HD MEMORY CAMERA

GZ-HM340  Detailed User Guide
GZ-HM320
GZ-HM300

Everio
# Contents

## Beginner’s Guide
- Charging ................................................................. 4
- Recording ................................................................. 4
- Playback ................................................................. 4
- Shooting Tips ......................................................... 4

## Useful Shooting Techniques
- Holiday Season/Christmas ....................................... 4
- Wedding ................................................................... 5
- Travel ....................................................................... 6
- Amusement Park ..................................................... 8

## Getting Started
- Verifying the Accessories .......................................... 10
- Charging the Battery Pack ......................................... 10
- Grip Adjustment ....................................................... 12
- Using the Hand Strap ............................................... 12
- Inserting an SD Card (GZ-HM340/GZ-HM320) ............. 12
- Types of Usable SD Card .......................................... 13
- Inserting an SD Card (GZ-HM300) ............................. 13
- Types of Usable SD Card .......................................... 14
- Clock Setting ............................................................ 14
- Resetting the Clock .................................................. 15
- Using the Operation Buttons ...................................... 15
- Using the Slider ....................................................... 15
- Holding this Unit ..................................................... 15
- Attaching the Lens Cap ............................................. 16
- Tripod Mounting ..................................................... 16
- Using this Unit Overseas .......................................... 17
- Charging the Battery Pack Overseas ......................... 17
- Setting the Clock to Local Time when Traveling .......... 17
- Setting Daylight Saving Time .................................... 18
- Optional Accessories .............................................. 18

## Recording
- Taking Videos in Auto Mode ...................................... 19
- Zooming .................................................................. 21
- Capturing Still Images During Video Recording ........... 21
- Reducing Camera Shake .......................................... 21
- Checking the Captured Image Immediately ................ 21
- Taking Still Images in Auto Mode ............................... 22
- Zooming .................................................................. 23
- Checking the Captured Image Immediately ................ 23
- Manual Recording .................................................. 24
- Scene Selection ...................................................... 25
- Adjusting Focus Manually ........................................ 26
- Using Focus Assist ................................................... 26
- Adjusting Brightness ............................................... 27
- Setting White Balance ............................................ 27
- Setting Backlight Compensation ............................. 28
- Setting Metering Area ............................................. 28
- Recording with Effects .......................................... 29
- Taking Close-up Shots ............................................ 29
- Registering Files to Events Before Recording ............. 30
- Taking Videos in YouTube™ Format ......................... 30
- Recording at Intervals (TIME-LAPSE RECORDING) .... 31
- Recording Automatically by Sensing Movements (AUTO REC) ................................................ 33
- Remaining Recording Time/Battery Power .................. 34

## Playback
- Playing Back Videos ............................................... 36
- Checking the Content of Videos Quickly .................... 37
- Playing a Video with Defective Management Information .... 37
- Playback with Special Effects ................................... 38

## Editing
- Playing Back Still Images ........................................ 39
- Slideshow Playback ................................................ 39
- Searching for a Specific Video/Still Image .................... 40
- Group Search ........................................................ 40
- Search Date .......................................................... 40
- Search Event ........................................................ 41
- Connecting to and Viewing on TV ......................... 41
- Connecting via the HDMI Mini Connector ................ 41
- Connecting via the Component Connector ............... 43
- Connecting via the AV Connector ............................ 43
- Playing Back Playlists ............................................ 44

## Copying
- Copying Files to Card ........................................... 65
- Copying All Files .................................................. 65
- Copying Selected Files .......................................... 66
- Moving Files ......................................................... 67
- Moving All Files ................................................... 67
- Moving Selected Files .......................................... 68
- Dubbing Files to a DVD Recorder or VCR .................. 69
- Copying to Windows PC .......................................... 70
- Verifying System Requirements (Guideline) .............. 70
- Installing the Provided Software ............................. 70
- Backing Up All Files ............................................ 70
- Organizing Files .................................................. 72
- Recording Videos to Discs ...................................... 73
- JVC Software Licence Agreement ............................ 74
- Backing Up Files Without Using Provided Software .. 75
- List of Files and Folders ......................................... 75
- Copying to Mac Computer ...................................... 76

## Menu Settings
- Operating the Menu .............................................. 77
- Recording Menu (Video) ......................................... 78
- FACE PRIORITY AE/AF .......................................... 79
- REGISTER EVENT ................................................ 79
- VIDEO QUALITY .................................................. 79
- ZOOM .................................................................. 80
- GAIN UP ............................................................ 80
- TIME-LAPSE RECORDING .................................... 81
<table>
<thead>
<tr>
<th>Names of Parts</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>109</td>
</tr>
<tr>
<td>Rear</td>
<td>109</td>
</tr>
<tr>
<td>Bottom</td>
<td>110</td>
</tr>
<tr>
<td>Interior</td>
<td>110</td>
</tr>
<tr>
<td>LCD Monitor</td>
<td>111</td>
</tr>
<tr>
<td>Indications on the LCD Monitor</td>
<td></td>
</tr>
<tr>
<td>Common Recording Indications</td>
<td>112</td>
</tr>
<tr>
<td>Video Recording</td>
<td>112</td>
</tr>
<tr>
<td>Still Image Recording</td>
<td>113</td>
</tr>
<tr>
<td>Video Playback</td>
<td>113</td>
</tr>
<tr>
<td>Still Image Playback</td>
<td>114</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td></td>
</tr>
<tr>
<td>Battery Pack</td>
<td>115</td>
</tr>
<tr>
<td>Recording</td>
<td>115</td>
</tr>
<tr>
<td>Card</td>
<td>116</td>
</tr>
<tr>
<td>Playback</td>
<td>116</td>
</tr>
<tr>
<td>Editing/Copying</td>
<td>117</td>
</tr>
<tr>
<td>PC</td>
<td>117</td>
</tr>
<tr>
<td>Screen/Image</td>
<td>118</td>
</tr>
<tr>
<td>Other Problems</td>
<td>118</td>
</tr>
<tr>
<td>Error Message?</td>
<td>119</td>
</tr>
<tr>
<td>Maintenance</td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
</tr>
</tbody>
</table>

| Manual Settings Menu           | 87   |
| SCENE SELECT                   | 87   |
| FOCUS                          | 87   |
| FOCUS ASSIST                   | 87   |
| BRIGHTNESS ADJUST              | 87   |
| WHITE BALANCE                  | 87   |
| BACKLIGHT COMP                 | 87   |
| METERING AREA/TYPER            | 87   |
| EFFECT                         | 87   |
| TELE MACRO                     | 87   |
| Playback Menu (Video)          | 88   |
| DELETE                         | 89   |
| PICTURE TITLE (GZ-HM340/GZ-HM320) | 89   |
| SEARCH                         | 89   |
| PLAYBACK PLAYLIST              | 89   |
| EDIT PLAYLIST                  | 89   |
| PLAYBACK OTHER FILE            | 89   |
| EDIT                           | 90   |
| SEAMLESS REC CTRL              | 90   |
| WIPE/FADE                      | 90   |
| ON-SCREEN DISPLAY              | 91   |
| Playback Menu (Still Image)    | 92   |
| DELETE                         | 92   |
| SEARCH DATE                    | 92   |
| EDIT                           | 92   |
| SLIDE SHOW EFFECTS             | 93   |
| ON-SCREEN DISPLAY              | 93   |
| Display Settings Menu          | 94   |
| LANGUAGE                       | 94   |
| DATE DISPLAY STYLE             | 94   |
| MONITOR BRIGHTNESS             | 95   |
| LCD BACKLIGHT                  | 96   |
| FOCUS ASSIST COLOR             | 96   |
| CLOCK ADJUST                   | 97   |
| Basic Settings Menu            | 98   |
| DEMO MODE                      | 99   |
| AUTO POWER OFF                 | 99   |
| OPERATION SOUND                | 100  |
| RECORD BUTTON                  | 100  |
| QUICK RESTART                  | 101  |
| UPDATE                         | 101  |
| FACTORY PRESET                 | 102  |
| Connection Settings Menu       | 103  |
| DISPLAY ON TV                  | 103  |
| VIDEO OUTPUT                   | 103  |
| COMPONENT OUTPUT               | 104  |
| HDMI OUTPUT                    | 104  |
| Recording                     | 104  |
| HDMI CONTROL                   | 105  |
| Media Settings Menu            | 106  |
| REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320) | 106  |
| VIDEO SLOT SELECTION (GZ-HM300) | 106  |
| REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320) | 107  |
| IMAGE SLOT SELECTION (GZ-HM300) | 107  |
| FORMAT BUILT-IN MEM. (GZ-HM340/GZ-HM320) | 107  |
| FORMAT SD CARD                 | 108  |
| ERASE ALL DATA (GZ-HM340/GZ-HM320) | 108  |
Charging
- Refer to the operating instructions found in the animation on the Detailed User Guide.

Recording
- Refer to the operating instructions found in the animation on the Detailed User Guide.

Playback
- Refer to the operating instructions found in the animation on the Detailed User Guide.

Shooting Tips

Basic Way to Hold a Camcorder
- Recording Stable Images -

This is the standard way of shooting while standing up. Be sure to master this basic technique in order to achieve stable images.

[Getting Ready]
① Open your feet to the width of your shoulders.
② Extend your right hand and hold the camcorder over your head.
③ Hold the LCD monitor with your left hand and adjust the angle accordingly.

CAUTION:
- Use this way of shooting only as a last resort as it is difficult to achieve stable images.
- Set to the wide angle as much as possible as the image will be prone to camera shake.
- Be considerate. Do not inconvenience the people around you.

Extending Your Hands to Shoot
- High-Angle Shooting -

Extend your hand when your subject is being hidden behind a crowd of people.

[Getting Ready]
① Open your feet to the width of your shoulders.
② Extend your right hand and hold the camcorder over your head.
③ Hold the LCD monitor with your left hand and adjust the angle accordingly.

Squatting and Shooting at Eye Level

Staying low is a common position to take when shooting small children. By recording from the eye level of the child, you can capture all his cute expressions clearly.

[Getting Ready]
① Kneel down with your left knee while keeping your right foot on the ground.
② Place the elbow of your right arm, which is holding the camcorder, on your right knee.
③ Hold the LCD monitor with your left hand and adjust the angle accordingly.

Panning
- Refer to the operating instructions found in the animation on the Detailed User Guide. Use this method to shoot a wide angle of view.

[Getting Ready]
① Shoot by rotating your body instead of moving your arms while keeping the basic way of holding a camcorder as stated above.
② Stand facing the direction where the rotation will stop.
③ Twist your upper body to the direction where recording will start.
④ Press the start button and record for 2 seconds, then slowly twist back your body to face the front.
   Record for another 2 seconds while facing the front, then press the stop button.
   (The 90 degrees rotation should take about 5 seconds, giving the feeling of a slow motion.)

Holiday Season/Christmas

Record the happy Christmas celebration with your family!
Decorating the Tree and Preparing the Dinner

The decoration of tree and preparation of dinner are part of the joy of Christmas. Be sure to record these happy family times!

- **Decorating the tree**

  A tree is the most important thing to bring out the mood of Christmas. Simply the scene of all family members engaging in the decorating of a fir tree with various colorful ornaments is full of the feeling of happiness.

- **Preparing the Dinner**

  Photo by Manicosity
  Creative Commons Attribution-No Derivative Works 3.0

  Record the scenes as everyone helps to prepare the feast of the night. You can film the mother who is cooking, the children who are helping, and of course, the process of making a cake!

Finding the Presents

For children, the greatest joy of Christmas is receiving presents the next morning. Their expression of delight when finding a present next to their pillow is a recording opportunity not to be missed. Get ready to shoot before the children wake up!

Wedding

Create an awesome wedding video for the bride and groom!

- **Discussing and Planning Before the Event**

  Before the day of the wedding reception, it is important to discuss with the bride and groom about various details such as the order of the ceremony and whether there are any entertainment programs or change of clothes.

  By understanding the preferences of the bride and groom, you will be able to shoot more appropriately.

- **Finding the Right Angle to Capture Both Bride and Groom**

  The main characters of a wedding are of course the bride and groom. Record their expressions clearly during the toast, speech, entertainment programs, and other scenes.

  Another recommendation is to capture the face shots of the guests, then pan towards the groom. Picture composition containing the crowd of guests only lacks fun, so be sure to pay attention to the shooting angle and size.
Composing the picture with the guests in front and the bride and groom at the back

Recording the Expressions and Comments of Guests
You can record comments from the guest by going around asking, "Please say a few words for the bride and groom". This can be done at the guests' waiting room, when the bride and groom are changing, or during the entertainment programs.

Setting the shot from eye level to chest level

Closing Up on the Bride’s Face During the Thank You Speech
The climax of the event finally comes during the bride and groom’s thank you speech and presentation of flowers. The touching words of appreciation from the bride and tears of joy from the parents are scenes that must not be missed.
Start by closing up on the bride’s face using zoom. As the tears start to form in the bride’s eyes, continue shooting for a little longer. Then, slowly zoom out to the wide angle to show the parents who are moved by the speech.

Advanced Operation with Two Camcorders
If video-editing is to be done, record using two camcorders so that a video with varying scenes can be created. You can try asking a close friend who has a camcorder at home.
Set the borrowed camcorder on a tripod to focus on taking close-up shots of the bride and groom. In this way, the other camcorder can be moved around to record other scenes, enabling an interesting video with changing scenes to be created through editing and compilation.
As most people own at least a digital camera nowadays, even if you are really unable to find an extra camcorder, inserting still pictures to the video at various points is also a good way to add variety. Do give it a try!

<Camcorder 1>
Closing up on the bride and groom all the time

<Camcorder 2>
Recording the congratulatory messages from friends at the same time

Travel
Capture all the good times of your domestic or overseas trips!

Bringing the Necessary Equipment
The necessary things to bring on a trip depends on your traveling purpose and the destination.
For overseas trips in particular, you have to think about what to bring in accordance to the local conditions.
Here are some suggestions for your consideration.

Camcorder
Think about how many hours of shooting you will usually perform in a day. Be sure to prepare enough recording medium especially for long overseas trips.
If you are recording in SD cards, get ready the sufficient number of cards, including some for backup.
**Battery Pack**
Prepare a battery pack that is ready for double the expected recording time in a day. For example, if you plan to record for 2 hours a day, prepare a battery pack that is ready for 4 hours (actual recording time). For a day trip, you can prepare a battery with low capacity but for a long trip, do prepare a few batteries with high capacities.

**AC Adapter**
The JVC AC adapter supports voltages from 100 V to 240 V, and hence can be used anywhere in the world. Bring along the adapter if you are traveling for a long time. Charge the battery pack while sleeping so that you can record with full battery power the next day.

**Power Plug Adapter**
The shape of the power plug varies according to countries. Be sure to check the shape of the power plug beforehand, and bring the appropriate power plug adapter.

**Battery Charger**
Recording cannot be performed when an AC adapter is connected to the camcorder for battery charging. You can bring an additional battery charger to charge battery packs if you plan to use the camcorder for recording at night. You can also charge multiple battery packs by using both the battery charger and this camcorder at the same time.

**Tripod**
A tripod is an essential item to take stable images. Select an appropriate tripod in accordance to your purpose and style of traveling, such as a compact one to be used on a table or one that is at least 1 m tall.

**Recording the Excitement Before Departure**
It may be a little abrupt to start your travel video at the destination suddenly. Record also the preparations prior to departure if it is a family trip, or the time when everyone is gathered at the meeting place if you are traveling with your friends. For overseas trips, taking a shot of the signs and displays at the airport of the flight you are taking may be useful for future reference.
Using Pan at the Places of Interest

Tourists spots with beautiful scenery or historical sites are places that you would certainly want to record. To capture the magnificence of a scene which cannot be fitted into a single frame, try the panning technique. Refer to the "Shooting Tips" found in this website on how to use panning effectively. In addition, you may also like to take a shot of the signs or monuments that can often be found at the tourist spots.

Showing Everyone Having a Good Time

When taking a video, it is rather dull to shoot only the scenery or historical sites. Talk about your feelings while recording the breath-taking scenery of an attraction so that it will be an interesting scene to view later.

Amusement Park

Take more shots of the smiling faces of everyone in the family!

Taking Videos or Still Images According to the Attraction

You may choose to take videos all the time. However, you may want to take some still images too. The following section explains the scenarios suitable for taking videos or still images.

- Scenarios suitable for taking videos
  Scenarios with changes in body movement are suitable for taking videos. This includes situations where there are rapid changes in facial expressions or voices of surprise and delight.
  *Some amusement parks do not allow passengers to perform any recording. Be sure to check beforehand.
  [Examples]
  ● Merry-go-round, go kart, coffee cup, etc.

- Scenarios suitable for taking still images (photos)
  Scenarios with little movement of the subject are suitable for taking still images. Try to take the still images from an angle such that the surroundings can be seen clearly.
  [Examples]
  ● Carousel, ferris wheel, fun bicycle rides, etc.
Inducing Responses by Calling Out

Videos with no waving of hands nor laughter are not only dull when you view them later, but also put the capability of the audio-recording function of the camcorder to a waste. When recording, induce more reactions by enthusiastically waving your hands or shouting out “Is it fun?” and the like.

Capturing the Best Moment in a Video as a Still Image

Shots with the eyes closed are often taken by accident. To reduce such mistakes, make use of the function to capture still images from videos. As videos are actually continuous recording of 60 still images within 1 minute, using this function allows you to select the best moment and save it as a still image.

“Capturing a Still Image in the Video during Playback”  (P.54)

Advanced Operation with Backlight Compensation

It is useful to make use of backlight compensation when the subject’s face is in backlight or when the expression cannot be seen clearly. Increase the brightness of the whole image by setting “BACKLIGHT COMP.” if the faces appear too dark. Even the expressions of faces under shadows can be captured brightly and clearly.

“Setting Backlight Compensation”  (P.28)

■ <Without backlight compensation>

■ <With backlight compensation>
Verifying the Accessories

If any of the items are missing or defective, consult your JVC dealer or the nearest JVC service center.

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
</tr>
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</table>
| ![AC Adapter](image1) | AC Adapter AP-V30U  
  - Connects to this unit to charge the battery pack. It can also be used when recording indoors or during playback. |
| ![Battery Pack](image2) | Battery Pack BN-VG114U  
  - Attaches to this unit to supply power. |
| ![AV Cable](image3) | AV Cable  
  - Connects this unit to a TV to play back recorded images on the TV. |
| ![USB Cable](image4) | USB Cable  
  (A Type - Mini B Type)  
  - Connects this unit to a PC. |
| ![CD-ROM](image5) | CD-ROM  
  - For installing the provided software “Everio MediaBrowser” on a PC. |
| ![Basic User Guide](image6) | Basic User Guide  
  - Read well and keep in a safe place where it can be accessed easily when necessary. |
| ![Lens Cap](image7) | Lens Cap  
  - Protects the lens. |

Memo:-
- SD cards are sold separately.
  "Types of Usable SD Card" (P.13)
- When using the AC adapter overseas, please prepare a commercially available converter plug for the country or region of visit.
  "Charging the Battery Pack Overseas" (P.17)

Charging the Battery Pack

Charge the battery pack immediately after purchase and when the remaining battery power is low. The battery pack is not charged at the time of purchase.

1. Attach the battery pack.
1. Align the top of the battery with this unit, and slide in until the battery clicks into place.

2. Connect the AC adapter to the DC terminal.

3. Plug in the power.

   - The charging lamp blinks when charging is in progress. It goes out when charging is finished.

**CAUTION:**

- If you use any other battery packs besides JVC battery packs, safety and performance cannot be guaranteed.
- Charging time: Approx. 2 h 30 m (using supplied battery pack)
  The charging time is when the unit is used at 25°C.
  If the battery pack is charged outside the room temperature range of 10°C - 35°C, charging may take a longer time or it may not start. The recordable and playable time may also be shortened under some usage conditions such as at low temperature.

Rechargeable Batteries:

- When using the battery in a low temperature environment (10°C (50°F) or below), the operating time may be shortened, or it may not function properly. When using this unit outdoors in the winter weather, warm the battery, such as by placing it in the pocket, before attaching it. (Keep away from direct contact with a warm pack.)
- Do not expose the battery to excessive heat, such as direct sunlight or fire.
- If the battery pack is not to be used for a long time, use up the charge completely and detach it from this unit to prevent deterioration.
- After removing the battery, store it in a dry place between 15°C to 25°C (59°F to 77°F).
- Battery deterioration occurs when a battery pack is charged repeatedly. Replace the battery pack with a new one.

**Memo:**

- You can connect this unit to the AC adapter to record for long hours indoors. (Battery charging begins when the LCD monitor is closed.)
- Please do not pull or bend the AC adapter plug and cable. This may damage the AC adapter.

**Approximate Battery Charging Time**

<table>
<thead>
<tr>
<th>Battery Pack</th>
<th>Charging Time</th>
<th>Actual Recording Time*</th>
<th>Continuous Recording Time*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN-VG114U (Supplied)</td>
<td>2 h 30 m</td>
<td>1 h</td>
<td>1 h 45 m</td>
</tr>
<tr>
<td>BN-VG121U</td>
<td>3 h 30 m</td>
<td>1 h 30 m</td>
<td>2 h 40 m</td>
</tr>
</tbody>
</table>

- The above are values when “LCD BACKLIGHT” is set to “STANDARD”.
- When the battery life is reached, the recording time becomes shorter even if the battery pack is fully charged. (Replace the battery pack with a new one.)
### Grip Adjustment

1. Flip the grip belt over.
2. Adjust the length of the belt.
3. Fasten the grip belt.

**CAUTION:**
- Be sure to fasten the grip belt properly. If the belt is loose, this unit may drop and result in injuries or damages.

### Using the Hand Strap

When using the hand strap, loop it around your wrist.

### Removing the Strap

- While pressing ①, pull ② and remove the strap.

### Attaching the Strap

- Push in firmly until it clicks into place.

---

### Inserting an SD Card (GZ-HM340/GZ-HM320)

When a commercially available SD card is inserted, recordings can still be made to the card without stopping when the remaining recording time on the internal memory runs out.

*Types of Usable SD Card*  (☞ P.13)

1. Press the power button for more than 2 seconds to turn off this unit.

2. Open the card slot cover.

3. Insert an SD card.

**CAUTION:**
- Make sure not to insert the card in the wrong direction. It may cause damage to the unit and card.
- Turn off the power of this unit before inserting or removing a card.

**Memo:**
- Recording switches automatically from one media to another and vice versa after the card or memory space in the selected media is full.

*SEAMLESS RECORDING*  (☞ P.81)
- To record to the card, it is necessary to adjust media settings. When no card is available, set media settings to “BUILT-IN MEMORY” for recording.

*REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320)*  (☞ P.106)
*REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)*  (☞ P.107)
- To use cards that have been used on other devices, it is necessary to format (initialize) the card using “FORMAT SD CARD” from media settings.

*FORMAT SD CARD*  (☞ P.108)

### Removing the Card

Push the card inward once, then pull it out straight.
Types of Usable SD Card

The following SD cards can be used on this unit.

SDHC Card

- Use a Class 4 or higher compatible SDHC card (4 GB to 32 GB) for video recording.

SD Card

- This unit supports 256 MB to 2 GB SD cards. Operations are confirmed on the SD cards from the following manufacturers.
  - Panasonic
  - TOSHIBA
  - SanDisk
  - ATP

Memo:

- Using SD cards (including SDHC cards) other than those specified above may result in recording failure or data loss.
- Class 4 and Class 6 are guaranteed to have a minimum transfer rate of 4 MB/s and 6 MB/s respectively during reading or writing of data.

Inserting an SD Card (GZ-HM300)

Insert a commercially available SD card before recording. This unit comes with two SD card slots. When two SD cards are inserted, recordings can be continued on the other card even if one card is full.

"Types of Usable SD Card" (see P.13)

1 Press the power button for more than 2 seconds to turn off this unit.

2 Open the card slot cover.

3 Insert an SD card into slot A.

CAUTION:

- Make sure not to insert the card in the wrong direction. It may cause damage to the unit and card.
- Turn off the power of this unit before inserting or removing a card.

Memo:

- Recording switches automatically from one card to another and vice versa after the selected card is full.
  "SEAMLESS RECORDING" (see P.81)

- To record to the card, it is necessary to adjust media settings.
  "VIDEO SLOT SELECTION (GZ-HM300)" (see P.106)
  "IMAGE SLOT SELECTION (GZ-HM300)" (see P.107)

- To use cards that have been used on other devices, it is necessary to format (initialize) the card using "FORMAT SD CARD" from media settings.
  "FORMAT SD CARD" (see P.108)

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- Class 4 and Class 6 are guaranteed to have a minimum transfer rate of 4 MB/s and 6 MB/s respectively during reading or writing of data.

Clock Setting

The "SET DATE/TIME!" screen appears when you turn on this unit for the first time after purchase, when it has not been used for a long time, or when the clock is not set yet. Set the clock before recording.

1 Open the LCD monitor.

- This unit turns on.
- When the LCD monitor is closed, this unit turns off.

2 Select “YES” and touch .

3 Set the date and time.

- Use the slider to adjust the year, month, day, hour, and minute in order.
- Touch the operation buttons “↑” / “↓” to move the cursor.
- After setting the date and time, touch .

4 Select the region where you live and touch .

- The city name and time difference are displayed.
- Touch after the color of the selected region changes.

Memo:
- The clock can be reset again later.
  *Resetting the Clock* (☞ P.15)
- When using this unit overseas, you can set it to the local time for recording.
  *Setting the Clock to Local Time when Traveling* (☞ P.17)
- You can turn on or off the clock display during playback mode.
  *ON-SCREEN DISPLAY* (☞ P.91)
- The clock set style of this unit varies with the models.
  *Clock Set Style* (☞ P.95)
- Touch the slider and buttons around the screen with your fingers.
- The slider and buttons do not function if you touch them with your fingernails or with gloves on.
- The displays on the screen do not work even if you touch them.
Resetting the Clock

Set the clock with “CLOCK ADJUST” from the menu.

1 Touch ☰ to display the menu.

2 Select “CLOCK ADJUST” and touch ☰.

3 Select “CLOCK SETTING” and touch ☰.

4 Set the date and time.

- Use the slider to adjust the year, month, day, hour, and minute in order.
- Touch the operation buttons “←” / “→” to move the cursor.
- After setting the date and time, touch ☰.

5 Select the region where you live and touch ☰.

- The city name and time difference are displayed.
- Touch ☰ after the color of the selected region changes.

Using the Operation Buttons

Functions of the operation buttons may be displayed on the screen according to the feature in use.

- To operate, touch the slider and buttons around the screen lightly with your fingers.

Memo:

- "Touch" denotes the touching of the operation buttons lightly.
- The slider and buttons do not function if you touch them with your fingernails or with gloves on.
- The displays on the screen do not work even if you touch them.

Using the Slider

Slide the ball of your finger along the slider for smooth operations. While the slider is being pressed, the cursor moves automatically. Fine operations such as moving the cursor one by one can be performed by touching the slider.

- Refer to the operating instructions found in the animation on the Detailed User Guide.

Memo:

- The slider and buttons do not function if you touch them with your fingernails or with gloves on.
- The displays on the screen do not work even if you touch them.

Holding this Unit

When holding this unit, keep your elbows close to your sides to prevent camera shake.

CAUTION:

- Be careful not to drop this unit during transportation.
Guardians should pay close attention when this unit is being used by children.

**Memo:**

- If camera shake is excessive, use the digital image stabilizer.

"Reducing Camera Shake" (P. 21)

---

**Attaching the Lens Cap**

To protect the lens, attach the provided lens cap to this unit as shown in the illustration.

---

**CAUTION:**

- Please be careful not to lose the lens cap.

---

**Tripod Mounting**

This unit can be mounted on a tripod. This is useful for preventing camera shake and recording from the same position.

- To prevent this unit from falling off, check the tripod mounting screw holes and positioning holes on the unit carefully before mounting, and turn the screws until they are fastened firmly.

**CAUTION:**

- To prevent injuries or damages which may result if this unit falls off, read the instruction manual of the tripod to be used and make sure that it is securely attached.

**Memo:**

- It is recommended to use the tripod when recording in conditions prone to camera shake (such as in dark places or when zoomed to the telephoto end).
- Set the digital image stabilizer to "OFF" when using a tripod for recording.

"Reducing Camera Shake" (P. 21)
Using this Unit Overseas

The shape of the power outlet varies according to countries and regions.
To charge the battery pack, you need a converter plug that matches the shape of the outlet.

“Charging the Battery Pack Overseas” (see P.17)
Change the date and time display to the local time by selecting your travel destination in “AREA SETTING” of “CLOCK ADJUST”.

“Setting the Clock to Local Time when Traveling” (see P.17)
When “ON” is selected in “SET FOR DAYLIGHT SAVING TIME” of “CLOCK ADJUST”, the time is set 1 hour ahead.

“Setting Daylight Saving Time” (see P.18)

Charging the Battery Pack Overseas

The shape of the power outlet varies according to countries and regions.
To charge the battery pack, you need a converter plug that matches the shape of the outlet.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>BF</th>
<th>C</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>South America</td>
<td>Europe</td>
<td>China</td>
<td>Oceania</td>
</tr>
<tr>
<td>United States</td>
<td>Canada</td>
<td>Mexico</td>
<td>United Kingdom</td>
<td>Australia</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Paris</td>
<td>Prague</td>
<td>Berlin</td>
<td>Sydney</td>
</tr>
<tr>
<td>Prague</td>
<td>Lisbon</td>
<td>Rome</td>
<td>Paris</td>
<td>Melbourne</td>
</tr>
<tr>
<td>Berlin</td>
<td>Rome</td>
<td>Madrid</td>
<td>London</td>
<td>Sydney</td>
</tr>
</tbody>
</table>

Setting the Clock to Local Time when Traveling

Change the date and time display to the local time by selecting your travel destination in “AREA SETTING” of “CLOCK ADJUST”.
Restore the region settings after you returned from the trip.

1. Touch \( \square \) to display the menu.

2. Select “CLOCK ADJUST” and touch \( \square \).

3. Select “AREA SETTING” and touch \( \square \).

4. Select the area you are traveling to and touch \( \square \).

- The city name and time difference are displayed.

**Memo:**
- Setting “AREA SETTING” changes the clock time such that time difference is accounted for.
After returning to your country, re-select the region that was set initially to restore the original clock settings.
Setting Daylight Saving Time

When “ON” is selected in “SET FOR DAYLIGHT SAVING TIME” of “CLOCK ADJUST”, the time is set 1 hour ahead.

1. Touch \( \text{to display the menu.} \)

2. Select “CLOCK ADJUST” and touch \( \text{.} \)

3. Select “SET FOR DAYLIGHT SAVING TIME” and touch \( \text{.} \)

4. Set daylight saving time and touch \( \text{.} \)

Memo:
- What is daylight saving time?
  - Daylight saving time is the system of setting the clock 1 hour ahead for a fixed period in summer. It is used mainly in the Western countries.
- Restore the daylight saving time settings after you returned from the trip.

Optional Accessories

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Pack</td>
<td>Provides a longer recording time than the battery pack that comes with this unit. It can also be used as a spare battery pack.</td>
</tr>
<tr>
<td>● BN-VG114U</td>
<td></td>
</tr>
<tr>
<td>● BN-VG121U</td>
<td></td>
</tr>
<tr>
<td>Battery Charger</td>
<td>Enables the battery pack to be charged without using this unit.</td>
</tr>
<tr>
<td>● AA-VG1U</td>
<td></td>
</tr>
<tr>
<td>Component Cable</td>
<td>For viewing in high picture quality.</td>
</tr>
<tr>
<td>● QAM1266-001</td>
<td></td>
</tr>
</tbody>
</table>

Memo:
- For more information, refer to the catalog.
- BN-VG114U is the same battery pack that comes with this unit.

Approximate Recording Time (Using Battery)

<table>
<thead>
<tr>
<th>Battery Pack</th>
<th>Actual Recording Time</th>
<th>Continuous Recording Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN-VG114U (Supplied)</td>
<td>1 h</td>
<td>1 h 45 m</td>
</tr>
<tr>
<td>BN-VG121U</td>
<td>1 h 30 m</td>
<td>2 h 40 m</td>
</tr>
</tbody>
</table>

- The above are values when “LCD BACKLIGHT” is set to “STANDARD”.
- The actual recording time may be shorter if zooming is used or if recording is stopped repeatedly. (It is recommended to prepare battery packs ready for three times the expected recording time.)
- When the battery life is reached, the recording time becomes shorter even if the battery pack is fully charged. (Replace the battery pack with a new one.)
Taking Videos in Auto Mode

You can record without worrying about the setting details by using the auto mode.

1. Open the LCD monitor and select the video mode. (Open the lens cover.)
   - The video mode icon appears.

2. Check if the recording mode is Auto.
   - If the mode is Manual, touch the \( \text{G/H} \) button. The mode changes between Auto and Manual with every touch.

3. Start recording.
   - Press again to stop.

   Indications During Video Recording

<table>
<thead>
<tr>
<th>Display Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording Mode</td>
<td>Press the ( \text{G/H} ) button to switch the recording mode between ( \text{G} ) (Auto) and ( \text{H} ) (Manual).</td>
</tr>
<tr>
<td>Video Quality</td>
<td>Displays the icon of the “VIDEO QUALITY” setting selected in the recording menu. “VIDEO QUALITY” (( \text{AP.79} ))</td>
</tr>
<tr>
<td>Remaining Time (Recordable Time)</td>
<td>Displays the remaining time for video recording.</td>
</tr>
<tr>
<td>( \bullet \text{REC} ) Recording in Progress</td>
<td>Appears when video recording is in progress.</td>
</tr>
<tr>
<td>( \bullet \text{II} ) Record-Standby</td>
<td>Appears when video recording is paused.</td>
</tr>
<tr>
<td>Scene Counter (Recorded Time)</td>
<td>Displays the elapsed time of the video that is currently being recorded.</td>
</tr>
<tr>
<td>Recording Media</td>
<td>Displays the icon of the media where videos are recorded to. The recording media can be changed. “REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320)” (( \text{AP.106} )) “VIDEO SLOT SELECTION (GZ-HM300)” (( \text{AP.106} ))</td>
</tr>
<tr>
<td>Battery Indicator</td>
<td>Displays the approximate remaining battery power. Details of the battery power can be displayed by pressing the INFO button ( \text{Q} ). “Remaining Recording Time/Battery Power” (( \text{AP.34} ))</td>
</tr>
</tbody>
</table>
### Operation Buttons for Video Recording

<table>
<thead>
<tr>
<th>Operation Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T/W Zoom</td>
<td>Allows the same functions as the zoom lever to be performed. Camera shake that often occurs when using the zoom lever can be minimized. &quot;Zooming&quot; (<a href="#">P.21</a>)</td>
</tr>
<tr>
<td>Image Stabilizer</td>
<td>Sets whether to reduce camera shake. &quot;Reducing Camera Shake&quot; (<a href="#">P.21</a>)</td>
</tr>
<tr>
<td>Recording Start/Stop</td>
<td>Functions as the START/STOP button.</td>
</tr>
<tr>
<td>Quick Review</td>
<td>Enables the most recently captured video to be viewed. &quot;Checking the Captured Image Immediately (Quick Review)&quot; (<a href="#">P.21</a>)</td>
</tr>
<tr>
<td>Auto/Manual</td>
<td>Switches the recording mode between Auto and Manual.</td>
</tr>
</tbody>
</table>

**Memo:**
- The slider operation button cannot be used when the LCD monitor is flipped.
- The zoom appears when the slider is touched.

### Useful Settings for Recording
- Videos can be found easily during playback by categorizing them when recording.
  - *Registering Files to Events* ([P.79](#))
- When "QUICK RESTART" is set to "ON", this unit turns on immediately if you open the LCD monitor within 5 minutes after the power is turned off by closing the monitor.
  - *QUICK RESTART* ([P.101](#))
- When "AUTO POWER OFF" is set to "ON", this unit turns itself off automatically to conserve power when it is not operated for 5 minutes. (only when using the battery pack)
  - *AUTO POWER OFF* ([P.99](#))
- When "FACE PRIORITY AE/AF" is set to "ON" (default setting), this unit detects faces and automatically adjusts its brightness and focus to record the faces more clearly.
  - *FACE PRIORITY AE/AF* ([P.79](#))
- If the remaining space on the recording media runs out while "SEAMLESS RECORDING" is set to "ON", recording continues after switching to another recording media.
  - *SEAMLESS RECORDING* ([P.81](#))

**CAUTION:**
- Do not expose the lens to direct sunlight.
- Do not use this unit in the rain, snow, or places with high humidity like the bathroom.
- Do not use this unit in places subject to excessive humidity or dust, as well as places exposed to steam or smoke directly.
- The access lamp lights up when video recording is in progress. Do not remove the battery pack, AC adapter, or SD card when the lamp is lighted.
- Make a backup of important recorded data. It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.
- Before recording an important scene, it is recommended to conduct a trial recording.
- Check the remaining recording time in the media before you start shooting. If there is not enough space, move (copy) the data to a PC or disc.
- Do not forget to make copies after recording!
- Recording stops automatically as it cannot be performed for 12 or more consecutive hours according to specifications. To ensure continuous recording, set "SEAMLESS RECORDING" to "ON" before you start recording.
  - *SEAMLESS RECORDING* ([P.81](#))
- For long recordings, the file is split into two or more files if the size exceeds 4 GB.
- You can connect this unit to the AC adapter to record for long hours indoors.
Zooming
The angle of view can be adjusted using zoom.

- Use the W end (wide angle end) to shoot a wider field of view.
- Use the T end (telephoto end) to magnify the subject for shooting.

Memo:
- When digital zoom is used, the image becomes grainy as it is digitally enlarged.
- The zoom ratio range can be changed.
  *Changing the Zoom Ratio Range* (P.80)

Capturing Still Images During Video Recording
Still images can be captured by pressing the SNAPSHOT button while in the video mode (standby or recording).

- "PHOTO" lights up on the screen when a still image is being captured.

  The still images captured during video recording are saved to the destination set in media settings.
  *REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)* (P.107)
  *IMAGE SLOT SELECTION (GZ-HM300)* (P.107)

Memo:
- The picture quality varies with the "IMAGE QUALITY" setting.
  *Changing Still Image Picture Quality* (P.85)

Reducing Camera Shake
When the digital image stabilizer is turned on, camera shake during recording can be effectively reduced.

- The setting of the image stabilizer switches with every touch.

<table>
<thead>
<tr>
<th>Display</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Image stabilizer 1)</td>
<td>Reduces camera shake under normal shooting conditions.</td>
</tr>
<tr>
<td>(Image stabilizer 2)</td>
<td>Reduces camera shake more effectively when shooting bright scenes on the wide angle end. <em>Only on the wide angle end (approx. 5x)</em></td>
</tr>
<tr>
<td>(OFF)</td>
<td>Deactivates image stabilizer.</td>
</tr>
</tbody>
</table>

Memo:
- It is recommended to switch off this mode when using a tripod and recording a subject with little movement.
- Complete stabilization may not be possible if camera shake is excessive.
- This setting is effective for video recording only.

Checking the Captured Image Immediately
You can check the most recently captured images while in the recording mode. (Quick Review)

Memo:
- You can also delete the image after checking.
- Quick Review can no longer recall the most recently captured image once the power is turned off.
  Use the playback mode to check the image in this case.
Taking Still Images in Auto Mode

You can record without worrying about the setting details by using the auto-mode.

1. Open the LCD monitor and select the still image mode.
   (Open the lens cover.)

   - The still image mode icon appears.

2. Check if the recording mode is Auto.

   - If the mode is Manual, touch the \text{A} button.
     The mode changes between Auto and Manual with every touch.

3. Set the focus on the subject.

   - When focused, the focus icon lights up in green.

4. Take a still image.

   - \text{PHOTO} lights up when a still image is being captured.

Indications During Still Image Recording

<table>
<thead>
<tr>
<th>Display Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording Mode</td>
<td>Press the \text{A} button to switch the recording mode between \text{A} (Auto) and \text{M} (Manual).</td>
</tr>
<tr>
<td>Image Size</td>
<td>Displays the icon of the image size. \text{IMAGE SIZE} (P.85)</td>
</tr>
<tr>
<td>Image Quality</td>
<td>Displays the icon of the \text{IMAGE QUALITY} setting selected in the recording menu. \text{IMAGE QUALITY} (P.85)</td>
</tr>
<tr>
<td>Number of Shots</td>
<td>Displays the remaining number of shots for still image recording.</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>Displays the shutter speed.</td>
</tr>
<tr>
<td>Focus</td>
<td>Lights up in green when focused.</td>
</tr>
<tr>
<td>Recording in Progress</td>
<td>Appears when a still image is being captured.</td>
</tr>
<tr>
<td>Recording Media</td>
<td>Displays the icon of the media where still images are recorded. The recording media can be changed. \text{REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)} (P.107) \text{IMAGE SLOT SELECTION (GZ-HM300)} (P.107)</td>
</tr>
<tr>
<td>Battery Indicator</td>
<td>Displays the approximate remaining battery power. Details of the battery power can be displayed by pressing the INFO button \text{M}. \text{Remaining Recording Time/Battery Power} (P.34)</td>
</tr>
</tbody>
</table>
### Operation Buttons for Still Image Recording

<table>
<thead>
<tr>
<th>Operation Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T/W Zoom</td>
<td>Functions as the zoom lever. (AP.23)</td>
</tr>
<tr>
<td>Quick Review</td>
<td>Enables the most recently captured still image to be viewed. (Checking the Captured Image Immediately) (AP.23)</td>
</tr>
<tr>
<td>Auto/Manual</td>
<td>Switches the recording mode between Auto and Manual.</td>
</tr>
</tbody>
</table>

**Memo:**
- The slider operation button cannot be used when the LCD monitor is flipped.
- The zoom appears when the slider is touched.

### Zooming

The angle of view can be adjusted using zoom.
- Use the W end (wide angle end) to shoot a wider field of view.
- Use the T end (telephoto end) to magnify the subject for shooting.

**Memo:**
- Digital zoom is not available in the still image recording mode.

### Checking the Captured Image Immediately

You can check the most recently captured images while in the recording mode. (Quick Review)

**Memo:**
- You can also delete the image after checking.
- Quick Review can no longer recall the most recently captured image once the power is turned off.
  Use the playback mode to check the image in this case.

---

### Useful Settings for Recording

- When "QUICK RESTART" is set to "ON", this unit turns on immediately if you open the LCD monitor within 5 minutes after the power is turned off by closing the monitor.
  "QUICK RESTART" (AP.101)
- When "AUTO POWER OFF" is set to "ON", this unit turns itself off automatically to conserve power when it is not operated for 5 minutes. (only when using the battery pack)
  "AUTO POWER OFF" (AP.99)
- When "FACE PRIORITY AE/AF" is set to "ON" (default setting), this unit detects faces and automatically adjusts its brightness and focus to record the faces more clearly.
  "FACE PRIORITY AE/AF" (AP.83)
- The image resolution can be changed.
  "IMAGE SIZE" (AP.85)

**CAUTION:**
- Do not expose the lens to direct sunlight.
- Do not use this unit in the rain, snow, or places with high humidity like the bathroom.
- Do not use this unit in places subject to excessive humidity or dust, as well as places exposed to steam or smoke directly.
- The access lamp lights up when video recording is in progress. Do not remove the battery pack, AC adapter, or SD card when the lamp is lighted.

**Memo:**
- Before recording an important scene, it is recommended to conduct a trial recording.
- The digital image stabilizer does not work when recording still images.
Manual Recording

You can adjust settings, such as brightness, by using the manual mode. Manual recording can be set for both video and still image modes.

1 Select video or still image mode.

- The video or still image mode icon appears.

2 Select the Manual recording mode.

- The mode changes between Auto and Manual with every touch.

3 Start recording.

- Press again to stop.

Memo:
- The manual settings are displayed only in the manual mode.

---

Manual Recording Menu

The following items can be set.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scene Select</td>
<td>Recordings that suit the shooting conditions can be performed easily.</td>
</tr>
<tr>
<td>Focus</td>
<td>Use manual focus if the subject is not focused automatically.</td>
</tr>
<tr>
<td>Focus Assist</td>
<td>Use this for adjusting the focus more precisely.</td>
</tr>
<tr>
<td>Brightness Adjust</td>
<td>Overall brightness on the screen can be adjusted.</td>
</tr>
<tr>
<td>White Balance</td>
<td>Overall color on the screen can be adjusted.</td>
</tr>
<tr>
<td>Backlight Comp.</td>
<td>Corrects the image when the subject appears dark due to backlight.</td>
</tr>
<tr>
<td>Metering Area/ Type</td>
<td>Brightness of a specified area can be set as the standard.</td>
</tr>
<tr>
<td>Effect</td>
<td>Images that look like old photographs or black-and-white movies can be taken.</td>
</tr>
<tr>
<td>Tele Macro</td>
<td>Use this to take close-up (macro) shots of the subject.</td>
</tr>
</tbody>
</table>

---

“Scene Selection” (P.25)
“Adjusting Focus Manually” (P.26)
“Using Focus Assist” (P.26)
“Adjusting Brightness” (P.27)
“Setting White Balance” (P.27)
“Setting Metering Area” (P.28)
“Recording with Effects” (P.29)
“Taking Close-up Shots” (P.29)
Scene Selection
Common scenes that are often encountered can be recorded with the most suitable settings.

1 Touch 📀 to display the menu.

2 Select “MANUAL SETTING” and touch 🖼️.

3 Select “SCENE SELECT” and touch 🖼️.

4 Select the scene and touch 🖼️.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIGHT EYE</td>
<td>Increases gain and brightens the scene automatically when the surrounding is dark. To prevent camera shake, use a tripod.</td>
</tr>
<tr>
<td>SPOT-LIGHT</td>
<td>Prevents the human subject from appearing too bright under light.</td>
</tr>
</tbody>
</table>

*The image is only an impression.*
Adjusting Focus Manually
Set this when the focus is not clear in “AUTO” or when manual focusing is desired.

1 Touch \( \odot \) to display the menu.

2 Select “MANUAL SETTING” and touch \( \odot \).

3 Select “FOCUS” and touch \( \odot \).

4 Select “MANUAL” and touch \( \odot \).

5 Adjust the focus with the slider.

- Slide upward to focus on a distant subject.
- Slide downward to focus on a near subject.

6 Touch \( \odot \) to confirm.

Memo:
- A subject that is focused at the telephoto (T) end remains in focus when it is zoomed out to the wide angle (W) end.

Using Focus Assist
Focused subject is outlined in color for more precise focus.

1 Touch \( \odot \) to display the menu.

2 Select “MANUAL SETTING” and touch \( \odot \).

3 Select “FOCUS ASSIST” and touch \( \odot \).

4 Adjust the focus with the slider.

5 Touch \( \odot \) to confirm.

Memo:
- The image becomes black and white while the outline of the focused object is displayed in the selected color. Change outline color if it becomes difficult to see.

"FOCUS ASSIST COLOR" (Ref. P.96)
Adjusting Brightness
You can adjust the brightness to your preferred level.

1 Touch \( \circ \) to display the menu.

2 Select “MANUAL SETTING” and touch \( \circ \).

3 Select “BRIGHTNESS ADJUST” and touch \( \circ \).

4 Select “MANUAL” and touch \( \circ \).

5 Select the brightness value with the slider.

- Compensation range during video recording: -6 to +6
- Compensation range during still image recording: -2.0 to +2.0
- Slide upward to increase the brightness.
- Slide downward to decrease the brightness.

6 Touch \( \circ \) to confirm.

Setting White Balance
You can set the color tone to suit the light source.

1 Touch \( \circ \) to display the menu.

2 Select “MANUAL SETTING” and touch \( \circ \).

3 Select “WHITE BALANCE” and touch \( \circ \).

4 Select the desired setting and touch \( \circ \).

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>Adjusts automatically to the natural colors.</td>
</tr>
<tr>
<td>MWB</td>
<td>Use this when the problem of unnatural colors is not resolved.</td>
</tr>
<tr>
<td>FINE</td>
<td>Set this when shooting outdoors on a sunny day.</td>
</tr>
<tr>
<td>CLOUD</td>
<td>Set this when shooting on a cloudy day or inside a shade.</td>
</tr>
<tr>
<td>HALOGEN</td>
<td>Set this when shooting under illumination such as a video light.</td>
</tr>
</tbody>
</table>

Using MWB

1 Hold a sheet of plain white paper in front of the lens so that the white paper fills the screen.

2 Select “MWB” and keep touching \( \circ \).
   - The cursor blinks.

3 Release \( \circ \) after the menu disappears.
Setting Backlight Compensation
You can correct the image when the subject appears too dark due to backlight.

1 Touch ◎ to display the menu.

2 Select “MANUAL SETTING” and touch ◎.

3 Select “BACKLIGHT COMP.” and touch ◎.

4 Select “ON” and touch ◎.

Setting Metering Area
You can set the brightness of a specified area as the standard.

1 Touch ◎ to display the menu.

2 Select “MANUAL SETTING” and touch ◎.

3 Select “METERING AREA/TYPE” and touch ◎.

4 Select “SPOT” and touch ◎.

● When “SPOT” is selected, select the position of the spot frame by touching the operation buttons “←”/”→”.
After selecting, touch ◎ to confirm.
Recording with Effects
You can add various effects to videos and still images to create a different atmosphere from the usual recording.

*The image is only an impression.

1 Touch  to display the menu.

2 Select “MANUAL SETTING” and touch  

3 Select “EFFECT” and touch  

4 Select the effect and touch  

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>No effect.</td>
</tr>
<tr>
<td>SEPIA</td>
<td>Gives images a brownish tint like old photographs.</td>
</tr>
<tr>
<td>BLACK &amp; WHITE</td>
<td>Records in black and white like old TV images.</td>
</tr>
<tr>
<td>CLASSIC FILM</td>
<td>Skips frames to give images of the effect of an old movie.</td>
</tr>
<tr>
<td></td>
<td>● This can only be set in the video mode.</td>
</tr>
<tr>
<td>STROBE</td>
<td>Enables the image to look like a series of consecutive snapshots by skipping frames.</td>
</tr>
<tr>
<td></td>
<td>● This can only be set in the video mode.</td>
</tr>
</tbody>
</table>

Memo:
• Settings can be adjusted separately for videos and still images.

<table>
<thead>
<tr>
<th>Video</th>
<th>SEPIA / BLACK &amp; WHITE / CLASSIC FILM / STROBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Still Image</td>
<td>SEPIA / BLACK &amp; WHITE</td>
</tr>
</tbody>
</table>

Taking Close-up Shots
You can take close-up shots of an object using the tele macro function.

*The image is only an impression.

1 Touch  to display the menu.

2 Select “MANUAL SETTING” and touch  

3 Select “TELE MACRO” and touch  

4 Select “ON” and touch  

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Enables close-up shots up to 1 m at the telephoto (T) end. Enables close-up shots up to 5 cm at the wide angle (W) end.</td>
</tr>
<tr>
<td>ON</td>
<td>Enables close-up shots up to 60 cm at the telephoto (T) end. Enables close-up shots up to 5 cm at the wide angle (W) end.</td>
</tr>
</tbody>
</table>

Warning
• When you are not taking close-up shots, set “TELE MACRO” to OFF. Otherwise, the image may be blur.
Registering Files to Events Before Recording

Videos can be found easily during playback by categorizing them when recording.

1 Select video mode.

2 Touch \( \text{HOME} \) to display the menu.

3 Select "REGISTER EVENT" and touch \( \text{SELECT} \).

4 Select the event type and touch \( \text{SELECT} \).

<table>
<thead>
<tr>
<th>Event Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>VACATION</td>
</tr>
<tr>
<td>HOLIDAY</td>
</tr>
<tr>
<td>SPORTS</td>
</tr>
<tr>
<td>ANNIVERSARY</td>
</tr>
<tr>
<td>CONGRATULATIONS</td>
</tr>
<tr>
<td>BABY</td>
</tr>
<tr>
<td>SON</td>
</tr>
<tr>
<td>DAUGHTER</td>
</tr>
<tr>
<td>BIRTHDAY</td>
</tr>
<tr>
<td>GRADUATION</td>
</tr>
</tbody>
</table>

• An icon appears on the screen and the video is recorded under the selected event.
  (Videos will continue to be recorded to the same event until a change is made.)

Memo:
• To cancel event registration, touch "CANCEL" in step 4.

Taking Videos in YouTube™ Format

You can share your enjoyable memories with family and friends easily by posting your videos on the video sharing website YouTube™. Through upload shooting, videos that are suitable for uploading to YouTube™ (within 10 minutes) may be taken directly.

Memo:
For more information on YouTube™, please visit the following website.
http://www.youtube.com/

1 Select video mode.

• The video mode icon appears.

2 Press the UPLOAD button and switch on the function.

• The mode switches between ON and OFF with every press.

3 Start recording.

• Press again to stop.
• The maximum recording length of a video in upload mode is 10 minutes.
  Recording stops automatically after 10 minutes.

Memo:
• Upload recording can only be performed for up to 10 minutes, the time limit of YouTube™.
• Changing videos to the file format for uploading cannot be performed on this unit.
  To upload video files, refer to "Uploading Videos" below.
• The upload recording icon disappears when recording stops.
  To record another video in upload mode, perform the settings again.

Taking Videos in YouTube™ Format
Uploading Videos
You can upload your videos to YouTube™ using the provided software "Everio MediaBrowser".
Install the software on your PC and connect this unit to the PC.
● For details on how to use the software, refer to the help file.
"Installing the Provided Software" (☞ P.70)
"Connecting this Unit to PC" (☞ P.70)

Trouble with Uploading Videos
● Check if you have created an account with YouTube™.
(You need a YouTube™ account to upload files to YouTube™.)
● Refer to "Q&A", "Latest Information", "Download Information", etc. in "Click for Latest Product Info" in the help file of the provided software "Everio MediaBrowser".

Recording at Intervals (TIME-LAPSE RECORDING)
This function enables the changes of a scene that occur slowly over a long period to be shown within a short time by taking frames of it at a certain interval.
This is useful for making observations such as the opening of a flower bud.

1 Select video mode.

2 Touch to display the menu.

3 Select "TIME-LAPSE RECORDING" and touch .

4 Select a recording interval (1 to 80 seconds) and touch .

● The greater the number of seconds, the longer the recording interval.

5 Start recording.

● A frame is taken at intervals of the selected period.
● When the recording interval is set to "20SEC INTERVAL" or higher, this unit switches to the power-saving mode between recordings.
At the next point to record, the power-saving mode will be turned off and recording will start automatically.
● Press the START/STOP button again to stop recording.

Indications During Time-Lapse Recording
### Time-Lapse Setting

The greater the number of seconds, the longer the recording interval.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>1SEC INTER-VAL</td>
<td>Takes a frame at 1-second intervals. Recorded videos will be played back at 30 times speed.</td>
</tr>
<tr>
<td>2SEC INTER-VAL</td>
<td>Takes a frame at 2-second intervals. Recorded videos will be played back at 60 times speed.</td>
</tr>
<tr>
<td>5SEC INTER-VAL</td>
<td>Takes a frame at 5-second intervals. Recorded videos will be played back at 150 times speed.</td>
</tr>
<tr>
<td>10SEC INTER-VAL</td>
<td>Takes a frame at 10-second intervals. Recorded videos will be played back at 300 times speed.</td>
</tr>
<tr>
<td>20SEC INTER-VAL</td>
<td>Takes a frame at 20-second intervals. Recorded videos will be played back at 600 times speed.</td>
</tr>
<tr>
<td>40SEC INTER-VAL</td>
<td>Takes a frame at 40-second intervals. Recorded videos will be played back at 1200 times speed.</td>
</tr>
<tr>
<td>80SEC INTER-VAL</td>
<td>Takes a frame at 80-second intervals. Recorded videos will be played back at 2400 times speed.</td>
</tr>
</tbody>
</table>

### CAUTION:
- Audio cannot be recorded during time-lapse recording.
- Zooming, simultaneous still image recording, and image stabilizer are not available in time-lapse recording.
- When recording is stopped with the recorded time less than "0:00:00:17", the video will not be saved.
- Image quality cannot be changed after time-lapse shooting is selected. Set it before selecting time-lapse shooting.

### Memo:
- Settings of time-lapse recording are saved even when the power is turned off. When the power is turned on, "TIME LAPSE" appears on the screen.
- Recording stops automatically 99 hours after it is started.
- Make use of a tripod and AC adapter for time-lapse recordings with long intervals. It is also recommended to fix the focus and white balance manually.

* "Tripod Mounting" (☞ P.16)
* "Adjusting Focus Manually" (☞ P.26)
* "Setting White Balance" (☞ P.27)
**Recording Automatically by Sensing Movements (AUTO REC)**

This function enables the unit to record automatically by sensing the changes in subject’s movement (brightness) within the red frame displayed on the LCD monitor. (AUTO REC) It can be set for both video and still image modes.

1. **Select video or still image mode.**
2. **Compose the picture according to the subject.**
   - Adjust the angle of view with the zoom, etc.
3. **Touch [ ] to display the menu.**
4. **Select “AUTO REC” and touch [ ].**
5. **Select “ON” and touch [ ].**
6. **Recording starts automatically when the subject within the red frame moves.**

- A red frame appears 2 seconds after the menu display disappears.
- For video recording, recording continues while there are still movements of the subject (changes in brightness) within the red frame. When there are no more movements of the subject (changes in brightness) within the red frame, recording will stop in 5 seconds.
- To stop video recording manually, press the START/STOP button. However, as the AUTO REC setting remains at ON even after the video recording is stopped, recording starts again when movements of the subject (changes in brightness) are detected within the red frame. To cancel AUTO REC, set it to “OFF”.

**CAUTION:**
- The only manual recording setting available is “TELE MACRO”.

**Memo:**
- Recording stops when there are no changes for 5 seconds during video recording.
- Recording may not start when the movements of the subject within the red frame are too fast or the changes in brightness are too small.
- Recording may not start when the change in brightness is too small.
- Recording may stop due to changes in brightness even if there is no movement of the subject within the red frame.
- The performance of AUTO REC is affected by its sensitivity to the surrounding brightness. The function may not work with certain environments.
- While zooming, recording cannot be started.

The rest are all set to “AUTO”.

- Digital zoom, image stabilizer, self-timer, and continuous shooting are not available after AUTO REC is set.
- AUTO REC cannot be used together with TIME-LAPSE RECORDING. When both are set, priority is given to TIME-LAPSE RECORDING.
- The auto power off and power-saving modes are not available after AUTO REC is set.
Remaining Recording Time/Battery Power

You can check the remaining video recording time on the internal memory and SD card as well as the remaining battery power.

1 Select video mode.

- The video mode icon appears.

2 Press 开.

- Press once to display the remaining recording time of the selected media for video recording. Go to step 3.
- Press twice to display the remaining recording time of the other media. Go to step 4.
- Press thrice to display the remaining battery power. Go to step 5.

3 Display the remaining recording time of the selected media for video recording.

- To set/change this media as the recording media, touch 开.
- To change the video quality, select video quality with the slider and touch 开.
- To display the remaining battery power, touch the "电池" button.
- To display the remaining recording time of the other media, press the INFO button 开 once.
- To exit the display, touch the 取消 button.

4 Display the remaining recording time of the other media.

- To set/change this media as the recording media, touch 开.
- To change the video quality, select video quality with the slider and touch 开.
- To display the remaining battery power, touch the "电池" button.
- To exit the display, touch the 取消 button.

5 Display the remaining battery power.

- To exit the display, press the INFO button 开 or touch the 取消 button.

Memo:
- The remaining battery power will not be displayed when the AC adapter is connected.
### Approximate Video Recording Time

<table>
<thead>
<tr>
<th>Quality</th>
<th>Built-in Memory 8 GB</th>
<th>Built-in Memory 16 GB</th>
<th>SD Card/SDHC Card 4 GB</th>
<th>SD Card/SDHC Card 8 GB</th>
<th>SD Card/SDHC Card 16 GB</th>
<th>SD Card/SDHC Card 32 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>UXP</td>
<td>40 m</td>
<td>1 h 25 m</td>
<td>20 m</td>
<td>40 m</td>
<td>1 h 20 m</td>
<td>2 h 40 m</td>
</tr>
<tr>
<td>XP</td>
<td>1 h</td>
<td>2 h</td>
<td>30 m</td>
<td>1 h</td>
<td>2 h</td>
<td>4 h</td>
</tr>
<tr>
<td>SP</td>
<td>1 h 25 m</td>
<td>2 h 55 m</td>
<td>44 m</td>
<td>1 h 28 m</td>
<td>2 h 56 m</td>
<td>5 h 52 m</td>
</tr>
<tr>
<td>EP</td>
<td>3 h 35 m</td>
<td>7 h 20 m</td>
<td>1 h 50 m</td>
<td>3 h 40 m</td>
<td>7 h 20 m</td>
<td>14 h 40 m</td>
</tr>
</tbody>
</table>

- Built-in memory applies to GZ-HM340/GZ-HM320 only.
- The actual recording time may shorten depending on the shooting environment.

### Approximate Number of Still Images (Unit: Number of Shots)

<table>
<thead>
<tr>
<th>Image Size</th>
<th>Quality</th>
<th>Built-in Memory 8 GB</th>
<th>SD Card 256 MB</th>
<th>SD Card 512 MB</th>
<th>SD Card 1 GB</th>
<th>SD Card 2 GB</th>
<th>SD/SDHC Card 4 GB</th>
<th>SD/SDHC Card 8 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1080 (16:9)</td>
<td>FINE</td>
<td>8260</td>
<td>260</td>
<td>510</td>
<td>1030</td>
<td>2100</td>
<td>4140</td>
<td>8330</td>
</tr>
<tr>
<td>1920x1080 (16:9)</td>
<td>STANDARD</td>
<td>9999</td>
<td>410</td>
<td>810</td>
<td>1620</td>
<td>3210</td>
<td>6310</td>
<td>9999</td>
</tr>
<tr>
<td>1440x1080 (4:3)</td>
<td>FINE</td>
<td>9999</td>
<td>340</td>
<td>680</td>
<td>1360</td>
<td>2770</td>
<td>5450</td>
<td>9999</td>
</tr>
<tr>
<td>1440x1080 (4:3)</td>
<td>STANDARD</td>
<td>9999</td>
<td>540</td>
<td>1070</td>
<td>2140</td>
<td>4360</td>
<td>8570</td>
<td>9999</td>
</tr>
<tr>
<td>640x480 (4:3)</td>
<td>FINE</td>
<td>9999</td>
<td>1690</td>
<td>3330</td>
<td>6670</td>
<td>9999</td>
<td>9999</td>
<td>9999</td>
</tr>
<tr>
<td>640x480 (4:3)</td>
<td>STANDARD</td>
<td>9999</td>
<td>3050</td>
<td>5990</td>
<td>9999</td>
<td>9999</td>
<td>9999</td>
<td>9999</td>
</tr>
</tbody>
</table>

- Up to 9999 still images may be recorded on the built-in memory or SD cards with at least 16 GB capacity (regardless of image size and quality).

### Approximate Recording Time (Using Battery)

<table>
<thead>
<tr>
<th>Battery Pack</th>
<th>Charging Time</th>
<th>Actual Recording Time</th>
<th>Continuous Recording Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN-VG114U</td>
<td>2 h 30 m</td>
<td>1 h</td>
<td>1 h 45 m</td>
</tr>
<tr>
<td>BN-VG121U</td>
<td>3 h 30 m</td>
<td>1 h 30 m</td>
<td>2 h 40 m</td>
</tr>
</tbody>
</table>

- The above are values when “LCD BACKLIGHT” is set to “STANDARD”.
- The actual recording time may be shorter if zooming is used or if recording is stopped repeatedly.
  (It is recommended to prepare battery packs ready for three times the expected recording time.)
- When the battery life is reached, the recording time becomes shorter even if the battery pack is fully charged.
  (Replace the battery pack with a new one.)
Playing Back Videos

You can select and play back the recorded videos from an index screen (thumbnail display).

The contents of the saving destination selected in "REC MEDIA FOR VIDEO" or "VIDEO SLOT SELECTION" are displayed on the index screen.

*REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320)" (☞ P.106)
*VIDEO SLOT SELECTION (GZ-HM300)" (☞ P.106)

1 Select the playback mode.

2 Select video mode.

3 Select the desired video and touch ●.

• If the cursor stops at a thumbnail display of a video in which faces are detected, the faces are panned in and played back for a while.

• Touch ■ to stop playback.

Operation Buttons for Video Playback

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>◀/▶</td>
<td>Starts playback of the selected file.</td>
</tr>
<tr>
<td>DIGEST</td>
<td>You can play back a digest of the recorded videos.</td>
</tr>
<tr>
<td>··</td>
<td>You can search for a specific file by the recording date or registered category (event).</td>
</tr>
<tr>
<td>-/↑</td>
<td>Deletes the selected file.</td>
</tr>
<tr>
<td>▲/▼</td>
<td>Press and hold to move the pages of the index screen.</td>
</tr>
</tbody>
</table>

During Video Playback

During Index Screen Display

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>◀/▶</td>
<td>Starts playback of the selected file.</td>
</tr>
<tr>
<td>DIGEST</td>
<td>You can play back a digest of the recorded videos.</td>
</tr>
<tr>
<td>-/↑</td>
<td>Deletes the selected file.</td>
</tr>
<tr>
<td>▲/▼</td>
<td>Press and hold to move the pages of the index screen.</td>
</tr>
</tbody>
</table>

Memo:

• Touch the slider and buttons around the screen with your fingers.

• The slider and buttons do not function if you touch them with your fingernails or with gloves on.

• The displays on the screen do not work even if you touch them.

• You can search for a specific file by the recording date or registered category (event).

This is useful when searching from a large number of files.

*Group Search" (☞ P.40)
*Search Date" (☞ P.40)
*Search Event" (☞ P.41)

CAUTION:

• Make a backup of important recorded data.

It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.

Adjusting the Volume of Videos

Checking the Recording Date and Other Information

You can display the recording date and duration of the selected file.

Increasing/Decreasing the Number to Display on the Index Screen.

Operate the zoom lever when the index screen is displayed (thumbnail display) to change the number of files on the screen in the following order: 6 files → 12 files → 3 files.

• Information of the files also appear when 3 files are displayed.
Checking the Content of Videos Quickly
You can play back a digest of the recorded videos (Digest Playback). This is useful for checking the content of the videos quickly.

Operation Buttons for Digest Playback

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>➥/_pixels</td>
<td>Playback/pause</td>
</tr>
<tr>
<td>■</td>
<td>Stop (returns to thumbnail display)</td>
</tr>
<tr>
<td>➥ NORM</td>
<td>Returns to normal playback.</td>
</tr>
<tr>
<td>➥_pixels</td>
<td>Advances to the next video</td>
</tr>
<tr>
<td>➥_pixels</td>
<td>Returns to the beginning of the scene</td>
</tr>
<tr>
<td>➥_pixels</td>
<td>Forward search</td>
</tr>
<tr>
<td>➥_pixels</td>
<td>Reverse search</td>
</tr>
<tr>
<td>➥_pixels</td>
<td>Forward slow-motion</td>
</tr>
<tr>
<td>➥_pixels</td>
<td>Reverse slow-motion</td>
</tr>
</tbody>
</table>

Playing a Video with Defective Management Information
Plays videos with defective management information.

1 Select the playback mode.

2 Select video mode.

3 Touch to display the menu.

4 Select “PLAYBACK OTHER FILE” and touch .

5 Select the desired video and touch .

“Operation Buttons for Video Playback” (P.36)

Memo:
- An MTS file is created in the EXTMOV folder when management information is corrupted.
- Depending on the condition of the damaged file, playback might fail or may not run smoothly.
### Playback with Special Effects

You can add effects to the beginning and end of recorded videos.

1. Select the playback mode.

2. Select video mode.

3. Touch \( \text{Setting Menu} \) to display the menu.

4. Select “WIPE/FADER” and touch \( \text{Select Effect} \).

5. Select a desired effect and touch \( \text{Select Effect} \).

6. Select the desired video and touch \( \text{Select Effect} \).

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turns off the effect.</td>
</tr>
<tr>
<td>FADER-WHITE</td>
<td>Fades in or out with a white screen.</td>
</tr>
<tr>
<td>FADER-BLACK</td>
<td>Fades in or out with a black screen.</td>
</tr>
<tr>
<td>WIPE-SLIDE</td>
<td>Wipes in from right to left, or wipes out in the opposite way.</td>
</tr>
<tr>
<td>WIPE-DOOR</td>
<td>Wipes in as the two halves of a black screen which open to the left and right revealing the scene, or wipes out in the opposite way.</td>
</tr>
<tr>
<td>WIPE-SCROLL</td>
<td>Wipes in from the bottom to the top of a black screen, or wipes out in the opposite way.</td>
</tr>
<tr>
<td>WIPE-SHUTTER</td>
<td>Wipes in from the center of a black screen toward the top and bottom, or wipes out in the opposite way.</td>
</tr>
</tbody>
</table>

**Memo:**
- The effect will not be applied to a recorded video less than 7 seconds.
Playing Back Still Images

You can select and play back the recorded still images from an index screen (thumbnail display).
The contents of the saving destination selected in “REC MEDIA FOR IMAGE” or “IMAGE SLOT SELECTION” are displayed on the index screen.

*REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)*  (See P.107)
*IMAGE SLOT SELECTION (GZ-HM300)*  (See P.107)

1 Select the playback mode.

2 Select still image mode.

3 Select a still image and touch ☑ to start playback.

1. Touch ■ to stop playback.

During Still Image Playback

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>➤/❚❚</td>
<td>Start/pause slideshow</td>
</tr>
<tr>
<td>■</td>
<td>Stop (returns to thumbnail display)</td>
</tr>
<tr>
<td>➤ ➤</td>
<td>Advances to the next still image</td>
</tr>
<tr>
<td>➤❚❚</td>
<td>Returns to the previous still image</td>
</tr>
<tr>
<td>◄</td>
<td>Plays back in reverse order during a slideshow.</td>
</tr>
<tr>
<td>▶</td>
<td>Plays back in normal ascending order during a slideshow.</td>
</tr>
<tr>
<td>☑</td>
<td>Face Detection Zoom</td>
</tr>
</tbody>
</table>

*Face Detection Zoom*  (See P.53)

Memo:

- Touch the slider and buttons around the screen with your fingers.
- The slider and buttons do not function if you touch them with your fingernails or with gloves on.
- The displays on the screen do not work even if you touch them.
- You can search for a specific file by the recording date. This is useful when searching from a large number of files.

*Search Date*  (See P.40)

Checking the Recording Date and Other Information

You can display the recording date and duration of the selected file.

Increasing/Decreasing the Number to Display on the Index Screen.

Operate the zoom lever when the index screen is displayed (thumbnail display) to change the number of files on the screen in the following order: 6 files → 12 files → 3 files.

- Information of the files also appear when 3 files are displayed.

Slideshow Playback

Still images can be played back in a slideshow.

Start the slideshow by pressing the play button during still image playback.

*Operation Buttons for Still Image Playback*  (See P.39)

Memo:

- Effects can be added to the transitions in slideshow playback.

*SLIDE SHOW EFFECTS*  (See P.93)
Searching for a Specific Video/Still Image

When there is a large number of recorded videos and still images, it is difficult to look for the desired file from the index screen. Use the search function to find the file you want.

- For videos, you can search by “GROUP”, “SEARCH DATE”, or “SEARCH EVENT”.
- For still images, you can search by “SEARCH DATE”.

“To search by groups with similar recording dates” (☞ P.40)
“To search by recording dates” (☞ P.40)
“To search by events and recording dates” (☞ P.41)

Group Search
You can search and play videos which are automatically grouped according to similar recording dates.

- The contents of the saving destination selected in “REC MEDIA FOR VIDEO” or “VIDEO SLOT SELECTION” are searched.

1 Display the search function.

2 Select “GROUP” and touch ◎.

3 Select from the index screen (thumbnails) and touch ◎ to start playback.

- The video starts playing.
- Touch ■ to stop playback.

Memo:
- Touch “DIGEST” to play back a few seconds from each video, allowing you to check the contents of many videos in a short time.
- Groups are created automatically according to recording dates.
- The group may change when the recording is continued.
- Select “DELETE” from the playback menu to delete unwanted files.

Deleting Files of a Selected Date:
Select “DELETE” from the playback menu to delete unwanted files.

Search Date
You can search and play videos or still images according to recording dates.

- The contents of the saving destination selected in “REC MEDIA FOR VIDEO”, “REC MEDIA FOR IMAGE”, “VIDEO SLOT SELECTION”, or “IMAGE SLOT SELECTION” are searched.

- Still images can only be searched by “SEARCH DATE”.

1 Display the search function.

2 Select “SEARCH DATE” and touch ◎.

3 Select a recording date and touch ◎.

- The starting day of the week on the calendar switches between Sunday and Monday with every touch of the ◎ button.

4 Select the desired video or still image and touch ◎ to start playback.

- You can select videos in the video mode and still images in the still image mode.
- Only the videos recorded on the selected date are displayed.
Search Event
You can search and play videos according to events and recording dates.

- The contents of the saving destination selected in "REC MEDIA FOR VIDEO" or "VIDEO SLOT SELECTION" are searched.
- Events that are not registered will not appear.

*Registering Files to Events* (e.p. P.79)

1. Display the search function.

2. Select "SEARCH EVENT" and touch .

3. Select the event type and touch .

4. Select a recording date and touch .

- The starting day of the week on the calendar switches between Sunday and Monday with every touch of the button.
- Only the videos recorded on the selected date are displayed.

5. Select the desired file and touch to start playback.

You can also display the search menu by selecting “SEARCH” on the playback menu.

Deletions Files of a Selected Date :
Select "DELETE" from the playback menu to delete unwanted files.

*Deleting Unwanted Files* (e.p. P.44)

Connecting to and Viewing on TV
You can output images from the HDMI connector, COMPONENT connector, or AV connector. Select the connector that best suits your TV.

- Refer also to the instruction manual of the TV in use.
- "Connecting via the HDMI Mini Connector" (e.p. P.42)
- "Connecting via the Component Connector" (e.p. P.43)
- "Connecting via the AV Connector" (e.p. P.43)

**Memo:**
- To play back with date/time display, set "DISPLAY ON TV" in the connection settings menu to "ON". Set "ON-SCREEN DISPLAY" in the playback menu to "DISPLAY ALL" or "DISPLAY DATE ONLY".
- "DISPLAY ON TV" (e.p. P.103)
- "ON-SCREEN DISPLAY" (e.p. P.91)
- For questions about the TV or method of connection, contact your TV's manufacturer.

Unnatural Displays on TV

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Images do not appear on the TV properly.</td>
<td>- Disconnect the cable and connect again.</td>
</tr>
<tr>
<td></td>
<td>- Turn off and on this unit again.</td>
</tr>
<tr>
<td></td>
<td>- When connected via the component connector, check if the setting of</td>
</tr>
<tr>
<td></td>
<td>&quot;COMPONENT OUTPUT&quot; in the connection settings menu suits the connected</td>
</tr>
<tr>
<td></td>
<td>TV. (Set to &quot;1080i&quot; by default)</td>
</tr>
<tr>
<td>Images are projected vertically on the TV.</td>
<td>- Set &quot;VIDEO OUTPUT&quot; in the connection settings menu to &quot;4:3&quot;.</td>
</tr>
<tr>
<td></td>
<td>&quot;VIDEO OUTPUT&quot; (e.p. P.103)</td>
</tr>
<tr>
<td>Images are projected horizontally on the TV.</td>
<td>- Adjust the TV's screen accordingly.</td>
</tr>
<tr>
<td>The color of images looks strange.</td>
<td>- If the video was recorded with &quot;x.v.Color&quot; set to &quot;ON&quot;, set the x.v.Color setting of the TV to on.</td>
</tr>
<tr>
<td></td>
<td>- Adjust the TV's screen accordingly.</td>
</tr>
<tr>
<td>HDMI-CEC functions do not work properly, and</td>
<td>- TVs may operate differently depending on the specifications, even if</td>
</tr>
<tr>
<td>the TV does not work in conjunction with this unit.</td>
<td>they are HDMI-CEC compliant. Therefore, the HDMI-CEC functions of this unit cannot be guaranteed to operate in combination with all the TVs. In such cases, set &quot;HDMI CONTROL&quot; to &quot;OFF&quot;.</td>
</tr>
<tr>
<td>The language on the display changed.</td>
<td>- It may occur when you connect this unit to a TV with different language setting using an HDMI mini cable.</td>
</tr>
</tbody>
</table>
Connecting via the HDMI Mini Connector

We recommend using the Category 2 HDMI cable (High Speed cable).

1 Connect to the TV.
   - Press and hold the power button for 2 seconds or more to turn off the power.

2 Connect the AC adapter to this unit.

3 Press the external input button on the TV to switch to the input from this unit via the connected terminal.

4 Play back a file.

"Playing Back Videos" (P.36)
"Playing Back Still Images" (P.39)

Memo:
- Change the settings in "HDMI OUTPUT" according to the connection.
- "HDMI OUTPUT" (P.104)
- When connecting to the HDMI mini cable, the image or sound may not appear on the TV properly depending on the TV connected. In such cases, perform the following operations.
  1) Disconnect the HDMI mini cable and connect it again.
  2) Turn off and on this unit again.
- Connecting this unit to an HDMI-CEC-enabled TV using the HDMI cable allows you to utilize the following convenient functions.
- "Operating in Conjunction with TV via HDMI" (P.42)

Operating in Conjunction with TV via HDMI

Connecting this unit to an HDMI-CEC-enabled TV using the HDMI cable allows you to utilize the following convenient functions.
- HDMI-CEC (Consumer Electronics Control) is an industry standard that enables interoperability between HDMI-CEC compliant devices that are connected via HDMI cables.

Memo:
- Not all HDMI-control devices comply with the HDMI-CEC standard. The HDMI control function of this unit will not work when connected to these devices.
- This unit is not guaranteed to operate with all HDMI-CEC-enabled devices.
- Depending on the specifications of each HDMI-CEC-enabled device, some functions may not work with this unit. (For details, refer to the instruction manual of your TV.)
- Unintended operations may occur with some connected devices. In these cases, set "HDMI CONTROL" to "OFF".
- "HDMI CONTROL" (P.105)

Preparations
- Connect an HDMI cable between this unit and the TV.
- Turn on the TV and set the HDMI-CEC related setting to "ON". (For details, refer to the instruction manual of the TV.)
- Turn on this unit and set "HDMI CONTROL" to "ON".
- "HDMI CONTROL" (P.105)

Operation Method 1

1 Turn on this unit.
2 Select the playback mode.
3 Connect the HDMI cable.
   - TV turns on automatically and switches to HDMI input mode when this unit is turned on.

Operation Method 2

1 Turn off the TV.
   - This unit turns off automatically.

Memo:
- Depending on the TV connected, the display language of this unit will automatically switch to the language that is selected for the TV when this unit is turned on. (This is applicable only if this unit supports the language selected for the TV.) To use this unit with a language that differs from the display language of the TV, set "HDMI CONTROL" to "OFF".
- "HDMI CONTROL" (P.105)
- The display language of the TV will not switch automatically, even if the display language of this unit is changed.
- These functions may not work correctly when devices such as amplifier and selector are connected. Set "HDMI CONTROL" to "OFF".
- "HDMI CONTROL" (P.105)
- If HDMI-CEC does not work properly, turn off and on this unit again.

CAUTION:
- Do not remove the recording medium or perform any other operation (such as turning off the power) while accessing files. Also, be sure to use the provided AC adapter, as the data on the recording medium may be corrupted if the battery becomes exhausted during operation. If the data on the recording medium becomes corrupted, format the recording medium to use the medium again.
Connecting via the Component Connector

1 Connect to the TV.

2 Connect the AC adapter to this unit.

3 Press the external input button on the TV to switch to the input from this unit via the connected terminal.

4 Play back a file.

**Memo:**
- Press and hold the power button for 2 seconds or more to turn off the power.

**Connecting via the AV Connector**

1 Connect to the TV.

2 Connect the AC adapter to this unit.

3 Press the external input button on the TV to switch to the input from this unit via the connected terminal.

4 Play back a file.

**Memo:**
- Press and hold the power button for 2 seconds or more to turn off the power.

**Memo:**
- Change the settings in “COMPONENT OUTPUT” according to the connection.
  - “COMPONENT OUTPUT” (See P.104)
Playing Back Playlists

Play back the playlists that you have created.

1 Select the playback mode.

2 Select video mode.

3 Touch \(\bigcirc\) to display the menu.

4 Select “PLAYBACK PLAYLIST” and touch \(\bigcirc\).

5 Select the desired playlist and touch \(\bigcirc\) to start playback.

“Operation Buttons for Playback” (P.36)
- Touch “CHECK” to check the content of the selected playlist.
- To exit the playback, touch \(\bigcirc\).

Creating Playlists:
- “Creating Playlists from the Recorded Videos” (P.57)
- “Adding Title Screens to Playlists (GZ-HM340/GZ-HM320)” (P.63)

Deleting Unwanted Files

Delete unwanted videos and still images when the space in the recording media is running out.

The capacity of the recording media can be restored after deleting the files.
*Deleting the Currently Displayed File* (P.44)
*Deleting Selected Files* (P.45)
*Deleting All Files* (P.46)

Memo:
- Deleted files cannot be restored.
- When files in a playlist are deleted, the playlist changes.
- Files that are protected cannot be deleted.
  - Release protection before deleting the file.
*Protecting Files* (P.47)
- Back up all wanted files to your PC.
*Backing Up All Files* (P.70)

CAUTION:
- Do not remove the recording medium or turn off the power while accessing files.
- Use the provided AC adapter.
- If the data on the recording medium becomes corrupted, reformat the medium again.
*FORMAT BUILT-IN MEM. (GZ-HM340/GZ-HM320)* (P.107)
*FORMAT SD CARD* (P.108)

Deleting the Currently Displayed File

Deletes the currently displayed file.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch \(\bigcirc\) to display the menu.

4 Select “DELETE” and touch \(\bigcirc\).

5 Select “CURRENT” and touch \(\bigcirc\).
6 Check that it is the file to delete, select “YES” and touch C.

- The file to delete appears on this screen.
- Touch the operation buttons “←” / “→” to select the previous or next file.
- After deleting, touch D.

Memo:
- When files in a playlist are deleted, the playlist changes.
- Files that are protected cannot be deleted.
  Release protection before deleting the file.
  “Protecting Files” (P.47)

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.

Deleting Selected Files
Deletes the selected files.

CAUTION:
- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch C to display the menu.

4 Select “DELETE” and touch C.

5 Select “FILE SELECT” and touch C.

6 Select the desired file and touch C.

7 After selecting all the files to delete, touch “EXEC”.
A delete mark appears on the selected file. To remove the delete mark, touch ◎ again.

Touch “CHECK” to check the selected file.

8 Select “YES” and touch ◎.

After deleting, touch ◎.

Memo:

- When files in a playlist are deleted, the playlist changes.
- Files that are protected cannot be deleted. Release protection before deleting the file.

“Protecting Files” (see P.47)

Deleting All Files

Deletes all files.

CAUTION:

- Deleted files cannot be restored.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch ◎ to display the menu.

4 Select “DELETE” and touch ◎.

5 Select “DELETE ALL” and touch ◎.

6 Select “YES” and touch ◎.

After deleting, touch ◎.

Memo:

- When files in a playlist are deleted, the playlist changes.
- Files that are protected cannot be deleted. Release protection before deleting the file.

“Protecting Files” (see P.47)
Protecting Files

Prevent important videos/still images from being deleted accidently by protecting them.

*Protecting the Currently Displayed File* (☞ P.47)

*Protecting Selected Files* (☞ P.48)

*Protecting All Files* (☞ P.49)

*Releasing Protection of All Files* (☞ P.49)

**CAUTION:**

- When the recording media is formatted, even the protected files will be deleted.

---

Protecting the Currently Displayed File

Protects or releases protection of the currently displayed file.

1. Select the playback mode.

2. Select video or still image mode.

3. Touch \( \mathcal{D} \) to display the menu.

4. Select “EDIT” and touch \( \mathcal{C} \).

5. Select “PROTECT/CANCEL” and touch \( \mathcal{C} \).

6. Select “CURRENT” and touch \( \mathcal{C} \).

7. Check that it is the file to protect or release protection of, select “YES” and touch \( \mathcal{C} \).

- The file to protect or release protection of appears on this screen.
- Touch the operation buttons \( \mathcal{\leftarrow} / \mathcal{\rightarrow} \) to select the previous or next file.
- After setting, touch \( \mathcal{C} \).
- To exit the screen, touch \( \mathcal{D} \).
Protecting Selected Files

Protects or releases protection of the selected files.

1. Select the playback mode.

2. Select video or still image mode.

3. Touch \( \text{D} \) to display the menu.

4. Select “EDIT” and touch \( \text{C} \).

5. Select “PROTECT/CANCEL” and touch \( \text{C} \).

6. Select “FILE SELECT” and touch \( \text{C} \).

7. Select the desired file and touch \( \text{C} \).

- A \( \text{on} \) mark appears on the selected file.
  To remove the mark, touch \( \text{C} \) again.

8. After selecting all the files to protect or release protection of, touch \( \text{D} \).

9. Select “YES” and touch \( \text{C} \).

- Touch “CHECK” to check the selected file.
Protecting All Files
Protects all files.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch \( \) to display the menu.

4 Select “EDIT” and touch \( \).

5 Select “PROTECT/CANCEL” and touch \( \).

6 Select “PROTECT ALL” and touch \( \).

7 Select “YES” and touch \( \).

• After setting, touch \( \).

Releasing Protection of All Files
Releases protection of all files.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch \( \) to display the menu.

4 Select “EDIT” and touch \( \).

5 Select “PROTECT/CANCEL” and touch \( \).

6 Select “CANCEL ALL” and touch \( \).

7 Select “YES” and touch \( \).

• After setting, touch \( \).
Changing Event Registration of Videos

Find your recorded videos for playback easily by registering them to suitable items from the list of various events.

"Changing the Event of the Currently Displayed File" (P.50)
"Changing the Event of the Selected Files" (P.51)

Memo:
- You can also register files to events before recording if the content has been decided.

"Registering Files to Events Before Recording" (P.30)

Changing the Event of the Currently Displayed File

Checks and changes the event of the currently displayed file.

1. Select the playback mode.

2. Select video mode.

3. Touch \(\text{D}\) to display the menu.

4. Select “EDIT” and touch \(\text{C}\).

5. Select “CHANGE EVENT REG.” and touch \(\text{C}\).

6. Select “CURRENT” and touch \(\text{C}\).

7. Select the file you want to register and touch \(\text{C}\).

● The file to register appears on this screen.
● Touch the operation buttons \("\leftarrow/\rightarrow\)’ to select the previous or next file.

8. Select a new event and touch \(\text{C}\).

● You can cancel the registered event by touching “CANCEL”.
● After setting, touch \(\text{C}\).
● To exit the screen, touch \(\text{D}\).
Changing the Event of the Selected Files
Changes the event of multiple files by specifying a range.

1 Select the playback mode.

2 Select video mode.

3 Touch \( \text{D} \) to display the menu.

4 Select “EDIT” and touch \( \text{C} \).

5 Select “CHANGE EVENT REG.” and touch \( \text{C} \).

6 Select “TO RESET RANGE” and touch \( \text{C} \).

7 Select the first file of the range and touch \( \text{C} \).

8 Select the last file of the range and touch \( \text{C} \).

9 Select a new event and touch \( \text{C} \).

- Touch “CHECK” to check the selected file.
- You can cancel the registered event by touching “CANCEL”.
- After setting, touch \( \text{C} \).
- To exit the screen, touch \( \text{D} \).
Dividing Files
You can divide a selected video into two.

1. Select the playback mode.

2. Select video mode.

3. Touch \( \text{D} \) to display the menu.

4. Select “EDIT” and touch \( \text{C} \).

5. Select “DIVIDE” and touch \( \text{C} \).

6. Select the desired file and touch \( \text{C} \).

7. Touch \( \text{C} \) to pause playback, then touch “SET” at the point you want to divide the file.

8. Select “DIVIDE HERE” and touch \( \text{C} \).

● The actual division point may differ slightly from the point that is set.

● To select the division point again, select “CANCEL”.

● After dividing, touch \( \text{C} \).

Memo:
● When playing back the divided file, the recording date of the division point is displayed.
● You cannot divide the files with the upload setting turned on.

● Playback of the selected video starts.
Face Detection Zoom

You can enlarge the part including a face in a still image and save it as a new file.

1 Select the playback mode.

2 Select still image mode.

3 Select the desired still image and touch C.

4 Touch P.

- Faces are detected.

5 Select the face to zoom and touch C.

- The face that is highlighted in red is zoomed in.

6 Touch C repeatedly to change the zoom ratio.

- To adjust/change zoom area, touch the slider.

7 Touch “SAVE”.

- Zoom images are saved in 16:9 aspect regardless of the original aspect.

8 Select “YES” and touch C.

- After saving, touch C.
Capturing a Still Image in the Video during Playback

You can capture still images of the scenes you like in the recorded videos.

1. Select the playback mode.

2. Select video mode.

3. Select the desired video and touch 📸.

4. Touch pause at the desired scene during playback.

- After pausing the video, you can fine-tune the point to capture by using the forward slow-motion ⏯️ and reverse slow-motion ⏫ operation buttons.

5. Capture a still image.

Memo:

- The picture quality varies with the "IMAGE QUALITY" setting.
- "IMAGE QUALITY" (☞ P.85)
- Captured still images are stored in the media specified in "REC MEDIA FOR IMAGE".
- "REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)" (☞ P.107)
- "IMAGE SLOT SELECTION (GZ-HM300)" (☞ P.107)

Capturing a Required Part in the Video

Select the required part of a video and save it as a new video file.

1. Select the playback mode.

2. Select video mode.

3. Touch 📺 to display the menu.

4. Select "EDIT" and touch 📸.

5. Select "TRIMMING" and touch 📸.

6. Select the desired video and touch 📸.

- Playback of the selected video starts.

7. Touch 📺 to pause playback, then touch "SET" to set the start point.
8 Touch \( \text{②} \) to pause playback, then touch “SET” to set the point to stop copying.

9 Select “CAPTURE TRIMMED FILE” and touch \( \text{②} \).

10 Select “YES” and touch \( \text{②} \).

After copying, touch \( \text{②} \).

When copying finishes, the copied file is added to the index screen.

Memo:
- According to the AVCHD standard, videos are split into units of approximately 0.5 second. As such, the division point may not be accurate.

Capturing Videos for Uploading to YouTube™

Capture and copy a part of a recorded video (maximum 10 minutes) for uploading to YouTube™, and save it as a YouTube™ video. When capturing videos for YouTube™, the duration cannot be longer than 10 minutes.

1 Select the playback mode.

2 Select video mode.

3 Press the UPLOAD button.

4 Select the desired video and touch \( \text{②} \).

5 Select “TRIM” and touch \( \text{②} \).

- When trimming is not necessary, select “DO NOT TRIM” and touch \( \text{②} \) to complete the setting.

- If the selected video is more than 10 minutes, trimming is necessary.

6 Touch \( \text{②} \) to pause playback, then touch “SET” to set the start point to copy.

7 Touch \( \text{②} \) to pause playback, then touch “SET” to set the point to stop copying.
To reset the start point, touch “CANCEL”.

8 Select “CAPTURE TRIMMED FILE” and touch \( C \).

To set the start/end point again, select “RESET AREA”.

9 Select “YES” and touch \( C \).

When copying finishes, the copied file is added to the index screen.

After copying, touch \( C \).

To exit the screen, touch \( D \), select “YES” and touch \( C \).

Memo:
- According to the AVCHD standard, videos are split into units of approximately 0.5 second.
- As such, the division point may not be accurate.
- You can take videos in YouTube™ format by setting upload shooting before recording.
  “Taking Videos in YouTube™ Format” (\( \text{AP.30} \))

Uploading Videos to YouTube™
You can upload your videos to YouTube™ using the provided software “Everio MediaBrowser”. Install the software on your PC and connect this unit to the PC.

- For details on how to use the software, refer to the help file.
  “Installing the Provided Software” (\( \text{AP.70} \))
  “Copying to Windows PC” (\( \text{AP.70} \))

Trouble with Uploading Videos:
- Check if you have created an account with YouTube™. (You need a YouTube™ account to upload files to YouTube™.)
- Refer to “Q&A”, “Latest Information”, “Download Information”, etc. in “Click for Latest Product Info” in the help file of the provided software “Everio MediaBrowser”.

Creating a Playlist with Title (GZ-HM340/GZ-HM320)
Create a playlist simply by selecting a recording date and a title screen from the list.

1 Select the playback mode.

2 Select video mode.

3 Touch \( \bullet \) to display the menu.

4 Select “PICTURE TITLE” and touch \( C \).

5 Select a title and touch \( \bullet \).

● Touch “CHECK” to check the title.
6 Select the desired recording date and touch ◀.

- Touch “CHECK” to check the selected video.
- After setting, touch ◀.

Picture Title

A Great Memory
Happy Anniversary
Best Wishes
Celebration
Congratulations
Graduation
Happy Birthday
Happy Father’s Day
Happy Mother’s Day
Happy Holidays
Happy Halloween
Happy New Year!
Happy Thanksgiving
Happy Valentine’s Day
Our New Baby
Our Family
Our Trip
Our Vacation
School Memories
Season’s Greetings

Memo:
- Play back the DVD created from a playlist with title on a DVD player.
- To add a title to a playlist that is already created, refer to the following.
  *Adding Title Screens to Playlists (GZ-HM340/GZ-HM320)* (☞ P.63)

Creating Playlists from the Recorded Videos

A list created by selecting your favorite videos from the recorded ones is called a playlist.
By creating a playlist, you can play back only your favorite videos in the order you like.
The original video file remains even when it is registered to a playlist.

- To create a new playlist
  *Creating Playlists with Selected Files* (☞ P.57)
  *Creating Playlists by Group* (☞ P.58)
  *Creating Playlists by Date* (☞ P.59)
  *Creating Playlists by Event* (☞ P.60)
- To edit or delete a created playlist
  *Editing Playlists* (☞ P.61)
  *Deleting Playlists* (☞ P.62)
  *Adding Title Screens to Playlists (GZ-HM340/GZ-HM320)* (☞ P.63)

Memo:
- When a video file is deleted or moved, the same file will be removed from the playlist.
- The playlist will not be affected when a registered video file is divided.
  However, if any one of the divided video files is deleted or moved, the original file will be removed from the playlist.
- A maximum of 99 playlists can be created.

Creating Playlists with Selected Files

Create a playlist by arranging the files one by one.

1 Select the playback mode.

2 Select video mode.

3 Touch ◀ to display the menu.

4 Select “EDIT PLAYLIST” and touch ◀.

5 Select “NEW LIST” and touch ◀.
Creating Playlists by Group
Create a playlist by arranging multiple files according to group.

1. Select the playback mode.

2. Select video mode.

3. Touch \( \bigcirc \) to display the menu.

4. Select "EDIT PLAYLIST" and touch \( \bigcirc \).

5. Select "NEW LIST" and touch \( \bigcirc \).

6. Select "CREATE BY GROUP" and touch \( \bigcirc \).

7. Select the group to add to playlist and touch \( \bigcirc \).

8. Select the insertion point and touch \( \bigcirc \).

9. After arranging, touch \( \bigcirc \).

10. Select “SAVE AND THEN QUIT” and touch \( \bigcirc \).

- Touch "CHECK" to check the selected video.

- The selected videos are added to the playlist on the right.
- To delete a video from the playlist, touch "\( \bigcirc \)" to select the video and touch \( \bigcirc \).
- Repeat steps 7-8 and arrange the videos in the playlist.

- Touch "CHECK" to check the selected video.
8 Select the insertion point and touch $\odot$.

- The selected videos are added to the playlist on the right.
- To delete a video from the playlist, touch $\rightarrow$ to select the video and touch $\odot$.
- Repeat steps 7-8 and arrange the videos in the playlist.

9 After arranging, touch $\odot$.

10 Select “SAVE AND THEN QUIT” and touch $\odot$.

Creating Playlists by Date
Create a playlist by arranging multiple files according to recording date.

1 Select the playback mode.

2 Select video mode.

3 Touch $\odot$ to display the menu.

4 Select “EDIT PLAYLIST” and touch $\odot$.

5 Select “NEW LIST” and touch $\odot$.

6 Select “CREATE BY DATE” and touch $\odot$.

7 Select the recording date to add to playlist and touch $\odot$.

- Touch “CHECK” to check the selected video.
8 Select the insertion point and touch C.
- The selected videos are added to the playlist on the right.
- To delete a video from the playlist, touch ‘→’ to select the video and touch C.
- Repeat steps 7-8 and arrange the videos in the playlist.

9 After arranging, touch C.

10 Select “SAVE AND THEN QUIT” and touch C.

Creating Playlists by Event
Create a playlist by arranging multiple files according to events and recording dates.

1 Select the playback mode.

2 Select video mode.

3 Touch C to display the menu.

4 Select “EDIT PLAYLIST” and touch C.

5 Select “NEW LIST” and touch C.

6 Select “CREATE BY EVENT” and touch C.

7 Select an event and touch C.
8 Select the recording date to add to playlist and touch ◎.

- Touch “CHECK” to check the selected video.

9 Select the insertion point and touch ◎.

- The selected videos are added to the playlist on the right.
- To delete a video from the playlist, touch “F” to select the video and touch ◎.
- Repeat steps 8-9 and arrange the videos in the playlist.

10 After arranging, touch ◎.

11 Select “SAVE AND THEN QUIT” and touch ◎.

- Touch “CHECK” to check the selected video.

**Editing Playlists**

You can change the content of a created playlist.

1 Select the playback mode.

2 Select video mode.

3 Touch ◎ to display the menu.

4 Select “EDIT PLAYLIST” and touch ◎.

5 Select “EDIT” and touch ◎.

6 Select the playlist you want to edit and touch ◎.

7 Select the file to add to playlist and touch ◎.

- Touch “CHECK” to check the selected video.
8 Select the insertion point and touch ✂.

- The selected videos are added to the playlist on the right.
- To delete a video from the playlist, touch "→" to select the video and touch ✂.
- Repeat steps 7-8 and arrange the videos in the playlist.

9 After arranging, touch ✂.

10 Select “SAVE AND THEN QUIT” and touch ✂.

Deleting Playlists
Delete the playlists that you have created.

1 Select the playback mode.

2 Select video mode.

3 Touch ✂ to display the menu.

4 Select “EDIT PLAYLIST” and touch ✂.

5 Select “DELETE” and touch ✂.

6 Select the playlist you want to delete and touch ✂.

- All created playlists will be deleted when “DELETE ALL” is selected.

7 Select “YES” and touch ✂.

- After deleting, touch ✂.
- To exit the screen, touch ✂.
Adding Title Screens to Playlists (GZ-HM340/GZ-HM320)

Add a title screen to a created playlist.

1. Select the playback mode.

2. Select video mode.

3. Touch \( \text{D} \) to display the menu.

4. Select “EDIT PLAYLIST” and touch \( \text{C} \).

5. Select “SET TITLE” and touch \( \text{C} \).

6. Select the desired playlist and touch \( \text{C} \).

- Touch “CHECK” to check the content of the selected playlist.

7. Select a title and touch \( \text{C} \).

- Touch “CHECK” to check the title.
- To delete the title, select “NO TITLE”.
- After setting, touch \( \text{C} \).
Combining Videos Recorded by Seamless Recording

Videos that are recorded on two separate media and with “SEAMLESS RECORDING” in the video recording menu enabled can be combined into a single video.

1. Select the playback mode.

2. Select video mode.

3. Touch \( \text{D} \) to display the menu.

4. Select “SEAMLESS REC CTRL” and touch \( \text{C} \).

5. Select “COMBINE SCENES” and touch \( \text{C} \).

- This unit starts a search to detect seamless videos.
- Combining cannot be performed if no seamless videos are found.
- When “DEL SCENE COMBI INFO” is selected, the recorded seamless videos can no longer be combined. marks are removed from the files.

6. Select “YES” and touch \( \text{C} \).

7. Select the media to store the combined video and touch \( \text{C} \).

8. Select “YES” and touch \( \text{C} \).

- Combining of the videos starts.
- After videos are combined, touch \( \text{C} \).

How to Enable Seamless Video Recording Again

To start seamless recording again after the previous session is complete, it is necessary to combine seamless videos, or delete the combination information of the seamless videos.

To delete the combination information of seamless videos, select “DEL SCENE COMBI INFO” in step 5.

Memo:

- The scene and scene combination information from the media that is not selected as the media in which the combined file is saved may be deleted.
- Scenes from seamless recording can no longer be combined if the files are divided, deleted, trimmed, or moved.

64
Copying Files to Card

You can copy videos and still images from the built-in memory or SD card to another media. Copying still images to SD cards makes it convenient to bring them to the shop for printing (developing).

“Copying All Files” (P.65)
“Copying Selected Files” (P.66)

CAUTION:
• Make sure that there is enough space left in the destination medium.

Copying All Files
Copies all videos and still images to another media.

1. Select the playback mode.
2. Select video or still image mode.
3. Touch to display the menu.
4. Select “EDIT” and touch .
5. Select “COPY” and touch .
6. Select the direction of copying and touch .
7. Select “COPY ALL” and touch .
8. Select “YES” and touch .

(GZ-HM300)
• The direction of copying varies with the model.
• Copying starts.
• After copying, touch .
Copying Selected Files
Copies selected videos and still images to another media.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch to display the menu.

4 Select “EDIT” and touch .

5 Select “COPY” and touch .

6 Select the direction of copying and touch .

7 Select “SELECT AND COPY” and touch .

8 Select the desired file and touch .

9 After selecting all the files to copy, touch “EXEC”.

10 Select “YES” and touch .

- A check mark appears on the selected file. To remove the check mark, touch again.

- The direction of copying varies with the model.
Moving Files

You can move videos and still images from the built-in memory or SD card to another media. Files that are moved will be deleted from the original media. Moving still images to SD cards makes it convenient to bring them to the shop for printing (developing).

“Moving All Files” (☞ P.67)
“Moving Selected Files” (☞ P.68)

CAUTION:
• Make sure that there is enough space left in the destination medium.

Moving All Files

Moves all videos and still images to another media. Files that are moved will be deleted from the original media. Files with a protect mark will not be deleted from the original media.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch \( \text{\texttrademark} \) to display the menu.

4 Select “EDIT” and touch \( \text{\texttrademark} \).

5 Select “MOVE” and touch \( \text{\texttrademark} \).

6 Select the direction of moving and touch \( \text{\texttrademark} \).

(GZ-HM340/GZ-HM320)

(GZ-HM300)
• The direction of moving varies with the model.

7 Select “MOVE ALL” and touch \( \text{\texttrademark} \).

8 Select “YES” and touch \( \text{\texttrademark} \).

• Moving of files starts.
• After moving, touch \( \text{\texttrademark} \).
Moving Selected Files
Moves selected videos and still images to another media. Files that are moved will be deleted from the original media.

1 Select the playback mode.

2 Select video or still image mode.

3 Touch  to display the menu.

4 Select “EDIT” and touch  .

5 Select “MOVE” and touch  .

6 Select the direction of moving and touch  .

7 Select “SELECT AND MOVE” and touch  .

8 Select the desired file and touch  .

9 After selecting all the files to move, touch EXEC.

10 Select “YES” and touch  .

- Moving of files starts.
- After moving, touch  .

- The direction of moving varies with the model.
Dubbing Files to a DVD Recorder or VCR

You can dub videos by connecting to a DVD recorder or VCR.
- Refer also to the instruction manuals of the TV, DVD recorder, VCR, etc.

1 Connect to a VCR/DVD recorder.

- Press and hold the power button for 2 seconds or more to turn off the power.

2 Select the playback mode.

- Press and hold the power button for 2 seconds or more to turn on the unit.

3 Prepare the TV/VCR for recording.
- Switch to a compatible external input.
- Insert a DVD-R or video tape.

4 Prepare this unit for playback.
- Set “VIDEO OUTPUT” in the connection settings menu to the aspect ratio (4:3 or 16:9) of the connecting TV.
  "VIDEO OUTPUT" (ref. P.103)
- To include the date during dubbing, set “DISPLAY ON TV” in the connection settings menu to “ON”.
  Set “ON-SCREEN DISPLAY” in the playback menu to “DISPLAY DATE ONLY”.
  "DISPLAY ON TV" (ref. P.103)
  "ON-SCREEN DISPLAY" (ref. P.91)

5 Start recording.
- Start playback on this unit and press the record button on the VCR/DVD recorder.
  "Playing Back Videos" (ref. P.36)
  "Playing Back Playlists" (ref. P.44)
- After playback is complete, stop the recording.

Memo:
- When there are many videos to dub, you can create a playlist in advance and play it back so that all your favorite videos can be dubbed at once.
  "Creating Playlists with Selected Files" (ref. P.57)
  "Playing Back Playlists" (ref. P.44)

CAUTION:
- Dubbing cannot be performed by connecting this unit to a Blu-ray recorder with a USB cable.
  Connect and dub using the supplied AV cable.
Copying to Windows PC

You can copy files to a PC using the provided software. DVDs can also be created using the PC's DVD drive. If the provided software is not installed, this unit will be recognized as an external storage when connected.

Memo:
- To record to discs, a recordable DVD drive is required for the PC in use.
- Still images cannot be recorded to discs using the provided software.

Trouble with Using the Provided Software Everio MediaBrowser

Consult the customer service center below.

Pixela User Support Center

<table>
<thead>
<tr>
<th>Telephone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA and Canada (English): +1-800-458-4029</td>
<td>(toll-free)</td>
</tr>
<tr>
<td>Europe (UK, Germany, France, and Spain)</td>
<td>(English/German/French/Spanish): +800-1532-4865 (toll-free)</td>
</tr>
<tr>
<td>Other Countries in Europe</td>
<td>(English/German/French/Spanish): +44-1489-564-764</td>
</tr>
<tr>
<td>Asia (Philippines) (English): +63-2-438-0090</td>
<td></td>
</tr>
<tr>
<td>China (Chinese): 10800-163-0014 (toll-free)</td>
<td></td>
</tr>
</tbody>
</table>

Homepage

http://www.pixela.co.jp/oem/jvc/e/index.html

● For details on how to upload to Youtube™, refer to "MediaBrowser Help" in the “Help” menu of Everio MediaBrowser.

Verifying System Requirements (Guideline)

Right-click on “Computer” (or “My Computer”) in the “Start” menu and select “Properties” to check the following items.

Windows Vista / Windows 7

● Refer to the operating instructions found in the animation on the Detailed User Guide.

Windows XP

● Refer to the operating instructions found in the animation on the Detailed User Guide.

<table>
<thead>
<tr>
<th></th>
<th>Windows Vista / Windows 7</th>
<th>Windows XP</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>Windows Vista 32/64-bit</td>
<td></td>
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<tr>
<td></td>
<td>Home Basic or Home Premium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Pre-installed versions only)Service Pack 2</td>
<td></td>
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<tr>
<td></td>
<td>Windows 7 32/64-bit</td>
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<tr>
<td></td>
<td>Home Premium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Pre-installed versions only)</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Core Duo CPU 1.66 GHz or higher</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intel Core 2 Duo CPU 2.13 GHz or higher recommended</td>
<td></td>
</tr>
<tr>
<td>RAM</td>
<td>At least 2 GB</td>
<td>At least 1 GB</td>
</tr>
</tbody>
</table>

Memo:
- If your PC does not meet the above system requirements, operations of the provided software cannot be guaranteed.
- “Backing Up Files Without Using Provided Software” (☞ P.75)
- For more information, contact your PC's manufacturer.

Installing the Provided Software

You can display the recorded images in calendar format and perform simple editing using the provided software.

Windows Vista / Windows 7

● Refer to the operating instructions found in the animation on the Detailed User Guide.

Windows XP

● Refer to the operating instructions found in the animation on the Detailed User Guide.

Backing Up All Files

Before making backup, make sure that enough free space is left in the PC's hard disk (HDD).

1. Connect the USB cable and AC adapter.
Connect the AC adapter to this unit.
Connect using the provided USB cable.

2 Open the LCD monitor.

The USB MENU appears.

3 Select “BACK UP” and touch  "C".

The provided software Everio MediaBrowser starts up on the PC.
The subsequent operations are to be performed on the PC.

4 Select the volume.

5 Start backup.

6 After backup is complete, click “OK”.

Memo:

- Before making backup, load the SD card in which the videos and still images are stored on this unit.
- If you encounter any problems with the provided software Everio MediaBrowser, please consult the “Pixela User Support Center”.
  “Trouble with Using the Provided Software Everio MediaBrowser” (ref. P.70)
- Delete unwanted videos before making backup.
  It takes time to back up many videos.
  “Deleting Unwanted Files” (ref. P.44)

Disconnecting this Unit from PC

1 Click “Safely Remove Hardware”.

2 Click “Safely Remove USB Mass Storage Device”.

3 (For Windows Vista) Click “OK”.

4 Disconnect the USB cable and close the LCD monitor.
Organizing Files

After backing up your files, organize them by adding labels such as "Family Trip" or "Athletic Meet". This is useful not only for creating discs, but for viewing the files too.

1 Double-click on the Everio MediaBrowser icon.
   ● The provided software starts up.

2 Display the month of the files to organize.

3 Create a user list.
   ● A new user list is added to the user list library.

4 Click on the recording day.
   ● The thumbnails of the files recorded on the day are displayed.

5 Register files to the created user list.

Identifying Video or Still Image:

- You can select files using the "SELECT" menu on the top right of the screen.
- Check the video/still image icon on the top right corner of the thumbnail.

Memo:

- If you encounter any problems with the provided software Everio MediaBrowser, please consult the "Pixela User Support Center". *Trouble with Using the Provided Software Everio MediaBrowser* (See P.70)
Recording Videos to Discs
Copy the files that are arranged using the user list to DVDs.

1. Insert a new disc into the PC's recordable DVD drive.
2. Select the desired user list.

   - If you select “Select all files displayed”, only the displayed videos are copied to the disc. Proceed to step 5.
   - If you select “Select files individually”, proceed to step 4.

4. (When “Select files individually” is selected) Select the files to copy to disc in order.

5. Set the top menu of the disc.
   - Set the title and menu background.

6. Copying to disc starts.
   - After copying, click “OK”.

Memo:
- The following types of discs can be used on the provided software Everio MediaBrowser:
  - DVD-R
  - DVD-R DL
  - DVD-RW
  - DVD+R
  - DVD+R DL
  - DVD+RW
- Everio MediaBrowser supports disc format:
  - AVCHD
- When copying videos recorded in UXP recording mode to create an AVCHD disc, the videos need to be converted to XP recording mode before copying. Therefore, it may take a longer time than copying videos recorded in other modes.
- Use Everio MediaBrowser Player to play back the disc. Refer to the help file of the provided Everio MediaBrowser software to operate.
- To view the help file of Everio MediaBrowser, select “Help” from the Everio MediaBrowser's menu bar or press F1 on the keyboard.
- If you encounter any problems with the provided software Everio MediaBrowser, please consult the "Pixela User Support Center". "Trouble with Using the Provided Software Everio MediaBrowser" (P.70)
JVC Software Licence Agreement

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6 TERM
This Agreement will become effective on the date when You install and use the Program on Your machine, and continue to be in effect until the termination under the following provision. Should You breach any provision of this Agreement, JVC may terminate this Agreement without giving any notice to You. In this event, JVC may claim against You for any damages caused by Your breach. Should this Agreement be terminated, You must immediately destroy the Program stored in Your machine (including the erasing from any memory in Your PC), and no longer own such Program.

7 EXPORT CONTROL
You agree that You will not ship, transfer or export the Program or underlying information and technology to any countries to which Japan and other relevant countries have initiated an embargo on such goods.

8 U.S. GOVERNMENT USER
If You are an agency of the United States of America (the “Government”), You acknowledge JVC’s representation that the Program is a “Commercial Item” as defined in Federal Acquisition Regulation (FAR) part 2.101 (g) consisting unpublished “Commercial Computer Software” as those items are used at FAR part 12.212 and is only licenced to You with the same use rights JVC grants all commercial end users pursuant to the terms of this Agreement.

9 GENERAL
① No modification, change, addition, deletion or other alteration of or to this Agreement will be valid unless reduced to writing and signed by an authorized representative of JVC.
② If any part of this Agreement is held invalid by or in conflict with any law having jurisdiction over this Agreement, the remaining provisions will remain in full force and effect.
③ This Agreement shall be governed by and interpreted under the laws of Japan. The Tokyo District Court has jurisdiction over all disputes which may arise with respect to the execution, interpretation and performance of this Agreement.

Victor Company of Japan, Limited

Memo:
- If You acquired the Program in Germany, the provisions of Sections 4 (Limited Warranty) and 5 (Limited Liability) provided above will be replaced with those of the German version of this Agreement.

CAUTION:
- Operate this equipment according to the operating procedures described in this manual.
- Use only the provided CD-ROM. Never use any other CD-ROM to run this software.
- Do not attempt to modify this software.
- Changes or modifications not approved by JVC could void user’s authority to operate the equipment.

How to handle a CD-ROM:
- Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the center hole.
- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

You can find the latest information (in English) on the provided software program at our world wide web server at http://www.jvc-victor.co.jp/english/global-e.html
Backing Up Files Without Using Provided Software

Copy the files to a PC using the following method.

1. Connect the USB cable and AC adapter.
   ① Connect the AC adapter to this unit.
   ② Connect using the provided USB cable.

2. Open the LCD monitor.
   - The USB MENU appears.

3. Select “PLAYBACK ON PC” and touch ☑.
   - Close the Everio MediaBrowser program, if it starts.
   - The subsequent operations are to be performed on the PC.

4. Select “Computer” (Windows Vista) / “My Computer” (Windows XP) from the start menu, then click on the EVERIO_MEM or EVERIO_SD icon.
   - The folder opens.

5. Copy the files to any folder in the PC (desktop, etc).

CAUTION:
- When the folders or files are deleted/moved/renamed in the computer, they cannot be played back on this unit anymore.

Memo:
- To edit the files, use a software that supports MTS/JPEG files.
- The above operations on PC may vary with the system used.

Disconnecting this Unit from PC

1. Click “Safely Remove Hardware”.

2. Click “Safely Remove USB Mass Storage Device”.

3. (For Windows Vista) Click “OK”.

4. Disconnect the USB cable and close the LCD monitor.

List of Files and Folders

Folders and files are created in the built-in memory and SD card as shown below.

They are created only when necessary.

CAUTION:
- When the folders or files are deleted/moved/renamed in the computer, they cannot be played back on this unit anymore.
Copying to Mac Computer

Copy the files to a Mac computer using the following method.

1 Connect the USB cable and the AC adapter.
   - Connect the AC adapter to this unit.
   - Connect using the provided USB cable.
   - The provided software is not required for this process.

2 Open the LCD monitor.
   - The USB MENU appears.

3 Select “PLAYBACK ON PC” and touch \( \text{播放于PC} \).
   - The subsequent operations are to be performed on the PC.

4 Click on the “EVERIO_MEM” or “EVERIO_SD” icon on the desktop.
   - The folder opens.

5 Click on the column display icon.
   - Search the folder with the desired files.

6 Copy the files to any folder in the PC (desktop, etc).

CAUTION:
- When the folders or files are deleted/moved/renamed in the computer, they cannot be played back on this unit anymore.
- MTS files that are copied to a Mac computer cannot be imported to iMovie.

Memo:
- To edit the files, use a software that supports MTS/JPEG files.
- When removing this unit from the computer, drag and drop the "EVERIO_MEM" or "EVERIO_SD" icon on the desktop to the trash bin.

iMovie and iPhoto

You can import files from this unit to a computer using Apple's iMovie'08, '09 (video) or iPhoto (still image).

To verify the system requirements, select "About This Mac" from the Apple menu. You can determine the operating system version, processor and amount of memory.

- For the latest information on iMovie or iPhoto, refer to the Apple website.
- For details on how to use iMovie or iPhoto, refer to the help file of the respective software.
- There is no guarantee that the operations will work with all computer environments.

You can import files from this unit to a computer using Apple's iMovie'08, '09 (video) or iPhoto (still image).

To verify the system requirements, select "About This Mac" from the Apple menu. You can determine the operating system version, processor and amount of memory.

- For the latest information on iMovie or iPhoto, refer to the Apple website.
- For details on how to use iMovie or iPhoto, refer to the help file of the respective software.
- There is no guarantee that the operations will work with all computer environments.
Operating the Menu

Use the slider and operation buttons to set the menu.

- The menu differs according to the mode in use.

1. Touch \( \odot \) to display the menu.

2. Select the desired menu and touch \( \odot \).

3. Select the desired setting and touch \( \odot \).

Memo:

- To close the menu, touch \( \odot \).
- To return to the previous screen, touch \( \odot \).
- To display the help file, touch \( ? \).

Returning All Settings to Default:

- Set using "FACTORY PRESET" in the camera settings menu.
  "FACTORY PRESET" (See P.102)
You can adjust various settings, such as brightness and white balance, to suit the subject or purpose. You can also change settings such as picture quality and gain.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
</table>
| MANUAL SETTING               | Recording settings can be adjusted manually.  
  ● They are displayed only when recording in the manual mode.  
  "Manual Settings Menu" (☞ P.87)                                                                                           |
| FACE PRIORITY AE/AF          | Detects faces and adjusts the brightness and focus automatically.  
  "FACE PRIORITY AE/AF" (☞ P.79)                                                                                              |
| REGISTER EVENT               | Categorizes your videos according to events (such as "Travel", "Athletic Event") by registering the file before recording.  
  "Registering Files to Events Before Recording" (☞ P.30)                                                                     |
| VIDEO QUALITY                | Sets the video quality.  
  "VIDEO QUALITY" (☞ P.79)                                                                                                   |
| ZOOM                         | Sets the maximum zoom ratio.  
  "ZOOM" (☞ P.80)                                                                                                              |
| GAIN UP                      | Makes the subject appear bright automatically when recording in dark places.  
  "GAIN UP" (☞ P.80)                                                                                                           |
| TIME-LAPSE RECORDING         | Enables the changes of a scene that occur slowly over a long period to be shown within a short time by taking frames of it at a certain interval.  
  "Recording at Intervals (TIME-LAPSE RECORDING)" (☞ P.31)                                                                      |
| AUTO REC                     | Enables the unit to start or stop recording automatically by sensing the changes in brightness within the red frame displayed on the LCD monitor.  
  "Recording Automatically by Sensing Movements (AUTO REC)" (☞ P.33)                                                            |
| SEAMLESS RECORDING           | Automatically switches to a different media and continues recording when the remaining space on the current recording media runs out.  
  For example, when the remaining space on the SD card runs out during recording, the recording continues on the built-in memory without stopping.  
  "SEAMLESS RECORDING" (☞ P.81)                                                                                                 |
| x.v.Color                    | Records with "x.v.Color".  
  "x.v.Color" (☞ P.81)                                                                                                        |
| WIND CUT                     | Reduces the noise caused by wind.  
  "WIND CUT" (☞ P.82)                                                                                                         |
FACE PRIORITY AE/AF

Detects faces and adjusts the brightness and focus automatically.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Activates the function.</td>
</tr>
</tbody>
</table>

Displaying the Item
1. Select video mode.
2. Touch \( \text{D} \) to display the menu.
3. Select “FACE PRIORITY AE/AF” and touch \( \text{C} \).

CAUTION:
- When “FACE PRIORITY AE/AF” is set to “ON”, the following settings will change.
  - If “SCENE SELECT” is set to “SPOTLIGHT”, it will be switched to “OFF”.
  - If “FOCUS” is set to “MANUAL”, it will be switched to “AUTO”.
  - If “BACKLIGHT COMP.” is set to “ON”, it will be switched to “OFF”.
  - If “METERING AREA/ TYPE” is set to “SPOT”, it will be switched to “ENTIRE SCREEN”.
- When the following settings are made, “FACE PRIORITY AE/AF” will switch to “OFF”.
  - When “SCENE SELECT” is set to “SPOTLIGHT”
  - When “FOCUS” is set to “MANUAL”
  - When “FOCUS ASSIST” is selected
  - When “BACKLIGHT COMP.” is set to “ON”
  - When “METERING AREA/TYPE” is set to “SPOT”

Memo:
- Depending on the condition, faces may not be detected.

REGISTER EVENT

Categorizes your videos according to events (such as “Travel”, “Athletic Event”) by registering the file before recording.

Operating Details
“Registering Files to Events Before Recording” (\( \text{\textit{P.30}} \))

VIDEO QUALITY

Sets the video quality.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UXP</td>
<td>Enables recording in the best picture quality.</td>
</tr>
<tr>
<td></td>
<td>• Applies to BDs only. Videos taken in high-definition quality cannot be saved to DVDs.</td>
</tr>
<tr>
<td>XP</td>
<td>Enables recording in high picture quality.</td>
</tr>
<tr>
<td>SP</td>
<td>Enables recording in standard quality.</td>
</tr>
<tr>
<td>EP</td>
<td>Enables long recordings.</td>
</tr>
</tbody>
</table>

Memo:
- Set to UXP or XP mode when recording fast-moving scenes or scenes with extreme change of brightness to avoid noise.

Displaying the Item
1. Select video mode.
2. Touch \( \text{D} \) to display the menu.
3. Select “VIDEO QUALITY” and touch \( \text{C} \).
Menu Settings

ZOOM
Sets the maximum zoom ratio.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>20x/OPTICAL</td>
<td>Enables zooming up to 20x.</td>
</tr>
<tr>
<td>80x/DIGITAL</td>
<td>Enables zooming up to 80x.</td>
</tr>
<tr>
<td>200x/DIGITAL</td>
<td>Enables zooming up to 200x.</td>
</tr>
</tbody>
</table>

Memo:
- When digital zoom is used, the image becomes grainy as it is digitally enlarged.

Displaying the Item
1 Select video mode.
2 Touch \( \circ \) to display the menu.
3 Select “ZOOM” and touch \( \circ \).

GAIN UP
Makes the subject appear bright automatically when recording in dark places.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>AGC</td>
<td>Electrically brightens the scene when it is dark.</td>
</tr>
<tr>
<td>AUTO</td>
<td>Automatically brightens the scene when it is dark.</td>
</tr>
</tbody>
</table>

Memo:
- Although “AUTO” brightens the scene more than “AGC”, movements of the subject may become unnatural.
- Setting can be adjusted separately for still images.

Displaying the Item
1 Select video mode.
2 Touch \( \circ \) to display the menu.
3 Select “GAIN UP” and touch \( \circ \).
**TIME-LAPSE RECORDING**

This function enables the changes of a scene that occur slowly over a long period to be shown within a short time by taking frames of it at a certain interval.

This is useful for making observations such as the opening of a flower bud.

**Operating Details**

*Recording at Intervals (TIME-LAPSE RECORDING)*  (*P. 31*)

**AUTO REC**

Records automatically by sensing the changes in brightness.

**Operating Details**

*Recording Automatically by Sensing Movements (AUTO REC)*  (*P. 33*)

**SEAMLESS RECORDING**

This function enables an ongoing video recording that has reached its media’s maximum capacity to be recorded continuously without frame loss by automatically switching the recording to another media. It is also possible for the scenes to be merged into one of the media once the recording is complete.

**Setting Details**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Does not switch recording media automatically.</td>
</tr>
<tr>
<td>ON</td>
<td>Switches recording media automatically.</td>
</tr>
</tbody>
</table>

**Displaying the Item**

1. Select video mode.

2. Touch \( \) to display the menu.

3. Select “SEAMLESS RECORDING” and touch \( \).

4. Select “ON” and touch \( \).

**Memo:**

- Auto switching of media cannot be performed when a write protected memory card, an unformatted media, or an incompatible media is used.
- The function does not work when there is less than 1 minute of recording time left.

**x.v.Color**

Records with “x.v.Color”.

**Setting Details**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Activates the function.</td>
</tr>
</tbody>
</table>

**Displaying the Item**

1. Select video mode.

2. Touch \( \) to display the menu.

3. Select “x.v.Color” and touch \( \).
WIND CUT
Reduces the noise caused by wind.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Activates the function.</td>
</tr>
</tbody>
</table>

Displaying the Item

1 Select video mode.

2 Touch \( \mathbb{S} \) to display the menu.

3 Select “WIND CUT” and touch \( \mathbb{S} \).
Recording Menu (Still Image)

You can adjust various settings, such as brightness and white balance, to suit the subject or purpose. You can also change settings such as picture quality and gain.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANUAL SETTING</td>
<td>Recording settings can be adjusted manually.</td>
</tr>
<tr>
<td></td>
<td>● They are displayed only when recording in the manual mode.</td>
</tr>
<tr>
<td></td>
<td>&quot;Manual Settings Menu&quot; (P.87)</td>
</tr>
<tr>
<td>FACE PRIORITY AE/AF</td>
<td>Detects faces and adjusts the brightness and focus automatically.</td>
</tr>
<tr>
<td>SELF-TIMER</td>
<td>Use this when taking a group photo.</td>
</tr>
<tr>
<td>SHUTTER MODE</td>
<td>Continuous shooting settings can be adjusted.</td>
</tr>
<tr>
<td>IMAGE SIZE</td>
<td>Sets the image size (number of pixels) for still images.</td>
</tr>
<tr>
<td>IMAGE QUALITY</td>
<td>Sets the image quality.</td>
</tr>
<tr>
<td>GAIN UP</td>
<td>Makes the subject appear bright automatically when recording in dark places.</td>
</tr>
<tr>
<td>AUTO REC</td>
<td>Enables the unit to record still images automatically by sensing the changes in brightness within the red frame displayed on the LCD monitor.</td>
</tr>
<tr>
<td></td>
<td>&quot;Recording Automatically by Sensing Movements (AUTO REC)&quot; (P.33)</td>
</tr>
</tbody>
</table>

**FACE PRIORITY AE/AF**

Detects faces and adjusts the brightness and focus automatically.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Activates the function.</td>
</tr>
</tbody>
</table>

**Displaying the Item**

1. Select still image mode.
2. Touch to display the menu.
3. Select “FACE PRIORITY AE/AF” and touch .

**CAUTION:**

- When “FACE PRIORITY AE/AF” is set to “ON”, the following settings will change.
  - If “SCENE SELECT” is set to “SPOTLIGHT”, it will be switched to “OFF”.
  - If “FOCUS” is set to “MANUAL”, it will be switched to “AUTO”.
  - If “BACKLIGHT COMP.” is set to “ON”, it will be switched to “OFF”.
  - If “METERING AREA/TYPE” is set to “SPOT”, it will be switched to “ENTIRE SCREEN”.
- When the following settings are made, “FACE PRIORITY AE/AF” will switch to “OFF”.
  - When “SCENE SELECT” is set to “SPOTLIGHT”
  - When “FOCUS” is set to “MANUAL”
  - When “FOCUS ASSIST” is selected
  - When “BACKLIGHT COMP.” is set to “ON”
  - When “METERING AREA/TYPE” is set to “SPOT”

**Memo:**

- You cannot activate “FACE PRIORITY AE/AF” if “SELF-TIMER” is set to “FACE DETECTION”.
- Depending on the condition, faces may not be detected.

**SELF-TIMER**

Use this when taking a group photo.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the self-timer.</td>
</tr>
<tr>
<td>2SEC</td>
<td>Starts recording 2 seconds after the SNAPSHOT button is pressed.</td>
</tr>
<tr>
<td>10SEC</td>
<td>Starts recording 10 seconds after the SNAPSHOT button is pressed.</td>
</tr>
<tr>
<td>FACE DE-TEC-TION</td>
<td>Detects faces when the SNAPSHOT button is pressed. Recording starts 3 seconds after the face of the photographer is detected.</td>
</tr>
</tbody>
</table>

(1) Faces are detected

(2) Face of photographer is detected
Displaying the Item

1 Select still image mode.

2 Touch \(\text{D}\) to display the menu.

3 Select “SELF-TIMER” and touch \(\text{C}\).

---

**SHUTTER MODE**

Continuous shooting settings can be adjusted.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECORD ONE SHOT</td>
<td>Records one still image.</td>
</tr>
<tr>
<td>CONTINUOUS SHOOTING</td>
<td>Records still images continuously while the SNAPSHOT button is pressed.</td>
</tr>
</tbody>
</table>

**Memo:**
- Up to 3 images can be captured in 1 second during continuous shooting.
- Some SD cards may not support continuous shooting.
- The continuous shooting speed will drop if this function is used repeatedly.

Displaying the Item

1 Select still image mode.

2 Touch \(\text{D}\) to display the menu.

3 Select “SHUTTER MODE” and touch \(\text{C}\).
### IMAGE SIZE

Sets the image size (number of pixels) for still images.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1440X1080(1.5M)</td>
<td>Takes still images in the size of 1440X1080 with aspect ratio 4:3.</td>
</tr>
<tr>
<td>640X480(0.3M)</td>
<td>Takes still images in the size of 640X480 with aspect ratio 4:3.</td>
</tr>
</tbody>
</table>

### Displaying the Item

1. Select still image mode.
2. Touch  to display the menu.
3. Select “IMAGE SIZE” and touch .

### IMAGE QUALITY

Sets the image quality.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINE</td>
<td>Enables recording in high picture quality, but number of recordable images becomes lesser.</td>
</tr>
<tr>
<td>STANDARD</td>
<td>Enables recording in standard quality.</td>
</tr>
</tbody>
</table>

### Displaying the Item

1. Select still image mode.
2. Touch  to display the menu.
3. Select “IMAGE QUALITY” and touch .
GAIN UP
Makes the subject appear bright automatically when recording in dark places.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>AGC</td>
<td>Electrically brightens the scene when it is dark.</td>
</tr>
</tbody>
</table>

Memo:
- Setting can be adjusted separately for videos.

Displaying the Item
1. Select still image mode.
2. Touch ⏤ to display the menu.
3. Select “GAIN UP” and touch ⏤.

AUTO REC
Records automatically by sensing the changes in brightness.

Operating Details
“Recording Automatically by Sensing Movements (AUTO REC)” (P.33)
## Manual Settings Menu

Recording settings can be adjusted manually.

**Memo:**
- They are displayed only when recording in the manual mode.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCENE SELECT</strong></td>
<td>Settings to suit the shooting condition can be selected. <em>Scene Selection</em> (P.25)</td>
</tr>
<tr>
<td><strong>FOCUS</strong></td>
<td>Focus can be adjusted manually. <em>Adjusting Focus Manually</em> (P.26)</td>
</tr>
<tr>
<td><strong>FOCUS ASSIST</strong></td>
<td>Focused subject is outlined in color for more precise focus. <em>Using Focus Assist</em> (P.26)</td>
</tr>
<tr>
<td><strong>BRIGHTNESS ADJUST</strong></td>
<td>Adjusts the overall brightness of the screen. <em>Adjusting Brightness</em> (P.27)</td>
</tr>
<tr>
<td><strong>WHITE BALANCE</strong></td>
<td>Adjusts the color according to the light source. <em>Setting White Balance</em> (P.27)</td>
</tr>
<tr>
<td><strong>BACKLIGHT COMP.</strong></td>
<td>Corrects the image when the subject appears dark due to backlight. <em>Setting Backlight Compensation</em> (P.28)</td>
</tr>
<tr>
<td><strong>METERING AREA/TYP</strong></td>
<td>Enables you to adjust the brightness in the desired area. <em>Setting Metering Area</em> (P.28)</td>
</tr>
<tr>
<td><strong>EFFECT</strong></td>
<td>Records videos or still images with special effects such as sepia or black and white. <em>Recording with Effects</em> (P.29)</td>
</tr>
<tr>
<td><strong>TELE MACRO</strong></td>
<td>Enables close-up shots when using the telephoto (T) end of the zoom. <em>Taking Close-up Shots</em> (P.29)</td>
</tr>
</tbody>
</table>

### SCENE SELECT

Settings to suit the shooting condition can be selected.

Operating Details
*Scene Selection* (P.25)

### FOCUS

Focus can be adjusted automatically or manually.

Operating Details
*Adjusting Focus Manually* (P.26)

### FOCUS ASSIST

Focused subject is outlined in color for more precise focus.

Operating Details
*Using Focus Assist* (P.26)

### BRIGHTNESS ADJUST

Adjusts the overall brightness of the screen.

Operating Details
*Adjusting Brightness* (P.27)

### WHITE BALANCE

Adjusts the color according to the light source.

Operating Details
*Setting White Balance* (P.27)

### BACKLIGHT COMP.

Corrects the image when the subject appears dark due to backlight.

Operating Details
*Setting Backlight Compensation* (P.28)

### METERING AREA/TYPE

Enables you to adjust the brightness in the desired area.

Operating Details
*Setting Metering Area* (P.28)

### EFFECT

Records videos or still images with special effects such as sepia or black and white.

Operating Details
*Recording with Effects* (P.29)

### TELE MACRO

Enables close-up shots when using the telephoto (T) end of the zoom.

Operating Details
*Taking Close-up Shots* (P.29)
### Playback Menu (Video)

You can delete or look for specific videos.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELETE</td>
<td>Deletes unwanted videos.</td>
</tr>
<tr>
<td>&quot;Deleting the Currently Displayed File&quot;</td>
<td><em>(⇒ P.44)</em></td>
</tr>
<tr>
<td>&quot;Deleting Selected Files&quot;</td>
<td><em>(⇒ P.45)</em></td>
</tr>
<tr>
<td>&quot;Deleting All Files&quot;</td>
<td><em>(⇒ P.46)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PICTURE TITLE (GZ-HM340/GZ-HM320)</th>
<th>Create a playlist simply by selecting a recording date and a title screen from the list.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>Creating a Playlist with Title (GZ-HM340/GZ-HM320)</em> <em>(⇒ P.56)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEARCH</th>
<th>Refines the index screen of videos according to group, recording date, or event.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Group Search&quot;</td>
<td><em>(⇒ P.40)</em></td>
</tr>
<tr>
<td>&quot;Search Date&quot;</td>
<td><em>(⇒ P.40)</em></td>
</tr>
<tr>
<td>&quot;Search Event&quot;</td>
<td><em>(⇒ P.41)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PLAYBACK PLAYLIST</th>
<th>Play back the playlists that you have created.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>Playing Back Playlists</em> <em>(⇒ P.44)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EDIT PLAYLIST</th>
<th>Creates or edits a playlist.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Creating Playlists from the Recorded Videos&quot;</td>
<td><em>(⇒ P.57)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PLAYBACK OTHER FILE</th>
<th>Plays videos with defective management information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Playing a Video with Defective Management Information&quot;</td>
<td><em>(⇒ P.37)</em></td>
</tr>
</tbody>
</table>

| EDIT                           |                                                                                         |
|                                | ● COPY                                                                                   |
|                                | Copies files to another media.                                                           |
|                                | "Copying All Files" *(⇒ P.65)*                                                           |
|                                | "Copying Selected Files" *(⇒ P.66)*                                                       |
|                                | ● MOVE                                                                                   |
|                                | Moves files to another media.                                                            |
|                                | "Moving All Files" *(⇒ P.67)*                                                            |
|                                | "Moving Selected Files" *(⇒ P.68)*                                                        |
|                                | ● PROTECT/CANCEL                                                                        |
|                                | Protects files from being deleted accidentally.                                          |
|                                | "Protecting the Currently Displayed File" *(⇒ P.47)*                                    |
|                                | "Protecting Selected Files" *(⇒ P.48)*                                                   |
|                                | "Protecting All Files" *(⇒ P.49)*                                                        |
|                                | "Releasing Protection of All Files" *(⇒ P.49)*                                           |
|                                | ● DIVIDE                                                                                 |
|                                | Divides a selected video into two.                                                       |
|                                | "Dividing Files" *(⇒ P.52)*                                                              |
|                                | ● TRIMMING                                                                               |
|                                | Select the required part of a video and save it as a new video file.                     |
|                                | "Capturing a Required Part in the Video" *(⇒ P.54)*                                     |
|                                | ● CHANGE EVENT REG.                                                                      |
|                                | Changes the event that is registered.                                                    |
|                                | "Changing the Event of the Currently Displayed File" *(⇒ P.50)*                         |
|                                | "Changing the Event of the Selected Files" *(⇒ P.51)*                                   |

<table>
<thead>
<tr>
<th>SEAMLESS REC CTRL</th>
<th>Videos that are recorded on two separate media and with &quot;SEAMLESS RECORDING&quot; in the video recording menu enabled can be combined into a single video.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>Combining Videos Recorded by Seamless Recording</em> <em>(⇒ P.64)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WIPE/FADER</th>
<th>Adds effects at the beginning and end of recorded videos.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>Playback with Special Effects</em> <em>(⇒ P.38)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ON-SCREEN DISPLAY</th>
<th>Sets whether to show on-screen displays such as icons during playback.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&quot;ON-SCREEN DISPLAY&quot; <em>(⇒ P.91)</em></td>
</tr>
</tbody>
</table>

---

88
DELETE
Deletes unwanted videos.
Operating Details
"Deleting the Currently Displayed File" (P.44)
"Deleting Selected Files" (P.45)
"Deleting All Files" (P.46)

PICTURE TITLE (GZ-HM340/GZ-HM320)
Create a playlist simply by selecting a recording date and a title screen from the list.
Operating Details
"Creating a Playlist with Title (GZ-HM340/GZ-HM320)" (P.56)

SEARCH
Refines the index screen of videos according to group, recording date, or event.
Operating Details
"Group Search" (P.40)
"Search Date" (P.40)
"Search Event" (P.41)

PLAYBACK PLAYLIST
Play back the playlists that you have created.
Operating Details
"Playing Back Playlists" (P.44)

EDIT PLAYLIST
A list in which your favorite videos are arranged is called a playlist.
By creating a playlist, you can play back only your favorite videos in the order you like.
The original video file remains even when it is registered to a playlist.
Operating Details
"Creating Playlists from the Recorded Videos" (P.57)

PLAYBACK OTHER FILE
Plays videos with defective management information.
Operating Details
"Playing a Video with Defective Management Information" (P.37)
EDIT
You can perform operations such as copying or protecting videos.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPY</td>
<td>Copies files to another media.</td>
</tr>
<tr>
<td></td>
<td><em>Copying All Files</em> (P.65)</td>
</tr>
<tr>
<td></td>
<td><em>Copying Selected Files</em> (P.66)</td>
</tr>
<tr>
<td>MOVE</td>
<td>Moves files to another media.</td>
</tr>
<tr>
<td></td>
<td><em>Moving All Files</em> (P.67)</td>
</tr>
<tr>
<td></td>
<td><em>Moving Selected Files</em> (P.68)</td>
</tr>
<tr>
<td>PROTECT/CANCEL</td>
<td>Protects files from being deleted accidently.</td>
</tr>
<tr>
<td></td>
<td><em>Protecting the Currently Displayed File</em> (P.47)</td>
</tr>
<tr>
<td></td>
<td><em>Protecting Selected Files</em> (P.48)</td>
</tr>
<tr>
<td></td>
<td><em>Protecting All Files</em> (P.49)</td>
</tr>
<tr>
<td></td>
<td><em>Releasing Protection of All Files</em> (P.49)</td>
</tr>
<tr>
<td>DIVIDE</td>
<td>Divides a selected video into two.</td>
</tr>
<tr>
<td></td>
<td><em>Dividing Files</em> (P.52)</td>
</tr>
<tr>
<td>TRIMMING</td>
<td>Select the required part of a video and save it as a new video file.</td>
</tr>
<tr>
<td></td>
<td><em>Capturing a Required Part in the Video</em> (P.54)</td>
</tr>
<tr>
<td>CHANGE EVENT REG.</td>
<td>Changes the event that is registered.</td>
</tr>
<tr>
<td></td>
<td><em>Changing the Event of the Currently Displayed File</em> (P.50)</td>
</tr>
<tr>
<td></td>
<td><em>Changing the Event of the Selected Files</em> (P.51)</td>
</tr>
</tbody>
</table>

COPY
Copies files to another media.
Operating Details
*Copying All Files* (P.65)
*Copying Selected Files* (P.66)

MOVE
Moves files to another media.
Operating Details
*Moving All Files* (P.67)
*Moving Selected Files* (P.68)

PROTECT/CANCEL
Protects files from being deleted accidently.
Operating Details
*Protecting the Currently Displayed File* (P.47)
*Protecting Selected Files* (P.48)
*Protecting All Files* (P.49)
*Releasing Protection of All Files* (P.49)

DIVIDE
Divides a selected video into two.
Operating Details
*Dividing Files* (P.52)

TRIMMING
Select the required part of a video and save it as a new video file.
Operating Details
*Capturing a Required Part in the Video* (P.54)

CHANGE EVENT REG.
Changes the event that is registered.
Operating Details
*Changing the Event of the Currently Displayed File* (P.50)
*Changing the Event of the Selected Files* (P.51)

WIPE/FADER
Adds effects at the beginning and end of recorded videos.
Operating Details
*Playback with Special Effects* (P.38)

SEAMLESS REC CTRL
Videos that are recorded on two separate media and with “SEAMLESS RECORDING” in the video recording menu enabled can be combined into a single video.
Operating Details
*Combining Videos Recorded by Seamless Recording* (P.64)
ON-SCREEN DISPLAY
Sets whether to show on-screen displays such as icons during playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>No display at all.</td>
</tr>
<tr>
<td>DISPLAY ALL</td>
<td>Displays everything.</td>
</tr>
<tr>
<td>DISPLAY DATE ONLY</td>
<td>Displays the date only.</td>
</tr>
</tbody>
</table>

Displaying the Item
1. Select the playback mode.

2. Select video mode.

3. Touch ◄ to display the menu.

4. Select “ON-SCREEN DISPLAY” and touch ◄.
### Playback Menu (Still Image)

You can delete or look for specific still images.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DELETE</strong></td>
<td>Deletes unwanted still images.</td>
</tr>
<tr>
<td></td>
<td>- Deleting the Currently Displayed File (☞ P.44)</td>
</tr>
<tr>
<td></td>
<td>- Deleting Selected Files (☞ P.45)</td>
</tr>
<tr>
<td></td>
<td>- Deleting All Files (☞ P.46)</td>
</tr>
<tr>
<td><strong>SEARCH DATE</strong></td>
<td>You can search and play still images according to recording dates.</td>
</tr>
<tr>
<td></td>
<td>- Search Date (☞ P.40)</td>
</tr>
<tr>
<td><strong>EDIT</strong></td>
<td>You can perform operations such as copying or protecting still images.</td>
</tr>
<tr>
<td><strong>COPY</strong></td>
<td>Copies files to another media.</td>
</tr>
<tr>
<td></td>
<td>- Copying All Files (☞ P.65)</td>
</tr>
<tr>
<td></td>
<td>- Copying Selected Files (☞ P.66)</td>
</tr>
<tr>
<td><strong>MOVE</strong></td>
<td>Moves files to another media.</td>
</tr>
<tr>
<td></td>
<td>- Moving All Files (☞ P.67)</td>
</tr>
<tr>
<td></td>
<td>- Moving Selected Files (☞ P.68)</td>
</tr>
<tr>
<td><strong>PROTECT/CANCEL</strong></td>
<td>Protects files from being deleted accidently.</td>
</tr>
<tr>
<td></td>
<td>- Protecting the Currently Displayed File (☞ P.47)</td>
</tr>
<tr>
<td></td>
<td>- Protecting Selected Files (☞ P.48)</td>
</tr>
<tr>
<td></td>
<td>- Protecting All Files (☞ P.49)</td>
</tr>
<tr>
<td></td>
<td>- Releasing Protection of All Files (☞ P.49)</td>
</tr>
</tbody>
</table>

### Menu Settings

92
SLIDE SHOW EFFECTS
Effects can be added to the transitions in slideshow playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIDE</td>
<td>Switches the screen by sliding in from right to left.</td>
</tr>
<tr>
<td>BLINDS</td>
<td>Switches the screen by dividing into vertical strips.</td>
</tr>
<tr>
<td>CHECKERBOARD</td>
<td>Switches the screen by changing through a checkered pattern.</td>
</tr>
<tr>
<td>RANDOM</td>
<td>Switches the screen with a random effect from “SLIDE”, “BLINDS”, and “CHECKERBOARD”.</td>
</tr>
</tbody>
</table>

Displaying the Item
1. Select the playback mode.
2. Select still image mode.
3. Touch ✎ to display the menu.
4. Select “SLIDE SHOW EFFECTS” and touch 🌟.

ON-SCREEN DISPLAY
Sets whether to show on-screen displays such as icons during playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>No display at all.</td>
</tr>
<tr>
<td>DISPLAY ALL</td>
<td>Displays everything.</td>
</tr>
<tr>
<td>DISPLAY DATE ONLY</td>
<td>Displays the date only.</td>
</tr>
</tbody>
</table>

Displaying the Item
1. Select the playback mode.
2. Select still image mode.
3. Touch ✎ to display the menu.
4. Select “ON-SCREEN DISPLAY” and touch 🌟.
Display Settings Menu

You can adjust various display settings such as the LCD monitor’s brightness, etc.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANGUAGE</td>
<td>The language on the display can be changed.</td>
</tr>
<tr>
<td></td>
<td>“LANGUAGE” (p.94)</td>
</tr>
<tr>
<td>DATE DISPLAY STYLE</td>
<td>Sets the order of year, month, day and the time display format (24H/12H).</td>
</tr>
<tr>
<td></td>
<td>“DATE DISPLAY STYLE” (p.94)</td>
</tr>
<tr>
<td>MONITOR BRIGHTNESS</td>
<td>Sets the brightness of the LCD monitor.</td>
</tr>
<tr>
<td></td>
<td>“MONITOR BRIGHTNESS” (p.95)</td>
</tr>
<tr>
<td>LCD BACKLIGHT</td>
<td>Sets the brightness of the backlight of the monitor.</td>
</tr>
<tr>
<td></td>
<td>“LCD BACKLIGHT” (p.96)</td>
</tr>
<tr>
<td>FOCUS ASSIST COLOR</td>
<td>Sets the color of the outline of a focused object when Focus Assist is used.</td>
</tr>
<tr>
<td></td>
<td>“FOCUS ASSIST COLOR” (p.96)</td>
</tr>
</tbody>
</table>

LANGUAGE

The language on the display can be changed.

1. Touch (i) to display the menu.
2. Select “DISPLAY SETTINGS” and touch (j).
3. Select “LANGUAGE” and touch (j).
4. Select the desired language and touch (j).

DATE DISPLAY STYLE

Sets the order of year, month, day and the time display format (24H/12H).

1. Touch (i) to display the menu.
2. Select “DISPLAY SETTINGS” and touch (j).
3. Select “DATE DISPLAY STYLE” and touch (j).
4. Set the style of date and time display.

- For date display, set to any format from “month.day.year”, “year.month.day”, and “day.month.year”.
- For time display, set to any format from “12h” and “24h”.
- Touch the operation buttons "←" / "→" to move the cursor.
- After setting, touch (j).
Clock Set Style
The clock set style of this unit varies with the models.

- The order of “Year, Month, Day, Time” changes according to the date display style.

MONITOR BRIGHTNESS
Sets the brightness of the LCD monitor.

1 Touch \( \square \) to display the menu.

2 Select “DISPLAY SETTINGS” and touch \( \square \).

3 Select “MONITOR BRIGHTNESS” and touch \( \square \).

4 Adjust the brightness of the monitor.

- Slide upward to increase the brightness.
- Slide downward to decrease the brightness.
- After setting, touch \( \square \).
## LCD BACKLIGHT
Sets the brightness of the backlight of the monitor.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRIGHTER</td>
<td>Brightens the backlight of the monitor regardless of the surrounding conditions.</td>
</tr>
<tr>
<td>STANDARD</td>
<td>Helps to save battery life when selected.</td>
</tr>
<tr>
<td>AUTO</td>
<td>Sets the brightness automatically to “BRIGHTER” when using outdoors and to “STANDARD” when using indoors.</td>
</tr>
</tbody>
</table>

### Displaying the Item
1. Touch \( \text{ } \) to display the menu.
2. Select “DISPLAY SETTINGS” and touch \( \text{ } \).
3. Select “LCD BACKLIGHT” and touch \( \text{ } \).

## FOCUS ASSIST COLOR
Sets the color of the outline of a focused object when Focus Assist is used.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>Outlines the focused object in red.</td>
</tr>
<tr>
<td>GREEN</td>
<td>Outlines the focused object in green.</td>
</tr>
<tr>
<td>BLUE</td>
<td>Outlines the focused object in blue.</td>
</tr>
</tbody>
</table>

### Displaying the Item
1. Touch \( \text{ } \) to display the menu.
2. Select “DISPLAY SETTINGS” and touch \( \text{ } \).
3. Select “FOCUS ASSIST COLOR” and touch \( \text{ } \).
CLOCK ADJUST

Resets the current time or sets to the local time when using this unit overseas.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLOCK SETTING</td>
<td>Resets the current time or changes the settings.</td>
</tr>
<tr>
<td></td>
<td>&quot;Resetting the Clock&quot; (P.15)</td>
</tr>
<tr>
<td>AREA SETTING</td>
<td>Sets to the local time when using this unit overseas simply by selecting the destination.</td>
</tr>
<tr>
<td></td>
<td>&quot;Setting the Clock to Local Time when Traveling&quot; (P.17)</td>
</tr>
<tr>
<td>SET FOR DAYLIGHT SAVING TIME</td>
<td>Sets whether daylight saving time is observed at the travel destination.</td>
</tr>
<tr>
<td></td>
<td>&quot;Setting Daylight Saving Time&quot; (P.18)</td>
</tr>
</tbody>
</table>

Memo:
- Daylight saving time is the system of setting the clock 1 hour ahead for a fixed period in summer.
  It is used mainly in the Western countries.

Changing the Setting

1. Touch 📜 to display the menu.

2. Select "CLOCK ADJUST" and touch 📜.
## Basic Settings Menu

You can adjust various camera settings such as operation sound, etc.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO MODE</td>
<td>Introduces the special features of this unit in digest form.</td>
</tr>
<tr>
<td></td>
<td>&quot;DEMO MODE&quot; <em>(P.99)</em></td>
</tr>
<tr>
<td>AUTO POWER OFF</td>
<td>Prevents the situation of forgetting to turn off the power when this is set.</td>
</tr>
<tr>
<td></td>
<td>&quot;AUTO POWER OFF&quot; <em>(P.99)</em></td>
</tr>
<tr>
<td>OPERATION SOUND</td>
<td>Turns on or off the operation sound.</td>
</tr>
<tr>
<td></td>
<td>&quot;OPERATION SOUND&quot; <em>(P.100)</em></td>
</tr>
<tr>
<td>RECORD BUTTON</td>
<td>Displays the REC button on the LCD monitor and enables it to be used as the START/STOP button.</td>
</tr>
<tr>
<td></td>
<td>&quot;RECORD BUTTON&quot; <em>(P.100)</em></td>
</tr>
<tr>
<td>QUICK RESTART</td>
<td>Reduces the power consumption within 5 minutes after the LCD monitor is closed to 1/3 of that used during recording.</td>
</tr>
<tr>
<td></td>
<td>&quot;QUICK RESTART&quot; <em>(P.101)</em></td>
</tr>
<tr>
<td>UPDATE</td>
<td>Updates the functions of this unit to the latest version.</td>
</tr>
<tr>
<td></td>
<td>&quot;UPDATE&quot; <em>(P.101)</em></td>
</tr>
<tr>
<td>FACTORY PRESET</td>
<td>Returns all the settings to their default values.</td>
</tr>
<tr>
<td></td>
<td>&quot;FACTORY PRESET&quot; <em>(P.102)</em></td>
</tr>
</tbody>
</table>
DEMO MODE
Starts playback of the demo mode which introduces the features of this unit.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Plays a demonstration of the special features of this unit.</td>
</tr>
</tbody>
</table>

Displaying Demo Mode
① Remove the battery pack and SD card.
② Connect the AC adapter.
③ Open the LCD monitor and turn on the power.
● Demonstration starts playing after 3 minutes.
● To stop playback, touch .

Memo:
● This mode is not available in the playback mode.

Displaying the Item
1 Touch  to display the menu.

2 Select “BASIC SETTINGS” and touch .

3 Select “DEMO MODE” and touch .

AUTO POWER OFF
Prevents the situation of forgetting to turn off the power when this is set.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Power is not turned off even if this unit is not operated for 5 minutes.</td>
</tr>
<tr>
<td>ON</td>
<td>Turns off the power automatically if this unit is not operated for 5 minutes.</td>
</tr>
</tbody>
</table>

Memo:
● When using battery, power is turned off automatically if this unit is not operated for 5 minutes.
● When using the AC adapter, this unit goes into standby mode.

Displaying the Item
1 Touch  to display the menu.

2 Select “BASIC SETTINGS” and touch .

3 Select “AUTO POWER OFF” and touch .
Menu Settings

OPERATION SOUND
Turns on or off the operation sound.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turns off the operation sound.</td>
</tr>
<tr>
<td>ON</td>
<td>Turns on the operation sound.</td>
</tr>
</tbody>
</table>

Displaying the Item
1 Touch D to display the menu.
2 Select “BASIC SETTINGS” and touch C.
3 Select “OPERATION SOUND” and touch C.

RECORD BUTTON
Displays the REC button on the LCD monitor and enables it to be used as the START/STOP button.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>No display.</td>
</tr>
<tr>
<td>ON</td>
<td>Displays the REC button on the LCD monitor.</td>
</tr>
</tbody>
</table>

Displaying the Item
1 Touch D to display the menu.
2 Select “BASIC SETTINGS” and touch C.
3 Select “RECORD BUTTON” and touch C.
QUICK RESTART
Enables recording to be performed immediately when the LCD monitor is opened.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Deactivates the function.</td>
</tr>
<tr>
<td>ON</td>
<td>Enables the power to turn on quickly when the LCD monitor is opened again within 5 minutes.</td>
</tr>
</tbody>
</table>

Displaying the Item

1. Touch \( \text{\textbullet} \) to display the menu.

2. Select “BASIC SETTINGS” and touch \( \text{\textbullet} \).

3. Select “QUICK RESTART” and touch \( \text{\textbullet} \).

- The power consumption within 5 minutes after the LCD monitor is closed is reduced to 1/3 of that used during recording.

UPDATE
Updates the functions of this unit to the latest version.
For details, refer to the JVC homepage.
(When no program to update the software of this unit is available, nothing will be provided on the homepage.)
FACTORY PRESET

Returns all the settings to their default values.

1 Touch 📅 to display the menu.

2 Select “BASIC SETTINGS” and touch 📅.

3 Select “FACTORY PRESET” and touch 📅.

4 Select “YES” and touch 📅.

- All settings return to their default values.
## Connection Settings Menu

You can adjust various settings for connecting to a TV or DVD recorder.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPLAY ON TV</td>
<td>Displays icons and date/time on a TV screen.</td>
</tr>
<tr>
<td></td>
<td>&quot;DISPLAY ON TV&quot; (☞ P.103)</td>
</tr>
<tr>
<td>VIDEO OUTPUT</td>
<td>Sets the aspect ratio (16:9 or 4:3) according to the connecting TV.</td>
</tr>
<tr>
<td></td>
<td>&quot;VIDEO OUTPUT&quot; (☞ P.103)</td>
</tr>
<tr>
<td>COMPONENT OUTPUT</td>
<td>Sets the definition of the video output from the COMPONENT connector.</td>
</tr>
<tr>
<td></td>
<td>&quot;COMPONENT OUTPUT&quot; (☞ P.104)</td>
</tr>
<tr>
<td>HDMI OUTPUT</td>
<td>Sets the definition of the video output from the HDMI mini connector.</td>
</tr>
<tr>
<td></td>
<td>&quot;HDMI OUTPUT&quot; (☞ P.104)</td>
</tr>
<tr>
<td>HDMI CONTROL</td>
<td>Sets the linked operations ON/OFF when the TV and this unit are connected using the HDMI mini connector.</td>
</tr>
<tr>
<td></td>
<td>&quot;HDMI CONTROL&quot; (☞ P.105)</td>
</tr>
</tbody>
</table>

### DISPLAY ON TV

Displays icons and date/time on a TV screen.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Does not display icons and date/time on TV.</td>
</tr>
<tr>
<td>ON</td>
<td>Displays icons and date/time on TV.</td>
</tr>
</tbody>
</table>

### VIDEO OUTPUT

Sets the aspect ratio (16:9 or 4:3) according to the connecting TV.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:9</td>
<td>Select this when connecting to a widescreen TV (16:9).</td>
</tr>
<tr>
<td>4:3</td>
<td>Select this when connecting to a conventional TV (4:3).</td>
</tr>
</tbody>
</table>

### Displaying the Item

1. Touch 📲 to display the menu.
2. Select “CONNECTION SETTINGS” and touch 📲.
3. Select “DISPLAY ON TV” and touch 📲.
COMPONENT OUTPUT
Sets the definition of the video output from the COMPONENT connector.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>480i</td>
<td>Outputs at 480i or 480p.</td>
</tr>
<tr>
<td>1080i</td>
<td>Outputs at 1080i or 720p.</td>
</tr>
</tbody>
</table>

Displaying the Item
1 Touch \( \mathcal{O} \) to display the menu.
2 Select “CONNECTION SETTINGS” and touch \( \mathcal{O} \).
3 Select “COMPONENT OUTPUT” and touch \( \mathcal{O} \).

HDMI OUTPUT
Sets the definition of the video output from the HDMI mini connector.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 1</td>
<td>It is recommended to select “AUTO 1” usually.</td>
</tr>
<tr>
<td>AUTO 2</td>
<td>Select this when the video is not output in “AUTO 1” correctly.</td>
</tr>
<tr>
<td>480p</td>
<td>Select this when the video is not output in “AUTO 2” correctly.</td>
</tr>
</tbody>
</table>

Memo:
- “1080P” will be displayed on the LCD monitor if a 1080p compatible TV is connected to this unit in playback mode.

Displaying the Item
1 Touch \( \mathcal{O} \) to display the menu.
2 Select “CONNECTION SETTINGS” and touch \( \mathcal{O} \).
3 Select “HDMI OUTPUT” and touch \( \mathcal{O} \).
HDMI CONTROL
Sets the linked operations ON/OFF when the TV and this unit are connected using the HDMI mini connector.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turns off linked operations.</td>
</tr>
<tr>
<td>ON</td>
<td>Turns on linked operations.</td>
</tr>
</tbody>
</table>

Displaying the Item

1 Touch 📱 to display the menu.

2 Select “CONNECTION SETTINGS” and touch 🎥.

3 Select “HDMI CONTROL” and touch 🎥.
### Media Settings Menu

You can perform various settings for the recording media.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REC MEDIA FOR VIDEO</strong></td>
<td>Sets the recording/playback media of videos.</td>
</tr>
<tr>
<td><strong>VIDEO SLOT SELECTION</strong></td>
<td>Sets the recording/playback SD slot of videos.</td>
</tr>
<tr>
<td><strong>REC MEDIA FOR IMAGE</strong></td>
<td>Sets the recording/playback media of still images.</td>
</tr>
<tr>
<td><strong>IMAGE SLOT SELECTION</strong></td>
<td>Sets the recording/playback SD slot of still images.</td>
</tr>
<tr>
<td><strong>FORMAT BUILT-IN MEM.</strong></td>
<td>Deletes all files on the built-in memory.</td>
</tr>
<tr>
<td><strong>FORMAT SD CARD</strong></td>
<td>Deletes all files on the SD card.</td>
</tr>
<tr>
<td><strong>ERASE ALL DATA</strong></td>
<td>Execute this process when disposing of this unit or passing it to another person.</td>
</tr>
</tbody>
</table>

#### REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320)

Sets the recording/playback media of videos.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUILT-IN MEMORY</td>
<td>Records videos to this unit's built-in memory.</td>
</tr>
<tr>
<td>SD CARD</td>
<td>Records videos to the SD card.</td>
</tr>
</tbody>
</table>

#### Displaying the Item

1. Touch \( \odot \) to display the menu.

2. Select “MEDIA SETTINGS” and touch \( \odot \).

3. Select “REC MEDIA FOR VIDEO”, and touch \( \odot \).

#### VIDEO SLOT SELECTION (GZ-HM300)

Sets the recording/playback media of videos.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLOT A</td>
<td>Records videos to the SD card in slot A.</td>
</tr>
</tbody>
</table>
REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)
Sets the recording/playback media of still images.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUILT-IN MEMORY</td>
<td>Records still images to this unit’s built-in memory.</td>
</tr>
<tr>
<td>SD CARD</td>
<td>Records still images to the SD card.</td>
</tr>
</tbody>
</table>

Displaying the Item
1. Touch to display the menu.
2. Select “MEDIA SETTINGS” and touch .
3. Select “REC MEDIA FOR IMAGE” and touch .

IMAGE SLOT SELECTION (GZ-HM300)
Sets the recording/playback media of still images.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLOT A</td>
<td>Records still images to the SD card in slot A.</td>
</tr>
<tr>
<td>SLOT B</td>
<td>Records still images to the SD card in slot B.</td>
</tr>
</tbody>
</table>

Displaying the Item
1. Touch to display the menu.
2. Select “MEDIA SETTINGS” and touch .
3. Select “IMAGE SLOT SELECTION” and touch .

FORMAT BUILT-IN MEM. (GZ-HM340/GZ-HM320)
Deletes all files on the built-in memory.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILE</td>
<td>Deletes all files on the built-in memory.</td>
</tr>
<tr>
<td>FILE + MANAGEMENT NO</td>
<td>Deletes all files on the internal memory and resets the folder and file numbers to “1”.</td>
</tr>
</tbody>
</table>

CAUTION:
- All data on the built-in memory will be deleted when it is formatted. Copy all files on the built-in memory to a PC before formatting.
- Make sure that the battery pack is fully charged or connect the AC adapter as the formatting process may take some time.

Displaying the Item
1. Touch to display the menu.
2. Select “MEDIA SETTINGS” and touch .
3. Select “FORMAT BUILT-IN MEM.” and touch .

Menu Settings
107
FORMAT SD CARD
Deletes all files on the SD card.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILE</td>
<td>Deletes all files on the SD card.</td>
</tr>
<tr>
<td>FILE + MANAGEMENT NO</td>
<td>Deletes all files on the SD card and resets the folder and file numbers to “1”.</td>
</tr>
</tbody>
</table>

CAUTION:
- Not available for selection when no SD card is inserted.
- All data on the card will be deleted when it is formatted. Copy all files on the card to a PC before formatting.
- Make sure that the battery pack is fully charged or connect the AC adapter as the formatting process may take some time.
- Format a newly purchased SD card with this unit before use.

Displaying the Item
1 Touch ✹ to display the menu.

2 Select “MEDIA SETTINGS” and touch ✹.

3 Select “FORMAT SD CARD” and touch ✹.

4 GZ-HM300
Select the card slot.

5 Select the setting and touch ✹.

6 Select “YES” and touch ✹.

- After formatting, touch ✹.

ERASE ALL DATA (GZ-HM340/GZ-HM320)
Execute this process when disposing of this unit or passing it to another person.

1 Touch ✹ to display the menu.

2 Select “MEDIA SETTINGS” and touch ✹.

3 Select “ERASE ALL DATA” and touch ✹.

4 Select “YES” and touch ✹.

- After deleting the data, touch ✹.

CAUTION:
- Connect the AC adapter as it may take some time to delete data.

Memo:
- Repeat the process to make data restoration even more difficult.
1 Lens
- Do not touch the lens and lens cover.
- Do not cover the lens with your fingers during video recording.
"Attaching the Lens Cap" (P.16)

2 Stereo Microphone
- Do not cover the microphone with your fingers during video recording.

3 Camera Sensor
- Do not cover the sensor with your fingers during video recording.

4 POWER/CHARGE Lamp
- Lights up: Power "ON"
- Blinks: Charging in progress
- Goes out: Charging finished

5 ACCESS Lamp
- Recording or playback is in progress when the lamp lights up or blinks.
- Do not remove the battery pack, AC adapter, or SD card.

1 Zoom/Volume Lever
- During shooting: Adjusts the shooting range.
- During playback (index screen): Changes the number of images to display.
- During video playback: Adjusts the volume.

2 SNAPSHOT (Still image recording) Button
- Takes a still image.

3 USB Terminal
- Connects to PC using a USB cable.

4 DC Terminal
- Connects to an AC adapter to charge the battery.

5 START/STOP (Video recording) Button
- Starts/stops video recording.

6 Grip Belt Release Lever
- Allows the grip belt to be removed and used as a hand strap.

7 Grip Belt
- Pass your hand through the grip belt to hold this unit firmly.
"Holding this Unit" (P.15)
Names of Parts

Bottom

1 Tripod Mounting Hole
“Tripod Mounting” (☞ P.16)
2 SD Card Slot
   • Insert an optional SD card.
   “Inserting an SD Card (GZ-HM340/GZ-HM320)” (☞ P.12)
   “Inserting an SD Card (GZ-HM300)” (☞ P.13)
3 Battery Release Lever
   “Charging the Battery Pack” (☞ P.11)
4 Battery Mount
   “Charging the Battery Pack” (☞ P.10)

Interior

1 Speaker
   • Outputs audio sound during video playback.
2 (Play) Button
   • Switches between the recording and playback modes.
3 (Video/Still Image) Button
   • Switches between video and still image.
4 UPLOAD Button
   • Recording: Takes videos in YouTube™ format.
   • Playback: Changes the video to YouTube™ format.
5 (Power/Info) Button
   • Recording: Displays the remaining time (for video only) and battery power.
   • Playback: Displays file information such as recording date.
   • Press and hold to turn the power on/off while the LCD monitor is opened.
6 AV Terminal
   • Connects to a TV.
7 COMPONENT Terminal
   • Connects to a TV.
8 HDMI Terminal
   • Connects to an HDMI TV.
**Names of Parts**

**LCD Monitor**

1. **Slider**
   - LASER TOUCH OPERATION
   - Selects items or images from the menu or index screen.
   - "Using the Operation Buttons" (⇒ P.15)

2. **LCD Monitor**
   - Turns the power on/off by opening and closing.
   - Enables self-portraits to be taken by rotating the monitor.

3. **OK Button**
   - Confirms the selected item or image.

4. **Operation Buttons**
   - Functions of the operation buttons may be displayed.

5. **MENU Button**
   - Displays the settings menu.

**CAUTION:**
- Do not press against the surface with force or subject it to strong impact.
- Doing so may damage or break the screen.
Common Recording Indications

1 Recording Mode
"Taking Videos in Auto Mode" (☞ P.19)
"Manual Recording" (☞ P.24)

2 Effect
"EFFECT" (☞ P.87)

3 Scene Select
"SCENE SELECT" (☞ P.87)

4 Auto REC
"Recording Automatically by Sensing Movements (AUTO REC)" (☞ P.33)

5 White Balance
"WHITE BALANCE" (☞ P.87)

6 Quick Review
"Taking Videos in Auto Mode" (☞ P.19)
"Taking Still Images in Auto Mode" (☞ P.22)

7 Zoom
"ZOOM" (☞ P.80)

8 Media
"REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320)" (☞ P.106)
"REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)" (☞ P.107)
"VIDEO SLOT SELECTION (GZ-HM300)" (☞ P.106)
"IMAGE SLOT SELECTION (GZ-HM300)" (☞ P.107)

9 Monitor Backlight
"LCD BACKLIGHT" (☞ P.96)

10 Metering Area "SPOT"
"METERING AREA/TYPE" (☞ P.87)

11 Focus Assist
"FOCUS ASSIST" (☞ P.87)

12 Battery Indicator
"Remaining Recording Time/Battery Power" (☞ P.34)

13 Date/Time
"Clock Setting" (☞ P.14)

14 Focus
"FOCUS" (☞ P.87)

15 Tele Macro
"TELE MACRO" (☞ P.87)

16 Backlight Compensation
"BACKLIGHT COMP." (☞ P.87)

17 Brightness
"BRIGHTNESS ADJUST" (☞ P.87)

18 Shutter Speed

Video Recording

1 Video Mode
' ◀ / ◘ (Video/Still Image) Button' (☞ P.110)

2 x.v.Color
"x.v.Color" (☞ P.81)

3 Time-Lapse Recording
"Recording at Intervals (TIME-LAPSE RECORDING)" (☞ P.31)

4 Video Quality
"VIDEO QUALITY" (☞ P.79)

5 Scene Counter

6 Remaining Recording Time
"Taking Videos in Auto Mode" (☞ P.19)

7 Recording in Progress
"Taking Videos in Auto Mode" (☞ P.19)

8 Time-Lapse Recording Counter

9 Seamless Recording
"SEAMLESS RECORDING" (☞ P.81)

10 Still Image Recording
"Capturing Still Images During Video Recording" (☞ P.21)

11 Wind Cut
"WIND CUT" (☞ P.82)

12 Event Recording
"Registering Files to Events Before Recording" (☞ P.30)

13 Digital Image Stabilizer
"Reducing Camera Shake" (☞ P.21)

14 UPLOAD Recording
"Taking Videos in YouTube™ Format" (☞ P.30)
Indications on the LCD Monitor

**Still Image Recording**

1. Still Image Mode
   - "A / B (Video/Still Image) Button" (☞ P.110)
2. Focus
   - "Taking Still Images in Auto Mode" (☞ P.22)
3. Image Size
   - "IMAGE SIZE" (☞ P.85)
4. Image Quality
   - "IMAGE QUALITY" (☞ P.85)
5. Remaining Number of Shots
   - "Taking Still Images in Auto Mode" (☞ P.22)
6. Recording in Progress
7. Continuous Shooting
   - "SHUTTER MODE" (☞ P.84)
8. Self-Timer
   - "SELF-TIMER" (☞ P.83)

**Video Playback**

1. Video Mode
   - "A / B (Video/Still Image) Button" (☞ P.110)
2. Time-Lapse Recording
   - "TIME-LAPSE RECORDING" (☞ P.81)
3. Playlist Playback
   - "PLAYBACK PLAYLIST" (☞ P.89)
4. Digest Playback
   - "Checking the Content of Videos Quickly" (☞ P.37)
5. Video Quality
   - "VIDEO QUALITY" (☞ P.79)
6. Scene Counter
7. Operation Indicator
   - The number on the left shows the speed of forward/reverse search.
8. Media
   - "REC MEDIA FOR VIDEO (GZ-HM340/GZ-HM320)" (☞ P.106)
   - "VIDEO SLOT SELECTION (GZ-HM300)" (☞ P.106)
9. Battery Indicator
   - "Remaining Recording Time/Battery Power" (☞ P.34)
10. Date/Time
11. Speaker Volume Adjustment
12. Output with 1080p
   - "HDMI OUTPUT" (☞ P.104)
13. Wipe/Fader
   - "Playback with Special Effects" (☞ P.38)
14. x.v.Color
   - "x.v.Color" (☞ P.81)
Indications on the LCD Monitor

Still Image Playback

1. Still Image Mode
   "A / B (Video/Still Image) Button" (☞ P.110)
2. Folder Number
3. File Number
4. Operation Indicator
   "Playing Back Still Images" (☞ P.39)
5. Media
   "REC MEDIA FOR IMAGE (GZ-HM340/GZ-HM320)" (☞ P.107)
   "IMAGE SLOT SELECTION (GZ-HM300)" (☞ P.107)
6. Battery Indicator
   "Remaining Recording Time/Battery Power" (☞ P.34)
7. Date/Time
   "Clock Setting" (☞ P.14)
8. Output with 1080p
   "HDMI OUTPUT" (☞ P.104)
### Battery Pack

Unable to turn on the power when using the battery pack.
- **Recharge the battery pack.**
- If the terminal of this unit or the battery pack is dirty, wipe it with a cotton swab or something similar.
- If you use any other battery packs besides JVC battery packs, safety and performance cannot be guaranteed. Be sure to use JVC battery packs.

**Short usage time even after charging.**
- Battery deterioration occurs when a battery pack is charged repeatedly.
- Replace the battery pack with a new one.

Unable to charge the battery pack.
- When the battery pack is fully charged, the lamp does not flash.
- If the terminal of this unit or the battery pack is dirty, wipe it with a cotton swab or something similar.
- Using a non-original battery pack may result in damage to this unit. Be sure to use an original battery pack.

The remaining battery display is not correct.
- Remaining battery power is not displayed when the AC adapter is connected.
- If this unit is used for long periods of time in high or low temperatures, or if the battery pack is repeatedly charged, the amount of remaining battery may not be displayed correctly.

### Recording

Recording/snapshot cannot be performed.
- Check the START/STOP switch.
- Set to the recording mode with the
  - Check the mode.

Recording stops automatically.
- Recording stops automatically as it cannot be performed for 12 or more consecutive hours according to specifications. (It may take some time to resume recording.)
- To ensure continuous recording, set
  - Turn off the power, wait for a while, and start recording again. (This unit stops automatically to protect the circuit when the temperature rises.)

The image stabilizer does not work.
- The image stabilizer does not work when recording still images.

The continuous shooting speed of still images is slow.
- The continuous shooting speed will drop if this function is used repeatedly.
  - Continuous shooting speed may drop depending on the SD card or under certain recording conditions.

The focus is not adjusted automatically.
- If you are recording in a dark place or a subject that has no contrast between dark and light, adjust the focus manually.
- Wipe the lens with a lens cleaning cloth.
- Cancel manual focus on the manual recording menu.
- Use the Focus Assist function to adjust focus more precisely.

Digital zoom does not work.
- Digital zoom is not available in the still image recording mode.
- Zoom operation is not available in time-lapse shooting. (Simultaneous still image recording and image stabilizer are also not available.)
- To use digital zoom, set

Vertical lines appear on recorded images.
- Such a phenomenon occurs when shooting a subject illuminated by bright light. This is not a malfunction.

Mosaic-type noise occurs when recording scenes with fast movements or extreme changes in brightness.
- Set the “VIDEO QUALITY” to “UXP” or “XP” for recording.
## Troubleshooting

<table>
<thead>
<tr>
<th>Card</th>
<th>Playback</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot insert the SD card.</td>
<td>Sound or video is interrupted.</td>
</tr>
<tr>
<td>Make sure not to insert the card in the wrong direction.</td>
<td>Sometimes playback is interrupted at the connecting section between two</td>
</tr>
<tr>
<td>Unable to copy to SD card.</td>
<td>scenes. This is not a malfunction.</td>
</tr>
<tr>
<td>To record to the card, it is necessary to perform media settings.</td>
<td></td>
</tr>
<tr>
<td>To use cards that have been used on other devices, it is necessary to</td>
<td></td>
</tr>
<tr>
<td>format (initialize) the card using</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Images do not appear on the TV properly.</td>
<td>Images are projected vertically on the TV.</td>
</tr>
<tr>
<td>Disconnect the cable and connect again.</td>
<td>Set</td>
</tr>
<tr>
<td>Turn off and on this unit again.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Images do not appear on the TV properly.</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td></td>
<td>No date/time display.</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td></td>
<td>Images do not appear on the TV properly.</td>
</tr>
<tr>
<td></td>
<td>Images are projected vertically on the TV.</td>
</tr>
<tr>
<td></td>
<td>Unable to delete file.</td>
</tr>
<tr>
<td></td>
<td>Files that are protected cannot be deleted. Release protection before de-</td>
</tr>
<tr>
<td></td>
<td>Deleting the file.</td>
</tr>
<tr>
<td></td>
<td>Unable to play back DVD with title.</td>
</tr>
<tr>
<td></td>
<td>The title will not be played back if you connect this unit to a DVD</td>
</tr>
<tr>
<td></td>
<td>Write (optional).</td>
</tr>
<tr>
<td></td>
<td>Some functions cannot be used when playing back a backup BD/DVD through</td>
</tr>
<tr>
<td></td>
<td>The following functions cannot be used for a backup BD/DVD.</td>
</tr>
<tr>
<td></td>
<td>When playing back video</td>
</tr>
<tr>
<td></td>
<td>- Search index by date</td>
</tr>
<tr>
<td></td>
<td>- Wipe/fader effects</td>
</tr>
<tr>
<td></td>
<td>When playing back still image</td>
</tr>
<tr>
<td></td>
<td>- Slideshow effects</td>
</tr>
</tbody>
</table>
**Editing/Copying**

Unable to dub to a Blu-ray recorder.
Dubbing cannot be performed by connecting this unit to a Blu-ray recorder with a USB cable. Connect and dub using the supplied AV cable.

CREATE DVD menu does not disappear.
While the USB cable is connected, the “CREATE DVD” menu is displayed.

Unable to turn off the CREATE DVD menu.
Turn off the power of this unit and the DVD writer, or remove the AC adapter.

**PC**

Unable to copy files to the PC’s HDD.
Connect the USB cable correctly.
If the provided software Everio MediaBrowser is not installed, some functions may not work properly.
Before making backup, make sure that enough free space is left in the PC’s hard disk (HDD).
Still images cannot be recorded to disk using the provided software.

Unable to copy files to DVD with a PC.
To record to discs, a recordable DVD drive is required for the PC in use.

I am using a Mac computer.
Copy the files to a Mac computer using the following method.

Cannot upload the file to YouTube™.
Check if you have created an account with YouTube™. (You need a YouTube™ account to upload files to YouTube™.)
Upload recording can only be performed for up to 10 minutes, the time limit of YouTube™.
Changing videos to the file format for uploading cannot be performed on this unit.
Refer to "Q&A", "Latest Information", "Download Information", etc. in "Click for Latest Product Info" in the help file of the provided Everio MediaBrowser software.
### Troubleshooting

#### Screen/Image

**The LCD monitor is difficult to see.**
The LCD monitor may be difficult to see if used in bright areas such as under direct sunlight.

**A band or a ball of bright light appears on the LCD monitor.**
Change the direction of this unit to prevent the light source from coming into view. (A band or a ball of bright light may appear when there is a bright light source near this unit, but this is not a malfunction.)

**The recorded subject is too dark.**
*Use backlight compensation when the background is bright and the subject is dark.*
*Use*
*Set*

**The recorded subject is too bright.**
*Set the backlight compensation to off if it is being used.*
*Use*
*Set*

**The color looks strange. (Too bluish, too reddish, etc.)**
*Set*
*If the video was recorded with*
*Set*

#### Other Problems

**The slider and operation buttons do not work.**
Touch the slider and buttons around the screen with your fingers. The slider and buttons do not function if you touch them with your fingernails or with gloves on.
The displays on the screen do not work even if you touch them.

**The unit operates slowly when switching between video mode and still image mode, or when switching the power on or off.**
It is recommended that you copy all videos and still images onto your computer, and erase the files from this unit. (If there are many recorded files on this unit, it takes time for the unit to respond.)

**The image is grainy.**
When digital zoom is used, the image becomes grainy as it is digitally enlarged.

**The unit heats up.**
This is not a malfunction. (This unit may become warm when used for a long time.)

**When connecting to the HDMI mini cable, the image or sound does not appear on the TV properly.**
The image or sound may not appear on the TV properly depending on the TV connected. In such cases, perform the following operations. (1) Disconnect the HDMI mini cable and connect it again. (2) Turn off and on this unit again.

**The language on the display changed.**
It may occur when you connect this unit to a TV with different language setting using an HDMI mini cable.

**HDMI-CEC functions do not work properly, and the TV does not work in conjunction with this unit.**
TVs may operate differently depending on the specifications, even if they are HDMI-CEC compliant. Therefore, the HDMI-CEC functions of this unit cannot be guaranteed to operate in combination with all the TVs. In such cases, set.

**Make a backup of important recorded data.**
It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.
<table>
<thead>
<tr>
<th>Error Message?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SET DATE/TIME!</strong></td>
</tr>
<tr>
<td>Connect the AC adapter, charge the battery pack for more than 24 hours, then set the clock. (If the message still appears, the clock battery is exhausted. Consult your nearest JVC dealer.)</td>
</tr>
<tr>
<td><strong>COMMUNICATION ERROR</strong></td>
</tr>
<tr>
<td>Reconnect the USB cable. Turn off this unit and the devices connected to it, and turn them on again. Reattach the battery pack.</td>
</tr>
<tr>
<td><strong>FORMAT ERROR!</strong></td>
</tr>
<tr>
<td>Check the operating procedure, and perform once again. Turn off this unit, and turn it on again.</td>
</tr>
<tr>
<td><strong>DATA DELETION ERROR</strong></td>
</tr>
<tr>
<td>Check the operating procedure, and perform once again. Turn off this unit, and turn it on again.</td>
</tr>
<tr>
<td><strong>MEMORY CARD ERROR!</strong></td>
</tr>
<tr>
<td>Turn off this unit, and turn it on again. Remove and re-insert the SD card after detaching the AC adapter and battery pack. Remove any dirt from the SD card terminals. If the above does not solve the problem, back up your files and execute.</td>
</tr>
<tr>
<td><strong>NOT FORMATTED</strong></td>
</tr>
<tr>
<td>Select “OK”, then select “YES” on the “DO YOU WANT TO FORMAT?” screen.</td>
</tr>
<tr>
<td><strong>RECORDING FAILURE</strong></td>
</tr>
<tr>
<td>Remove and re-insert the SD card. Remove any dirt from the SD card terminals. Insert the SD card before turning on the power. Do not subject this unit to strong impact/vibrations.</td>
</tr>
<tr>
<td><strong>CANNOT TAKE MORE STILL IMAGES AT THE MOMENT</strong></td>
</tr>
<tr>
<td>Stop video recording before taking still images. (If the SD card is removed and inserted during video recording, still images cannot be recorded.)</td>
</tr>
<tr>
<td><strong>PLAYBACK FAILED</strong></td>
</tr>
<tr>
<td>Remove and re-insert the SD card. Remove any dirt from the SD card terminals. Insert the SD card before turning on the power. Do not subject this unit to strong impact/vibrations.</td>
</tr>
<tr>
<td><strong>VIDEO MANAGEMENT FILE IS DAMAGED, RECOVERY IS REQUIRED TO RECORD/PLAYBACK, RECOVER?</strong></td>
</tr>
<tr>
<td>Select.</td>
</tr>
<tr>
<td><strong>UNSUPPORTED FILE!</strong></td>
</tr>
<tr>
<td>Use files recorded with this unit. (Files recorded with other devices may not be playable.)</td>
</tr>
<tr>
<td><strong>UNSUPPORTED SCENE!</strong></td>
</tr>
<tr>
<td>Use files recorded with this unit. (Files recorded with other devices may not be playable.)</td>
</tr>
<tr>
<td><strong>THIS FILE IS PROTECTED</strong></td>
</tr>
<tr>
<td>Switch off the.</td>
</tr>
<tr>
<td><strong>INSUFFICIENT AVAILABLE SPACE</strong></td>
</tr>
<tr>
<td>Delete files, or move files to a PC or other devices. Replace the SD card with a new one.</td>
</tr>
<tr>
<td><strong>MAXIMUM QUANTITY RECORDING FOLDERS/FILES HAS BEEN REACHED</strong></td>
</tr>
<tr>
<td>(1) Move the files or folders to a PC or other device. (Back up your files.) (2) Select “FILE + MANAGEMENT NO” in “FORMAT BUILT-IN MEM.” or “FORMAT SD CARD” of the media settings menu. (All data on the built-in memory or SD card will be deleted.)</td>
</tr>
<tr>
<td><strong>SCENE QUANTITY EXCEEDED LIMIT</strong></td>
</tr>
<tr>
<td>(1) Move the files or folders to a PC or other device. (Back up your files.) (2) Select “FILE + MANAGEMENT NO” in “FORMAT BUILT-IN MEM.” or “FORMAT SD CARD” of the media settings menu. (All data on the built-in memory or SD card will be deleted.)</td>
</tr>
<tr>
<td><strong>NUMBER OF FOLDERS OVERFLOW</strong></td>
</tr>
<tr>
<td>(1) Move the files or folders to a PC or other device. (Back up your files.) (2) Select “FILE + MANAGEMENT NO” in “FORMAT BUILT-IN MEM.” or “FORMAT SD CARD” of the media settings menu. (All data on the built-in memory or SD card will be deleted.)</td>
</tr>
<tr>
<td><strong>FILE QUANTITY LIMIT EXCEEDED</strong></td>
</tr>
<tr>
<td>(1) Move the files or folders to a PC or other device. (Back up your files.) (2) Select “FILE + MANAGEMENT NO” in “FORMAT BUILT-IN MEM.” or “FORMAT SD CARD” of the media settings menu. (All data on the built-in memory or SD card will be deleted.)</td>
</tr>
<tr>
<td><strong>PLAYLIST QUANTITY EXCEEDS LIMIT</strong></td>
</tr>
<tr>
<td>Reduce the number of the playlist to 99 files or less. (Up to 99 playlists can be created.)</td>
</tr>
<tr>
<td><strong>CANCELLED BECAUSE PLAYLIST AMOUNT EXCEEDED MAXIMUM LIMIT</strong></td>
</tr>
<tr>
<td>When creating a DVD, reduce the number of playlists to be saved. Reduce the number of videos to add to the playlist to 999 files.</td>
</tr>
<tr>
<td><strong>PROCESSING CANCELLED DUE TO LIMITED SPACE FOR OPERATION</strong></td>
</tr>
<tr>
<td>Reduce the number of videos to add to the playlist to 999 files.</td>
</tr>
<tr>
<td><strong>NO FILES</strong></td>
</tr>
<tr>
<td>Change the setting in.</td>
</tr>
<tr>
<td><strong>RECORDING CANCELLED</strong></td>
</tr>
<tr>
<td>Set. Turn off the unit, and turn it on again. Protect the unit from vibration and shock.</td>
</tr>
<tr>
<td><strong>CHECK LENS COVER</strong></td>
</tr>
<tr>
<td>Appears for 5 seconds after power is turned on, if the lens cap is attached or when it is dark.</td>
</tr>
</tbody>
</table>
**Maintenance**

Perform regular maintenance of this unit to enable it to be used for a long time.

**CAUTION:**
- Be sure to detach the battery pack, AC adapter, and power plug before performing any maintenance.

<table>
<thead>
<tr>
<th>Camcorder</th>
</tr>
</thead>
</table>
| • Wipe this unit with a dry, soft cloth to remove any dirt.  
• When it is extremely dirty, soak the cloth in a solution of neutral detergent, wipe the body with it, and then use a clean cloth to remove the detergent. |

**CAUTION:**
- Do not use benzene or thinner. Doing so may cause damage to the unit.  
- When using a chemical cloth or cleaner, be sure to observe the warning labels and instructions of the product.  
- Do not leave the device in contact with rubber or plastic products for a long time.

<table>
<thead>
<tr>
<th>Lens/LCD Monitor</th>
</tr>
</thead>
</table>
| • Use a lens blower (commercially available) to remove any dust, and a cleaning cloth (commercially available) to wipe off any dirt.  
Mold may form if the lens is left dirty. |
### Camera

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
</table>
| Power supply          | Using AC adapter: DC 5.2 V  
Using battery pack: DC 3.6 V                                                                                                           |
| Power consumption     | 2.6 W (when “LCD BACKLIGHT” is set to “STANDARD”)  
2.8 W (when “LCD BACKLIGHT” is set to “BRIGHTER”)  
Rated Current Consumption: 1A                                                                                                             |
| Dimensions (mm)       | 52 x 62 x 110 (2-1/16” x 2-2/5” x 4-3/8”) (W x H x D: excluding grip belt)                                                             |
| Mass                  | Approx. 215 g (0.47 lbs) (camera only)  
Approx. 255 g (0.56 lbs) (including supplied battery pack)                                                                                |
| Operating environment | Allowable operating temperature: 0°C to 40°C (32°F to 104°F)  
Allowable storage temperature: -20°C to 50°C (~-4°F to 122°F)  
Allowable operating humidity: 35 % to 80 %                                                                                                 |
| Image pickup device   | 1/5.8* 1,370,000 pixels (progressive CMOS)                                                                                              |
| Recording area (Video)| (16:9) 750,000 to 1,090,000 pixels (optical zoom)                                                                                       |
| Recording area (Still Image) | (4:3) 560,000 to 820,000 pixels  
(16:9) 750,000 to 1,090,000 pixels                                                                                                           |
| Lens                  | F1.8-3.5, f= 3.0mm to 60.0mm (35mm conversion: 46.4mm to 928mm)                                                                            |
| Zoom (during video recording) | Optical zoom: Up to 20x  
Digital zoom: Up to 80x  
Digital zoom: Up to 200x                                                                                                                     |
| Zoom (during still image recording) | Optical zoom: Up to 20x                                                                                                                   |
| LCD monitor           | 2.7” wide, 12.3 megapixels, polysilicon color LCD                                                                                         |
| Recording media       | GZ-HM340: Internal memory (16 GB)  
GZ-HM320: Internal memory (8 GB)  
SD/SDHC card (commercially available)                                                                                                       |
| Clock battery         | Rechargeable battery                                                                                                                        |

### Connectors

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>HDMI™ mini connector (V1.3 with x.v.Color™)</td>
</tr>
</tbody>
</table>
| Component output      | Y: Pb, Pr component output  
Y: 1.0 V (p-p), 75 Ω  
Pb/Pr: 0.7 V (p-p), 75 Ω                                                                 |
| AV output             | Video output: 1.0 V (p-p), 75 Ω  
Audio output: 300 mV (rms), 1 KΩ                                                                                                     |
| USB                   | Mini USB type B, USB 2.0 compliant                                     |

### Video

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording/Playback format</td>
<td>AVCHD standard, Video: AVC/H.264, Audio: Dolby Digital (2ch)</td>
</tr>
<tr>
<td>Extension</td>
<td>.MTS</td>
</tr>
<tr>
<td>Signal system</td>
<td>NTSC standard</td>
</tr>
</tbody>
</table>
| Image quality (Video) | UXP  
1920 x 1080 pixels  
Average Approximate 24 Mbps  
XP  
1920 x 1080 pixels  
Average Approximate 17 Mbps  
SP  
1920 x 1080 pixels  
Average Approximate 12 Mbps  
EP  
1920 x 1080 pixels  
Average Approximate 5 Mbps                                                                 |
| Sound quality (Audio) | 48 kHz, 256 kbps                                                      |

### Still Image

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format</td>
<td>JPEG standard</td>
</tr>
<tr>
<td>Extension</td>
<td>.JPG</td>
</tr>
</tbody>
</table>
| Image size            | 1920 x 1080  
1440 x 1080  
640 x 480                                                             |
| Quality               | FINE / STANDARD                                                      |

### AC Adapter (AP-V30U)

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
</table>
| Power supply          | AC 110 V to 240 V  
50 Hz/60 Hz                                                                 |
| Output                | DC 5.2 V, 1.8 A                                                       |
| Allowable operating temperature | 0°C to 40°C (32°F to 104°F)  
(10°C to 35°C (50°F to 95°F) during charging)                       |
| Dimensions (mm)       | 78 x 34 x 46 (3-1/8” x 1-3/8” x 1-13/16”) (W x H x D: excluding cord and AC plug) |
| Mass                  | Approx. 107 g (0.24 lbs)                                              |

### Battery Pack (BN-VG114U)

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power voltage</td>
<td>3.6 V</td>
</tr>
<tr>
<td>Capacity</td>
<td>1400 mAh</td>
</tr>
</tbody>
</table>
| Dimensions (mm)       | 31 x 21.5 x 43 (1-1/4” x 7/8” x 1-3/4”)  
(W x H x D)                                                                 |
| Mass                  | Approx. 40 g (0.09 lbs)                                               |

**Memo:**
- Some features explained in this manual only apply to the specific model identified.
- The specifications and appearance of this product are subject to changes for further improvement without prior notice.