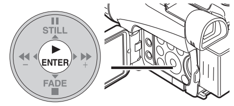
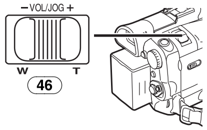
●The [1×▷] Indication appears.

17



2 Push the [−VOL/JOG+] Lever (46) to select a desired search speed.



The following 6 playback speeds are available for the Variable Speed Search Function in both the fast-forward and rewind directions:
1/5× (slow playback in SP Mode only), 1/3× (slow playback in LP Mode only), 1×, 2×, 5×, 10× and 20×.

●This function works by pressing the [VAR. SEARCH] and [T] or [W] Button on the Remote Controller. (-8-)

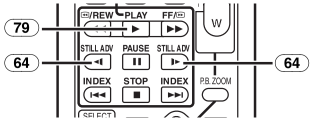
To Resume Normal Playback

Press the [▶] Button (17).

●During Cue or Review Playback, fast-moving images may show a noise like a mosaic.
●The sound is muted during search.

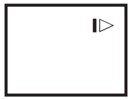
Slow Motion Playback

This Movie Camera can play back at a slow speed.



1 Press the [▶] Button (79).
2 Press the [◂❙] Button or [❙▸] Button (64) on the Remote Controller.

●The [◁❚] or [❚▷] Indication appears.



●When the [◂❙] Button is pressed, Slow Motion Playback proceeds in the reverse direction. When the [❙▸] Button is pressed, Slow Motion Playback proceeds in the forward direction.

Scenes recorded in the SP Mode are played back at approximately 1/5th of the normal speed.
Scenes recorded in the LP Mode are played back at approximately 1/3rd of the normal speed.

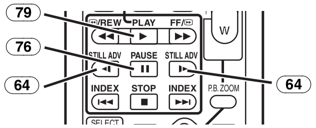
To Resume Normal Playback

Press the [▶] Button (79).

●If the Movie Camera is left in the Slow Playback Mode for more than 12 minutes, the Movie Camera switches to the Stop Mode to protect the video heads from excessive wear and tear.

Still Playback/Still Advance Playback

This Movie Camera is capable of still picture playback and frame-advance playback.



1 Press the [▶] Button (79).
2 Press the [❚❚] Button (76).

●The playback image stops in the Still Playback Mode.

3 Press the [◂❙] Button or [❙▸] Button (64) on the Remote Controller.

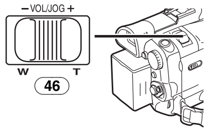
●With each press of the [◂❙] Button, still pictures advance in the reverse direction. With each press of the [❙▸] Button, still pictures advances in the forward direction. If one of the buttons continues to be pressed, still pictures advance continuously 1 frame at a time until the button is released.

To Resume Normal Playback

Press the [▶] Button (79).

■ Playback with Volume/Jog Lever

By pushing the [−VOL/JOG+] Lever (46) of the Movie Camera in the Still Playback Mode, still pictures can be advanced one frame at a time in the forward or backward direction.
If you keep pushing the Lever, still pictures advances continuously.



●If the Movie Camera is left in the Still Playback Mode for more than 6 minutes, the Movie Camera switches to the Stop Mode to protect the video heads from excessive wear and tear.

B

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F0204Re0(4000 Ⓐ)
C

Matsushita Electric Industrial Co., Ltd.
Web site: http://www.panasonic.co.jp/global/

To Change the Enlarging Area of an Image

3 Press the Arrow Button (▲, ◄, ►, ▼) (63) on the Remote Controller that points to the area you want to enlarge.

To Cancel the Playback Zoom Function

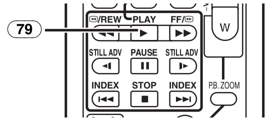
Press the [P.B. ZOOM] Button (81) on the Remote Controller.

- For other notes concerning this item, see -60-.

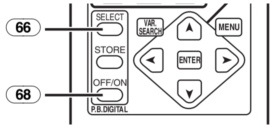
Playback Digital Effect Functions

During playback, special digital effects can be added to the recorded pictures. The same effects as those of Digital Effects 1 and 2, which are used during recording, are obtained.

1 Press the [►] Button (79).



2 Press the [SELECT] Button (66) on the Remote Controller to select a desired digital effect.



- When the [SELECT] Button is pressed repeatedly, the digital effect selection changes.
- The same setting can be done using [EFFECT SEL] Sub-Menu on the [TAPE PLAYBACK MENU].

To suspend Playback Digital Effect Temporarily

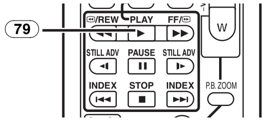
Press the [OFF/ON] Button (68) to suspend or restart the digital effect. When the digital effect is paused temporarily, the selected effect's indication flashes.

To Cancel the Digital Effect

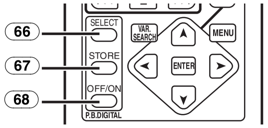
Press the [SELECT] Button (66) on the Remote Controller and clear the digital effect indication.

■ Wipe Mode and Mix Mode

1 Press the [►] Button (79).



2 Press the [SELECT] Button (66) on the Remote Controller and select [WIPE] or [MIX].



3 Press the [STORE] Button (67) at the moment you want to save as a still picture.

- The [WIPE] or [MIX] Indication appears, and the image is saved.

4 Press the [OFF/ON] Button (68) in the scene in which you want to use the Wipe or Mix effect.

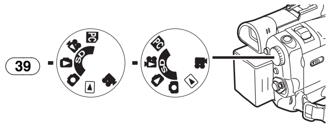
- The scene changes as a result of the Wipe or Mix effect.
- The Wipe Function and Mix Function can be used only from the Remote Controller during playback.
- If the [OFF/ON] Button (68) is pressed while Wipe or Mix is carried out, the effect will stop temporarily at that point. Pressing the [OFF/ON] Button (68) again will bring back the effect.

- For other notes concerning this item, see -61-.

Playing Back a Card

It plays back files recorded on a Card.

1 Set the Mode Dial (39) to Picture Playback Mode or MPEG4 Playback Mode. (MPEG4 Playback Mode on NV-GS200 Model only)



2 Start Playback.

[PICTURE]:

►: Starting the Slide Show
►►: Playing back the next picture
◄◄: Playing back the previous picture
■: Stop the Slide Show
❚❚: Pause the Slide Show

[MPEG4] (NV-GS200 only):

►: Playing back the File
►►: Selecting the next file (When you tap it during playback, you can search the next file, and when you keep pressing it, cue playback is activated.)
◄◄: Selecting the previous file (When you tap it during playback, you can search the beginning of the file, and when you keep pressing it, review playback is activated.)

Maximum number of still pictures recordable on an SD Memory Card (optional)

PICTURE SIZE	640×480			1760×1320 (NV-GS200)			1520×1152 (NV-GS120)		
PICTURE QUALITY	FINE	NORMAL	ECONOMY	FINE	NORMAL	ECONOMY	FINE	NORMAL	ECONOMY
8 MB	45	95	190	4	7	11	5	10	13
16 MB	100	200	400	10	18	26	14	24	31
32 MB	220	440	880	25	41	58	33	55	69
64 MB	440	880	1760	53	88	121	71	115	144
128 MB	880	1760	3520	111	180	248	146	235	294
256 MB	1760	3520	7040	223	362	496	294	471	590
512 MB	3520	7040	14080	452	732	1003	595	953	1191

- These figures vary depending on the subject being photographed.

Maximum recording time of MPEG4 moving picture on an SD Memory Card (optional) (NV-GS200 only)

PICTURE SIZE	320×240 (QVGA)		176×144 (QCIF)	
MPEG4 MODE	SUPERFINE	FINE	NORMAL	ECONOMY
8 MB	1min.	2min.	3min.	8min.
16 MB	2min.	4min.	8min.	18min.
32 MB	4min.	10min.	17min.	37min.
64 MB	8min.	20min.	35min.	1h15min.
128 MB	17min.	42min.	1h10min.	2h30min.
256 MB	35min.	1h25min.	2h20min.	5h.
512 MB	1h10min.	2h50min.	4h40min.	10h10min.

- Maximum Continuous Recording Time: Approximately 120 minutes
- "1h10min." indicates 1 hour and 10 minutes.
- The numbers shown in the table are approximations.
- These figures vary depending on the scene.

To Pause the Slide Show

Press the [❚❚] Button.

- The [SLIDE❚❚] Indication is displayed.

To Stop the Slide Show

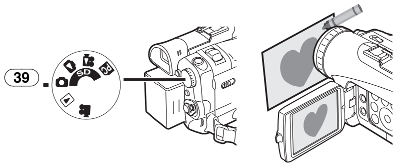
Press the [■] Button.

- For other notes concerning this item, see -61-.

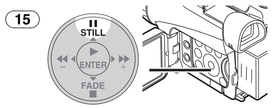
Creating a Title

You can create a title and record on a Card.

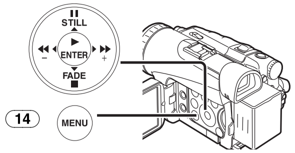
1 Recording Mode:
Set the Mode Dial (39) to Tape Recording Mode or Card Recording Mode.
Set the Lens to the image you want to use for creating a title.



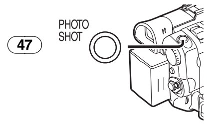
1 Tape Playback Mode:
Search for the image you want to use for creating a title and set the Movie Camera to the Still Playback Mode.



2 Set [CARD] >> [CREATE TITLE] >> [YES].



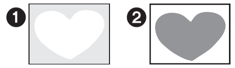
3 Press the [PHOTO SHOT] Button (47).



- The title is stored.
- To perform Photoshot again, select [RETURN].

4 Select [LUMINANCE] and press the [ENTER] Button (17), then press the [▶▶] Button (16) or [◀◀] Button (19) to adjust the title contrast and press the [ENTER] Button (17).

5 Press the [▶▶] Button (16) or [◀◀] Button (19) to adjust the colour and press the [ENTER] Button (17).



- The dark portion of the image is missing ❶, and the colours of the bright portion change in order of black, blue, green, cyan, red, magenta, yellow and white, after which the bright portion of the image is missing ❷ and the colours of the dark portion change in the above order.

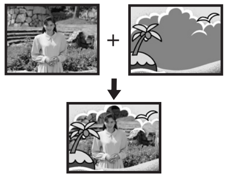
6 Select [RECORDING] and press the [ENTER] Button (17).

- The title is recorded on the Card.

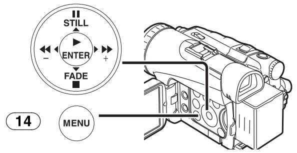
- For other notes concerning this item, see -61-.

Adding a Title

A title can be added to the picture. It is displayed in Tape/Card Recording Mode and Tape/Picture Playback Mode.



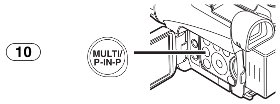
1 Set [DIGITAL] >> [TITLE IN] >> [ON].



2 Press the [MENU] Button (14).

- The title is displayed.

3 Press the [MULTI] Button (10).



Specifications

Specifications

Digital Video Camera
Information for your safety

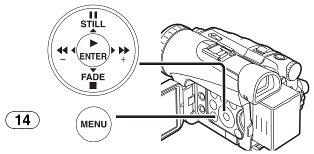
Power Source:
DC 7.9/7.2 V
Power Consumption:
Recording
(NV-GS200)
3.9 W (When using Viewfinder)
4.4 W (When using LCD Monitor)
(NV-GS120)
3.1 W (When using Viewfinder)
3.6 W (When using LCD Monitor)

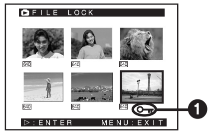
Recording Format:
Mini DV (Consumer-use Digital Video SD Format)
Tape Used:
6.35 mm digital video tape
Recording/Playback Time:
SP: 80 min.; LP: 120 min. (with DVM80)
Video
Recording System:
Digital Component
Television System:
CCIR: 625 lines, 50 fields PAL colour signal
Audio
Recording System:
PCM Digital Recording
16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)
Image Sensor:
1/6-inch 3CCD Image Sensor
(NV-GS200)
(Effective Pixels: moving picture/400 K×3, still picture/530 K×3, Total: 800 K×3)
(NV-GS120)
(Effective Pixels: 340 K×3, Total: 540 K×3)
Lens:
Auto Iris, F1.8, Focal Length; 2.45–24.5 mm, Macro (Full Range AF)
Filter Diameter:
37 mm
Zoom:
10:1 Power Zoom
Monitor:
2.5-inch LCD
Viewfinder:
Colour Electronic Viewfinder
Microphone:
Stereo (with a zoom function)
Speaker:
1 round speaker ∅ 20 mm
Standard Illumination:
1,400 lx
Minimum Required Illumination:
1 lx (Colour Night View Mode)
Video Output Level:
1.0 Vp-p, 75 ohm
S-Video Output Level:
Y Output: 1.0 Vp-p, 75 ohm
C Output: 0.3 Vp-p, 75 ohm
Audio Output Level (Line):
316 mV, 600 ohm
Video Input Level (NV-GS200 only):
1.0 Vp-p, 75 ohm
S-Video Input Level (NV-GS200 only):
Y Input: 1.0 Vp-p, 75 ohm
C Input: 0.3 Vp-p, 75 ohm
Audio Input Level (Line) (NV-GS200 only):
316 mV, 10 kohm or more
Mic Input:
Mic sensitivity –50 dB (0 dB=1 V/Pa, 1 kHz) (Stereo mini jack)
USB:
Card reader/writer function, USB 2.0 compliant (max. 12 Mbps)
No copyright protection support
PictBridge-compliant
Digital Interface:
DV Input/Output Terminal (IEEE1394, 4-pin)
Video Flash (NV-GS200 only):
GN 5.5
Dimensions:
Approx. 70 (W)×75 (H)×126 (D) mm
Weight:
(NV-GS200)
Approx. 470 g (without Battery, DV cassette and lens cap)
Approx. 570 g (with CGA-DU14, DVM60 and lens cap)
(NV-GS120)
Approx. 450 g (without Battery, DV cassette and lens cap)
Approx. 550 g (with VSB0471, DVM60 and lens cap)
Operating Temperature:
0°C–40°C
Operating Humidity:
10%–80%
Card Memory Functions
Recording Media:
MultiMediaCard (4 MB/8 MB/16 MB),
SD Memory Card (8 MB/16 MB/32 MB/64 MB/128 MB/256 MB/512 MB)
Still Picture Recording File Format:
JPEG (Design rule for Camera File system, based on Exif 2.2 standard), DPOF corresponding
Still Image Size:
Mega-Pixel Recording;
(NV-GS200) 1760×1320 (2.3 million pixels)
(NV-GS120) 1520×1152 (1.7 million pixels)
VGA Recording; 640×480
Video Compression (NV-GS200 only):
MPEG4
MPEG4 Image Size (NV-GS200 only):
SUPERFINE: 320×240 pixels (QVGA)
FINE: 320×240 pixels (QVGA)
NORMAL: 176×144 pixels (QCIF)
ECONOMY: 176×144 pixels (QCIF)
MPEG4 Transmission rate (NV-GS200 only):
SUPERFINE: approximately 1 Mbps, 12 fps
FINE: approximately 420 kbps, 12 fps
NORMAL: approximately 296 kbps, 12 fps
ECONOMY: approximately 100 kbps, 6 fps
WEB Camera
Compression:
Motion JPEG
Image Size:
320×240 pixels (QVGA)

Protecting the Files on a Card

(Lock Setting)
Precious files recorded on a Card can be locked to prevent accidental erasure. (Even if files are locked, the files will be deleted if the Card is formatted.)

1 Set [PICTURE/MPEG4 PLAYBACK MENU] >> [EDITING] >> [FILE LOCK] >> [YES]. ([MPEG4 PLAYBACK MENU] on NV-GS200 Model only)





2 Select the file to be locked, and press the [ENTER] Button (17).
- The selected file is locked and the [O–π] Indication ❶ appears. Repeat this procedure to lock 2 or more files.
- Press the [ENTER] Button (17) again to cancel.

- The SD Memory Card has a write protection switch. (-62-)

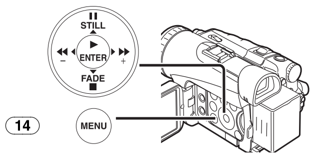
- For other notes concerning this item, see -62-.

Deleting the Files Recorded on a Card

Using the Movie Camera, you can delete the files recorded on a Card. After the file is deleted, it cannot be restored.

To Select and Delete Files or Titles

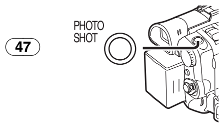
1 Set [PICTURE/MPEG4 PLAYBACK MENU] >> [DELETE] >> [FILE BY SEL] >> [YES]. ([MPEG4 PLAYBACK MENU] on NV-GS200 Model only)



- To erase a title in [PICTURE PLAYBACK MENU], select [TITLE BY SEL].

2 Select the file you wish to delete and press the [ENTER] Button (17).
- The selected picture is marked with a frame.
- To erase 2 files or more, repeat this step.

3 Press the [PHOTO SHOT] Button (47).

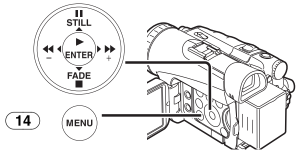


- A verification message appears.

4 Select [YES] and press the [ENTER] Button (17).
- The selected file is deleted from the Card.
- If [NO] is selected, the file selection is cancelled.

To Select and Delete All Files

1 Set [PICTURE/MPEG4 PLAYBACK MENU] >> [DELETE] >> [ALL FILES] >> [YES]. ([MPEG4 PLAYBACK MENU] on NV-GS200 Model only)



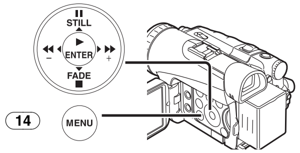
- A verification message appears.

2 Select [YES] and press the [ENTER] Button (17).
- All files of Picture/MPEG4 Playback Mode are erased.
- A locked file cannot be erased.
- If there are many files in a Card, it takes several minutes for deleting.

Formatting a Card

If a Card becomes unreadable by the Movie Camera, format it for reuse. Formatting erases all the data recorded on a Card.

1 Set [PICTURE/MPEG4 PLAYBACK MENU] >> [EDITING] >> [CARD FORMAT] >> [YES]. ([MPEG4 PLAYBACK MENU] on NV-GS200 Model only)



Playback (Pictures)

1: Pictures cannot be played back even when the [▶] Button is pressed.
- Is the Mode Dial set to Playback Mode? If not, the playback function cannot be used. (*-36-*)

2: Mosaic-pattern noise appears on images during Cue, Review or Slow Motion Playback.
- This phenomenon is characteristic of digital video systems. It is not a malfunction.

3: Although the Movie Camera is correctly connected to a TV, playback images cannot be seen.
- Have you selected "Video Input" on the TV? Please read the operating instructions of your TV and select the channel that matches the input sockets used for the connection.
- Depending on your TV, nothing may be shown even if you correctly connect the movie camera with your TV. In this case, set [AV JACK] to [OUT].

4: Playback picture is not clear.
- Are the heads of the Movie Camera dirty? If the heads are dirty, playback image cannot be clear. (*-64-*)

5: Playing back or recording do not function, the screen has frozen or the indication has disappeared.
- Turn the Movie Camera off. If the Movie Camera is not turned off after operating the [OFF/ON] switch, press the [RESET] Button (*-7-*) first. And detach the Battery or AC Adaptor and then reattach it.

Playback (Sound)

1: Sound is not played back from the built-in speaker of the Movie Camera or the headphones.
- Is the volume too low? During playback, push the [−VOL/JOG+] Lever to display the [VOLUME] Indication and adjust the volume. (*-36-*)

2: Different sounds are reproduced at the same time.
- [12bit AUDIO] on the [PLAYBACK] Sub-Menu of the [TAPE PLAYBACK MENU] has been set to [MIX]. As a result, the original sound and sound that was recorded by audio dubbing are played back together. It is possible to reproduce the sounds separately. (*-47-*)

3: The original sound was erased when audio dubbing was performed.
- If you perform audio dubbing on a recording made in [16bit] Mode, the original sound will be erased. If you wish to preserve the original sound, be sure to select [12bit] Mode at the time of recording.

4: Sounds cannot be played back.
- Although a Cassette with no audio dubbing is being played, is [12bit AUDIO] on the [PLAYBACK] Sub-Menu of the [TAPE PLAYBACK MENU] set to [ST2]? To play back a Cassette with no audio dubbing, [12bit AUDIO] must be set to [ST1]. (*-47-*)
- Is the Variable Speed Search Function working? Press the [▶] Button to cancel the Variable Speed Search Function. (*-36-*)

Card

1: Recorded pictures are not clear.
- Is [PICT QUALITY] on the [CARD] Sub-Menu set to [NORMAL] or [ECONOMY]? If recording is done with it set to [NORMAL] or [ECONOMY], images with fine details may include a mosaic-like pattern. Set [PICT QUALITY] to [FINE]. (*-23-*)

2: Photoshot Playback images do not look normal.
- The picture may be damaged. In order to prevent the loss of image data, backing up on a Cassette or a personal computer is recommended. (*-46-*, *-51-*)

3: During Playback, [UNPLAYABLE CARD] is displayed.
- The image was either recorded in a different format, or data is damaged.

4: Even if a Card is formatted, it cannot be used.
- Either the Movie Camera or the Card may be damaged. Please consult a dealer.

Others

1: The Free Style Remote Controller with Mic does not operate correctly.
- If it is not plugged in tightly, it will not operate correctly.

2: The Movie Camera clatters when shaking it.
- It is a sound of the lens moving, not a malfunction.

3: When the USB Cable is disconnected, an error message will appear on PC.
- To disconnect the USB cable safely, double-click the [ ] icon in the task tray and follow the instructions on the screen. (*-51-*)

Explanation of Terms

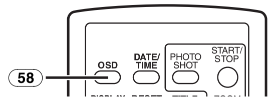
■ Digital Video System

In a digital video system, images and sounds are converted into digital signals and recorded on a tape. This complete digital recording is capable of recording and playback with minimal image and sound deterioration.

In addition, it automatically records data, such as Time Code and Date/Time, as digital signals.

To Make the Indications Appear on the TV Screen

Press the [OSD] Button (58) on the Remote Controller.



- If your TV is not equipped with AV Input Sockets, the 21-pin Adaptor (purchase separately) is necessary. Consult your dealer.

- For other notes concerning this item, see *-62-*.

- Store the Cassette in its case. Dust, direct sunlight (ultraviolet rays), or humidity may damage the tape. Dust contains hard mineral particles, and dusty Cassettes damage the heads of the Movie Camera and other components. Develop a habit of returning the Cassette back to its case.
- Once every half year, wind the tape to the end and then rewind it to the beginning. If the Cassette is left for 1 year or longer without winding or rewinding, temperature and humidity changes may cause the Cassette to deform due to swelling, shrinking, and so forth. The wound tape may stick to itself.
- Do not place a Cassette near highly magnetic substances or equipment.
- The surface of tape is covered with extremely minute magnetic particles, upon which signals are recorded. Magnetic necklaces, toys, etc., have magnetic force that is stronger than you may normally expect, and they may erase the contents of a recording or may cause noise in images and sounds.

Card
- When the Card is being read, do not remove the Card, turn off the power, or subject it to vibration or impact.
- Do not leave the Card in places where there is high temperature or direct sunlight, or where electromagnetic waves or static electricity are easily generated.
- Do not bend or drop the Card. The Card or the recorded content may be damaged.
- After use, be sure to remove the Card from the Movie Camera.
- After usage, store the supplied SD Memory Card in the enclosed bag.
- Do not touch the terminals on the back of the Card with your fingers. Do not allow dirt, dust or water to enter it.

LCD Monitor/Viewfinder/Lens Hood

LCD Monitor
- In a place with drastic temperature changes, condensation may form on the LCD Monitor. Wipe it with soft dry cloth.
- If your Movie Camera is extremely cold when you turn its power on, the image on the LCD Monitor is slightly darker than usual at first. However, as the internal temperature increases, it goes back to the normal brightness.

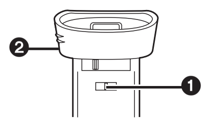
(NV-GS200)

Extremely high precision technology is employed to produce the LCD Monitor screen featuring a total of approximately 123,000 pixels. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

(NV-GS120)

Extremely high precision technology is employed to produce the LCD Monitor screen featuring a total of approximately 113,000 pixels. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

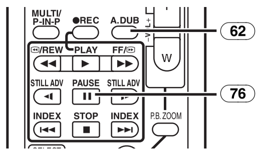
Viewfinder
- Do not direct the Viewfinder or Lens to the sun. Internal components may be seriously damaged.
- To clean the inside of the Viewfinder, keep pressing ❶ and hold the Eyecup ❷ and pull it out.



Extremely high precision technology is employed to produce the Viewfinder screen featuring a total of approximately 123,000 pixels. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

Lens Hood
- Attach the MC Protector (VW-LMC37E; optional) or the ND Filter (VW-LND37E; optional) on the Lens Hood.
- Do not attach anything other than the MC Protector (VW-LMC37E; optional) or the ND Filter (VW-LND37E; optional) on the Lens Hood.

3 Press the [❚❚] Button (76) on the Remote Controller where you want to add new sound.



4 Press the [A.DUB] Button (62) on the Remote Controller.

5 To start Audio Dubbing, press the [❚❚] Button (76) on the Remote Controller.

To Cancel Audio Dubbing

Press the [❚❚] Button (76) on the Remote Controller.
The Movie Camera is in the Still Playback Mode again.

To Play Back the Sound Recorded by 12bit Audio Dubbing

Set [TAPE PLAYBACK MENU] >> [PLAYBACK] >> [12bit AUDIO] >> [ST2] or [MIX].
ST1: It plays back only the original sound.
ST2: It plays back only the sound added by Audio Dubbing.
MIX: It plays back both the original sound and the sound added by Audio Dubbing simultaneously.

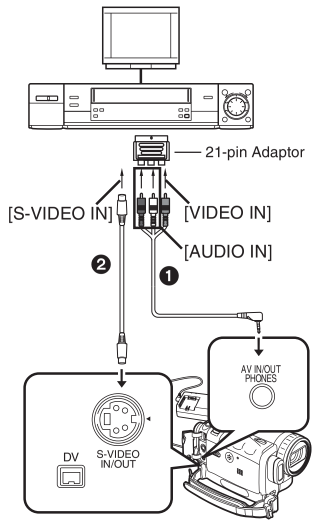
To Dub Audio While Listening to a Pre-recorded Sound

When pausing the audio dubbing, set the [12bit AUDIO] on the [PLAYBACK] Sub-Menu to [ST2] and you can check the pre-recorded sound. When a microphone is used for audio dubbing, use headphones to listen to the pre-recorded sound while dubbing the audio. (When using headphones, set [AV JACK] to [OUT/PHONES].) When the line input is used, you can dub audio while listening to the pre-recorded sound from the speaker.
(The line input is on NV-GS200 Model only.)

- For other notes concerning this item, see -62-.

Copying on an S-VHS (or a VHS) Cassette

(Dubbing)
After connecting the Movie Camera and the VCR as illustrated, start the following procedures.



❶ AV Cable
❷ S-Video Cable
- If your TV is not equipped with AV Input Sockets, the 21-pin Adaptor (purchase separately) is necessary. Consult your dealer.
- Be sure to press the [OSD] Button (-8-) on the Remote Controller prior to copying so that no indications are visible. Otherwise, the displayed tape counter and function indications are also copied.

Movie Camera:
1 Insert the recorded Cassette.
VCR:
2 Insert an unrecorded Cassette with an erasure prevention tab.
- If various setups (such as external input, tape speed, etc.) are required, please refer to the operating instructions of your VCR.

Movie Camera:
3 Press the [▶] Button to start playback.
VCR:
4 Start recording.
5 Press the Pause or Stop Button to stop recording.
Movie Camera:
6 Press the [■] Button to stop playback.

- Before cleaning, detach the Battery or pull out the AC Mains Lead from the AC mains socket.
- Wipe the Movie Camera with a soft dry cloth. To remove stubborn stains, wipe with a cloth that is soaked in a detergent diluted with water and afterwards finish wiping with a dry cloth.
- For storing or transporting the Movie Camera, place it in a bag or case lined with soft pads so as to prevent the coating on the camera body from being worn.

After use, be sure to take the Cassette out and detach the Battery from the Movie Camera or pull out the AC Mains Lead from AC mains socket.

- If the Cassette is left in the Movie Camera, the tape sags and deteriorates.
- If the Battery is left on the Movie Camera for a long time, the voltage drops excessively, and the Battery will not function even after it is recharged.

About AC Adaptor

- If the temperature of the Battery is extremely high or extremely low, the [CHARGE] Lamp may continue flashing, and the Battery may not be charged. After the temperature of the Battery has decreased or increased sufficiently, charging starts automatically. If the [CHARGE] Lamp continues to flash even after the Battery temperature has decreased or increased sufficiently, the Battery or AC Adaptor may be faulty. In this case, please contact a dealer.
- If the Battery is warm, charging takes a longer time than normal.
- If you use the AC Adaptor near a radio, radio reception may be disturbed. Keep the AC Adaptor 1 metre or more away from radio.
- When using the AC Adaptor, it may generate whirring sounds. However, this is normal.
- After use, be sure to pull out the AC Mains Lead from the AC mains socket. (If they are left connected, a minute amount of current is consumed.)
- Keep the electrodes of the AC Adaptor and Battery always clean.

Condensation

If you turn the Movie Camera on when condensation occurs on the head or the tape, Condensation Indication [DEW] (yellow or red) blinks on the Viewfinder or the LCD monitor and the messages [DEW DETECT] or [EJECT TAPE] (only when the tape is inserted) appear. In this case, follow the procedure below.

Blink in yellow:
Dews are slightly adhering on the head or the tape.

Blink in red:
Dews are adhere on the head or the tape.

1 **Remove the tape if it is inserted.**
- It takes about 20 seconds to open the Cassette Holder. This is not a malfunction.

2 **Leave the Movie Camera with the Cassette Compartment Cover closed to cool or warm it to the ambient temperature.**

When [DEW] blinks in yellow
- You cannot use the Tape Recording/Playback Mode. Leave the Movie Camera for about 30 minutes.
- However, you can use the Card Recording Mode or Picture/MPEG4 Playback Mode when the cassette is not inserted. (MPEG4 Playback Mode on NV-GS200 Model only)

When [DEW] blinks in red
- The Power Indicator Lamp blinks for about 1 minute and then the Movie Camera automatically turns off. Leave it for about 2 to 3 hours.

3 **Turn the Movie Camera on again, set it to the Tape Recording/Playback Mode and then check if the condensation indication disappears.**

Especially in cold districts, dews may be frozen. In this case, it may take more time before the condensation indication disappears.

Watch for Condensation even before the Condensation Indication is displayed.
- The condensation indication may not appear depending on circumstances. When condensation occurs on the lens or the Movie Camera, it also may occur on the head and the tape. Do not open the Cassette Compartment Cover.

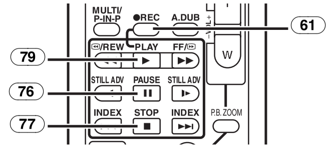
When the Lens is Fogged:
Set the [OFF/ON] Switch to [OFF] and leave the Movie Camera in this condition for about 1 hour. When the lens temperature becomes close to the ambient temperature, the fogging disappears naturally.

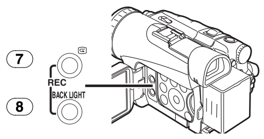
Video Head Clogging and Care

If the heads (the parts that make contact with the tape) are dirty, mosaic-pattern noise may appear on the playback image, or the screen as a whole becomes black. If the heads are extremely dirty, recording performance deteriorates, and, in the worst case, the Movie Camera cannot record at all.

Causes of Dirty Heads
- Large quantity of dust in the air
- High-temperature and high-humidity environment
- Damaged tape
- Long operating hours

Player:
2 **Press the [▶] Button (79) to start playback.**





Recorder:
3 **While pressing the [●REC] Button (61), press the [▶] Button (79) on the Remote Controller.**
Or while pressing the [REC] Button (7), press the [BACK LIGHT] Button (8) on the Movie Camera.
- Recording starts.

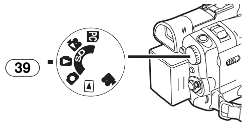
To Stop Dubbing
Press the [❚❚] Button (76) or the [■] Button (77).

- For other notes concerning this item, see *-63-*.

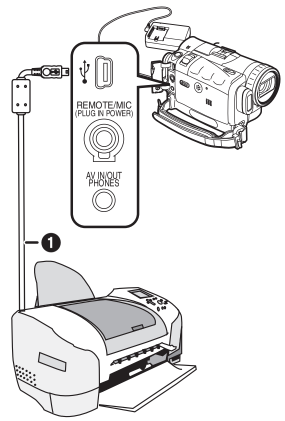
Printing pictures with directly connecting to the printer (PictBridge)

After connecting the Movie Camera and the printer compatible with PictBridge, start the following procedures.
- To print pictures with directly connecting the Movie Camera to the printer, prepare the printer compatible with PictBridge. (Also read the operating instructions of the printer.)
- You cannot print images which cannot be played on the Movie Camera.
- Check the settings about the paper size, quality of print, etc. on the printer.
- We recommend using the AC Adapter as the power source.

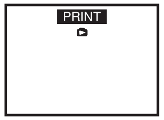
1 **Set the Mode Dial (39) to Picture Playback Mode.**



2 **Connect the printer with the supplied USB Cable.**



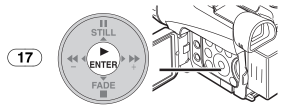
❶ USB Cable



- The [PRINT] Indication appears on the screen of the Movie Camera.
  Highlighted: Printable
  Blinking: Printer is being recognized.

- The [PRINT] Indication does not appear when the card is not inserted in the Movie Camera. (You cannot print pictures.)
- When the [PRINT] Indication keeps blinking (more than about 1 minute), the Movie Camera and the printer are not connected properly. Connect the cable again or check the printer.
- When the Movie Camera and the printer is connected in the Tape Recording/Playback Mode, the [WEB] or the [WEB] Indication may appear on the LCD Monitor. However, images cannot be printed.

3 **Select the desired picture and press the [ENTER] Button (17).**



- Images cannot be printed when they are displayed in Multi-screen.

Adding a Title
- When setting to MPEG4 Playback Mode, Title In Function is not possible. (NV-GS200 only)
- Original titles are added after the preset titles.
- The Title In Function and Digital Effects cannot be used simultaneously.
- The Title In Function and Continuous Photoshot cannot be used simultaneously.
- When a title is displayed in Tape Playback Mode, the title is not output from the DV Terminal.
- The Multi-Picture Mode cannot be used once the title is inserted.
- A full-coloured title made on other equipment cannot be played back or added to the picture with this Movie Camera.
- A title with size of other than 640×480 cannot be displayed.
- When recording MPEG4 moving pictures is in progress, Title in Function cannot be used. (NV-GS200 only)
- When the title is displayed on the Multi-screen, the recording and the playback cannot be performed.
- During external input or DV input, you cannot use Title In Function or display titles on the Multi screen. Select the desired titles to display them on the screen before connecting the cable to the Movie Camera.

DPOF
- Perform the DPOF Settings with your own Movie Camera in use.
- Verifying the DPOF Settings may take a little time. Wait until the [ACCESS] Lamp goes out.

Lock Setting
- The Lock Setting carried out by this Movie Camera is only effective for this Movie Camera.
- The SD Memory Card has a write protection switch on it. If the switch is moved to the [LOCK] side, you cannot write to or format the Card. If it is moved back, you can.
- The MPEG4 data recorded by another Movie Camera may not be able to cancel the lock setting. (NV-GS200 only)

Playing Back on Your TV
- Depending on your TV, nothing may be shown even if you correctly connect the Movie Camera with your TV. In this case, set [AV JACK] on the [AV IN/OUT] or [INITIAL] Sub-Menu to [OUT].
- If you set [AV JACK] on the [AV IN/OUT] Sub-Menu to [IN/OUT], nothing will be shown on the TV screen except during playback. (NV-GS200 only)
- Picture size may be displayed differently when playing back a Cinema picture on a wide-screen TV with Playback Digital Effect.
- We recommend you to set [SCREEN] on the [DISPLAY] Sub-Menu to [NORMAL] when playing back MPEG4 on TV. (NV-GS200 only)

Recording Pictures from a Card onto a Tape
- When recording the Card Image on a Tape, its size is transformed into 720×576 according to the DV format.
- If you attempt to record a still picture with a large image size on a Tape, there may be a reduction in the quality of the image.
- The MPEG4 data cannot be recorded on a Tape. (NV-GS200 only)

Audio Dubbing
- The blank section of a tape cannot be dubbed.
- Sounds sent through the DV Terminal cannot be dubbed.
- If a tape has a non-recorded portion when the tape is dubbed, images and sounds may be disturbed when this portion of the tape is played back.
- If you set the tape counter back to 0 at the position where you want to stop Audio Dubbing so as to make it possible to use the Memory Stop Function (-69-), Audio Dubbing is terminated automatically when the tape reaches this position.
- In the case of importing data recorded with Audio Dubbing to a PC using the PC's software, only the original sound (ST1) may be imported, depending on the software.

Recording the Contents of Other Equipment
- You cannot record on a tape when MPEG4 recording from external input signals is in progress. (NV-GS200 only)
- You cannot record on a card when recording on a tape from external input signals is in progress.

Recording to a Card

If you set the Mode Dial to Card Recording Mode, you can use the Photoshot function for external input signals.
- Black streaks may appear at the 4 edges of the image.

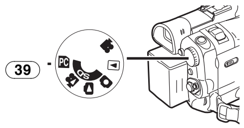
Analog-Digital Conversion (NV-GS200 only)
- When the Movie Camera is connected with other digital video equipment through its DV Terminal, images recorded in analog form from other external equipment can be output to the digital video equipment through the DV Terminal.

With a PC

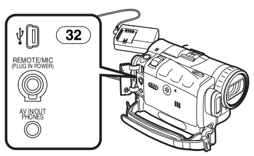
USB Connection Kit

Using the supplied USB Connection Kit, you can import still pictures onto your personal computer.
- Do not connect the USB Cable until the USB driver is installed.

1 **Install the supplied USB driver.**
2 **Set the Mode Dial (39) to PC Mode.**



3 **Connect the supplied USB Cable to [ψ] Socket (32).**
- PC connection mode is activated.

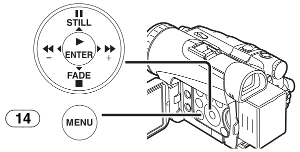


- The USB Connection Kit can be used with Windows98 Second Edition/Me/XP.
- Use AC Adaptor as power source for the Movie Camera. (The Card or its contents may be destroyed if battery power is lost while transmitting data.)
- Mode cannot be changed in PC connection mode by operating Mode Dial.
- For more details on the operating environment, installation, connections, and procedures, please refer to USB Connection Kit's operating instructions.
- To disconnect the USB Cable safely, double-click the [ ] Icon in the task tray and follow the instructions on the screen.

Using as a Web Camera or with DV STUDIO

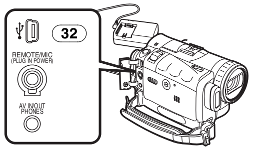
If the Movie Camera is connected to your Personal Computer, you can send video and sound from the Movie Camera to other parties via the network.
- Do not connect the USB Cable until the USB driver or Web Camera driver is installed.

1 **Install the supplied USB driver or Web Camera driver.**
2 **Set the Mode Dial to Tape Recording Mode or Tape Playback Mode.**
3 **When using as a Web Camera: Set [CAMERA] or [PLAYBACK] >> [USB FUNCTION] >> [WEB CAMERA]. When using with DV STUDIO: Set [CAMERA] or [PLAYBACK] >> [USB FUNCTION] >> [DV STUDIO].**



- It enters WEB CAMERA Mode or DV STUDIO Mode.

4 **Connect the supplied USB Cable to [ψ] Socket (32).**



5 **Start the Windows Messenger or DV STUDIO.**
- When using as a web camera, it is not possible to record on a tape or a card or display a title.
- You cannot output the video input from the DV terminal to the display of the PC.
- For more details on the operating environment, installation, connections, and procedures, please refer to USB Connection Kit's operating instructions.

Using a Card in a Personal Computer

When using Card Data recorded with this Movie Camera, please note the following points.
- To erase pictures that you recorded on the Card by using the Movie Camera, be sure to erase them on the Movie Camera, not on the computer.
- Using the optional DV Editing Software (Motion DV STUDIO) for Windows (VW-DTM40/41), a variety of visual effects can be added and titles can be created.
- You may not be able to properly play back or search the images on the Movie Camera after editing the recorded data or changing the image data on a personal computer.
- The image data files recorded on the Card with this Movie Camera conform to the DCF (Design rule for Camera File system) stipulated by JEITA (Japan Electronics and Information Technology Industries Association).

- When the [ϟ], [ϟ+] or [ϟ−] Indication is displayed, the Video Flash can be lighted. (When flashing in white, the Video Flash is charging.)
- Charging the Video Flash takes 4 seconds maximum after lighting.
- When the [P-IN-P] Button is pressed or Title is created, Video Flash is also lighted.
- When the [FLASH] on the [CAMERA] Sub-Menu is set to [AUTO] and the Shutter Speed, Iris or Gain is adjusted, the Indication (either [ϟ], [ϟ+] or [ϟ−]) may disappear and the Video Flash may not be lighted.

Red Eye Reduction Function

- Even if the [RED EYE] is set to [ON], you still may get red eyes phenomenon depending on the recording condition.
- This function cannot be set without attaching Video Flash VW-FLH3E (optional) or other accessories. (NV-GS120 only)

Using the Video Flash VW-FLH3E (optional)

- When using the Video Flash VW-FLH3E (optional), [ϟ] Indication appears.
- Using the Video Flash outdoors or with backlight or other bright conditions may result in white blotches (colour blotches) on the pictures. In this case, either adjust the iris manually or use the Backlight Compensation Function.
- The available range is approximately 1 to 4 metres.
- The Video Flash VW-FLH3E (optional) and the Built-in Video Flash cannot be used simultaneously. (NV-GS200 only)
- When using the Video Flash VW-FLH3E (optional), the shutter speed, the iris and the white balance become fixed.

Digital Effect Functions

- If you have set [EFFECT2] to [B/W] or [SEPIA], changing the selected White Balance Mode is not possible. (*-29-*)
- Setting the Cinema Mode cancels the Picture-in-Picture Mode and the Multi-Picture Mode.
- During the Digital Still Picture Mode, the Digital Effect Functions cannot be set.

In the following cases, using the [EFFECT1] on the [DIGITAL] Sub-Menu is not possible.

- When the Night View Mode is set (*-28-*)

In the following cases, using the Digital Effect Function is not possible.

- Title In

Picture-in-Picture Mode

- If Mode Dial is operated, the smaller picture disappears.
- Titles cannot be inserted into the smaller picture.

Multi-Picture Mode

- If the [MULTI] Button is pressed while self-recording Mirror Mode (*-25-*) is used, the still picture is displayed from the upper right corner of the screen, but, in reality, the picture is recorded from the upper left corner as usual.
- The quality of Multi images deteriorates slightly.
- The top and bottom of the Multi pictures will be cut off slightly.

Wipe Mode and Mix Mode

If the following operation is carried out, stored images will be erased, and Wipe and Mix Functions cannot be used.

- Set other item of Digital Effect
- Operate the [OFF/ON] switch or Mode Dial
- Insert or eject a cassette

Playing Back

Repeat Playback

If you continue to press the [▶] Button for 5 seconds or longer, the Movie Camera switches to Repeat Playback Mode, and the [R ▷] Indication appears. (To cancel Repeat Playback Mode, set the [OFF/ON] Switch to [OFF].)

Listening to Playback Sound through Headphones

If you want to use the headphones to listen to the playback sound, set [AV JACK] to [OUT/PHONES] and connect the headphones to the [PHONES] Socket (*-7-*) on the Movie Camera. In this case, no sound (including warning and shutter sounds) will be reproduced through the built-in speaker of the Movie Camera.

Choosing Sound during Playback

You can select the sound by using the [AUDIO OUT] setting on the [PLAYBACK] Sub-Menu.

STEREO: Stereo Sound (main sound and sub sound)
L: Left channel sound (main sound)
R: Right channel sound (sub sound)

- If you dub a tape recorded at the [12bit] selected as the [AUDIO REC] on the [RECORDING] Sub-Menu, playback sound becomes stereo sound regardless of the [AUDIO OUT] setting if [12bit AUDIO] is set to [MIX].

Index Search Functions

- Index Search may not be possible at the beginning of the tape.
- Scene Index Search may not function properly if the interval between 2 scene index signals is less than 1 minute.

Playback Zoom Function

- You cannot adjust the sound volume with the Remote Controller in Playback Zoom Mode.

Others

Indications

Various functions and the Movie Camera status are shown on the screen.

: Remaining Battery Power

- When the battery power becomes low, the Indication changes. When the battery is discharged completely, the ( ) Indication flashes.

R0:45: Remaining Tape Time

- Remaining tape time is indicated in minutes. (When it reaches less than 3 minutes, the indication starts flashing.)

: Tape Recording Mode *-21-*
: Tape Playback Mode *-36-*
: Card Recording Mode *-23-*
: Picture Playback Mode *-39-*
: MPEG4 Playback Mode (NV-GS200 only) *-39-*
: PC Mode *-51-*
CINEMA: Cinema Mode *-29-*
D.ZOOM: Digital Zoom *-26-*
MULTI: Multi Mode *-33-*
P-IN-P: P-IN-P Mode *-33-*
WIPE: Wipe Mode *-33-*
MIX: Mix Mode *-33-*
STROBE: Strobe Mode *-34-*
TRAIL: Trailing Effect Mode *-34-*
MOSAIC: Mosaic Mode *-34-*
MIRROR: Mirror Mode *-34-*
STRETCH: Stretch Mode *-34-*
SLIM: Slim Mode *-34-*
NEGA: Negative Mode *-34-*
SEPIA: Sepia Mode *-34-*
B/W: Black & White Mode *-34-*
SOLARI: Solarisation Mode *-34-*
(PB) ZOOM: Playback Zoom *-38-*
SP: Standard Play Mode (Recording Speed Mode) *-20-*
LP: Long Play Mode (Recording Speed Mode) *-20-*
INDEX: Index signal recording *-38-*
S 1: Search Number *-38-*
5×: Zoom Magnification Indication *-26-*
AUTO: Automatic Mode *-21-*
MNL: Manual Mode *-29-*
: Image Stabilizer *-27-*
MIC, AV IN: Audio Dubbing Input Display *-46-*
12 bit, 16 bit: Audio Recording Mode *-20-*
MF: Manual Focus *-32-*
: Back Light Mode *-28-*
: Sports Mode (Programme AE) *-29-*
: Portrait Mode (Programme AE) *-29-*
: Low Light Mode (Programme AE) *-29-*
: Spotlight Mode (Programme AE) *-29-*
: Surf & Snow Mode (Programme AE) *-29-*
REC: Recording *-21-*
PAUSE: Recording Pause *-21-*
: Self-Timer Recording *-25-*
: When connecting the Free Style Remote Controller with Mic to [REMOTE] Socket and the [TALK] Button is pressed, this indication appears. *-22-*
: External microphone supporting the Smart Accessory Shoe *-6-*
LOW CUT: External microphone supporting the Smart Accessory Shoe (LOW CUT) *-17-*
▷: Playback *-36-*
❚❚: Still Playback *-37-*
▷▷: Fast-forward/Cue Playback *-36-*
◁◁: Rewind/Review Playback *-36-*
◁❚, ❚▷: Slow Motion Playback *-37-*
◁❚❚, ❚❚▷: Still Advance Playback *-37-*
|◁◁, ▷▷|: Index Search *-38-*
CHK: Recording Check *-21-*
A.DUB ▷: Audio Dubbing *-46-*
A.DUB ❚❚: Audio Dubbing Pause *-46-*
BLANK: Blank Search *-22-*
R ▷: Repeat Playback *-60-*
2× ▷▷: Variable Speed Search *-37-*
1/500: When you adjust shutter speed manually, this indication appears. *-31-*
SLIDE▷: Slide Show Playback *-40-*
SLIDE❚❚: Slide Show Playback Pause *-41-*
F2.4: When you adjust the F Number manually, this indication appears. *-32-*
: White Balance Adjustment Mode *-30-*
: Outdoor Mode *-30-*
: Indoor Mode (recording under incandescent lamp) *-30-*
C.NIGHT VIEW: Colour Night View Function *-28-*
0LUX NIGHT VIEW: 0 Lux Night View Function *-28-*
Z.MIC: Zoom Microphone *-26-*
WIND CUT: Wind Noise Reduction *-28-*
P: Progressive Photoshot Mode *-22-*
T.MACRO: Tele Macro *-26-*
SOFT SKIN: Soft Skin Mode *-28-*
PICTURE: Picture *-39-*
TITLE: Title picture *-41-*

Zoom In/Out Functions
- When you are zooming on a faraway subject, a sharper focus is achieved if the recording subject is 1.2 metres or further from the Movie Camera.

Tele-Macro Function
- The Tele-Macro Function cannot be started during recording.
- When the [D.ZOOM] is set to [20×] or [500×], the Tele-Macro Function with the magnification greater than 10× is available.
- If a sharper focus cannot be achieved, adjust the focus manually.

In the following cases, the Tele-Macro Function is cancelled.
- The zoom magnification becomes lower than 10×.
- Setting the [OFF/ON] Switch to [OFF].

Zoom Microphone Function
- The Zoom Microphone Function may not work effectively if the surrounding noise is too loud.
- It does not work with an external microphone.

Digital Zoom Functions
- As the magnification of digital zoom increases, the quality of image may deteriorate.
- White balance cannot be set in the digital zoom range.

Image Stabilizer Function
- The Image Stabilizer Function does not operate in a dimly lit place. In this case, the [ ] Indication flashes.
- Under fluorescent lighting, image brightness may change or colours may not look natural.
- After-images may appear.
- When a tripod is used, it is recommended that you turn the Image Stabilizer off.
- Within the digital zoom range, or when recording with a conversion lens attached, the Image Stabilizer Function may not work effectively.

Backlight Compensation Function
- When setting the Iris manually, the Backlight Compensation Function does not work.
- By operating the [OFF/ON] Switch, the Backlight Compensation Function is cancelled.

Night View Functions
- In a bright place, such as outdoors, the recorded picture may become whitish.
- In a dark place, the recorded picture is presented in a time-lapse-like manner.
- Adjust the Focus manually.
- The Progressive Photoshot Function is automatically turned off.
- In the Card Recording Mode, using the Night View Functions are not possible.
- When using the Night View Function, you cannot use the Built-in Video Flash. (NV-GS200 only)
- White Balance cannot be set.
- The shutter speed cannot be adjusted.
- The Image Stabilizer, Programme AE or Digital Effect Modes in [EFFECT1] cannot be set.
- When recording with the Night View Function, it is recommended that you use the tripod.
- The Night View Function makes the signal charging time of CCD up to 25 times longer than usual, so that the dark scenes that are invisible to the naked eyes can be recorded brightly. For this reason, a bright dots may be seen, but this is not a malfunction.
- The Image Stabilizer Function does not work. In this case, the [ ] Indication flashes.
- The Soft Skin Function and the Backlight Compensation Function cannot be changed.

Wind Noise Reduction Function
- It does not work with the microphone on the Free Style Remote Controller with Mic nor an external microphone.
- When it is set to [ON], directivity of microphone is regulated depending on the strength of wind to reduce wind noise.

Cinema Function
- Using the Cinema Mode does not widen the recording angle.
- If you play back tape recorded in Cinema Mode on a wide-screen (16:9) format TV, playback size is automatically adjusted to fit the TV screen format. Please refer to the TV's operating instructions for details.
- When images are displayed on a TV screen, the Date/Time Indication may be erased in some cases.
- Depending on the TV, the picture quality may be deteriorated.
- The Cinema Mode is cancelled when a Title is displayed.
- The Cinema Mode and the Title Creation cannot be used simultaneously.
- Using the Cinema Mode deactivates [MULTI] and [P-IN-P] of [EFFECT1].
- Depending on the software in use, the imported Cinema picture may not be displayed correctly.

Programme AE
- If any of the Programme AE Modes are selected, you cannot adjust the shutter speed (-31-) or iris (-32-).
- Using the Night View Function cancells any of the Programme AE Mode.

Sports Mode
- During normal playback, the image movement may not look smooth.

Warning/Alarm Indications
If any one of the following indications lights up or flashes, please check the condition of the Movie Camera.

DEW (DEW DETECT/EJECT TAPE):
Condensation has occurred. -64-

(CHECK REC TAB/TAPE NOT INSERTED):
You are attempting to record pictures on a Tape with setting the accidental erasure prevention slider to [SAVE].
You are attempting Audio dubbing or Digital dubbing on a Tape with setting the accidental erasure previntion slider to [SAVE].
No Cassette is inserted. -13-

(LOW BATTERY):
The Battery is low. Recharge it. -10-

: The built-in battery is low. -20-

(NEED HEAD CLEANING):
The video heads are dirty. -64-

END (TAPE END):
The Tape came to the end during recording.

REMOTE (CHECK REMOTE MODE):
Wrong Remote Controller Mode has been selected. -9-

UNPLAYABLE TAPE (OTHER FORMAT):
You are attempting to play back a tape section that has been recorded with a different TV system.

UNABLE TO A. DUB (LP RECORDED):
Because the original recording was done in LP Mode, audio dubbing cannot be performed.

INCOMPATIBLE TAPE:
This cassette is incompatible.

PUSH THE RESET SWITCH:
An irregularity in the mechanism has been detected. Press the [RESET] Button (-7-). This may solve the problem.

CARD FULL:
Card does not have sufficient memory remaining.
Select Picture/MPEG4 Playback Mode and delete unnecessary files. (MPEG4 Playback Mode on NV-GS200 only)

NO CARD:
Card is not inserted.

NO DATA:
There is no recorded files in the Card.

UNPLAYABLE CARD:
You are attempting to play back a data which is not compatible with this Movie Camera.

CARD ERROR:
This Card is not compatible with this Movie Camera.

COPY INHIBITED:
Because the medium is protected by a copy guard, images cannot be recorded correctly.

INCORRECT OPERATION:
The Recording Start/Stop Button is pressed without connecting the USB cable to the PC in Picture Playback Mode.

CHECK CARD (NV-GS200 only):
You are attempting to record MPEG4 moving pictures recorded in [SUPERFINE] on MultiMediaCard. Use SD Memory Card.

CAN NOT USE USB
CHANGE MODE:
The USB cable is connected to the Movie Camera in Card Recording Mode or MPEG4 Playback Mode. (MPEG4 Playback Mode on NV-GS200 Model only)

CAN NOT OPERATE:
You are attempting to record pictures on a Card with connecting the USB cable to the Movie Camera in Tape Recording/Playback Mode.

UNABLE TO WRITE
(MULTI RECORDING):
The [PHOTO SHOT] Button is pressed when you are recording pictures on a Tape with setting the Digital Effect [MULTI] of [EFFECT1].

UNABLE TO WRITE
(MPEG4 RECORDING) (NV-GS200 only):
The [PHOTO SHOT] Button is pressed when you are recording MPEG4 moving pictures.
You are attempting to record on a tape when MPEG4 Recording from external input signals is in progress.

UNABLE TO WRITE:
The Recording Start/Stop Button is pressed when you are recording still pictures on the Card.
The [PHOTO SHOT] Button is pressed when you are recording on a Tape with insering a Title.

CASSETTE DOOR OPENED:
Close the Cassette Compartment Cover before recording.

NO TITLE:
Titles are not recorded.

UNABLE TO INSERT TITLE:
You are attempting to do Title In Function when MPEG4 Recording is in progress or Continuous Photoshot Function is set. (MPEG4 Recording on NV-GS200 Model only)