your camcorder automatically roturns to the recording pause mode.



## To change the insert end point

Press ZERO SET MEMORY again after step 5 to erase the ZERO SET MEMORY indicator and begin from step 3.

#### Note

The picture and sound recorded on the section between the insert start and end points will be erased when you insert the new scene.

#### When the inserted picture is played back

The picture and sound may be distorted at the end of the inserted section. This is not a malfunction.

## To insert a scene without setting the insert end point

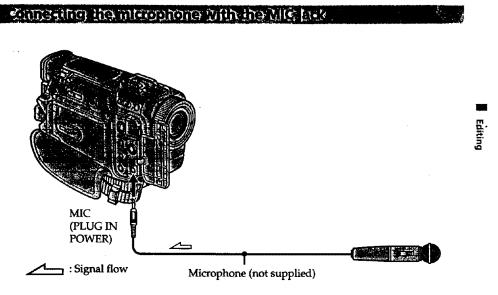
Skip step 3 and 4. Press When you want to stop inserting.



# **Audio dubbing**

You can record an audio sound to add to the original sound on a tape by connecting audio equipment or a microphone. If you connect the audio equipment, you can add sound to your recorded tape by specifying starting and ending points. The original sound will not be erased.

Use the Remote Commander for this operation.

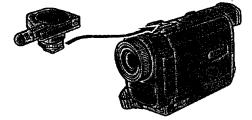


You can check the recorded picture and sound by connecting the AUDIO/VIDEO jack to a TV.

The recorded sound is not output from a speaker. Check the sound by using the TV or headphones.

# connecting the microphone with the intelligent accessory shoe

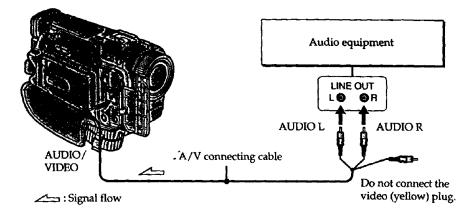
Microphone (not supplied)





# Audio dubbing

# and decivations are an an an an an an



#### Note

The picture is not output from the AUDIO/VIDEO jack. Check the recorded picture or the LCD screen or in the viewfinder, as well as check the recorded sound by using a speaker or headphones.

# Dubbing with ins built in microphones

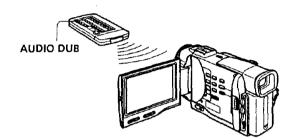
No connection is necessary.

# Note

The picture is not output from the AUDIO/VIDEO jack. Check the recorded picture or the LCD screen or in the viewfinder, as well as check the recorded sound by using a speaker or headphones.

# Adding an audio sound on a recorded tape

- (1) Insert your recorded tape into your camcorder.
- (2) Set the POWER switch of your camcorder to VTR.
- (3) Locate the recording start point by pressing >. Then press II at the point where you want to start recording to set your camcorder to playback pause mode.
- (4) Press AUDIO DUB on the Remote Commander.
- (5) Press II on the Remote Commander and at the same time start playing back the audio you want to record.
- The new sound is recorded in stereo 2 (ST2) during playback. (6) Press ■ on the Remote Commander at the point where you want to stop recording.



# Monitoring the new recorded sound

# To play back the sound

Adjust the balance between the original sound (ST1) and the new sound (ST2) by selecting AUDIO MIX in the MENU settings (p. 72).



Five minutes after when you disconnect the power source or remove the battery pack, the setting of AUDIO MIX returns to the original sound (ST1) only. The factory setting is original sound only.

# Audio dubbing

#### Notes

- New sound cannot be recorded on a tape already recorded in the 16-bit mode (32 kH 44.1 kHz or 48 kHz) (p. 76).
- When an external microphone is not connected, the recording will be made through the built-in microphone of your camcorder.
- New sound cannot be recorded on a tape already recorded in the LP mode.
- You cannot add audio with the **\$** DV IN/OUT jack.

### If you make all the connections

The audio input to be recorded will take precedence over others in the following order • MIC (PLUG IN POWER) jack

- Intelligent accessory shoe
- AUDIO/VIDEO jack
- Built-in microphone
- oun minerophone

If an i.LINK cable (DV connecting cable) is connected to your camcorder You cannot add a sound to a recorded tape.

#### To add new sound more precisely

Press ZERO SET MEMORY at the point where you want to stop recording later in the playback mode.

Carry out steps 3 to 5. Recording automatically stops at the point where ZERO SET MEMORY was pressed.

We recommend you to add new sound on a tape recorded with your camcorder If you add new sound on a tape recorded with another camcorder (including DCR-TRV8/TRV10), the sound quality may become worse.

If you disconnect or connect the i.LINK cable (DV connecting cable) to your camcorder during recording The recording may stop.

# Superimposing a title



If you use a tape with cassette memory, you can superimpose the title while recording or after recording. When you play back the tape, the title is displayed for five seconds from the point where you superimposed it.

You can select one of eight preset titles and two custom titles (p. 68). You can also selec the color, size and position of titles.

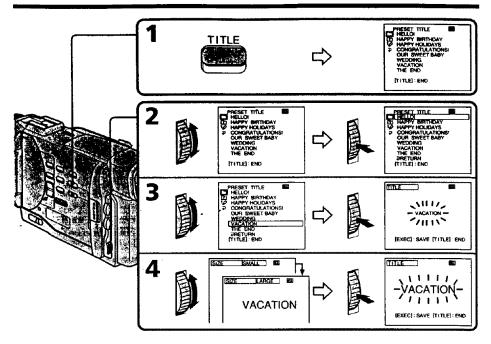


- (1) Press TITLE to display the title menu.
- (2) Turn the SEL/PUSH EXEC dial to select 
  , then press the dial.
- (3) Turn the SEL/PUSH EXEC dial to select the desired title, then press the dial. The title is flashing.
- (4) Change the color, size, or position, if necessary.
  - ① Turn the SEL/PUSH EXEC dial to select the color, size, or position, then press the dial. The item appears.
  - Turn the SEL/PUSH EXEC dial to select the desired item, then press the dial.
  - ③ Repeat steps ① and ② until the title is laid out as desired.
- (5) Press the SEL/PUSH EXEC dial again to complete the setting. In the playback, playback pause or recording mode:
  - The "TITLE SAVE" indicator appears on the screen for 5 seconds and the title is set.
  - In the standby mode:

The "TITLE" indicator appears. And when you press START/STOP to start recording,

"TITLE SAVE" appears on the screen for 5 seconds and the title is set.

# Superimposing a title



# If you use a cassette set to prevent accidental erasure

You cannot superimpose or erase the title. Slide the write-protect tab so that the red portion is not visible.

#### To use the custom title

If you want to use the custom title, select 🕮 in step 2.

If you have not made any custom title, "----..." appears on the display.

#### Title setting

• The title color changes as follows :

WHITE  $\leftrightarrow$  YELLOW  $\leftrightarrow$  VIOLET  $\leftrightarrow$  RED  $\leftrightarrow$  CYAN  $\leftrightarrow$  GREEN  $\leftrightarrow$  BLUE • The title size changes as follows :

SMALL  $\leftrightarrow$  LARGE

If you input 13 characters or more for a LARGE title, the title is automatically reduced in size after its position is set.

• The title position changes as follows :

 $1 \dashrightarrow 2 \dashrightarrow 3 \dashrightarrow 4 \dashrightarrow 5 \dashrightarrow 6 \dashrightarrow 7 \dashrightarrow 8 \dashrightarrow 9$ 

The larger the position number, the lower the title is positioned.

When you select the title size "LARGE", you cannot choose position 9.

# One cassette can have up to about 26 titles, if one title consists of 5 characters

However, if the cassette memory is full with date, photo and cassette label data, one cassette can have only up to about 15 titles with 5 characters each.

Cassette memory capacity is as follows:

- 6 date data (maximum)
- 12 photo data (maximum)
- •1 cassette label (maximum)

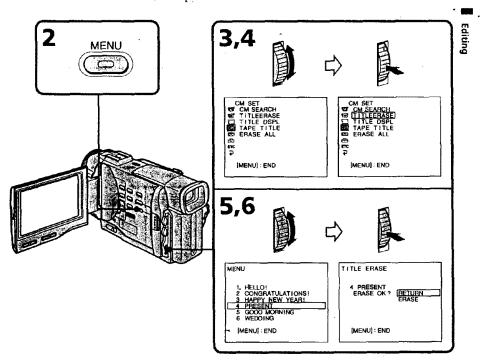
# Superimposing a title

Erasing a title

- (1) Set the POWER switch to VTR.
- (2) Press MENU to display the menu.
- (3) Turn the SEL/PUSH EXEC dial to select 💷, then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select TITLEERASE, then press the dial. Title erase display appears.
- (5) Turn the SEL/PUSH EXEC dial to select the title you want to erase, then press the dial.

"ERASE OK ?" indicator appears.

(6) Make sure the title is the one you want to erase, and turn the SEL/PUSH EXEC dial to select ERASE, then press the dial.



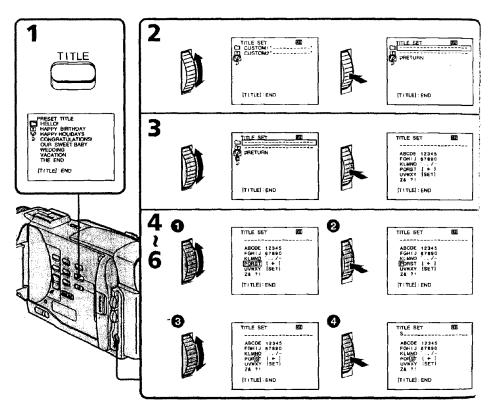
To erase the menu display Press MENU.

# Making your own titles



You can make up to two titles and store them in the cassette memory. Each title can have up to 20 characters.

- (1) Press TITLE in the standby or VTR mode.
- (2) Turn the SEL/PUSH EXEC dial to select  $\mathcal{V}$ , then press the dial.
- (3) Turn the SEL/PUSH EXEC dial to select the first line (CUSTOM1) or second line (CUSTOM2), then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select the column of the desired character, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select the desired character, then press the dial.
- (6) Repeat steps 4 and 5 until you have selected all characters and completed the title.
- (7) To finish making your own titles, turn the SEL/PUSH EXEC dial to select [SET], then press the dial. The title is stored in memory.
- (8) Press TITLE to make the title menu disappear.



# To change a title you have stored

In step 3, select CUSTOM1 or CUSTOM2, depending on which title you want to change, then press the SEL/PUSH EXEC dial. Turn the SEL/PUSH EXEC dial to select [4], then press the dial to delete the title. The last character is erased. Enter the new title as desired.

# If you take 5 minutes or longer to enter characters in the standby mode while a cassette is in your camcorder

The power automatically goes off. The characters you have entered remain stored in memory. Set the POWER switch to OFF once and then to CAMERA again, then proceed from step 1.

We recommend setting the POWER switch to VTR or removing the cassette so that your camcorder does not automatically turn off while you are entering title characters.

## To delete the title

Select [4]. The last character is erased.

Editing

.

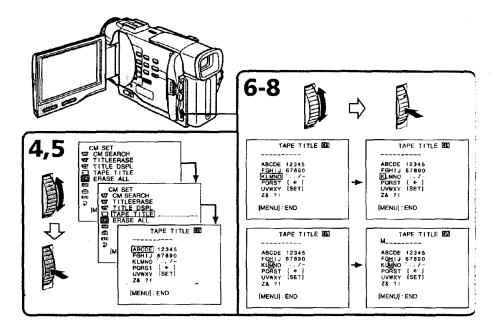
.

# Labeling a cassette



If you use a tape with cassette memory, you can label a cassette. The label can consist of up to 10 characters and is stored in cassette memory. When you insert the labeled cassette and turn the power on, the label is displayed on the LCD screen, in the viewfinder, or on the TV screen.

- (1) Insert the cassette you want to label.
- (2) Set the POWER switch to VTR.
- (3) Press MENU to make the menu display appear.
- (4) Turn the SEL/PUSH EXEC dial to select (20), then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select TAPE TITLE, then press the dial.
- (6) Turn the SEL/PUSH EXEC dial to select the column of the desired character, then press the dial.
- (7) Turn the SEL/PUSH EXEC dial to select the desired character, then press the dial.
- (8) Repeat steps 6 and 7 until you finish the label.
- (9) Turn the SEL/PUSH EXEC dial to select [SET], then press the dial. The label is stored in memory.



# Labeling a cassette

## To erase a character

In step 6 turn the SEL/PUSH EXEC dial to select [+], then press the dial. The last character is erased.

# To change the label you have made

Insert the cassette to change the label, and operate in the same way to make a new label.

# If you use a cassette set to prevent accidental erasure

You cannot label it. Slide the write-protect tab so that the red portion is not visible.

# If the CHI mark appears in step 5

The cassette memory is full. If you erase the title in the cassette, you can label it.

# If you have superimposed titles in the cassette

When the label is displayed, up to 4 titles also appear.

# When the "-----" indicator has fewer than 10 spaces

The cassette memory is full.

The "-----" indicates the number of characters you can select for the label.

Editing

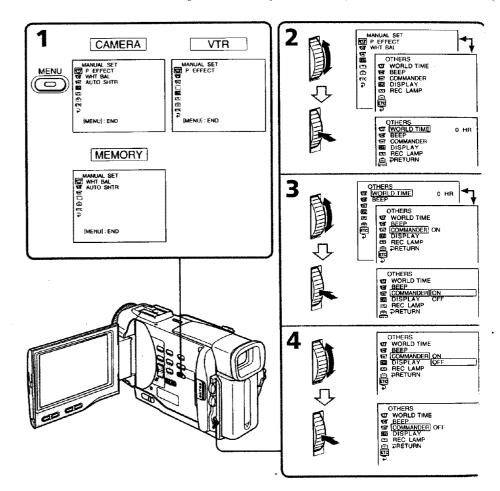
— Customizing Your Camcorder —

# **Changing the MENU settings**

To change the mode settings in the MENU settings, select the menu items with the SEL/PUSH EXEC dial. The factory settings can be partially changed. First, select the icon, then the menu item and then the mode.

- (1) In the standby or VTR mode, press MENU.
- (2) Turn the SEL/PUSH EXEC dial to select the desired icon, then press the dial to set.
- (3) Turn the SEL/PUSH EXEC dial to select the desired item, then press the dial to set.
- (4) Turn the SEL/PUSH EXEC dial to select the desired mode, and press the dial to set.
- (5) If you want to change other items, select RETURN and press the dial, then repeat steps from 2 to 4.

For details, see "Selecting the mode setting of each item" (p. 73).



#### To make the MENU display disappear Press MENU.

Menu items are displayed as the following icons: MANUAL SET CAMERA SET VTR SET MEMORY SET (DCR-TRV10 only) CM SET TAPE SET SETUP MENU TO OTHERS

#### Selecting the mode setting of each item • is the factory setting.

POWER kon/item switch Mode Meaning P EFFECT To add special effects like those in films or on CAMERA VTR the TV to images (p. 36) WHT BAL To adjust the white balance (p. 41) CAMERA MEMORY AUTO SHTR • ON CAMERA To automatically activate the electronic shutter when shooting in bright conditions MEMORY OFF To not automatically activate the electronic shutter even when shooting in bright conditions G D ZOOM CAMERA ON To activate digital zoom. More than 10× to 120× MEMORY zoom is performed digitally (p. 19) • OFF To deactivate digital zoom. Up to 10× zoom is carried out. 16:9WIDE CAMERA • OFF \_\_\_\_ ON To record a 16:9 wide picture (p. 32) STEADYSHOT CAMERA • ON To compensate for camera-shake MEMORY OFF To cancel the SteadyShot function. Natural pictures are produced when shooting a stationary object with a tripod. N.S. LIGHT CAMERA • ON To use the NightShot Light function (p. 22) MEMORY OFF To cancel the NightShot Light function

Menu items differ depending on the position of the POWER switch.

#### Notes on the SteadyShot function

• The SteadyShot function will not correct excessive camera-shake.

 Attachment of a conversion lens (not supplied) may influence the SteadyShot function.

#### If you cancel the SteadyShot function

The SteadyShot off indicator '(#); appears. Your camcorder prevents excessive compensation for camera-shake.

73

**Customizing Your Camcorder** 

# **Changing the MENU settings**

on/item	Mode	Meaning	POWER switch
	• OFF	Not to record continuously	MEMORY
(DCR-TRV10	ON	To record 3 or 4 pictures continuously (p. 86)	-
only)	MULTI SCRN	To record 9 picutures continuously (p. 86)	-
QUALITY (DCR-TRV10	• FINE	To record still pictures in the fine image quality mode, using the Memory Stick	VTR MEMORY
only)	STANDARD	To record still pictures in the standard image quality mode, using the Memory Stick	-
FLD./FRAME	• FIELD	To record moving subjects	MEMORY
(DCR-TRV10 only)	FRAME	To record stopping subjects in high quality	**
PRINT MARK (DCR-TRV10	ON .	To write a print mark on the recorded still images you want to print out later	VTR MEMORY
only)	● OFF	Not to write print marks on still pictures	
PROTECT (DCR-TRV10	OŃ	To protect selected still pictures against accidental erasure (p. 100)	VTR MEMORY
only)	● OFF	Not to protect still pictures	
SLIDE SHOW (DCR-TRV10 only)		To play back images in a continuous loop (p. 107)	MEMORY
DELETE ALL (DCR-TRV10 only)		To delete all the images (p. 102)	MEMORY
FORMAT (DCR-TRV10 only)		To format Memory Sticks	MEMORY
PHOTO SAVE (DCR-TRV10 only)		To duplicate still pictures (p. 91)	VTR
CM SEARCH	● ON	To search using cassette memory (p. 49)	VTR
	OFF	To search without using cassette memory	_
TITLEERASE		To erase the title you have superimposed (p. 67)	VTR CAMERA
TITLE DSPL	● ON	To display the title you have superimposed	VTR
	OFF	Not to display the title	
TAPE TITLE		To label a cassette (p. 70)	VTR CAMERA
ERASE ALL		To erase all the data in cassette memory	VTR CAMERA

#### **Changing the MENU settings**

lcon/item	Mode	Meaning	POWER switch
REC MODE	• SP	To record in the SP (Standard Play) mode	VTR
	LP	To inrease the recording time to 1.5 times the SP mode	⊂ CAMER/
AUDIO MODE	• 12BIT	To record in the 12-bit mode (two stereo sounds)	VTR CAMER/
	16BIT	To record in the 16-bit mode (the one stereo sound with high quality)	-
CO REMAIN O AUTO		<ul> <li>To display the remaining tape bar:</li> <li>for about 8 seconds after your carcorder is turned on and calculates the remaining amount of tape</li> <li>for about 8 seconds after a cassette is inserted and your carcorder calculates the remaining amount of tape</li> <li>for about 8 seconds after ▶ is pressed in VTR mode</li> <li>for about 8 seconds after DISPLAY is pressed to display the screen indicators</li> <li>for the period of tape rewinding, forwarding or picture search in the VTR mode</li> </ul>	VTR CAMER <i>i</i>
	ON	To always display the remaining tape indicator	-
DATA CODE	• DATE/CAM	To display date, time and various settings during playback	VTR
	DATE	To display date and time during playback	

#### Notes on the LP mode

- When you record a tape in the LP mode on your camcorder, we recommend playing the tape on your camcorder. When you play back the tape on other camcorders or VCRs, noise may occur in pictures or sound.
- When you record in the LP mode, we recommend using a Sony Excellence/Master mini DV cassette so that you can get the most out of your camcorder.
- You cannot make audio dubbing on a tape recorded in the LP mode. Use the SP moc for the tape to be audio dubbed.
- When you record in the SP and LP modes on one tape or you record some scenes in the LP mode, the playback picture may be distorted or the time code may not be written properly between scenes.

#### Notes on AUDIO MODE

- You cannot dub audio sound on a tape recorded in the 16BIT mode.
- When playing back a tape recorded in the 16-bit mode, you cannot adjust the balance in AUDIO MIX.

### **Changing the MENU settings**

lcon/item		Mode	Meaning	POWER switch
CLOCK	SET		To reset the date or time (p. 78)	CAMERA MEMORY
AUTO	TV ON	• OFF		VTR
		ON	To automatically turn on the Sony TV when using the laser link function	CAMERA
TV INPI	UT	VIDEO1     VIDEO2     VIDEO3	To switch the video input on a Sony TV when using the laser link function (p. 29)	VTR CAMERA
		OFF	·	
LTR SIZ	!E	NORMAL	To display selected menu items in normal size	VTR
		2x	To display selected menu items at twice the normal size	CAMERA MEMORY
DEMO	MODE	• ON	To make the demonstration appear	CAMERA
		OFF	To cancel the demonstration mode	
	D TIME	•	To set the clock to the local time. Turn the SEL/ PUSH EXEC dial to set a time difference. The clock changes by the time difference you set here. If you set the time difference to 0, the clock returns to the originally set time.	CAMERA MEMORY
BEEP		MELODY	To output the melody when you start/stop recording or when an unusual condition occurs on your camcorder	VTR CAMERA MEMORY
		NORMAL	To output the beep instead of the melody	-
		OFF	To cancel the melody and beep sound	
COMMANDER	IANDER	● ON	To activate the Remote Commander supplied with your camcorder	VTR CAMERA
	OFF	To deactivate the Remote Commander to avoid remote control misoperation caused by other VCR's remote control	- MEMORY	
DISPLA	AY .	● LCD	To show the display on the LCD screen and viewfinder	VTR CAMERA
	V-OUT/LCD	To show the display on the TV screen, LCD screen and viewfinder	- MEMORY	
REC LAMP	● ON	To light up the camera recording lamp at the front of your camcorder	CAMERA MEMORY	
	OFF	* To turn the camera recording lamp off so that the subject is not aware of the recording		
DV ED (DCR- only)		an territoria territoria	To duplicate the desired portion on a tape by simply selecting the scenes to edit, using other equipment connected with an i.LINK cable (DV connecting cable) (p. 56)	VTR

Notes on DEMO MODE • You cannot select DEMO MODE when a cassette is inserted in your camcorder. • DEMO MODE is set to STBY (Standby) at the factory and the demonstration starts about 10 minutes after you have set the POWER switch to CAMERA without a

about 10 initiates after you have set the POWER switch to CAMERA without a cassette inserted.
Note that you cannot select STBY of DEMO MODE in the MENU settings.
When NIGHTSHOT is set to ON, the NIGHTSHOT indicator appears in the viewfinder or on the LCD screen and you cannot select DEMO MODE in the MENU settings.

In more than 5 minutes after removing the power source The "AUDIO MIX", "COMMANDER" and "HiFi SOUND" items are returned to their factory settings. The other menu items are held in memory even when the battery is removed.

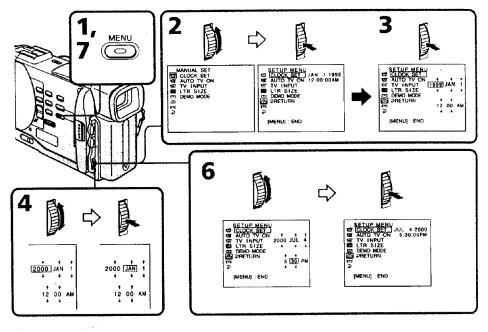
# **Resetting the date and time**

The clock is set to East Coast Standard Time at the factory.

If you do not use your camcorder for about a half year, the date and time settings may be released (bars may appear) because the vanadium-lithium battery installed in your camcorder will have been discharged.

First, set the year, then the month, the day, the hour and then the minute.

- (1) While your camcorder is in the standby mode, press MENU to display the MENU settings.
- (2) Turn the SEL/PUSH EXEC dial to select ⊕, then press the dial.
- (3) Turn the SEL/PUSH EXEC dial to select CLOCK SET, then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to adjust the desired year, then press the dial.
- (5) Set the month, day and hour by turning the SEL/PUSH EXEC dial and pressing the dial.
- (6) Set the minute by turning the SEL/PUSH EXEC dial and pressing the dial by the time signal. The clock starts to move.
- (7) Press MENU to make the MENU settings disappear.



The year changes as follows:

#### If you do not set the date and time

"-----" is recorded on the tape and the Memory Stick (DCR-TRV10 only).

#### Note on the time indicator

The internal clock of your camcorder operates on a 12-hour cycle.

• 12:00 AM stands for midnight.

• 12:00 PM stands for noon.

# Using a Memory Stick-introduction

#### - DCR-TRV10 only

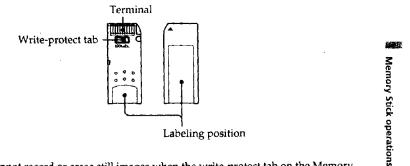
You can record and play back still images on a Memory Stick supplied with your camcorder. You can easily play back, re-record or delete still images. You can also record images from a mini DV tape on a Memory Stick or vice versa. You can exchange image data with other equipment such as a personal computer etc., using the Serial port adaptor for Memory Stick supplied with your camcorder or MSAC-PC1 PC card adaptor for Memory Stick (not supplied).

#### **Still images**

Record the still image on a Memory Stick. Play back the picture with your PC. See page 96 for details.

#### Using a Memory Stick

When you use a Memory Stick



- You cannot record or erase still images when the write-protect tab on the Memory Stick is set to LOCK.
- You can format Memory Sticks. You can also protect still images and write print marks on still images in Memory Sticks.
- We recommend backing up important data.
- When the ACCESS lamp is flashing, never remove the Memory Stick.
- •Image data may be damaged in the following cases:
- If you remove the Memory Stick or turn the power off when the ACCESS lamp is flashing
- If you use Memory Sticks near magnets or magnet fields such as those of speakers and televisions.

#### On file format (JPEG)

Your camcorder compresses image data in JPEG format (extension .jpg).

# Typical image data file name

DSC00001.jpg.



#### **Using a Memory Stick-introduction**

#### Notes

- Prevent metallic objects or your finger from coming into contact with the metal parts of the connecting section.
- Stick its label on the labeling position.
- Do not bend, drop or apply strong shock to Memory Sticks.
- Do not disassemble or modify Memory Sticks.
- Do not let Memory Sticks get wet.
- Do not use or keep Memory Sticks in locations that are:
- ~ Extremely hot such as in a car parked in the sun or under the scorching sun
- ~ Under direct sunlight
- Very humid or subject to corrosive gases
- When you carry or store a Memory Stick, put it in its case.

#### Note on image data compatibility

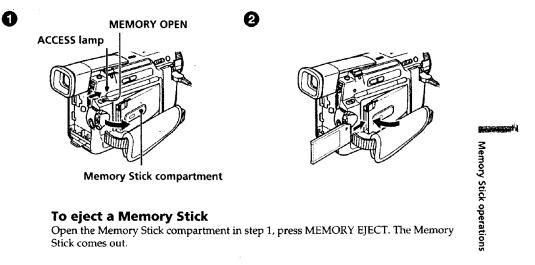
Image data files recorded on Memory Sticks by your camcorder conform with the Design Rules for Camera File Systems universal standard established by the JEIDA (Japan Electronic Industry Development Association). You cannot play back on your camcorder still images recorded on other equipment (DCR-TRV900\*, DSC-D700\*) that does not conform with this universal standard.

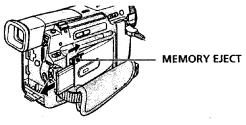
\* These models are not sold in some areas.

Memory Stick is a trademark of Sony Corporation.

## **Inserting a Memory Stick**

- (1) Slide MEMORY OPEN in the direction of the arrow. The Memory Stick compartment opens.
- (2) Insert a Memory Stick in as far as it can go with its rounded corner facing up. Then, close the Memory Stick compartment.





#### When the ACCESS lamp is lit or flashing

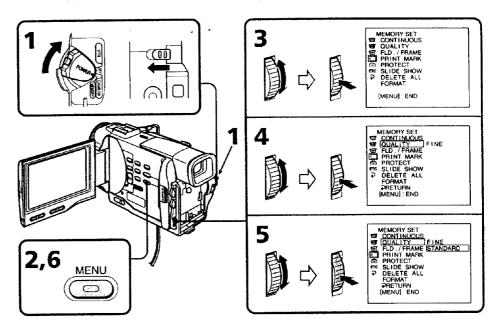
Never shake or strike your camcorder. Do not turn the power off, eject a Memory Stick or remove the battery pack. Otherwise, the image data breakdown may occur.



### Selecting image quality mode

You can select image quality mode in still picture recording. If you do not make any selection, the unit automatically records in FINE mode.

- (1) Set the POWER switch to MEMORY. Make sure that the lock is set to the left (unlock) position.
- (2) Press MENU to make the MENU display appear.
- (3) Turn the SEL/PUSH EXEC dial to select , then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select QUALITY, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select the desired image quality, then press the dial.
- (6) Press MENU to erase the menu display.



#### Image quality settings

Setting	Meaning
FINE (FINE)	Use this mode when you want to record high quality images. The image is compressed to about 1/6.
STANDARD (STD)	This is the standard image quality. The image is compressed to about 1/10.

#### Differences in image quality mode

Recorded images are compressed in JPEG format before being stored into memory. The memory capacity allotted to each image varies depending on the selected image quality mode. Details are shown in the table below. (The number of pixels is  $640 \times 480$ , regardless of image quality mode. The data size before compression is about 600 KB.)

Image quality mode	Memory capacity
FINE	About 100 KB
STANDARD	About 60 KB

#### Approximate number of images you can record on a Memory Stick

The number of images you can record varies depending on which image quality mode you select and the complexity of the subject.

4MB type:	
FINE (FINE)	40 images (maximum)
STANDARD (STD)	60 images (maximum)

8MB type: FINE (FINE) 81 images (maximum) STANDARD (STD) 122 images (maximum)

#### 16MB type:

FINE (FINE) 164 images (maximum) STANDARD (STD) 246 images (maximum)

#### Note

In some cases, changing the image quality mode may not affect the image quality, depending on the types of images you are shooting.

Memory Stick operations

#### Formatting (initializing) a Memory Stick

- (1) Insert a Memory Stick into your camcorder.
- (2) Set the POWER switch to MEMORY. Make sure that the lock is set to the left (unlock) position.
- (3) Press MENU to make the MENU display appear.
- (4) Turn the SEL/PUSH EXEC dial to select , then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select FORMAT, then press the dial.
- (6) Turn the SEL/PUSH EXEC dial again to select OK, then press the dial. The display shows "EXECUTE."
- (7) Press the SEL/PUSH EXEC dial. The display shows "FORMATTING," and formatting procedure begins. When formatting is finished, the display shows "COMPLETE."

#### Notes

- Formatting erases all information on the Memory Stick, including the protected image data. Check the contents of the Memory Stick before formatting.
- Do not turn the POWER switch or press any button while the display shows "FORMATTING".
- You cannot format the Memory Stick if the write-protect tab on the Memory Stick is set to LOCK.

# **Kecording still images on Memory Sticks** – Memory photo recording

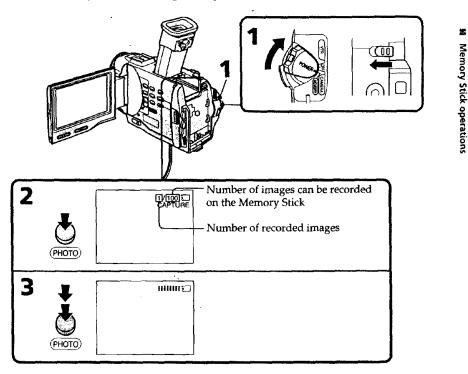
#### - DCR-TRV10 only

You can select the FIELD or FRAME mode in still picture recording. Your cancorder compensates for camera-shake when recording moving subjects in the FIELD mode. Your cancorder records still images in high quality in the FRAME mode. Select the FIELD or FRAME in the MENU settings (p. 72).

#### **Before operation**

Insert a Memory Stick into your camcorder.

- (1) Set the POWER switch to MEMORY. Marke sure that the lock is set to the left (unlock) position.
- (2) Keep pressing PHOTO lightly. The picture freezes and "CAPTURE" appears on the LCD screen or in the viewfinder. Recording does not start yet.
- (3) Press PHOTO deeper. The image displayed on the screen will be recorded on a Memory Stick. Recording is complete when the bar scroll indicator disappears.



#### Notes .

- When recording fast-moving subjects in the FRAME mode, the recorded image blurry. • When recording in the FRAME mode, your camcorder may not correct camera-shake.
- We recommend that you shoot objects with a tripod.

#### When the POWER switch is set to MEMORY

The following functions do not work:

wide TV mode, digital effect, picture effect, title.

# Recording still images on Memory Sticks – Memory photo recording

#### When you are recording a still image

You can neither turn off the power nor press PHOTO.

#### When you press the PHOTO button on the Remote Commander

Your camcorder immediately records the image that is on the screen when you press the button.

## **Recording images continuously**

You can record still pictures continuously. Select one of the two modes described below before recording.

#### Continuous mode [a]

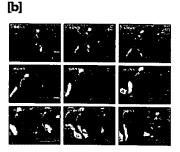
You can record 3 or 4 pictures continuously.

#### Multi screen mode [b]

You can record 9 still pictures continuously on a single page.

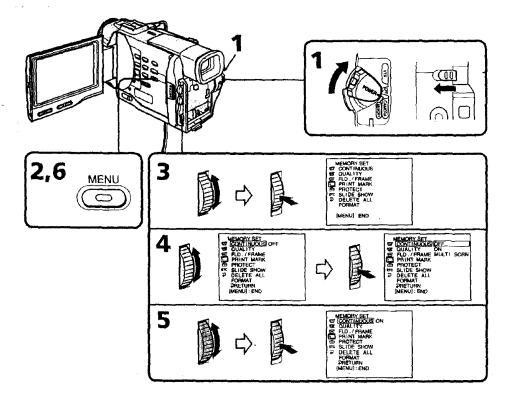
[a]





# **Recording still images on Memory Sticks – Memory photo recording**

- (1) Set the POWER switch to MEMORY. Make sure that the lock is set to the left (unlock) position.
- (2) Press MENU to make the MENU display appear.
- (3) Turn the SEL/PUSH EXEC dial to select , then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select CONTINUOUS, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select the desired setting, then press the dial.
- (6) Press MENU to erase the menu display



# Recording still images on Memory Sticks – Memory photo recording

# Continuous shooting settings

Setting	Meaning (indicator on the screen)
OFF	Your camcorder shoots one image at a time. (no indicator)
ON	Your camcorder shoots 3 or 4 still images at about 0.8 sec intervals ( 😰 )
MULTI SCRN	Your camcorder shoots 9 still images at about $0.3$ sec intervals and displays the images on a single page divided into 9 boxes. ( $\blacksquare$ )

#### Number of images in continuous shooting

The number of images you can shoot continuously varies depending on the image quality mode.

FINE:	3 images
STANDARD:	4 images

#### Note on using the video flash light (not supplied)

The video flash light does not work in the continuous or multi screen mode if you install it to the accessory shoe.

# Recording an image from a mini DV tape as a still image

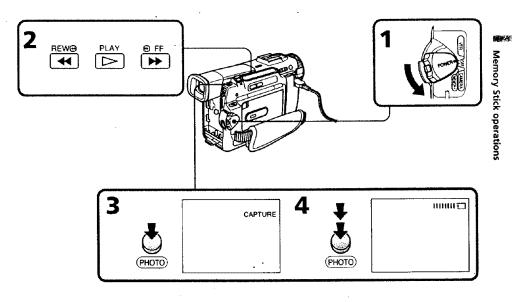
#### - DCR-TRV10 only

Your camcorder can read moving picture data recorded on a mini DV tape and record it as a still image on a Memory Stick. Your camcorder can also take in moving picture data through the input connector and record it as a still image on a Memory Stick.

#### **Before operation**

Insert a recorded mini DV tape and a Memory Stick into your camcorder.

- (1) Set the POWER switch to VTR.
- (2) Press ►. The picture recorded on the mini DV tape is played back.
- (3) Keep pressing PHOTO lightly until the picture from the mini DV tape freezes. "CAPTURE" appears on the LCD screen or in the viewfinder. Recording does not start yet.
- (4) Press PHOTO deeper. The image displayed on the screen will be recorded on a Memory Stick. Recording is complete when the bar scroll indicator disappears.



#### When the ACCESS lamp is lit or flashing

Never shake or strike the unit. As well do not turn the power off, eject a Memory Stick or remove the battery pack. Otherwise, the image data breakdown may occur.

#### If "<sup>(1)</sup> appears on the LCD screen or in the viewfinder

An incompatible Memory Stick is inserted. Be sure to use proper Memory Stick.

#### If you press PHOTO lightly in the playback mode

Your camcorder stops mementarily.

#### Sound recorded on a mini DV tape

You cannot record the audio from a mini DV tape.

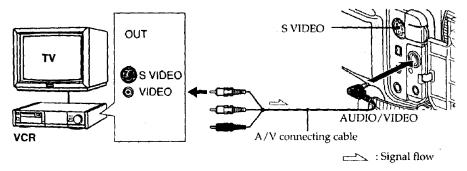
#### Titles have already recorded on mini DV tapes

You cannot record the titles on Memory Sticks. The title does not appear while you are recording a still picture with PHOTO.

#### Recording a still image from other equipment

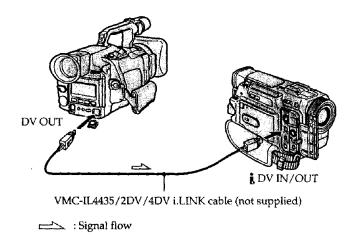
- (1) Set the POWER switch to VTR and set DISPLAY in Et to LCD in the MENU settings.
- (2) Play back the recorded tape, or turn the TV on to see the desired program.
- (3) Follow the steps 3 and 4 on page 89.

#### When recording the image through the AUDIO/VIDEO jack



Connect the yellow plug of the A/V connecting cable to the video jack on the VCR or the TV.

#### When recording the image through the j, DV IN/OUT jack



Connect using an S video cable (not supplied) to obtain high-quality pictures With this connection, you do not need to connect the yellow (video) plug of the A/V connecting cable.

Connect an S video cable (not supplied) to the S video jacks of both your camcorder a the VCR.

This connection produces higher quality DV format pictures.

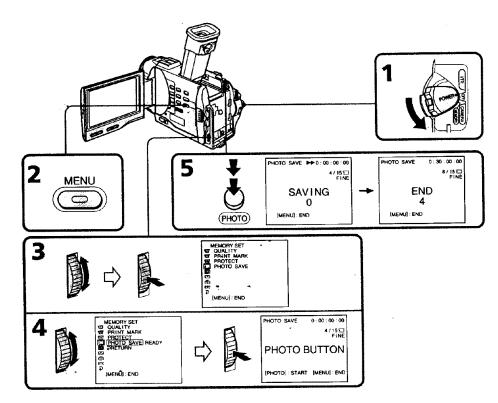
# Copying still images from a mini DV tape – Photo save

### - DCR-TRV10 only

Using the search function, you can automatically take in only still images from mini DV tapes and record them on a Memory Stick in sequence.

#### **Before operation**

- Insert a recorded mini DV tape and rewind the tape.
- Insert a Memory Stick into your camcorder.
- (1) Set the POWER switch to VTR.
- (2) Press MENU to make the MENU display appear.
- (3) Turn the SEL/PUSH EXEC dial to select , then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select PHOTO SAVE, then press the dial. "PHOTO BUTTON" appears on the LCD screen or in the viewfinder.
- (5) Press PHOTO deeper. The still image from the mini DV tape is recorded on a Memory Stick. The number of still images copied is displayed. "END" is displayed when copying is completed.



#### To stop copying

Press MENU to stop copying.

#### When the memory of the Memory Stick is full

"MEMORY FULL" appears on the LCD screen, and the copying stops. Insert another Memory Stick and repeat the procedure from step 2.

#### When the ACCESS lamp is lit or flashing

Never shake or strike your cancorder. As well do not turn the power off, eject a Memory Stick or remove the battery pack. Otherwise, the image data breakdown may occur.

#### To record all the images recorded on the mini DV tape

Rewind the tape all the way back and start copying.

#### If the write-protect tab on the Memory Stick is set to LOCK

"NOT READY" appears when you select the item in the MENU settings.

#### When you change Memory Sticks in the middle of copying

Your comcorder resumes copying from the last image recorded on the previous Memory Stick.

# /iewing a still picture – Memory photo playback

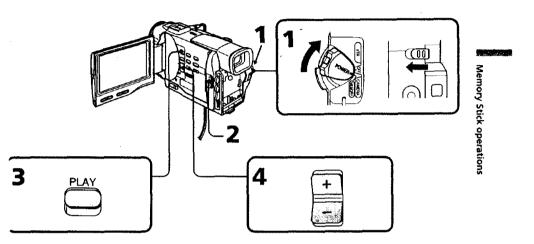
### ~ DCR-TRV10 only

You can play back still images recorded on a Memory Stick. You can also play back 6 images at a time by selecting the index screen.

#### **Before operation**

Insert a Memory Stick into your camcorder.

- (1) Set the POWER switch to MEMORY or VTR. Make sure that the lock is set to the left (unlock) position.
- (2) Slide OPEN in the direction of the > mark. Then, open the LCD panel.
- (3) Press MEMORY PLAY. The last recorded image is displayed.
- (4) Press MEMORY +/- to select the desired still image. To see the previous image, press MEMORY -. To see the next image, press MEMORY +.



#### **To stop memory photo playback** Press MEMORY PLAY again.

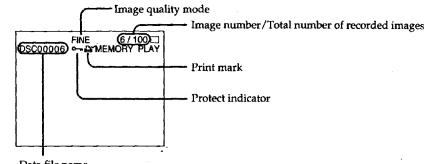
#### Viewing a still picture - Memory photo playback

#### To play back recorded images on a TV screen

- Connect your camcorder to the TV with the A/V connecting cable supplied with your camcorder before the operation.
- When operating memory photo playback on a TV or the LCD screen, the image quality may appear to have deteriorated. This is not a malfunction. The image data is as good as ever.
- Turn the audio volume of the TV down before operation, or noise (howling) may be output from the TV speakers.

Image data modified with personal computers or shot with other equipment You may not be able to play them back with your camcorder.

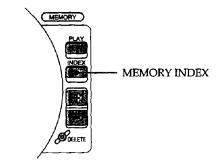
## sceeningiteatoris luming all image playback?





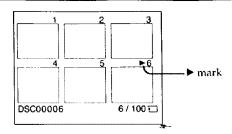
#### Playing backs recorded integrated line (index section)

You can play back 6 recorded images at a time. This function is especially useful when searching for a particular image.



#### Press MEMORY INDEX.

A red  $\blacktriangleright$  mark appears above the image that is displayed before changing to the index screen mode.



• To display the following 6 images, keep pressing MEMORY

• To display the previous 6 images, keep pressing MEMORY

#### To return to the normal playback screen (single screen)

Press MEMORY +/- to move the  $\blacktriangleright$  mark to the image you want to display on full screen, then press MEMORY PLAY.

#### Note

When displaying the index screen, the number appears above each image. This indicates the order in which images are recorded on the Memory Stick. These numbers are different from the data file names.

#### The image quality mode indicator

The indicator may show a mode different to the one in which you recorded. This is not a malfunction. The indicator shows the size of the data file. For instance, if the size of FINE image is small enough, it may be displayed as STD. Or if the size of image is large enough, it may be displayed as SFN.

#### Files modified with personal computers

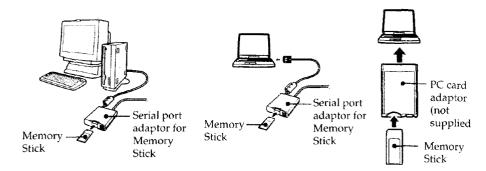
These files may not be displayed on the index screen. Image files shot with other equipment may not be displayed on the index screen either.

-

Memory Stick operations

#### Viewing the recorded images using a personal computer

The image data recorded with your camcorder is compressed in the JPEG format. If you use the application software, "PictureGear 3.2Lite" supplied with your camcorder, you can see images recorded on a Memory Stick on a computer screen. Use the serial port adaptor for Memory Stick supplied with your camcorder, the MSAKIT-PC4A Memory Stick/PC card kit or MSAC-PC1 PC card adaptor for Memory Stick (not supplied) for this operation. For detailed instructions on operation, refer to the operating instructions of the serial port adaptor, Memory Stick/PC card kit or PC card adaptor and application software.



# Superimposing a still picture in a Memory Stick on a moving picture M. CHROM/M. LUMI/C. CHROM

### - DCR-TRV10 only

You can superimpose a still picture you have recorded on a Memory Stick on top of the moving picture you are recording.

#### M. CHROM (Memory chroma key)

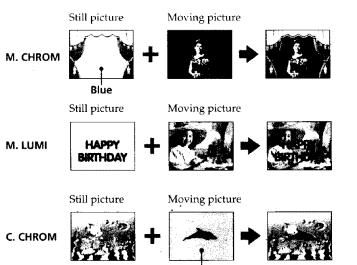
You can swap a blue area of a still picture such as an illustration or a frame with a moving picture.

#### M. LUMI (Memory luminance key)

You can swap a brighter area of a still picture such as a handwritten illustlation or title with a moving picture. Record a title on a Memory Stick before a trip or event for convenience.

#### C. CHROM (Camera chroma key)

You can superimpose a moving picture on top of a still picture such as a picture can be used as background. Shoot the subject against a blue background. The blue area of the moving picture will be swapped with a still picture.



Blue

97

stasses and

**Memory Stick operations** 

# Superimposing a still picture in a Memory Stick on a moving picture – M. CHROM/M. LUMI/C. CHROM

#### Before operation

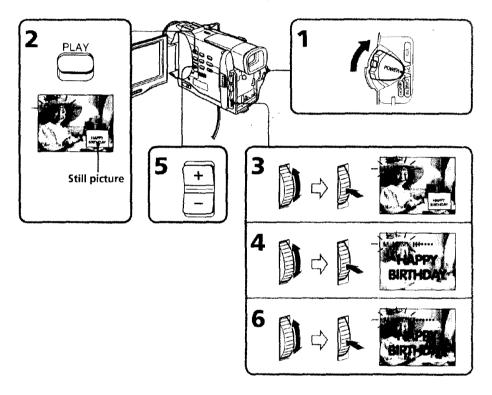
Insert a recorded Memory Stick on your camcorder

- (1) Set the POWER switch to CAMERA.
- **(2)** Press MEMORY PLAY in the standby mode. The last recorded or last composed image appears on the lower part of the screen as a thumbnail image.
- (3) Turn the SEL/PUSH EXEC dial to select the desired mode, then press the dial to set.

The mode changes as follows:

M. CHROM  $\rightarrow$  M. LUMI  $\rightarrow$  C. CHROM

- (4) Press the SEL/PUSH EXEC dial.
  - The still picture is superimposed on the moving picture.
- (5) Press MEMORY+/- to select the still picture you want to superimpose. To see the previous image, press MEMORY -. To see the next image, press MEMORY+.
- (6) Turn the SEL/PUSH EXEC dial to adjust the effect.
- (7) Press START/STOP to start recording.



# Superimposing a still picture in a Memory Stick on a moving picture - M. CHROM/M. LUMI/C. CHROM

Items to adu	it
M. CHROM	The color (blue) scheme of the area in the still picture which is to be swapped with a moving picture
M. LUMI	The color (bright) scheme of the area in the still picture which is to be swapped with a moving picture
C. CHROM	The color (blue) scheme of the area in the moving picture which is to be swapped with a still picture

The fewer bars there are on the screen, the stronger the effect.

#### To change the still picture to superimpose

Do either of the following:

- Press MEMORY+/- before step 7.

- Press the SEL/PUSH EXEC dial before step 7, and repeat the procedure from step 3.

#### To change the mode setting

Press the SEL/PUSH EXEC dial before step 7, and repeat the procedure from step 3.

#### To cancel M. CHROM/M. LUMI/C. CHROM

Press MEMORY PLAY.

#### The Memory Stick supplied with your camcorder stores 30 images

- For M. CHROM: 26 images (such as a frame) DSC00001~DSC00026

- For C. CHROM: 4 images (such as a background) DSC00027~DSC00030

# Sample images stored before leaving the factory

Sample images are protected (p. 100).

## If you format the Memory Stick

Sample images will be deleted.

#### During recording

You cannot change the mode setting.

# Preventing accidental erasure – Image protection

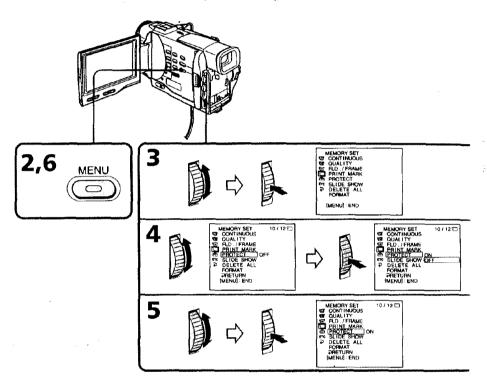
#### - DCR-TRV10 only

To prevent accidental erasure of important images, you can protect selected images.

#### Before operation

Insert a Memory Stick into your camcorder.

- (1) Play back the image you want to protect.
- (2) Press MENU to make the MENU display appear.
- (3) Turn the SEL/PUSH EXEC dial to select , then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select PROTECT, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select ON, then press the dial.
- (6) Press MENU to erase the menu display. The "•¬" mark is displayed beside the data file name of the protected image.



#### To cancel image protection

Select OFF in step 5, then press the SEL/PUSH EXEC dial.

#### Note

Formatting erases all information on the Memory Stick, including the protected image data. Check the contents of the Memory Stick before formatting.

÷.,

If the write-protect tab on the Memory Stick is set to LOCK You cannot carry out image protection.

# Writing a print mark – PRINT MARK

#### - DCR-TRV10 only

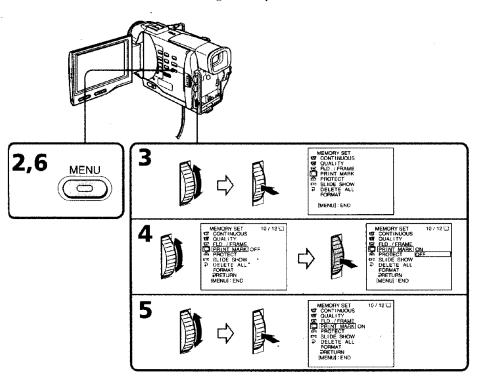
You can specify the recorded still image to print out. This function is useful for printing out still images later.

Your camcorder conforms with the DPOF (Digital Print Order Format) standard for specifying the still images to print out.

#### **Before operation**

Insert a Memory Stick into your camcorder.

- (1) Play back the image you want to write a print mark.
- (2) Press MENU to display the menu.
- (3) Turn the SEL/PUSH EXEC dial to select , then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select PRINT MARK, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select ON, then press the dial.
- (6) Press MENU to erase the menu display. The """ mark is displayed beside the data file name of the image with a print mark.



## To cancel writing print marks

Select OFF in step 5, then press the SEL/PUSH EXEC dial.

If the write-protect tab on the Memory Stick is set to LOCK You cannot write print marks on still images.

# **Deleting images**

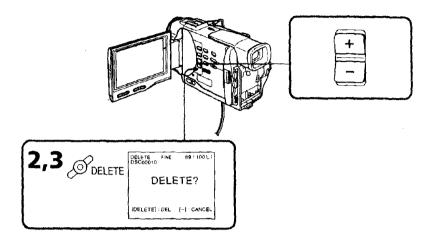
#### · DCR-TRV10 only

## **Deleting selected images**

#### Before operation

Insert a Memory Stick into your camcorder.

- (1) Play back the image you want to delete.
- (2) Press MEMORY DELETE with a sharp-pointed object. "DELETE?" appears on the LCD screen.
- (3) Press MEMORY DELETE again. The selected image is deleted.



#### To cancel deleting an image

Press MEMORY - in step 3.

#### To delete an image displayed on the index screen

Press MEMORY +/- to move the  $\blacktriangleright$  indicator to the desired image and follow steps 2 and 3.

#### Notes

• To delete a protected image, first cancel image protection.

• Once you delete an image, you cannot restore it. Check the images to delete carefully before deleting them.

#### Deleting all the images

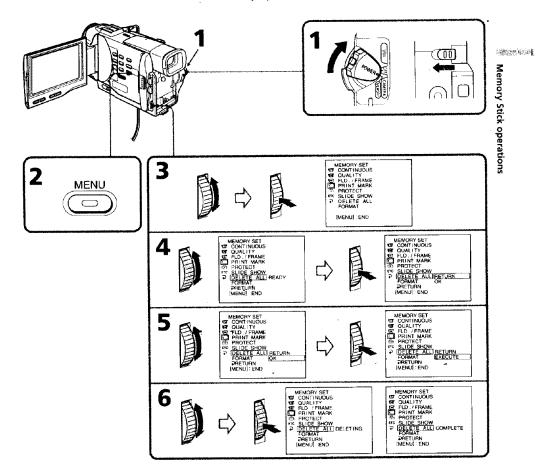
You can delete all the unprotected images in a Memory Stick.

#### **Deleting images**

#### Before operation

Insert a Memory Stick into your camcorder.

- (1) Set the POWER switch to MEMORY. Make sure that the lock is set to the left (unlock) position.
- (2) Press MENU to make the MENU display appear.
- (3) Turn the SEL/PUSH EXEC dial to select  $\Box$ , then press the dial.
- (4) Turn the SEL/PUSH EXEC dial to select DELETE ALL, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select OK, then press the dial. "OK" changes to "EXECUTE."
- (6) Turn the SEL/PUSH EXEC dial to select EXECUTE, then press the dial. "DELETING" appears on the LCD screen. When all the unprotected images are deleted, "COMPLETE" is displayed.



103

-

### **Deleting images**

# To cancel deleting all the images in the Memory Stick

· · · · ·

- A.

Select  $\clubsuit$  RETURN in step 4, then press the SEL/PUSH EXEC.

While "DELETING" appears Do not turn the POWER switch or press any buttons.

If the write-protect tab on the Memory Stick is set to LOCK You cannot delete images.

# Sticks to mini DV tapes

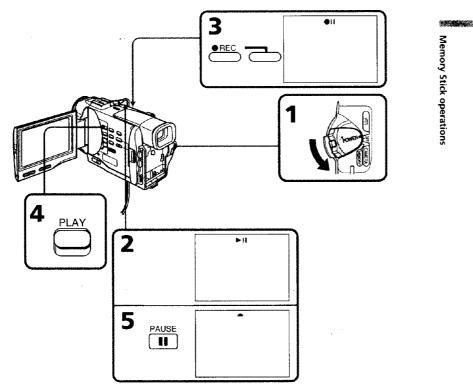
#### - DCR-TRV10 only

You can copy still images or titles recorded on Memory Stick and record them to a mini DV tape.

#### **Before** operation

Insert a mini DV tape for recording and a Memory Stick into your camcorder.

- (1) Set the POWER switch to VTR.
- (2) Using the video control buttons, search a point where you want to record the desired still image. Set the mini DV tape to playback pause mode.
- (3) Press REC and the button on its right simultaneously on your camcorder. The mini DV tape is set to the recording pause mode.
- (4) Press MEMORY PLAY to play back the still image you want to copy.
- (5) Press II to start recording and press It again to stop.
- (6) If you have more to copy, repeat steps 4 and 5.



# To stop copying in the middle Press ■.

#### **During copying**

You cannot operate the following buttons: MEMORY PLAY, MEMORY INDEX, MEMORY DELETE, MEMORY +, and MEMORY -.

### To view the recorded images on TV

Connect your camcorder to a TV with the  $\rm A/V$  connecting cable supplied with your camcorder before operation.

#### If you change the Memory Stick during operation

The slide show does not operate. If you change the Memory Stick, be sure to follow the steps again from the beginning.

#### To view the recorded images on TV

Connect your cancorder to a TV with the  $\rm A/V$  connecting cable supplied with your cancorder before operation.

#### If you change the Memory Stick during operation

The slide show does not operate. If you change the Memory Stick, be sure to follow the steps again from the beginning.

## Selecting cassette types

You can use the <sup>MM</sup>**D**Y mini DV cassette only\*. You cannot use any other **1**2.8 mm, **H12** Hi8, **H** Digital8, **MIS** VHS, **MIS** VHSC, **SWIS** S-VHS, **SWIS** S-VHSC, **18** Betamax, **10** Betamax or **D**Y DV cassette.

\* There are two types of mini DV cassettes: with cassette memory and without cassette memory. We recommend you to use the tape with cassette memory.

The IC memory is mounted on this type of mini D¥-cassette. Your camcorder can read and write data such as dates of recording or titles, etc. to this memory. The functions using the cassette memory require successive signals recorded on the

tape. If the tape has a blank portion in the beginning or between the recorded portions, a title may not be displayed properly or the search functions may not work properly. Not to make any blank portion on the tape, operate the followings.

Press END SEARCH to go to the end of the recorded portion before you begin the next recording if you operate the followings:

- you have ejected the cassette while recording.

- you have played back the tape in the VTR mode.

- you have used the edit search function.

If there is a blank portion or discontinuous signal on your tape, re-record from the beginning to the end of the tape concerning above.

The same result may occur when you record using a digital video camera recorder without a cassette memory function on a tape recorded by one with the cassette memory function.

Tapes with cassette memory have **CIII** (Cassette Memory) mark. Sony recommends that you use a tape having **CIII** mark to enjoy your camcorder fully.

#### CIII 4K mark on the cassette

The memory capacity of tapes marked with CIII4K is 4KB. Your camcorder can accommodate tapes having a memory capacity of up to 16KB. 16KB tape is marked with CIII16K.

# When you play back

# Copyright signal

#### When playing back

Using any other video camera recorder, you cannot record on a tape that has recorded a copyright control signals for copyright protection of software which is played back on your camcorder.

#### When you record

You cannot record software on your camcorder that contains copyright control signals for copyright protection of software.

"COPY INHIBIT" appears on the LCD screen, in the viewfinder or on the TV screen if you try to record such software.

Your camcorder does not record copyright control signals on the tape when it records.

#### Audio mode

12-bit mode: The original sound can be recorded in stereo 1, and the new sound in stereo 2 in 32 kHz. The balance between stereo 1 and stereo 2 can be adjusted by selecting AUDIO MIX in the MENU settings during playback. Both sounds can be played back.

16-bit mode: A new sound cannot be recorded but the original sound can be recorded high quality. Moreover, it can also play back sound recorded in 32 kHz, 44.1 kHz or - kHz. When playing back a tape recorded in the 16-bit mode, 16BIT indicator appears the LCD screen or in the viewfinder.

#### When you play back a dual sound track tape

When you play back a dual sound track tape recorded in a stereo system, set "HiFi SOUND" to the desired mode in the MENU settings (p. 72).

#### Sound from speaker

HiFi Sound Mode	Playing back a stereo tape	Playing back a dual sound track tape	
STEREO	Stereo	Main sound and sub sound	
1	Left sound	Main sound	
2	Right sound	Sub sound	

You cannot record dual sound programs on your camcorder.

#### Notes on the mini DV cassette

#### When affixing a label on the mini DV cassette

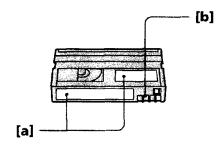
Be sure to affix a label only on the locations as illustrated below so as not to cause malfunction of your camcorder. **[a]** 

#### After using the mini DV cassette

Rewind the tape to the beginning, put the cassette in its case, and store it in an uprigh position.

#### **Cleaning gold-plated connector**

If the gold-plated connector of mini DV cassettes is dirty or dusty, you may not opera the function using cassette memory. Clean up the gold-plated connector with cottonwool swab, about every 10 times ejection of a cassette. **[b]** 



If you run into any problem using your cancorder, use the following table to troubleshoot the problem. If the problem persists, disconnect the power source and contact your Sony dealer or local authorized Sony service facility. If "C:□□:□□" appears on the LCD screen or in the viewfinder, the self-diagnosis display function has worked. See page 116.

## In the recording mode

Symptom	Cause and/or Corrective Actions
START/STOP does not operate.	<ul> <li>The POWER switch is set to VTR.</li> <li>Set it to CAMERA. (p. 15)</li> <li>The POWER switch is set to OFF.</li> <li>Set the POWER switch to CAMERA. (p. 15)</li> <li>The tape has run out.</li> <li>Rewind the tape or insert a new one. (p. 14, 25)</li> <li>The write-protect tab is set to expose the red mark.</li> <li>Use a new tape or slide the tab. (p. 14)</li> <li>The tape is stuck to the drum (moisture condensation).</li> <li>Remove the cassette and leave your camcorder for at least 1 hour to acclimatize. (p. 120)</li> </ul>
Recording stops in a few seconds.	• START/STOP MODE is set to 5SEC or <u>↓</u> . → Set it to <u>↓</u> . (p. 20)
The power goes off.	<ul> <li>While being operated in the CAMERA mode, your camcorder has been in the standby mode for more than 5 minutes.</li> <li>Set the POWER switch to OFF and then to CAMERA again. (p. 15)</li> </ul>
The image on the viewfinder screen is not clear.	<ul> <li>The viewfinder lens is not adjusted.</li> <li>→ Adjust the viewfinder lens. (p. 18)</li> </ul>
The SteadyShot function does not work.	<ul> <li>STEADYSHOT is set to OFF in the MENU settings.</li> <li>Set it to ON. (p. 72)</li> </ul>
The autofocusing function does not work.	<ul> <li>FOCUS is set to MANUAL.</li> <li>Set it to AUTO. (p. 45)</li> <li>Shooting conditions are not suitable for autofocus.</li> <li>Set FOCUS to MANUAL to focus manually. (p. 45)</li> </ul>
The fader function does not work.	<ul> <li>START/STOP MODE is set to 5SEC or <u>↓</u>.</li> <li>→ Set it to <u>↓</u>. (p. 20)</li> <li>The digital effect function is working.</li> <li>→ Cancel it. (p. 39)</li> </ul>
The 🗞 indicator flashes in the viewfinder or on the LCD screen.	<ul> <li>The video heads may be dirty.</li> <li>Clean the heads using the Sony DVM12CL cleaning cassette (not supplied). (p. 121)</li> </ul>
The picture does not appear in the viewfinder.	<ul> <li>The LCD panel is open.</li> <li>→ Close the LCD panel. (p. 17)</li> </ul>

(continued on the following page)

Symptom	Cause and/or Corrective Actions
A vertical band appears when you shoot a subject such as lights or a candle flame against a dark background.	<ul> <li>The contrast between the subject and background is to high. Your camcorder is not a malfunction.</li> </ul>
A vertical band appears when you shoot a very bright subject.	• Your camcorder is not a malfunction.
Some tiny white spots appear in the viewfinder or on the LCD screen.	<ul> <li>Slow shutter, low lux or NightShot +Slow shutter moc activated. This is not a malfunction.</li> </ul>
An unknown picture is displayed in the viewfinder or on the LCD screen.	<ul> <li>If 10 minutes elapse after you set the POWER switch to CAMERA or DEMO MODE is set to ON in the MENU settings without a cassette inserted, your camcorder automatically starts the demonstration.</li> <li>Insert a cassette and the demonstration stops.</li> <li>You can also cancel DEMO MODE. (p. 77)</li> </ul>
The picture is recorded in incorrect or unnatural colors.	<ul> <li>NIGHTSHOT is set to ON.</li> <li>→ Set it to OFF. (p. 21)</li> </ul>
Picture appears too bright, and the subject does not appear in the viewfinder or on the LCD screen.	<ul> <li>NIGHTSHOT is set to ON in a bright place.</li> <li>Set it to OFF, or use the NightShot function in a dariplace. (p. 21)</li> </ul>
The click of the shutter does not sound.	<ul> <li>BEEP is set to OFF in the MENU settings.</li> <li>→ Set it to MELODY or NORMAL. (p. 72)</li> </ul>

# In the playback mode

Symptom	Cause and/or Corrective Actions
The tape does not move when a video control button is pressed.	<ul> <li>The POWER switch is set to CAMERA or OFF.</li> <li>Set it to VTR. (p. 25)</li> <li>The tape has run out.</li> <li>Rewind the tape. (p. 25)</li> </ul>
The playback picture is not clear or does not appear.	<ul> <li>The television's video channel is not adjusted correctly</li> <li>→ Adjust it. (p. 28)</li> </ul>
There are nine horizontal lines on the picture or the playback picture is not clear or does not appear.	<ul> <li>The video head may be dirty.</li> <li>→ Clean the heads using the Sony DVM12CL cleaning cassette (not supplied). (p. 121)</li> </ul>
No sound or only a low sound is heard when playing back a tape.	<ul> <li>The volume is turned to minimum.</li> <li>→ Open the LCD panel and press VOLUME +. (p. 25)</li> <li>AUDIO MIX is set to ST2 in the MENU settings.</li> <li>→ Adjust AUDIO MIX. (p. 72)</li> </ul>
Displaying the recorded date, date search function does not work.	<ul> <li>The tape has no cassette memory.</li> <li>→ Use a tape with cassette memory. (p. 49, 109)</li> <li>CM SEARCH is set to OFF in the MENU settings.</li> <li>→ Set it to ON. (p. 72)</li> </ul>
The title search function does not work.	<ul> <li>The tape has no cassette memory.</li> <li>→ Use a tape with cassette memory. (p. 109)</li> <li>CM SEARCH is set to OFF in the MENU settings.</li> <li>→ Set it to ON. (p. 72)</li> <li>There is no title in the tape.</li> <li>→ Superimpose the titles. (p. 65)</li> </ul>

Symptom	Cause and/or Corrective Actions
The new sound added to the recorded tape is not heard.	<ul> <li>AUDIO MIX is set to ST1 side in the MENU settings.</li> <li>Adjust AUDIO MIX in the MENU settings. (p. 72)</li> </ul>
The title is not displayed.	<ul> <li>TITLE DSPL is set to OFF in the MENU settings.</li> <li>→ Set it to ON in the MENU settings. (p. 72)</li> </ul>
The date search or title search does not work correctly.	• The tape has a blank portion in the recorded portion (p. 109)

# In the recording and playback modes

Symptom	Cause and/or Corrective Actions
The power does not turn on.	<ul> <li>The battery pack is not installed, or is dead or nearly dead.</li> <li>Install a charged battery pack. (p. 9, 10)</li> <li>The AC power adaptor is not connected to a wall outlet.</li> <li>Connect the AC power adaptor to a wall outlet. (p. 13)</li> </ul>
The end search function does not work.	<ul> <li>The tape was ejected after recording when using a tape without cassette memory.</li> <li>You have not recorded on the new cassette yet.</li> </ul>
The end search function does not work correctly.	• The tape has a blank portion in the beginning or middle.
The battery pack is quickly discharged.	<ul> <li>The operating temperature is too low.</li> <li>The battery pack is not fully charged.</li> <li>Charge the battery pack again. (p. 10)</li> <li>The battery pack is completely dead, and cannot be recharged.</li> <li>Replace with a new battery pack. (p. 9)</li> </ul>
The battery remaining indicator does not indicate the correct time.	<ul> <li>You have used the battery pack in an extremely hot or cold environment for a long time.</li> <li>The battery pack is completely dead, and cannot be recharged.</li> <li>Replace with a new battery pack. (p. 9)</li> <li>The battery is dead.</li> <li>Use a charged battery pack. (p. 9, 10)</li> </ul>
The cassette cannot be removed from the holder.	<ul> <li>The power source is disconnected.</li> <li>Connect it firmly. (p. 9, 13)</li> <li>The battery is dead.</li> <li>Use a charged battery pack or the AC power adaptor. (p. 9, 13)</li> </ul>
The (1) and $\triangleq$ indicators flash and no functions except for cassette ejection work.	<ul> <li>Moisture condensation has occurred.</li> <li>Remove the cassette and leave your camcorder for at least 1 hour to acclimatize. (p. 120)</li> </ul>
<b>CIII</b> indicator does not appear when using a tape with cassette memory.	<ul> <li>The gold-plated connector of the tape is dirty or dusty.</li> <li>Clean the gold-plated connector. (p. 110)</li> </ul>
Remaining tape indicator is not displayed.	<ul> <li>The D REMAIN is set to AUTO in the MENU settings.</li> <li>Set it to ON to always display the remaining tape indicator. (p. 72)</li> </ul>

(continued on the following page)

113

۰.

# When operating using the Memory Stick

# - DCR-TRV10 only

Symptom	Cause and/or Corrective Actions
The Memory Stick does not function.	<ul> <li>The POWER switch is set to CAMERA.</li> <li>→ Set it to MEMORY. (p. 82)</li> </ul>
Recording does not function.	<ul> <li>The Memory Stick has already been recorded to its full capacity.</li> <li>Erase unnecessary images and record again. (p. 102, 85</li> <li>The Memory Stick is not inserted.</li> <li>Insert a Memory Stick. (p. 81)</li> <li>Unformatted Memory Stick is inserted.</li> <li>Format the Memory Stick. (p. 84)</li> <li>The write-protect tab on the Memory Stick is set to LOCK</li> <li>Slide the tab to write. (p. 79)</li> </ul>
The image cannot be deleted.	<ul> <li>The image is protected.</li> <li>Cancel image protection. (p. 100)</li> </ul>
You cannot format the Memory Stick.	<ul> <li>The write-protect tab on the Memory Stick is set to LOCk</li> <li>→ Set the tab to write. (p. 79)</li> <li>Memory Stick is not inserted.</li> <li>→ Insert a Memory Stick. (p. 81)</li> </ul>
Deleting all the images cannot be carried out.	<ul> <li>The write-protect tab on the Memory Stick is set to LOCK</li> <li>→ Set the tab to write. (p. 79)</li> <li>Memory Stick is not inserted.</li> <li>→ Insert a Memory Stick. (p. 81)</li> </ul>
You cannot protect the image.	<ul> <li>The write-protect tab on the Memory Stick is set to LOCK</li> <li>Set the tab to write. (p. 79)</li> <li>The image to protect is not be played back.</li> <li>Press MEMORY PLAY to play back the image. (p. 93)</li> <li>Memory Stick is not inserted.</li> <li>Insert a Memory Stick. (p. 81)</li> </ul>
You cannot write a print mark on the still image.	<ul> <li>The write-protect tab on the Memory Stick is set to LOCK</li> <li>→ Set the tab to write. (p. 79)</li> <li>The image to write a print mark is not be played back.</li> <li>→ Press MEMORY PLAY to play back the image. (p. 93)</li> <li>Memory Stick is not inserted.</li> <li>→ Insert a Memory Stick. (p. 81)</li> </ul>
The slide show function does not work.	<ul> <li>Memory Stick is not inserted.</li> <li>→ Insert a Memory Stick. (p. 81)</li> </ul>
The photo save function does not work.	<ul> <li>The write-protect tab on the Memory Stick is set to LOCK</li> <li>→ Set the tab to write. (p. 79)</li> <li>Memory Stick is not inserted.</li> <li>→ Insert a Memory Stick. (p. 81)</li> </ul>

# Others

Symptom	Cause and/or Corrective Actions
The title is not recorded.	<ul> <li>The tape has no cassette memory.</li> </ul>
	→ Use a tape with cassette memory. (p. 109)
	• The cassette memory is full.
	➔ Erase another title. (p. 67)
	<ul> <li>The tape is set to prevent accidental erasure.</li> </ul>
	→ Slide the write-protect tab so that red portion is not visible. (p. 14)
	<ul> <li>Nothing is recorded in that position on the tape.</li> </ul>
	→ Superimpose the title to the recorded position. (p. 65

ymptom	Cause and/or Corrective Actions
he cassette label is not recorded.	<ul> <li>The tape has no cassette memory.</li> <li>Use a tape with cassette memory. (p. 109)</li> <li>The cassette memory is full.</li> <li>Erase some titles. (p. 67)</li> <li>The tape is set to prevent accidental erasure.</li> <li>Slide the write-protect tab so that red portion is not visible. (p. 14)</li> </ul>
While editing using the i.LINK cable DV connecting cable), recording icture cannot be monitored.	• Remove the i.LINIK cable (DV connecting cable), and connect it again.
)V synchro-editing does not unction. DCR-TRV10 only)	<ul> <li>The input selector on the VCR is not set correctly.</li> <li>Set the selector to DV input position. If you use another DV camcorder, set the power switch to VTR.</li> <li>The camcorder is connected to DV equipment of other than Sony.</li> <li>Operate normal editing.</li> <li>Setting program on a blank portion of the tape is attempted.</li> <li>Set the program again on a recorded portion.</li> </ul>
The picture from a TV or VCR does not appear even when your amcorder is connected to outputs on the TV or VCR.	<ul> <li>DISPLAY is set to V-OUT/LCD in the MENU settings.</li> <li>Set it to LCD. (p. 72)</li> </ul>
The Remote Commander supplied with your camcorder does not work.	<ul> <li>COMMANDER is set to OFF in the MENU settings.</li> <li>Set it to ON. (p. 72)</li> <li>Something is blocking the infrared rays.</li> <li>Remove the obstacle.</li> <li>The batteries are inserted in the battery holder with the + - polarities incorrectly matching the + - marks.</li> <li>Insert the batteries with the correct polarity. (p. 132)</li> <li>The batteries are dead.</li> <li>Insert new ones. (p. 132)</li> </ul>
he melody or beep sounds for 5 econds.	<ul> <li>Moisture condensation has occurred.</li> <li>Remove the cassette and leave your camcorder for at least 1 hour to acclimatize. (p. 120)</li> <li>Some troubles has occurred in your camcorder.</li> <li>Remove the cassette and insert it again, then operate your camcorder.</li> </ul>
While charging the battery pack, no ndicator appears or the indicator lashes in the display window.	<ul> <li>The AC power adaptor is disconnected.</li> <li>Connect it firmly. (p. 13)</li> <li>Something is wrong with the battery pack.</li> <li>Contact your Sony dealer or local authorized Sony service facility.</li> </ul>
No function works though the power is on.	<ul> <li>Disconnect the power cord of the AC power adaptor or. remove the battery; then reconnect it in about 1 minute. Turn the power on. If the functions still do not work, open the LCD panel and press the RESET button beside the speaker using a sharp-pointed object. (If you press the RESET button, all the settings including the date and time return to the default.) (p. 127)</li> </ul>

115

¢

# Self-diagnosis display

Your camcorder has a self-diagnosis display function.

This function displays the current condition of your camcorder as a 5-digit code (a combination of a letter and figures) in the viewfinder, on the LCD screen or in the display window. If a 5-digit code is displayed, check the following code chart. The last two digits (indicated by  $\Box\Box$ ) will differ depending on the state of your camcorder.

#### Viewfinder (or LCD screen)

 -C:21:00	3

Five-digit display	Cause and/or Corrective Actions
C:04:□□	<ul> <li>You are using a battery pack that is not an "InfoLITHIUM" battery pack.</li> <li>→ Use an "InfoLITHIUM" battery pack. (p. 12)</li> </ul>
C:21:□□	<ul> <li>Moisture condensation has occurred.</li> <li>→ Remove the cassette and leave your camcorder for at least 1 hour to acclimatize. (p. 120)</li> </ul>
C:22:□□	<ul> <li>The video heads are dirty.</li> <li>→ Clean the heads using the Sony DVM12CL cleaning cassette (not supplied). (p. 121)</li> </ul>
C:31:□□ C:32:□□	<ul> <li>A malfunction other than the above that you can service has occurred.</li> <li>Remove the cassette and insert it again, then operate your camcorder.</li> <li>Disconnect the power cord of the AC power adaptor or remove the battery pack. After reconnecting the power source, operate your camcorder.</li> </ul>
E:61:00 E:62:00	<ul> <li>A malfunction that you cannot service has occurred.</li> <li>Contact your Sony dealer or local authorized Sony service facility and inform them of the 5-digit code. (example: E:61:10)</li> </ul>

If you are unable to rectify the problem even if you try corrective actions a few times, contact your Sony dealer or local authorized Sony service facility.

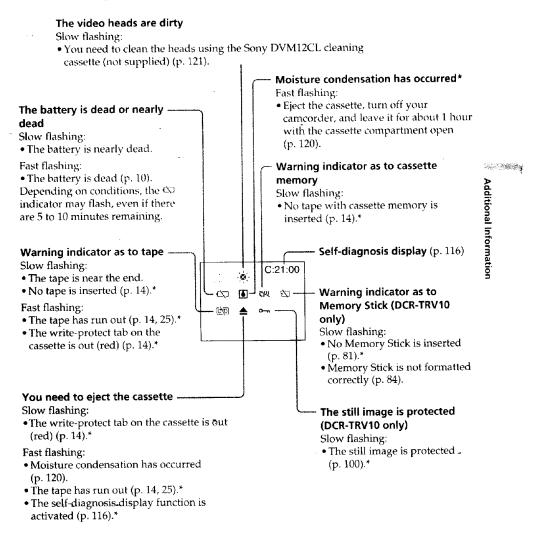
# Narning indicators and messages

If indicators and messages appear in the viewfinder, on the LCD screen or in the display window, check the following:

See the page in parentheses "(-)" for more information.

- The warning messages do not appear in the mirror mode.
- The indicators and messages are displayed in yellow.

#### Warning indicators



# Warning indicators and messages

## Warning messages

manning messag	
CLOCK SET	Reset the date and time (p. 78).
• For "InfoLITHIUM" BATTERY ONLY	Use an "InfoLIHIUM" battery pack (p. 12).
• 💑 CLEANING CAS	SETTE
	The video heads are dirty (p. 121).
• THE FULL	The tape cassette memory is full.
• 🖨 16BIT	AUDIO MODE is set to 16BIT.* You cannot dub new sound (p. 76).
• 🛢 REC MODE	REC MODE is set to LP.* You cannot dub new sound (p. 76).
• 🗢 TAPE	There is no recorded portion on the tape. You cannot dub new sound (p. 109).
• 🗢 "i.LINK" CABLE	i.LINK cable is connected (p. 55).* You cannot dub new sound.
• T FULL	The Memory Stick is full.* (DCR-TRV10 only) (p. 92)
• [] •	The write-protect tab on the Memory Stick is set to LOCK (p. 79).* (DCR-TRV10 only)
•	No still image is recorded on the Memory Stick (p. 85).* (DCR-TRV10 only)
AND MEMORY ST	

• 🕅 NO MEMORY STICK

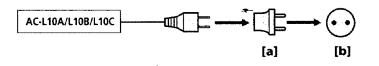
No Memory Stick is inserted. (DCR-TRV10 only) (p. 81)

\* You hear the melody or beep sound.

#### Using your camcorder abroad

You can use your camcorder in any country or area with the AC power adaptor supplied with your camcorder within 100 V to 240 V AC, 50/60 Hz.

When charging the battery pack, use a commercially available AC plug adaptor [a], if necessary, depending on the design of the wall outlet [b].



Your camcorder is an NTSC system based camcorder. If you want to view the playback picture on a TV, it must be an NTSC system based TV with VIDEO/AUDIO input jack. The following shows TV color systems used overseas.

#### NTSC system

Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

#### **PAL system**

Additional Information Australia, Austria, Belgium, China, Czech Republic, Denmark, Finland, Germany, Great Britain, Holland, Hong Kong, Italy, Kuwait, Malaysia, New Zealand, Norway, Portugal, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, etc.

#### **PAL-M system**

Brazil

#### **PAL-N** system

Argentina, Paraguay, Uruguay

#### SECAM system

Bulgaria, France, Guyana, Hungary, Iran, Iraq, Monaco, Poland, Russia, Ukraine, etc.

#### Simple setting of clock by time difference

You can easily set the clock to the local time by setting a time difference. Select WORLD TIME in the MENU settings. See page 72 for more information.

#### **Moisture condensation**

It your cancorder is brought directly from a cold place to a warm place, moisture may condense inside your cancorder, on the surface of the tape, or on the lens. In this condition, the tape may stick to the head drum and be damaged or your cancorder may not operate correctly. If there is moisture inside your cancorder, the beep sounds and the  $\blacksquare$  indicator flashes. When the  $\triangleq$  indicator flashes at the same time, the cassette is inserted in your cancorder. If moisture condenses on the lens, the indicator will not appear.

#### If moisture condensation occurred

None of the functions except cassette ejection will work. Eject the cassette, turn off your camcorder, and leave it for about 1 hour with the cassette compartment open. Your camcorder can be used again if the 🖸 indicator does not appear when the power is turned on again.

#### Note on moisture condensation

Moisture may condense when you bring your camcorder from a cold place into a warm place (or vice versa) or when you use your camcorder in a hot place as follows:

- You bring your camcorder from a ski slope into a place warmed up by a heating device
- You bring your camcorder from an air-conditioned car or room into a hot place outside
- You use your camcorder after a squall or a shower
- You use your camcorder in a high temperature and humidity place

#### How to prevent moisture condensation

When you bring your camcorder from a cold place into a warm place, put your camcorder in a plastic bag and tightly seal it. Remove the bag when the air temperature inside the plastic bag has reached the surrounding temperature (after about 1 hour).

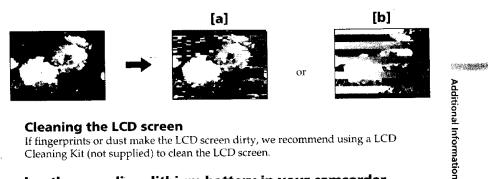
## Maintenance information

#### **Cleaning the video head**

To ensure normal recording and clear pictures, clean the video heads. The video head may be dirty when:

- mosaic-pattern noise appears on the playback picture.
- playback pictures do not move.
- playback pictures do not appear.
- the 🛿 indicator and " 📩 CLEANING CASSETTE" message appear one after another
- or the Ø indicator flashes on the LCD screen or in the viewfinder.

If the above problem, [a] or [b] occurs, clean the video heads for 10 seconds with the Sony DVM12CL cleaning cassette (not supplied). Check the picture and if the above problem persists, repeat cleaning.



## **Cleaning the LCD screen**

If fingerprints or dust make the LCD screen dirty, we recommend using a LCD Cleaning Kit (not supplied) to clean the LCD screen.

# Charging the vanadium-lithium battery in your camcorder

Your camcorder is supplied with a vanadium-lithium battery installed so as to retain the date and time, etc., regardless of the setting of the POWER switch. The vanadiumlithium battery is always charged as long as you are using your camcorder. The battery, however, will get discharged gradually if you do not use your camcorder. It will be completely discharged in about a half year if you do not use your camcorder at all. Even if the vanadium-lithium battery is not charged, it will not affect the camcorder operation. To retain the date and time, etc., charge the battery if the battery is discharged.

#### Charging the vanadium-lithium battery:

- · Connect your camcorder to house current using the AC power adaptor supplied with your camcorder, and leave your camcorder with the POWER switch turned off for more than 24 hours.
- Or install the fully charged battery pack in your carncorder, and leave your carncorder with the POWER switch turned off for more than 24 hours.



#### Precautions

#### **Camcorder operation**

- Operate your camcorder on 7.2 V (battery pack) or 8.4 V (AC power adaptor).
- For DC or AC operation, use the accessories recommended in this operating instructions.
- If any solid object or liquid get inside the casing, unplug your camcorder and have it checked by a Sony dealer before operating it any further.
- Avoid rough handling or mechanical shock. Be particularly careful of the lens.
- Keep the POWER switch set to OFF when you are not using your camcorder.
- Do not wrap your camcorder with a towel, for example, and operate it. Doing so might cause heat to build up inside.
- Keep your cancorder away from strong magnetic fields or mechanical vibration.
- Do not touch the LCD screen with your fingers or a sharp-pointed object.
- If your camcorder is used in a cold place, a residual image may appear on the LCD screen. This is not a malfunction.
- While using your camcorder, the back of the LCD screen may heat up. This is not a malfunction.

#### On handling tapes

- Do not insert anything into the small holes on the rear of the cassette. These holes are used to sense the type and thickness of the tape and if the recording tab is in or out.
  Do not open the tape protect cover or touch the tape.
- Avoid touching or damaging the terminals. To remove dust, clean the terminals with a soft cloth.

#### **Camcorder care**

- Remove the tape, and periodically turn on the power, operate the CAMERA and VTR sections and play back a tape for about 3 minutes when your camcorder is not to be used for a long time.
- Clean the lens with a soft brush to remove dust. If there are fingerprints on the lens, remove them with a soft cloth.
- Clean the camcorder body with a dry soft cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent which may damage the finish.
- Do not let sand get into your camcorder. When you use your camcorder on a sandy beach or in a dusty place, protect it from the sand or dust. Sand or dust may cause your camcorder to malfunction, and sometimes this malfunction cannot be repaired.

#### AC power adaptor

• Unplug the unit from the wall outlet when you are not using the unit for a long time. To disconnect the power cord, pull it out by the plug. Never pull the power cord itself.

- Do not operate the unit with a damaged cord or if the unit has been dropped or damaged.
- Do not bend the power cord forcibly, or place a heavy object on it. This will damage the cord and may cause fire or electrical shock.
- Prevent metallic objects from coming into contact with the metal parts of the connecting section. If this happens, a short may occur and the unit may be damaged.
- Always keep metal contacts clean.
- Do not disassemble the unit.
- Do not apply mechanical shock or drop the unit.
- While the unit is in use, particularly during charging, keep it away from AM receivers and video equipment. AM receivers and video equipment disturb AM reception and video operation.

- The unit becomes warm during use. This is not a malfunction.
- Do not place the unit in locations that are:
- Extremely hot or cold
- Dusty or dirty
- Very humid
- Vibrating

#### **Battery pack**

• Use only the specified charger or video equipment with the charging function.

- To prevent accident from a short circuit, do not allow metal objects to come into contact with the battery terminals.
- Keep the battery pack away from fire.
- Never expose the battery pack to temperatures above 140°F (60°C), such as in a car parked in the sun or under direct sunlight.
- Keep the battery pack dry.
- Do not expose the battery pack to any mechanical shock.
- Do not disassemble nor modify the battery pack.
- Attach the battery pack to the video equipment securely.
- Charging while some capacity remains does not affect the original battery capacity.

#### Notes on dry batteries

To avoid possible damage from battery leakage or corrosion, observe the following:

- Be sure to insert the batteries with the + polarities matched to the + marks.
- Dry batteries are not rechargeable.
- Do not use a combination of new and old batteries.
- Do not use different types of batteries.
- •Current flows from batteries when you are not using them for a long time.
- Do not use leaking batteries.

#### If batteries are leaking

- Wipe off the liquid in the battery compartment carefully before replacing the batteries.
- If you touch the liquid, wash it off with water.
- If the liquid get into your eyes, wash your eyes with a lot of water and then consult a doctor.

If any problem occurs, unplug your camcorder and contact your nearest Sony dealer.

Additional Information

# **Specifications**

#### Video camera recorder

#### System

Video recording system 2 rotary heads Helical scanning system Audio recording system Rotary heads, PCM system Quantization: 12 bits (Fs 32 kHz) stereo I, stereo 2), 16 bits (Fs 48 kHz, storeo) Video signal NTSC color, EIA standards Usable cassette Mini DV cassette with the Mer DV mark printed Tape speed SP: Approx. 18.81 mm/s LP: Approx. 12.56 mm/s Recording/playback time (using cassette DVM60) SP: 1 hour LP: 1.5 hours Fastforward/rewind time (using cassette DVM60) Approx. 1 min. and 45 seconds (AC power adaptor) Approx. 2 min. and 30 seconds (battery pack) Viewfinder Electric viewfinder (color) Image device 1/4 inch CCD (Charge Coupled Device) Approx. 680,000 pixels (Effective: Approx. 340,000 pixels) Lens Combined power zoom lens Filter diameter 30 mm. (1 3/16 in.) 10× (Optical), 120× (Digital) Focal length 5/32 - 1 5/16 in. (3.3 - 33 mm) When converted to a 35 mm still camera 1 11/16 - 16 5/8 in. (42 - 420 mm) Color temperature Auto, HOLD (Hold), - Indoor (3200K), \*Outdoor (5800K) Minimum illumination 5 lux (F 1.7) 0 lux (in the NightShot mode)\*\* \*\* Objects unable to be seen due to the dark can be shot with infrared lighting. Input/Output connectors S video input/output 4-pin mini DIN Luminance signal: 1 Vp-p, 75 ohms, unbalanced Chrominance signal: 0.286 Vp-p,

Audio/Video input/output AV MINI JACK, UVp-p. 75 ohms. unbalanced, sync negative 327 mV. (at output impedance more than 47 kilohms) Output impedance with less than 2.2 kilohms/Stereo minijack (e.3.5mm) Input impedance more than 47 kilohms BV input/output 4-pin connector Headphone jack Stereo minijack (o 3.5 mm) LANC control jack Stereo mini-minijack (o 2.5 mm) MIC jack Minijack, 0.388 mV low impedance with 2.5 to 3.0 V DC, output impedance 6.8 kilohms (0.3.5 mm)

Stereo type

LCD screen

Picture 3.5 inches measured diagonally 2 7/8 × 2 in. (72.4 × 50.4 mm) Total dot number DCR-TRV8: 105,380 (479 × 220) DCR-TRV10: 184,580 (839 × 220)

#### General

**Power requirements** 7.2 V (battery pack) 8.4 V (AC power adaptor) Average power consumption (when using the battery pack) During camera recording using LCD DCR-TRV8: 3.6W DCR-TRV10: 3.8W Viewfinder 29W 2.5 W Operating temperature 32 °F to 104 °F (0 °C to 40 °C) Storage temperature -4 °F to +140 °F (-20 °C to +60 °C) Dimensions (Approx.) 23/4×35/8×61/4 in (67.5 × 89 × 157.5 mm) (w/h/d) Mass (approx.) DCR-TRV8 1 lb 6 oz (630 g) DCR-TRV10: 1 lb 6 oz (650 g) excluding the battery pack, cassette and shoulder strap DCR-TRV8: 1 lb 9 oz (730 g) DCR-TRV10 1 lb 10 oz (750 g) including the battery pack, NP-FM50, cassette DVM60, lens cap and shoulder strap Supplied accessories See page 8

#### AC power adaptor

Power requirements 100 - 240 V AC, 50/60 HzPower consumption 23 WOutput voltage DC OUT: 8.4 V, 1.5 A in the operating mode Operating temperature 32 °F to 104 °F (0 °C to 40 °C)Storage temperature -4 °F to +140 °F (-20 °C to +60 °C)Dimensions (approx.)  $5 \times 1.9/16 \times 2.1/2$  in. (125 × 39 × 62 mm) (w/h/d) excluding projecting parts Mass (approx.) 9.8 oz (280 g)excluding power cord Cord length (approx.) Power cord: 6.6 feet (2 m) Connecting cord: 5.2 feet (1.6 m)

#### Battery pack

Output voltage DC 7.2 V Capacity 8.5 Wh Dimensions (approx.) 1 9/16 × 13/16 × 21/4 in. (38.2 × 20.5 × 55.6 mm) (w/h/d) Mass (approx.) 2.7 oz (76 g) Type Lithium ion

#### Memory Stick (DCR-TRV10 only)

Memory Flash memory 4MB: MSA-4A Operating voltage 2.7-3.6V Power consumption Approx. 45mA in the operating mode Approx. 130 $\mu$ A in the standby mode Dimensions (approx.) 2 x 1/8 x 7/8 in. (50 x 2.8 x 21.5 mm) (w/h/d) Mass (approx.) 0.14 oz (4 g)

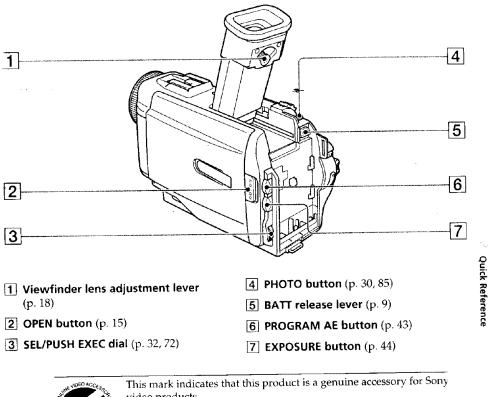
Design and specifications are subject to change without notice.

124

75 ohms, unbalanced

# - Quick Reference dentifying the parts and controls

# Camcorder



video products. When purchasing Sony video products, Sony recommends that you purchase accessories with this "GENUINE VIDEO ACCESSORIES" mark.



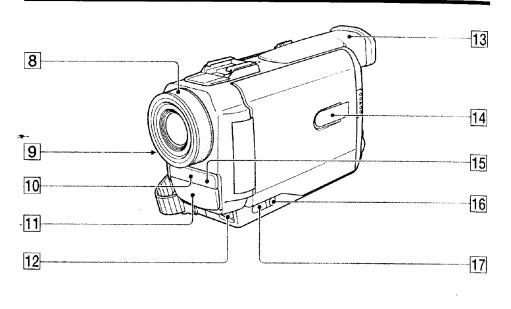


CHI Cassette Memory

These are trademarks.



۰.



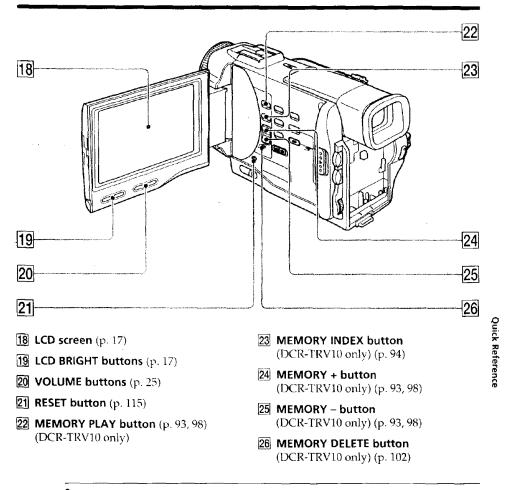


#### Note on the Carl Zeiss lens

Your camcorder is equipped with a Carl Zeiss lens which can reproduce a fine image.

The lens for your camcorder was developed jointly by Carl Zeiss, in Germany, and Sony Corporation. It adopts the MTF\* measurement system for video camera and offers a quality as the Carl Zeiss lens.

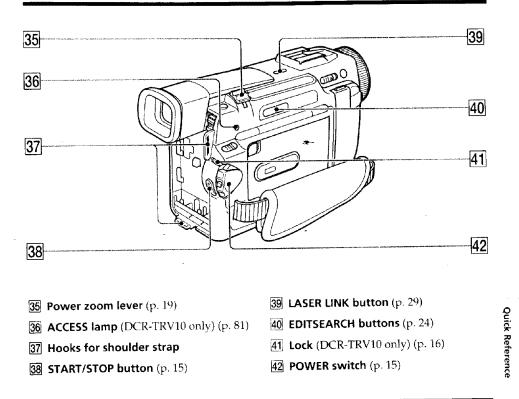
\* MTF is an abbreviation of Modulation Transfer Function/Factor. The value number indicates the amount of light of a subject penetrating into the lens.



#### Intelligent Accessory Shoe

#### Notes on the intelligent accessory shoe

- The intelligent accessory shoe-supplies power to optional accessories such as a video light or microphone.
- The intelligent accessory shoe is linked to the POWER switch, allowing you to turn the power supplied by the shoe on and off. Refer to the operating instructions of the accessory for further information.
- The intelligent accessory shoe has a safety device for fixing the installed accessory securely. To connect an accessory, press down and push it to the end, and then tighten the screw.
- To remove an accessory, loosen the screw, and then press down and pull out the accessory.



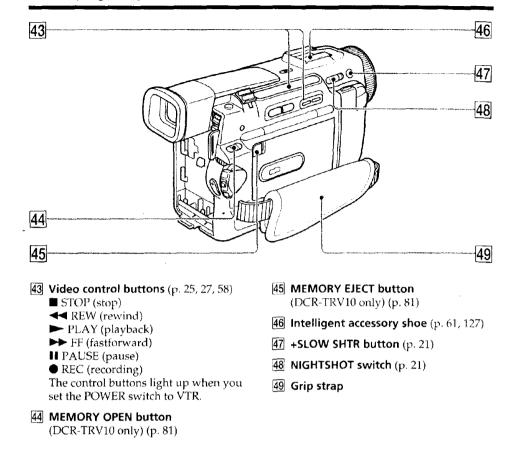
#### Attaching the shoulder strap

Attach the shoulder strap supplied with your camcorder to the hooks for the shoulder strap.



#### What is LASER LINK?

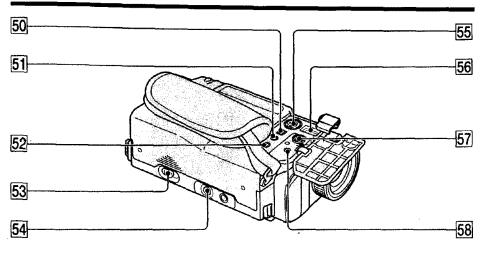
The LASER LINK system sends and receives pictures and sound between video equipment having the <u>L</u> mark by using infrared rays.



Fastening the grip strap



Fasten the grip strap firmly.



50 i DV IN/OUT jack (p. 55) This "i.LINK" mark is a trademark of Sony Corporation and indicates that this product is in agreement with IEEE 1394-1995 specifications and their revisions.

The **i** DV IN/OUT jack is i.LINK compatible.

#### 51 (headphones) jack

When you use headphones, the speaker on 56 DC IN jack (p. 13) your camcorder is silent.

#### 52 LANC & control jack

LANC stands for Local Application Control Bus System. The **t** control jack is used for controlling the tape transport of video equipment and other peripherals connected to the video equipment. This jack has the same function as the jack indicated as CONTROL L or REMOTE.

### **53** ▲ OPEN/EJECT lever (p. 14)

#### 54 Tripod receptacle

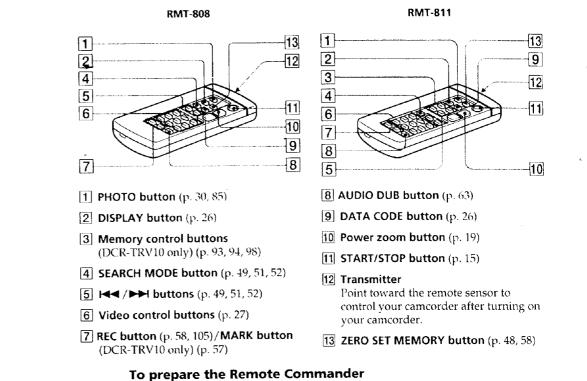
- Make sure that the length of the tripod screw is less than 9/32 inch (6.5 mm). Otherwise, you cannot attach the tripod securely and the screw may damage your camcorder.
- 55 S VIDEO jack (p. 28, 54, 58)

- 57 AUDIO/VIDEO jack (p. 28, 54, 58)
- 58 MIC jack (PLUG IN POWER) (p. 61) Connect an external microphone (not supplied). This jack also accepts a "plug-in-power" microphone.

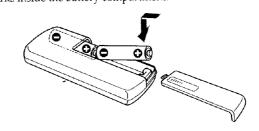
\*\*\*\*\* Quick Reference

#### **Remote Commander**

The buttons that have the same name on the Remote Commander as on your camcorder tunction identically to the buttons on your camcorder.



Insert 2 size AA (R6) batteries by matching the + and – polarities on the batteries to the + – marks inside the battery compartment.

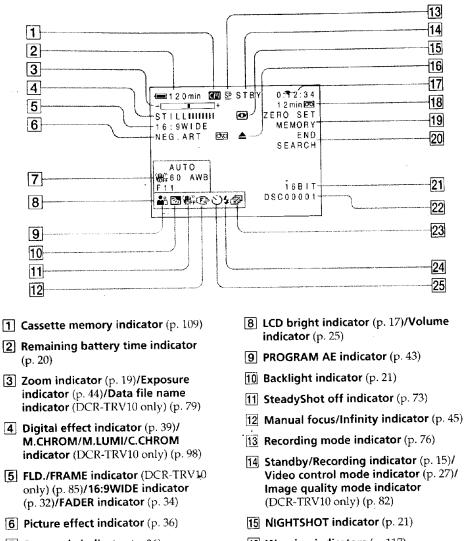


#### Notes on the Remote Commander

 Point the remote sensor away from strong light sources such as direct sunlight or overhead lighting. Otherwise, the Remote Commander may not function properly.

• Your cancorder works in the commander mode VTR 2. Commander modes 1, 2 and 3 are used to distinguish your camcorder from other Sony VCRs to avoid remote control misoperation. If you use another Sony VCR in the Commander mode VTR 2, we recommend changing the commander mode or covering the sensor of the VCR with black paper.

## **Operation indicators**



- **7** Data code indicator (p. 26)
- 16 Warning indicators (p. 117)

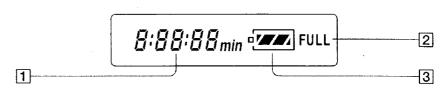
133

**Quick Reference** 

- [17] Tape counter indicator (p. 48)/5SEC mode indicator (p. 20)/Time code indicator (p. 20)/Self-diagnosis indicator (p. 116)/ Photo mode indicator (p. 30)/Image number indicator (DCR-TRV10 only) (p. 94)
- Remaining tape indicator (p. 20)/ Memory playback indicator (DCR-TRV10 only) (p. 94)
- **19 ZERO SET MEMORY indicator** (p. 48)
- 20 END SEARCH indicator (p. 24)
- **21** Audio mode indicator (p. 76)

## **Display window**

- [22] Data file name indicator (DCR-TRV10 only) This indicator appears when the M.CHROM/M.LUMI/C.CHROM functions work.
- 23 Continuous mode indicator (DCR-TRV10 only) (p. 86)
- **24** Video flash ready indicator (p. 30) This indicator appears when you use the video flash light (not supplied).
- **25** Self-timer indicator (p. 23)



- 1 Remaining battery time indicator (p. 10)/Tape counter (p. 48)/ Memory counter (DCR-TRV10 only) (p. 94)/Time code indicator (p. 20)
- **2** FULL charge indicator (p. 10)
- **3** Remaining battery indicator (p. 10)

134

# **Quick Function Guide**

#### Functions to adjust exposure (in the recording mode) NIGHTSHOT (p. 21) In a dark place Low lux mode (p. 42) In insufficient light Sunset & moon mode (p. 42) In dark environments such as sunset, fireworks, or general night views BACK LIGHT (p. 21) Shooting backlit subjects Spotlight mode (p. 42) In spotlight, such as at the theater or a formal event Beach & ski mode (p. 42) In strong light or reflected light, such as at a beach in midsummer or on a ski slope Functions to give images more impact (in the recording mode) FADER (p. 33) Smooth transition between scenes PHOTO (p. 30) • Taking a still picture PICTURE EFFECT (p. 36)/ Digital processing of images DIGITAL EFFECT (p. 38) Soft portrait mode (p. 42) Creating a soft background for subjects TITLE (p. 65) • Superimposing a title Functions to give a natural appearance to your recordings

(in the recording mode) Quick Reference Preventing deterioration of picture quality in D ZOOM [MENU] (p. 72) digital zoom • Focusing manually Manual focus (p. 45) Shooting distant subjects Landscape mode (p. 42) Sports lesson mode (p. 42) Recording fast-moving subjects

# Functions to use in editing (in the recording mode)

		_
• Watching the picture o	n a wide-screen TV	Wide mode (p. 32)
• Viewing images using	a personal computer	Memory Stick (p. 79)
(DCR-TRV10 only)		

# Functions to use after recording (in the playback mode)

• Digital processing of recorded images	PICTURE EFFECT (p. 46), DIGITAL EFFECT (p. 47
<ul> <li>Displaying the date/time or various settings when you recorded</li> </ul>	Data code (p. 26)
• Quickly locating a desired scene	Zero set memory (p. 48)
<ul> <li>Searching for scenes having a title</li> </ul>	Title search (p. 51)
• Searching for scenes recorded in the photo mode	Photo search (p. 52)
<ul> <li>Scanning scenes recorded in the photo mode</li> </ul>	Photo scan (p. 53)
<ul> <li>Playing back on monaural sound or sub sound</li> </ul>	HiFi SOUND [MENU] (p.
<ul> <li>Playing back the picture on a TV without</li> </ul>	LASER LINK (p. 29)

 Playing back the picture on a TV without connecting a cord

72)

135

# Index

# A, B

AC power adaptor 10
Adjusting viewfinder
ANTI GROUND SHOOTING
Audio dubbing 61
AUDIO MIX
Audio mode 76
AUTO SHTR
A#/-V connecting cable
BACK LIGHT
Battery pack 9
Beep
BOÙNCE

## 1, J, K, L

- i.LINK 13	51
Image protection 10	Ю.
Image quality mode 8	2
INDEX (Multiple) display 9	
"InfoLITHIUM" battery I	2
Infrared rays emitter	9
JPEG 7	79
Labeling a cassette	70
LANC	31
LASER LINK	9
LCD screen 1	7
LUMINANCEKEY 3	18

## R

S

Rec review	ł
Recording time 11	
Remaining battery time	
indicator 20	)
Remaining tape indicator 20	3
Remote commander 132	
Remote control jack (LANC)	
Remote sensor 132	2
RESET 115	5

# M, N 🗤

# C, D

Ε

F, G, H

Camera chromakey	96
Cassette memory 6, 1	09
Charging battery	10
Charging vanadium-lithium	
battery 1	21
Clock set	
Connection	
(viewing on TV)	28
(dubbing a tape)	54
Continuous	86
Data code	26
Date search	49
DEMO	77
DIGITAL EFFECT	38
DISPLAY	26
Dual sound track tape 1	
Dubbing a tape	
DV connecting cable	
0	

EDITSEARCH ...... 24

supplied) ..... 131

# Main sound74Manual focus45Memory chromakey97Memory luminancekey97Memory Stick79Menu settings72Mirror mode17Moisture condensation120MONOTONE33Mosaic fader33NIGHTSHOT21NightShot +Slow shutter22Normal charge10NTSC system119

# 0, P, Q

OLD MOVIE	
Operation indicators 133	
OVERLAP 33	
Photo scan 53	
Photo search 52	
Photo recording 30	
PICTURE EFFECT 36	
Picture search 27	
Playback pause 27	
Playback pause 27 Power sources	
Power sources (house current)	
Power sources       13         (house current)       13         (car battery)       13         (battery pack)       9         Power zoom       19	

S video jack 28, 54, 56
Self-diagnosis display 116
Self-timer recording
SEL/PUSH EXEC dial 32, 72
Serial port adaptor
Shoulder strap 129
Skip scan 27
Slide show 107
Slow playback 27
SLOW SHUTTER 38
+SLOW SHTR 22
START/STOP MODE 20
STEADYSHOT
Stereo tape 110
STILL
Sub sound 74

## T, U, V

Tape counter 20,	
Telephoto	19
Time code	20
Title	65
Title search	51
TRAIL	38
Transition	16
TV color systems 1	19

# W, X, Y, Z

Warning indicators	117
Wide-angle	
Wide mode	. 32
WORLD TIME	. 77
Write-protect tab	. 14
Zero set memory	. 48
Zoom	. 19

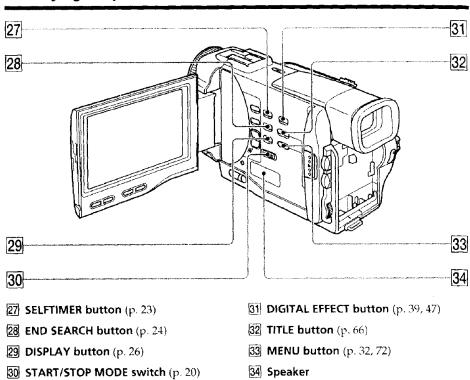


Printed on recycled paper

FADER	33
Fade in/out	33
FLASH MOTION	38
FOCUS	45
Format	84
Full charge	10
Grip strap	130
Heads	121
Headphone jack	131
HiFi SOUND	74

Sony Corporation Printed in Japan







3-866-543-11 (1)

# **PictureGear** Version 3.2 Lite

User's Guide

Program © 1997-1999 Sony Corporation Documentation © 1999 Sony Corporation © 1999 Sony Corporation. All rights reserved.

PictureGear, Memory Stick 🕮 is a trademark of Sony Corporation.

Microsoft, MS-DOS and Windows are registered trademarks of Microsoft Corporatior (USA) in the USA and in other countries.

Portions are copyrighted by Eastman Kodak Company, 1996

Portions are copyrighted by Hewlett-Packard, 1996

The FlashPix format uses Microsoft's OLE Structured Storage

This software uses technology of Island Graphics Corp.

This software uses Microsoft DirectX<sup>®</sup> Media Runtime (© 1998 by Microsoft Corporation, All rights reserved)

Other system names and product names appearing in this document are generally registered trademarks or trademarks of their manufacturiers, although <sup>™</sup> and <sup>®</sup> marks are not shown in this document.

Before using the software, please read the End User License Agreement provided w your PC.

- Copying all or part of the contents of this software and Operating Manual, or renting the software without authorization are prohibited by copyright laws.
- The Company cannot accept liability for damage or loss resulting from the use of this software, or for any claim from a third party.
- The Company assumes no responsibility aside from the replacement of the media due to manufacturing fault.
- D This software must not be used in a system other than that specified.
- The software specifications may be subject to change without notice.

# Table of Contents

.

Befo	re Use	
	Program Features	4
	Precautions for Use	
	About the Operating Environment	6
	About Color Display Settings	
	How to Use this Manual	
	Installing PictureGear	
	Installing the Movie Support Library	
Basic	c Operation	
	Starting the Program	11
	Closing PictureGear	12
	Viewing Slides	
	Displaying Sample Slides in the View Area	
	Display Slides other than the Samples	
	Viewing a Slide Enlarged	
	Playing a Movie	
Usin	g with External Devices	
	Using a Video Camera	16
	Connections and Settings	
	Using the First Time	18
	Storing Images	
	Using a Digital Still Camera	
	Connections and Settings	
	Using the First Time	20
	Storing Images	
	Using a Memory Stick Serial Port Adapter (for Handycams)	22
	Connections and Settings	22
	Using the First Time	23
	Storing Images	24
	Storing Images from External Devices	25
Misc	ellaneous	
	How to Uninstall PictureGear	
	In Case of Trouble	27

# **Before Use**

1.1.1.20

# **Program Features**

PictureGear Version 3.2 Lite (hereafter referred to simply as PictureGear) is software application that makes it easy to list, manage, and display image files stored in Memory Sticks or on a computer's hard disk. In PictureGear, each displayed image is called a slide.

#### Note

The example screens in this document are for the English version. However, to use thi software, the language selected during installation should match the language of the operating system installed on the PC.

Languages that can be selected during installation are as follows.

Japanese / English / German / French / Italian / Spanish

If the language of your operating system is other than the above, select a language from among the above. The default selection is English.\*

\* Please note: Operation is not assured with operating systems for languages other than the above.

#### List View and Zoom View

Slides within a selected folder are displayed in the List View. The List View can be zoomed in and out between 12.5 and 800% using the Zoom Bar, so ar slide can be quickly selected.

As long as a slide is in an image format that can be handled by PictureGear, even if its format differs from other slides, it appears in the same List View together with the other slides. Slides in the List View can be displayed in order by date, name, etc.

#### Copy and Move Slides

Slides can be copied and moved by simple operations in the PictureGear window.

#### Zoom Display of a Slide

A slide selected in the List View can be displayed zoomed in a separate window (Single-Image View). Slides displayed in Single-Image View can be magnified, reduced and scrolled.

# **Print Slides**

Slides can be printed, either singly or as multiple slides per page.

#### Play Movies in the Movie Playback Window

MPEG1 and AVI format movie files can be played in separate windows. A corresponding still image appears in the List View.

# Use with Video and Digital Still Cameras

By connecting a Sony video or digital still camera to the PC, photographic images can be transferred between PictureGear and the camera.

#### Use a Memory Stick (MS) Serial Port Adapter

By connecting the Sony MS Serial Port Adapter to the PC, slides can be stored in Memory Sticks, and stored slides can be viewed.

#### 👸 Hint

The on-line help shows which image formats are supported by PictureGear.

#### Note

The functions described in this document are only applicable to the devices with which this software is bundled (or with the devices for which the accessory kit bundle is intended).

Before Use

# **Precautions for Use**

# About the Operating Environment

The hardware and software requirements for using PictureGear are as follows:

- IBM PC/AT or compatible with the following capabilities.
  - Minimum 90 MHz Pentium CPU (166 MHz or faster recommended)
  - Minimum 32 MB\_main memory (64 MB or more recommended)
  - Minimum 30 MB available hard disk space (for Standard installation
  - Minimum 640 × 480 pixel Hi Color (16-bit color) display driver capability.
- Operating System Microsoft Windows 95, 98 or NT4.0.

#### About Using with Windows NT4.0

- PictureGear must be installed with a supervisory-level login user name, such as "Administrator".
- PictureGear may require about 150 MB of real and virtual memory combined. If PictureGear is run under Windows NT4.0 with too little memory, a message such as "Your system is running low on virtual memory. Please close some applications." may appear. In this case, close PictureGear immediately, login with a supervisory level user name, doul click the System icon in the Control Panel and increase the maximum sizof virtual memory with the Performance setting.

#### Note

To view movies with PictureGear Version 3.2 Lite, the Microsoft DirectX Media Runtime Version 5.2 (or later) movie support library is required. If no movie support library is present, it can be installed from the PictureGear CD-ROM. See page 10 for details.

# About Color Display Settings

- When using PictureGear, the color palette of the screen should be at least Hi Color (16-bit color) for proper display.
- The display color settings are made by double clicking the Display icon in the Windows Control Panel.

# How to Use this Manual

This manual describes how to get PictureGear up and running. Refer to the PictureGear on-line help to learn more about specific program operations. Help is accessible by running PictureGear and selecting How to Use PictureGear in the Help menu.

Information too new to be included in the operating manual is available in the ReadMe file located under Start menu - Programs - PictureGear 3.2Lite. Please be sure to read it.

#### **Displaying the Help Contents**

PictureGear on-line help is displayed by clicking How to Use PictureGear in the Help menu, or by clicking the state button on the toolbar.

Help Topics: Help for PictureGear Lite	ព្រុក
There are an	
าย - ความร่วมของการที่มีมอรี่สุดตัวเป็น เป็นการการ	
PistureGear Basic	
Reading Images	1
Saving Images	
Using the Main Window	l l
<ul> <li>Displaying a Single Image</li> <li>Watching a Movie through Movie Playback Window</li> </ul>	
Using with External Device	
Printing Images	
Converting Image File Formats	
Changing Settings	
Uninstalling the software     Command List	
	Providence of the local data
	in tens.

- Double click 🐤 to display the items within it.
- Double click ? to display the description of that item.

Before Use

# Installing PictureGear

1 Insert the PictureGear CD-ROM into the CD-ROM drive. When the CD-ROM drive access lamp turns off, the Choose Setup Language dialog box appears.



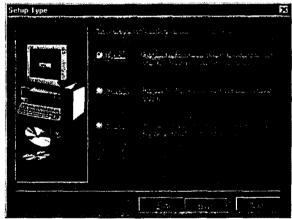
#### Note

If this dialog box does not appear when the CD-ROM is inserted, start the Windows Explorer and double click on the installation file (SETUP.EXE) on the CD-ROM.

- 2 Click to select the language to use from the displayed language list. The Welcome dialog box appears.
- **3** Click [Next]. The End User License Agreement appears. Please read it before proceeding to the next step.
- 4 Click [Yes] after reading the End User License Agreement and agreeing to the terms. The Choose Destination Location dialog box appears with "C:\Program Files\Sony\PictureGear3.2Lite" as the installation destination.

5 Click [Next] if the displayed destination folder is acceptable.
 If you want to change the destination folder, click [Browse], change the destination folder, and then click [Next].
 The Setup Type dialog box appears.

ne Setup Type dialog box appears.



- 6 Click [Next] if you want to perform the Standard setup. To change the setup type, click either [Compact] or [Custom], and then click [Next].
  - Standard: the PictureGear program and sample data are installed.
  - Compact: only the PictureGear program is installed.
  - Custom: either the PictureGear program or sample data can be selected to be installed.

#### Note

Some of the still picture samples can be installed only by selecting Custom setup type.

The Select Program Folder dialog box appears.

7 Click [Next] if the displayed program folder name is acceptable. If you want to change the program folder name, enter the new name for the folder, and click [Next].

The required files are copied from the CD-ROM to the hard disk.



**Before Use** 

## 8 Click [Finish].

The Setup Complete dialog box appears. Checking the Open ReadMe box displays the ReadMe document after installation, so you can see the latest information about the program.

9 Click [Finish].

If the Open ReadMe box was checked in the previous step, the ReadMe document is displayed: After reading the document, close it and click [Finish] in the PictureGear Setup dialog box. Installation is now complete.

# Installing the Wovie Support Huran

· · · · · ·

Microsoft DirectX Media Runtime Version 5.2 or later is required to play movies with PictureGear Version 3.2 Lite.

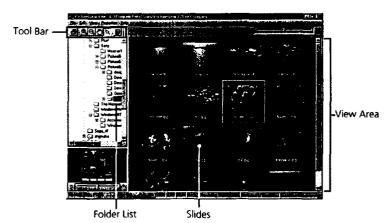
If you have a problem playing movies, install the Microsoft DirectX Media Runtime provided on the PictureGear CD-ROM. Start up the installation program (DXMWEB.EXE) contained in the DirectX folder on the PictureGe. CD-ROM.

# **Basic Operation**

# Starting the Program

PictureGear can be started by the following procedure.

- 1 Turn on the PC and load Windows.
- 2 Click the Start button on the task bar. The Start menu appears.
- Point to Programs on the Start menu, and click PictureGear 3.2 Lite from the list of programs.
   PictureGear starts and the main window appears.
   Sample slides are displayed automatically in the View Area.



A slide selected on this screen can be magnified by the menu and tool bar, and moved in the Folder List.



**Basic Operation** 

## **Closing PictureGear**

PictureGear can be closed by either of the following methods:

- Click File in the menu bar, and then click Close.
- Click the Close button at the top right corner of the PictureGear main window.

## 🇳 Hint

While running PictureGear you can press the F1 key or select How to Use PictureGear from the help menu, or click 😰 to display PictureGear on-line help.

#### Note

Some time is required before the sample slides appear.

## $\ddot{\mathbf{v}}$ If the program fails to run:

Try again from step 1.

If the program still does not run properly, there could be a problem with the PictureGear program files on the hard disk. Try re-installing PictureGear.

# Viewing Slides

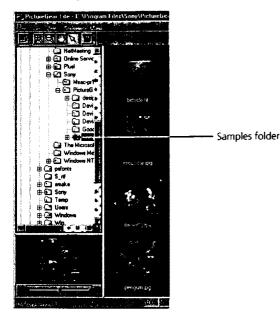
# Displaying Sample Slides in the View Area

When PictureGear is run the first time, sample slides installed on the hard disk are displayed automatically.

To display other slides, specify the folder containing the slides you want to view (page 14).

## **Initial Folder List**

The Samples folder icon in the folder list indicates that it is the open folder when PictureGear is run the first time. The slides in the Samples folder are therefore displayed.



The Samples folder is in the PictureGear3.2Lite folder, which is clearly shown to be in the Sony folder.



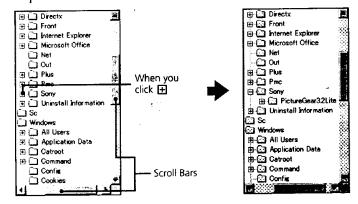


# Display Slides other than the samples

Locate the folder in the PictureGear folder list containing the slides you w to display, and click it.

## Locating a Folder

Manipulate the folder list as follows to locate the desired folder.



#### **Folder List Indicators**

The drive and folder icons are displayed in the folder list. A  $\boxdot$  or  $\boxdot$  mark appears at the left of most icons.

Drives and folders with a 🛨 mark	The drive or folder contains other folders that an currently displayed.
Drives and folders with a 🗖 mark	The drive or folder contains other folders that are displayed under the drive or folder icon, shifted the right.
Drives and folders without a or  mark	This drive or folder contains only files, or is emp

#### **Using the Folder List**

To display the folders within a drive or folder with a  $\boxplus$  mark, click the  $\boxplus$  mark. It changes to a  $\square$  mark.

To display parts of the list that are not displayed in the folder list, drag the scroll bar up and down or left and right.

## 🙄 Contents of the View Area:

Only slides in the folder selected in the folder list are displayed. Other items (such as documents and other folders) that may be in the selected folder are not displayed. Also, despite their file extension, images that cannot be displayed with PictureGear are indicated as non-displayable slides

#### ోల్లో When slides are not displayed

The selected folder may not contain any images that can be displayed by PictureGear Check the contents of the folder list and select a folder that contains displayable files.

# Vrewingra SliderEnlarged

Double click the slide image in the View Area that you want to display enlarged.

The Single-Image View window opens with the enlarged slide. To close the window, click Close in the File menu, or click the window's Close button. Refer to Displaying a Single Image in the on-line help for more details.

# Playing a Movie

Click the movie slide in the View Area that you want to play, and click Play Movie in the View menu Refer to the on-line help for details. Basic Operation

# **Using with External Devices**

This part describes PictureGear operation when connected with external devices. See the PictureGear on-line help and the device manuals for more details.

# Using a Video Camera

With a Sony video camera connected to the PC, PictureGear lets you transfe images between the PC and the camera.

#### Note

The video camera described here refers to the device with which the software was bundled (or with the devices for which the accessory kit bundle is intended). Other devices are not compatible.

# **Connections** and Settings

- 1 Turn off the video camera and PC power.
- 2 Connect one end of the connection cable to a PC serial port, ar the other end to the DIGITAL I/O jack on the video camera.
- **3** Turn on the video camera, and set it to communicate with the (set the power switch to "Video", etc.). Refer to the video camera operating manual for details.
- **4** Turn on the PC and run PictureGear.
- 5 In the Setup menu, point to Connection with Other Device, and click Video Camera.

The Video Camera Settings dialog box appears.



## 🍟 Hint

If the "Loading images by background process" box is checked, images can be loaded by background processing. Refer to the on-line help for details.

### 6 Click [Detail].

The Video Camera Settings dialog box appears.

Video Camera Settings	X
<b>#</b> 2114	യപ്പം
	and a state of the
Contraction of the second	Carl States and a
	au
and Frankling	A CONTRACTOR OF A CONTRACTOR O

- Using with External Devices
- 7 Make the desired settings, and click [OK].
   Baud Rate: Normally 115200 bps. A slower rate may be used if serial communications problems occur.
   Serial Port: Select the PC port that corresponds to the connection in step 2. See the PC operating manual for the port number.
   Close the Video Camera Settings dialog box.

## 8 Click [OK].

The settings are refreshed and the dialog box closes.

## **Using the First Time**

- 1 Check the connections and confirm that an image is stored in the video camera's internal flash memory.
- 2 In the File menu, point to Connections, and click Video Camera. The Video Camera folder icon appears in the folder list, and images in the folder appear in the View Area.



Video Camera folder icon

#### 🎖 Hint

If a message box appears indicating a communications problem, refer to steps 6 and 7 Connections and Settings, and perform the following steps:

- Decrease the baud rate.
- Confirm that the port settings are correct.

#### Note

If an image has been read and any of the following actions taken, repeat the procedure from step 1.

- The video camera has been turned off and back on.
- The cable has been disconnected.
- A new image has been taken, or data has been deleted with the video camera.

#### Notes

- After working with an image after viewing the List View, such as Single-Image viewing, some time will be required to re-read the images.
- As the video camera and the PC are busy communicating until all image are read, c not disconnect the cable during this period.

## Storing Images

Please see page 25.

# Using a Digital Still Camera

With a Sony digital still camera connected to the PC, PictureGear lets you transfer photo images between the PC and the camera.

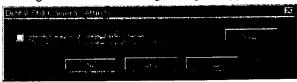
#### Note

The digital still camera described here refers to the device with which the software was bundled (or with the devices for which the accessory kit bundle is intended). Other devices are not compatible.

# المستخطافية فالفاعة بالمواد

- 1 Turn off the camera and PC power.
- 2 Connect one end of the connection cable to a PC serial port, and the other end to the DIGITAL I/O jack on the camera.
- **3** Turn on the camera, and set it to communicate with the PC (set the mode switch to "Play", etc.). Refer to the digital still camera operating manual for details.
- 4 Turn on the PC and run PictureGear.
- 5 In the Setup menu, point to Connection with Other Device, and click Digital Still Camera.

The Digital Still Camera Settings dialog box appears.



## 🍟 Hint

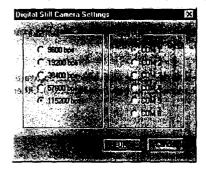
If the "Loading images by background process" box is checked, images can be loaded by background processing. Refer to the on-line help for details.

# Using with External Devices



## 6 Click [Detail].

The Digital Still Camera Settings dialog box appears.



- Make the desired settings, and click [OK].
   Baud Rate: Normally 115200 bps. A slower rate may be used if serial communications problems occur.
   Serial Port: Select the PC port that corresponds to the connection in ste 2. See the PC operating manual for the port number.
   Close the Digital Still Camera Settings dialog box.
- 8 Click [OK]. The settings are refreshed and the dialog box closes.

# Using the Eirst Time

- 1 Check the connections and insert the Memory Stick containing the desired image in the digital still camera.
- 2 In the File menu, point to Connections, and click Digital Still Camera.

The Digital Still Camera folder icon appears in the folder list, and imagin the folder appear in the View Area.



Digital Still Camerá folder icon

## 🍟 Hint

If a message box appears indicating a communications problem, refer to steps 6 and 7 of Connections and Settings, and perform the following steps:

- Decrease the baud rate.
- Confirm that the port settings are correct.

#### Note

If an image has been read and any of the following actions taken, repeat the procedure from step 1.

- The digital still camera has been turned off and back on.
- The cable has been disconnected.
- Any new image has been taken, or an image deleted with the digital camera.
- The Memory Stick was removed from the camera (for devices that include a Memory Stick).

#### Notes

- After working with an image after viewing the List View, such as Single-Image viewing, some time will be required to re-read the images.
- As the digital still camera and PC are busy communicating until all image are read, do not disconnect the cable during this period.

Please see page 25.

Using with External Devices

2.1

# Using a Memory Stick Serial Port Adapter (for Handycams)

With the Sony Memory Stick (MS) Serial Port Adapter (for Handycams) connected to the PC, PictureGear lets you transfer images between the PC and Memory Sticks.

#### Note

The Memory Sticks described here refer to those in which images have been stored by the device with which the software was bundled (or with the devices for which the accessory kit bundle is intended). Memory Sticks containing images stored by other devices are not guaranteed to be compatible.

Connections and Settings	•• "."

- **1** Turn off the PC power.
- 2 Connect one end of the connection cable to a PC serial port, and the other end to the DIGITAL IN/OUT jack on the MS Serial Port Adapter.
- 3 Plug the cord of the MS Serial Port Adapter into an outlet to tur it on.
  Refer to the MS Serial Port Adapter operating manual for details
  - Refer to the MS Serial Port Adapter operating manual for details.
- 4 Turn on the PC and run PictureGear.
- **5** In the Setup menu, point to Connection with Other Device, and click MS Serial Port Adapter.

The MS Serial Port Adapter Settings dialog box appears.

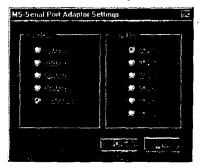
MS-Serial Prot Adacter Settings	3
an a	

## 🍟 Hint

If the "Loading images by background process" box is checked, images can be loaded by background processing. Refer to the on-line help for details.

## 6 Click [Detail].

The MS-Serial Port Adapter Settings dialog box appears.



- 7 Make the desired settings, and click [OK].
   Baud Rate: Normally 115200 bps. A slower rate may be used if serial communications problems occur.
   Serial Port: Select the PC port that corresponds to the connection in step 2. See the PC operating manual for the port number.
   Close the MS Serial Port Adapter Settings dialog box.
- 8 Click [OK].

The settings are refreshed and the dialog box closes.

# حالله حالا المعالية ا

- 1 Check the connections and insert the Memory Stick containing the desired image in the MS Serial Port Adapter.
- 2 In the File menu, point to Connections, and click MS Serial Port Adapter.

The MS Serial Port Adapter folder icon appears in the folder list, and images in the folder below it appear in the View Area.





Using with External Devices

## 🍟 Hint

If a message box appears indicating a communications problem, refer to steps 6 and 7 Connections and Settings, and perform the following steps:

- Decrease the baud rate.
- Confirm that the port settings are correct.

#### Note

If an image has been read and any of the following actions taken, repeat the procedur from step 1.

- Power to the MS Serial Port Adapter has been turned off and back on.
- The cable has been disconnected.
- The Memory Stick was removed."

#### Notes

- After working with an image after viewing the List View, such as Single-Jmage viewing, some time will be required to re-read the images.
- As the MS Serial Port Adapter and PC are busy communicating until all image are read, do not disconnect the cable during this period.
- If an error occurs, disconnect and then reconnect the PC serial Cable at the MS Seri. Port Adaptor side.

Storing Images

Please see page 25.

# **Storing Images from External Devices**

Images read from external devices can be stored on the PC hard disk. Refer to the on-line help for details.

- 1 Click the slide you wish to store in the View Area to select it.
- **2** Drag the selected slide to the destination folder or drive in the Folder List.

The image is stored at the destination.

Refer to the operating manual of the connected device for storage format details.

#### Note

Slides cannot be stored in the folder of the connected device.

## Storing an image from the Single-Image Viewer

Select Save As from the File menu. The storage format can be selected from the following: BMP, JPEG, TIFF, FlashPix or GIF.

## **W** How to send images to an external device

You can send still images to an external device. See the Help file.

# Miscellaneous

particular and

# How to Uninstall PictureGear

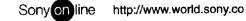
If PictureGear is not being used and you need to free up space on the hard disk, it can be uninstalled as follows.

- 1 In the File menu, click Close to close PictureGea
- 2 On the task bar, click the Start button, point to Settings, and cli Control Panel. The Control Panel opens.
- Double click Add/Remove Programs.
   The Add/Remove Programs Properties dialog box appears.
- 4 Click the Install/Uninstall tab.
- **5** Click on PictureGear 3.2Lite in the list of applications, so it is highlighted.
- **6** Click the Add/Remove button. The uninstaller runs and the Confirm File Deletion dialog box appears
- 7 Click [Yes]. The PictureGear program and related files are deleted.

# In Case of Trouble

If a problem occurs, please check the following items. If you cannot resolve the problem, contact the location indicated in the operating manual for the device with which you received this software.

Symptom	Cause/Remedy
PictureGear does not run	There might be a problem with the PictureGear program on the hard disk. → Uninstall and then reinstall PictureGear (page 26)
Sample slide do not display	Click the sample slide folder in the folder list. If the slides still do not appear, there might be a problem with the sample slide data on the hard disk. → Uninstall and then reinstall PictureGear (page 26)
Not able to communicate with external device	<ul> <li>Check the settings for each device.</li> <li>→ Confirm that the baud rate and serial port settings match (page 17, 20, 23)</li> <li>→ Momentarily disconnect the external device's connection cable, then reconnect it.</li> </ul>
Selecting Single-Image View in View menu does not display the slide any larger	Confirm that you have selected a slide in the List View to be viewed larger.
Movies do not play	The Movie Library version may be too old or not installed. → Install the Microsoft DirectX Media Runtime provided on the PictureGear CD-ROM (page 10)



Printed on recycled paper