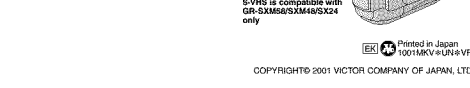


COMPACT VHS CAMCORDER JVC GR-SXM58 GR-SXM48 GR-FXM38 GR-SX24 GR-FX14



Dear Customer, Thank you for purchasing this JVC Compact VHS camcorder. Before use, please read the PRECAUTIONS (pp. 3, 4) to ensure safe use of this product.

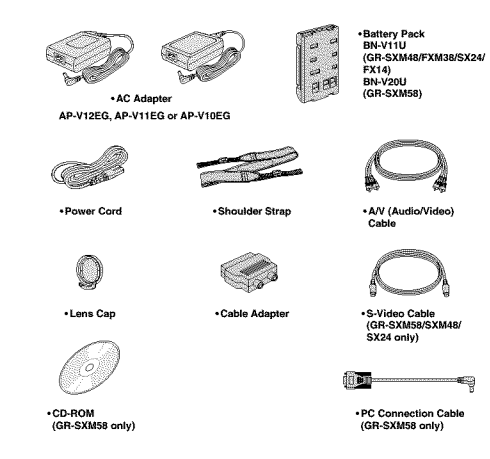
AUTOMATIC DEMONSTRATION

Automatic Demonstration takes place when "DEMO MODE" is set to "ON" (factory preset). Available when the Power Switch is set to "O" or "M".

INDEX

Table listing various functions and their corresponding page numbers, including AC Adapter, Battery Pack, Charging the Battery Pack, Controls, and Playback.

PROVIDED ACCESSORIES



NOTE: In order to maintain optimum performance of the camcorder, provided cables may be equipped with one or more core filter. If a cable has only one core filter, the end that is closest to the filter should be connected to the camcorder.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.

USING THE BATTERY PACK

Table showing approximate recording time in minutes for different video formats and LCD monitor on/off states.

USING AC POWER: Connect the AC Adapter to the camcorder and step 3) of "CHARGING THE BATTERY PACK".

CHARGING THE BATTERY PACK

1) Hook the end of the battery pack to the camcorder and push the battery in until it locks in place. 2) Set the Power Switch to "OFF".

SAFETY PRECAUTIONS

IMPORTANT: Connection to the mains supply in the United Kingdom. Do NOT cut off the mains plug from this equipment. The plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point.

CAUTIONS: To avoid electric shock or damage to the unit, first firmly insert the small end of the power cord into the AC Adapter until it is no longer wobbly.

Crossed Out Dust Bin Mark: The Crossed Out Dust Bin Mark on the battery pack indicates that the product complies with Directives 91/157/EEC and 93/86/EEC.

CAUTIONS: To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.

CASETTES MARKED SVHS58 AND SVHS48 CAN BE USED WITH THIS CAMCORDER.

However, S-VHS recordings are possible only with cassettes marked SVHS48. GR-SXM58/SXM48/SX24 only.

When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear). Do not block the ventilation holes.

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

- DO read the operating instructions before you attempt to use the equipment. DO NOT continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way.

GRIP ADJUSTMENT

1) Separate the Velcro strip. 2) Pass your right hand through the loop and grasp the grip. 3) Adjust so that your thumb and fingers can easily operate the Recording Start/Stop Button and Power Zoom Lever.

TRIPOD MOUNTING

Align the screw and camera direction stud on the tripod with the tripod mounting socket. Then tighten the screw.

VIEWFINDER ADJUSTMENT

1) Set the Power Switch to "O" or "M". 2) Turn the Diopter Adjustment Control until the indications in the viewfinder are clearly focused.

LOADING/UNLOADING A CASSETTE

1) Open the LCD monitor fully. Slide EJECT until the cassette holder opens. Do not use force to open.

SHOULDER STRAP ATTACHMENT

Thread the strap through the eyelet, then fold it back and thread it through the buckle. Repeat the procedure to attach the other end of the strap to the other eyelet.

CONTROLS, CONNECTORS AND INDICATORS

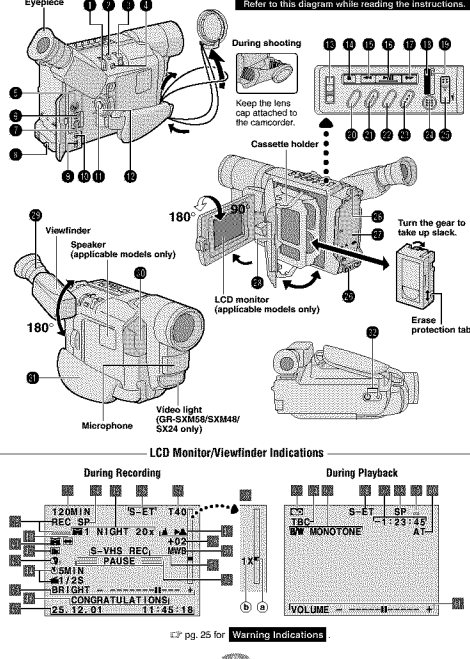


Fig. 25 for Warning Indications

RECORDING

Set REC MODE, S-VHS (S-VHS ET)*, TAPE LENGTH and DATE/TIME in SYSTEM MENU (pp. 18-22, MENU SETTINGS).

1) Remove the lens cap. Set the Power Switch to "O" or "M". 2) Press the MENU Wheel in. The Menu Screen appears.

SHOOTING WHILE USING THE VIEWFINDER: Make sure the LCD monitor is closed and locked. Shooting while using the LCD monitor: Make sure the LCD monitor is fully open.

2) Press the Recording Start/Stop Button. The camcorder enters the Record-Standby mode and "PAUSE" is displayed.

FOR VIDEO RECORDING/VIDEO PLAYBACK: The camcorder shuts off automatically after about 5 minutes in the Record-Standby or Stop mode.

TO ADJUST THE BRIGHTNESS OF THE LCD MONITOR: Rotate the BRIGHT Wheel until the bright level indicator on the display screen and the appropriate brightness is reached.

APPLICABLE MODELS ONLY: GR-SXM58/SXM48/SX24 only.

PLAYBACK

1) Load a tape (pp. 8, "Loading/Unloading A Cassette"). 2) Set the Power Switch to "O" or "M". To start playback temporarily (Still Playback), press the Still Playback button.

SHOOTING WHILE USING THE VIEWFINDER: Make sure the LCD monitor is closed and locked. Shooting while using the LCD monitor: Make sure the LCD monitor is fully open.

FOR VIDEO RECORDING/VIDEO PLAYBACK: The camcorder shuts off automatically after about 5 minutes in the Record-Standby or Stop mode.

TO ADJUST THE BRIGHTNESS OF THE LCD MONITOR: Rotate the BRIGHT Wheel until the bright level indicator on the display screen and the appropriate brightness is reached.

APPLICABLE MODELS ONLY: GR-SXM58/SXM48/SX24 only.

BASIC FEATURES

Snapshot (GR-SXM58/SXM48/SX24 only): You can record still images that look like photographs onto a tape.

Picture Stabiliser: To compensate for unstable images caused by camera-shake, particularly at high magnification.

5Sec. Rec. (5-sec. Recording) (GR-FXM38/FX14 only): To record a scene for 5 seconds, providing quick scene transitions like those seen in TV programmes.

Picture Stabiliser: To compensate for unstable images caused by camera-shake, particularly at high magnification.

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5Sec. Rec. (5-sec. Recording) (GR-FXM38/FX14 only): To record a scene for 5 seconds, providing quick scene transitions like those seen in TV programmes.

USING THE CASSETTE ADAPTER (OPTIONAL)

Use this to play back an S-VHS/CVHS video cassette recorded with this camcorder on a S-VHS/VHS VCR.

1) Slide the battery cover up to remove it, install one "AA (R6)" size battery, then reattach the cover.

2) Slide the latch to open the compartment door, then insert the cassette and close the compartment door.

3) Load the cassette adapter into the VCR and play the tape back.

4) Slide the latch and the compartment door opens automatically. This may take about 10 seconds.

5) Do not attempt to force the adapter open. Then, insert your finger in the hole, and push up and remove the cassette.

6) During tape loading and unloading, do not touch the reels for safety and tape protection.

7) Tapes recorded in S-VHS or S-VHS ET mode cannot be played back on a regular VHS VCR. Playback is possible with a VCR equipped with the S-VHS function.

8) During special-effect playback (slow motion, still frame, etc.), the picture may vibrate or noise bars may appear on the screen.

9) To record on a VCR using a compact cassette and the adapter, cover the adapter's recording safety hole with adhesive tape.

CONNECTIONS TO A TV/VCR

1) Make sure all units are turned off. 2) Connect the camcorder to a TV or VCR, if using both TV and VCR, connect the VCR output to the TV input.

3) Turn on all units. Set the VCR to its AUX input mode, and set the TV to its VIDEO mode.

4) If you have a TV or speakers that are not specially shielded, do not place the speakers adjacent to the TV as interference will occur in the camcorder playback picture.

5) The S-Video cable connection can improve the dubbed picture quality. If your TV/VCR has a 21-pin connector, use a commercially available cable adapter with an S-Video connector.

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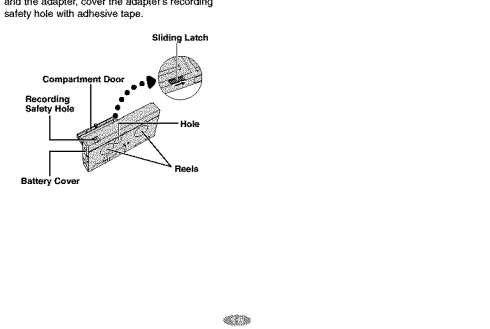
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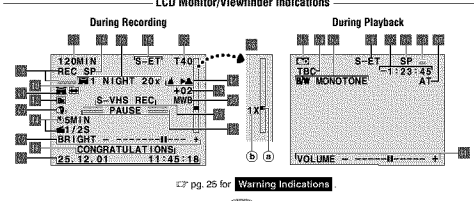
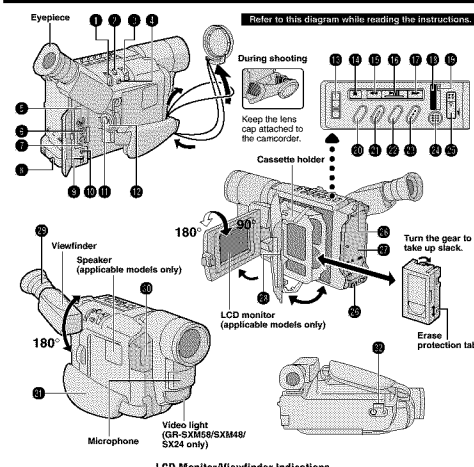
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25) The S-Video cable connection can improve the dubbed picture quality. If your TV/VCR has a 21-pin connector, use a commercially available cable adapter with an S-Video connector.



INSTRUCTIONS



Warning Indications

MENU SETTINGS

- Set the Power Switch to "M".
- Press the MENU Wheel in. The Menu Screen appears. Rotate the MENU Wheel to select the desired function.
 - To go from CAMERA MENU to SYSTEM MENU, rotate the MENU Wheel to select "TO SYSTEM MENU" and press it. SYSTEM MENU is composed of 2 pages. To go to the next page, rotate the MENU Wheel to select "NEXT" and press it.
 - To return to CAMERA MENU from page 2 of SYSTEM MENU, rotate the MENU Wheel to select "TO CAMERA MENU" and press it.
- Press the MENU Wheel in to display the Setting Menu and rotate it to select the desired setting.
- Press the MENU Wheel in. The Menu Screen reappears with the highlight bar on "RETURN". Press the MENU Wheel in. The normal screen reappears.

CAMERA MENU

- FOCUS:**
- If correct focus cannot be obtained with AUTO FOCUS, set to MANU to use manual focusing.
 - "▲" appears.
 - To focus on a farther subject, rotate the MENU Wheel upward. "▲" appears and blinks.
 - To focus on a nearer subject, rotate the MENU Wheel downward. "▼" appears and blinks.
 - If the lens is smeared or blurred, accurate focusing is not possible.
 - When shooting a subject close to the lens, zoom out first (27 pg. 13, "Zooming"). If zoomed in in the auto focus mode, the camcorder could automatically zoom out depending on the distance between the camcorder and the subject. This does not occur with "TELE MACRO" (27 pg. 21) in SYSTEM MENU.
 - Be sure to focus the lens in the maximum telephoto position when you use the Manual Focus mode. If you focus in on a certain subject in the wide-angle position, sharply focused images cannot be obtained when zoomed in because the depth-of-field is reduced at longer focal lengths.
 - When the focus level cannot be adjusted any farther or closer, "▲" or "▼" will blink.
- EXPOSURE:**
- Manual exposure adjustment is recommended in the following situations:
 - When shooting using reverse lighting or when the background is too bright.
 - When shooting on a reflective natural background such as at the beach or water.
 - When the background is overly dark or the subject light.
 - To brighten the image, rotate the MENU Wheel downward.
 - To darken the image, rotate the MENU Wheel upward.
 - The exposure control level increases/decreases (maximum x0.6).

SYSTEM MENU

- REC MODE:**
- Allows you to set the recording mode. "LP" (Long Play) is more economical, providing twice the recording time.
 - If the recording mode is switched during recording, the playback picture will be blurred at the switching point.
- D. ZOOM:**
- Zooming is possible from 16X (the optical zoom limit), to a maximum of 50X or 700X digital magnification.
 - When set to "OFF" only optical zoom (maximum 16x magnification) can function.
- WIDE:**
- When set to "ON" black bars will be recorded at the top and bottom of the screen to produce a cinematic "wide-screen" effect. Not effective with "Snapshot" (GR-SXMS8/SXMM8/SX24 only, 27 pg. 12).
- S-VHS (S-VHS ET):**
- (GR-SXMS8/SXMM8/SX24 only)
 - ON: With an S-VHS cassette, "S" appears and the camcorder records in S-VHS.
 - With a VHS cassette, "S-ET" appears and the camcorder records with S-VHS picture quality, which is called Super VHS ET (Expansion Technology). S-VHS REC appears during recording.
 - OFF: Records in VHS on a VHS or S-VHS cassette.
 - JVC EHG (Extra High Grade) tapes are recommended for superior results.
 - Use S-VHS tape for storing recordings for an extended period or for recording important scenes, as it enables higher-quality recording and playback.
 - With some tapes, better picture quality may not be obtained even with S-VHS ET recording. It is recommended that you do test record beforehand to make sure whether better results can be obtained.
 - If the S-VHS ET mode or recording format is switched during recording, the playback picture will be blurred at the switching point.
 - It is recommended that tapes recorded on this camcorder be played back on this camcorder.
 - Tapes recorded in S-VHS or S-VHS ET mode can be played back not only on this camcorder but also on a Super VHS VCR.
 - Tapes recorded in S-VHS ET mode cannot be played back on some VCRs, including some JVC VCRs.

ADVANCED FEATURES

- Night-Scope** (GR-SXMS8/SXMM8/SX24 only)
- Makes dark subjects or areas even brighter than they would be under good natural lighting.
 - 1) Set the Power Switch to "M".
 - 2) Press NIGHT-SCOPE repeatedly until the desired mode appears.
 - 3) Press the Recording Start/Stop Button to activate fade-in/out or wipe-in/out.
 - Pressing and holding the Recording Start/Stop Button allows you to vary the length for the image during fade-in/out or wipe-in/out.
 - To cancel a fade or wipe, press FADE/WIPE repeatedly until "OFF" appears.
- FADER:** Fades in/out to a black screen.
- MOSAIC (Fader):** Gradually turns/returns the picture into/from a mosaic pattern.
- SHUTTER (Wipe):** A black screen moves in from the top and bottom, closing over the image like a shutter, or a new image pushes open the black screen vertically from the centre.
- SLIDE (Wipe):** A black screen moves in from the left to gradually cover the image, or a new image moves in from right to left.
- DOOR (Wipe):** Wipes in as the two halves of a black screen open to the left and right, revealing the scene, or wipes out from lower left to upper right, leaving a black screen.
- CORNER (Wipe):** Wipes in on a black screen from the upper right to the lower left corner, revealing the scene, or wipes out from lower left to upper right, leaving a black screen.
- WINDOW (Wipe):** Wipes in on a black screen from the centre of the screen towards the corners, revealing the scene, or wipe out from the corners to the centre, leaving a black screen.

FADE/WIPE EFFECTS

- 1) Set the Power Switch to "M".**
- 2) Press PAE repeatedly until the desired mode appears.**
- To cancel the effect, press PAE repeatedly until "OFF" appears.
 - Only one mode can be engaged at a time.
 - In the "High Speed Shutter" or "Sports" mode, picture colour may be adversely affected if the subject is lit by alternating discharge-type light sources such as fluorescent or mercury-vapour lights.
 - This function cannot be activated during Night-Scope (27 pg. 23).
- SPORTS:** High shutter speed clearly captures fast-moving action.
- ND EFFECT:** A black mist darkens the picture, as when an ND filter is used. Helps to control the effects of glare on the subject.
- FOG:** Makes the picture look misty white, as when an external fogger is attached to the lens. Softens the image and gives it a "fantasy" look. This mode cannot be used when the "VIDEO ECHO" mode (27 "Digital Effects") is activated.
- TWILIGHT:** Dusk, twilight scenery, fireworks, etc., look more natural and dramatic. In this mode, S.LX and AUTO FOCUS in CAMERA MENU (27 pg. 18, 19) may not work.
- S12000 (1/2000 sec. High Speed Shutter):** Captures faster action than Sports mode. The screen becomes slightly dark. Use in well-lit situations.

PROGRAMME AE WITH SPECIAL EFFECTS

- 1) Set the Power Switch to "M".**
- 2) Press PAE repeatedly until the desired mode appears.**
- To cancel the effect, press PAE repeatedly until "OFF" appears.
 - Only one mode can be engaged at a time.
 - In the "High Speed Shutter" or "Sports" mode, picture colour may be adversely affected if the subject is lit by alternating discharge-type light sources such as fluorescent or mercury-vapour lights.
 - This function cannot be activated during Night-Scope (27 pg. 23).
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- S12000 (1/2000 sec. High Speed Shutter):** Captures faster action than Sports mode. The screen becomes slightly dark. Use in well-lit situations.

DIGITAL EFFECTS

- 1) Set the Power Switch to "M".**
- 2) Press DIGIFECT repeatedly until the desired mode appears.**
- To cancel the effect, press DIGIFECT repeatedly until "OFF" appears.
 - This function cannot be activated during Night-Scope (27 pg. 23).
 - Picture Stabiliser cannot be activated during this camcorder be played back on this camcorder.
 - Tapes recorded in S-VHS or S-VHS ET mode can be played back not only on this camcorder but also on a Super VHS VCR.
 - Tapes recorded in S-VHS ET mode cannot be played back on some VCRs, including some JVC VCRs.
- SEPIA:** Recorded scenes have a brownish tint like old photos. Combine this with WIDE in SYSTEM MENU for a classic look.
- BW MONOTONE:** Like black and white films, your footage is shot in BW. Combine this with WIDE in SYSTEM MENU for a classic look.
- B. FILTER:** Recorded scenes have a bluish tint.
- R. FILTER:** Recorded scenes have a reddish tint.
- SOLARI:** The picture is recorded with an effect similar to a painting.
- NEGA POS:** The colours of a picture are reversed.
- MOOSAIC:** Turns recorded scenes into a mosaic pattern.
- STRETCH:** Doubles the width of the picture horizontally.
- CLASSIC FILM:** Makes your footage look like a classic movie by shooting in black and white, with a stroking effect, and black bars added at the top and bottom.
- STROBE:** Your recording looks like a series of consecutive snapshots.
- VIDEO ECHO:** Adds a "ghost" to the subject, giving your recording a "phantom" feeling. Zoom magnification of over 10X is not available.
- * GR-SXMS8/SXMM8/SX24 only.

WARNINGS

- Vertical white lines appear when shooting a very bright object.**
- This sometimes occurs when the contrast between the background and the object is great. It is not a defect of the camcorder.
- Bright, crystal-shaped spots appear in the LCD monitor and the viewfinder.**
- Sunlight is directly entering the lens. This is not a defect of the camcorder.
- Coloured bright spots appear all over the LCD monitor or the viewfinder.**
- The LCD monitor and the viewfinder are made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor or in the viewfinder. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective date: more than 9/9/95.)
- Animation or Time-Lapse is not available.**
- Before recording in the Animation mode at the very beginning of a tape, set the camcorder to the Recording mode for about 5 seconds, so that the tape runs smoothly. Using the Fade-in function at this point is a good way to begin an animated programme. (27 pg. 21, REC TIME/INT. TIME in SYSTEM MENU).
- The tape is running, but there is no playback picture.**
- The TV has not been set to its VIDEO mode or channel.
 - If A/V connection is used, the TV's VIDEO/TV Switch has not been set to VIDEO.

CAUTIONS

- 2. To prevent damage and prolong service life...**
- do not subject to unnecessary shock
 - avoid repeated charging without fully discharging
 - charge in an environment where temperatures are within the tolerances shown in the chart below. This is a chemical reaction type battery—cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging
 - store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
 - avoid prolonged uncharged storage
 - remove from charger or powered unit when not in use, as some machines use current even when switched off.
 - it is normal for the battery pack to be warm after charging, or after use
 - Temperature Range Specifications
 - Charging: -10°C to 30°C
 - Operation: 0°C to 40°C
 - Storage: -10°C to 30°C
 - Recharging time is based on room temperature of 20°C.
 - The lower the temperature, the longer recharging takes.
- Cassettes**
- To properly use and store your cassettes, be sure to read the following cautions:
- During use...**
 - make sure the cassette bears the S-VHS-C or VHS-C mark.
 - be aware that recording onto pre-recorded tapes automatically erases the previously recorded video and audio signals.
 - make sure the cassette is positioned properly when inserting.
 - do not load and unload the cassette repeatedly without allowing the tape to run at all. This slackens the tape and can result in damage.
 - do not open the front tape cover. This exposes the tape to fingerprints and dust.
 - Store cassettes...**
 - away from heaters or other heat sources.
 - do not direct sunlight.
 - make sure they won't be subjected to unnecessary shock or vibration.
 - when they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).
 - vertically in their original cases.
- Main Unit**
- For safety, DO NOT...**
 - open the camcorder's chassis.
 - disassemble or modify the unit.
 - short-circuit the terminals of the battery pack. Keep it away from metallic objects when not in use.
 - allow inflammables, water or metallic objects to enter the unit.
 - remove the battery pack or disconnect the power supply while the power is on.
 - leave the battery pack attached when the camcorder is not in use.

TROUBLESHOOTING

- Before consulting your JVC dealer, please check the following to see if you can correct the problem yourself.
- Vertical white lines appear when shooting a very bright object.**
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- The tape is running, but there is no playback picture.**
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 - If A/V connection is used, the TV's VIDEO/TV Switch has not been set to VIDEO.

TRAPERS

- REC MODE:**
- Allows you to set the recording mode. "LP" (Long Play) is more economical, providing twice the recording time.
 - If the recording mode is switched during recording, the playback picture will be blurred at the switching point.
- D. ZOOM:**
- Zooming is possible from 16X (the optical zoom limit), to a maximum of 50X or 700X digital magnification.
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ADVANCED FEATURES

- Night-Scope** (GR-SXMS8/SXMM8/SX24 only)
- Makes dark subjects or areas even brighter than they would be under good natural lighting.
 - 1) Set the Power Switch to "M".
 - 2) Press NIGHT-SCOPE repeatedly until the desired mode appears.
 - 3) Press the Recording Start/Stop Button to activate fade-in/out or wipe-in/out.
 - Pressing and holding the Recording Start/Stop Button allows you to vary the length for the image during fade-in/out or wipe-in/out.
 - To cancel a fade or wipe, press FADE/WIPE repeatedly until "OFF" appears.
- FADER:** Fades in/out to a black screen.
- MOSAIC (Fader):** Gradually turns/returns the picture into/from a mosaic pattern.
- SHUTTER (Wipe):** A black screen moves in from the top and bottom, closing over the image like a shutter, or a new image pushes open the black screen vertically from the centre.
- SLIDE (Wipe):** A black screen moves in from the left to gradually cover the image, or a new image moves in from right to left.
- DOOR (Wipe):** Wipes in as the two halves of a black screen open to the left and right, revealing the scene, or wipes out from lower left to upper right, leaving a black screen.
- CORNER (Wipe):** Wipes in on a black screen from the upper right to the lower left corner, revealing the scene, or wipes out from lower left to upper right, leaving a black screen.
- WINDOW (Wipe):** Wipes in on a black screen from the centre of the screen towards the corners, revealing the scene, or wipe out from the corners to the centre, leaving a black screen.

FADE/WIPE EFFECTS

- 1) Set the Power Switch to "M".**
- 2) Press PAE repeatedly until the desired mode appears.**
- To cancel the effect, press PAE repeatedly until "OFF" appears.
 - Only one mode can be engaged at a time.
 - In the "High Speed Shutter" or "Sports" mode, picture colour may be adversely affected if the subject is lit by alternating discharge-type light sources such as fluorescent or mercury-vapour lights.
 - This function cannot be activated during Night-Scope (27 pg. 23).
- SPORTS:** High shutter speed clearly captures fast-moving action.
- ND EFFECT:** A black mist darkens the picture, as when an ND filter is used. Helps to control the effects of glare on the subject.
- FOG:** Makes the picture look misty white, as when an external fogger is attached to the lens. Softens the image and gives it a "fantasy" look. This mode cannot be used when the "VIDEO ECHO" mode (27 "Digital Effects") is activated.
- TWILIGHT:** Dusk, twilight scenery, fireworks, etc., look more natural and dramatic. In this mode, S.LX and AUTO FOCUS in CAMERA MENU (27 pg. 18, 19) may not work.
- S12000 (1/2000 sec. High Speed Shutter):** Captures faster action than Sports mode. The screen becomes slightly dark. Use in well-lit situations.

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DIGITAL EFFECTS

- 1) Set the Power Switch to "M".**
- 2) Press DIGIFECT repeatedly until the desired mode appears.**
- To cancel the effect, press DIGIFECT repeatedly until "OFF" appears.
 - This function cannot be activated during Night-Scope (27 pg. 23).
 - Picture Stabiliser cannot be activated during this camcorder be played back on this camcorder.
 - Tapes recorded in S-VHS or S-VHS ET mode can be played back not only on this camcorder but also on a Super VHS VCR.
 - Tapes recorded in S-VHS ET mode cannot be played back on some VCRs, including some JVC VCRs.
- SEPIA:** Recorded scenes have a brownish tint like old photos. Combine this with WIDE in SYSTEM MENU for a classic look.
- BW MONOTONE:** Like black and white films, your footage is shot in BW. Combine this with WIDE in SYSTEM MENU for a classic look.
- B. FILTER:** Recorded scenes have a bluish tint.
- R. FILTER:** Recorded scenes have a reddish tint.
- SOLARI:** The picture is recorded with an effect similar to a painting.
- NEGA POS:** The colours of a picture are reversed.
- MOOSAIC:** Turns recorded scenes into a mosaic pattern.
- STRETCH:** Doubles the width of the picture horizontally.
- CLASSIC FILM:** Makes your footage look like a classic movie by shooting in black and white, with a stroking effect, and black bars added at the top and bottom.
- STROBE:** Your recording looks like a series of consecutive snapshots.
- VIDEO ECHO:** Adds a "ghost" to the subject, giving your recording a "phantom" feeling. Zoom magnification of over 10X is not available.
- * GR-SXMS8/SXMM8/SX24 only.

WARNINGS

- Vertical white lines appear when shooting a very bright object.**
- This sometimes occurs when the contrast between the background and the object is great. It is not a defect of the camcorder.
- Bright, crystal-shaped spots appear in the LCD monitor and the viewfinder.**
- Sunlight is directly entering the lens. This is not a defect of the camcorder.
- Coloured bright spots appear all over the LCD monitor or the viewfinder.**
- The LCD monitor and the viewfinder are made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor or in the viewfinder. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective date: more than 9/9/95.)
- Animation or Time-Lapse is not available.**
- Before recording in the Animation mode at the very beginning of a tape, set the camcorder to the Recording mode for about 5 seconds, so that the tape runs smoothly. Using the Fade-in function at this point is a good way to begin an animated programme. (27 pg. 21, REC TIME/INT. TIME in SYSTEM MENU).
- The tape is running, but there is no playback picture.**
- The TV has not been set to its VIDEO mode or channel.
 - If A/V connection is used, the TV's VIDEO/TV Switch has not been set to VIDEO.

CAUTIONS

- 2. To prevent damage and prolong service life...**
- do not subject to unnecessary shock
 - avoid repeated charging without fully discharging
 - charge in an environment where temperatures are within the tolerances shown in the chart below. This is a chemical reaction type battery—cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging
 - store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
 - avoid prolonged uncharged storage
 - remove from charger or powered unit when not in use, as some machines use current even when switched off.
 - it is normal for the battery pack to be warm after charging, or after use
 - Temperature Range Specifications
 - Charging: -10°C to 30°C
 - Operation: 0°C to 40°C
 - Storage: -10°C to 30°C
 - Recharging time is based on room temperature of 20°C.
 - The lower the temperature, the longer recharging takes.
- Cassettes**
- To properly use and store your cassettes, be sure to read the following cautions:
- During use...**
 - make sure the cassette bears the S-VHS-C or VHS-C mark.
 - be aware that recording onto pre-recorded tapes automatically erases the previously recorded video and audio signals.
 - make sure the cassette is positioned properly when inserting.
 - do not load and unload the cassette repeatedly without allowing the tape to run at all. This slackens the tape and can result in damage.
 - do not open the front tape cover. This exposes the tape to fingerprints and dust.
 - Store cassettes...**
 - away from heaters or other heat sources.
 - do not direct sunlight.
 - make sure they won't be subjected to unnecessary shock or vibration.
 - when they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).
 - vertically in their original cases.
- Main Unit**
- For safety, DO NOT...**
 - open the camcorder's chassis.
 - disassemble or modify the unit.
 - short-circuit the terminals of the battery pack. Keep it away from metallic objects when not in use.
 - allow inflammables, water or metallic objects to enter the unit.
 - remove the battery pack or disconnect the power supply while the power is on.
 - leave the battery pack attached when the camcorder is not in use.

TRAPERS

- REC MODE:**
- Allows you to set the recording mode. "LP" (Long Play) is more economical, providing twice the recording time.
 - If the recording mode is switched during recording, the playback picture will be blurred at the switching point.
- D. ZOOM:**
- Zooming is possible from 16X (the optical zoom limit), to a maximum of 50X or 700X digital magnification.
 - When set to "OFF" only optical zoom (maximum 16x magnification) can function.
- WIDE:**
- When set to "ON" black bars will be recorded at the top and bottom of the screen to produce a cinematic "wide-screen" effect. Not effective with "Snapshot" (GR-SXMS8/SXMM8/SX24 only, 27 pg. 12).
- S-VHS (S-VHS ET):**
- (GR-SXMS8/SXMM8/SX24 only)
 - ON: With an S-VHS cassette, "S" appears and the camcorder records in S-VHS.
 - With a VHS cassette, "S-ET" appears and the camcorder records with S-VHS picture quality, which is called Super VHS ET (Expansion Technology). S-VHS REC appears during recording.
 - OFF: Records in VHS on a VHS or S-VHS cassette.
 - JVC EHG (Extra High Grade) tapes are recommended for superior results.
 - Use S-VHS tape for storing recordings for an extended period or for recording important scenes, as it enables higher-quality recording and playback.
 - With some tapes, better picture quality may not be obtained even with S-VHS ET recording. It is recommended that you do test record beforehand to make sure whether better results can be obtained.
 - If the S-VHS ET mode or recording format is switched during recording, the playback picture will be blurred at the switching point.
 - It is recommended that tapes recorded on this camcorder be played back on this camcorder.
 - Tapes recorded in S-VHS or S-VHS ET mode can be played back not only on this camcorder but also on a Super VHS VCR.
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