

# **Quick Operation (English)**

**HITACHI**  
Inspire the Next

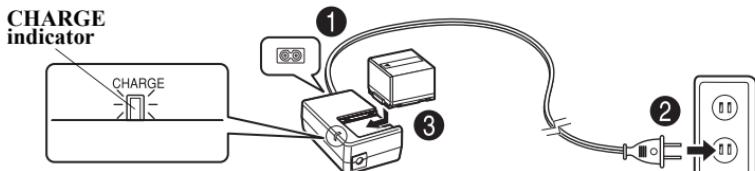
## **DZ-HD90**



**SD** **HDMI™**

## ■ Setting up the battery pack

Charging status	CHARGE indicator
During charge	Lit
Charge complete	Unlit

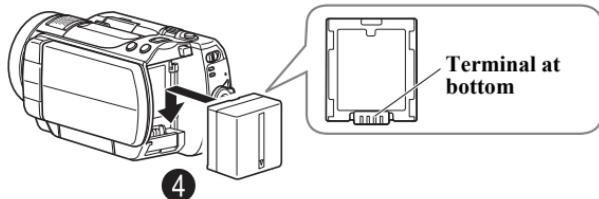


If the CHARGE indicator does not light, check that the connections (①, ②, and ③) are firmly made.

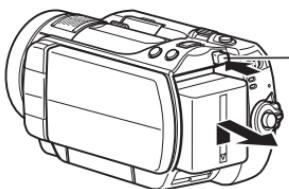
**Note**

Charging will not occur if the DC power cord is connected.

- After charging is complete, attach the battery pack to the camcorder.

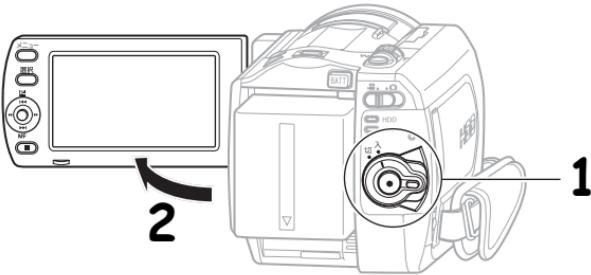


## ■ Removing the battery pack



- Always turn the power off before disconnecting the power supply.
- While pressing and holding the **BATT** switch, slide the battery pack upward, then remove it.
  - Be careful not to drop the battery pack while detaching it.

# Turning on the Power

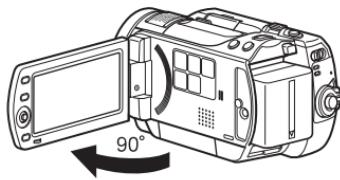


**1 Turn on the power.**



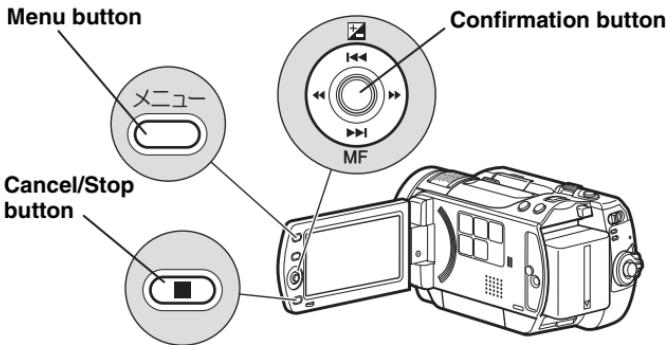
Press and hold the lock button, and turn the power switch to "入".

**2 Open the LCD monitor.**

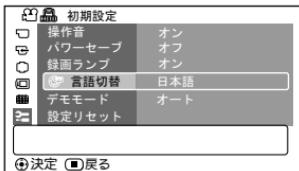


# Changing the display language (LANGUAGE)

You can change the language used on screens and menus.  
The following shows how to change from Japanese to English.



- ① Press the menu button, then select "初期設定" by pressing **◀▶**. Then, press **▶** (or the confirmation button).



- ② Select "言語切替" by pressing **◀▶**, then press **▶** (or the confirmation button).



- ③ Select "English" by pressing **▶**, then press the confirmation button.

# Setting the Date and Time

- ① Press the menu button, then select "Date Setup" by pressing **◀▶**. Then, press **▶** to select "Date Set" and press the confirmation button again.



- ② Select each item by pressing **◀▶** and set the correct value by pressing **◀▶**.

- Repeat this step until year, month, date, hour, minute, and AM/PM are correctly set.

- ③ Press the confirmation button.

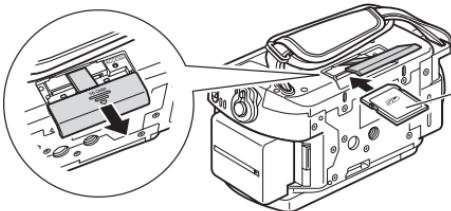
The confirmation screen appears.



- ④ Press **◀** to select "YES", then press the confirmation button to confirm.

- If you select "No" and press the confirmation button, the screen returns to step ②.

# Inserting and Removing Card (When recording still pictures)



**Label side**

Insert the card with the label side face up.

- ① Always turn off the power before inserting a card.

- ② Open the cover.

- ③ Push the card in until it clicks into place.

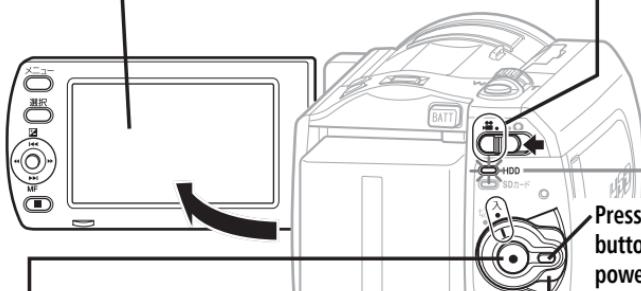
(To remove the card, push it in slightly and release.  
The card will pop up, and you can remove it.)

- ④ Always close the cover.

# Recording Movies

**1 Slide the Movie/Stills switch to "MOVIE".**

**2 Open the LCD monitor.**



Press and hold the lock button, and turn the power switch to "MOVIE".

**3 Turn the power switch to "MOVIE".**

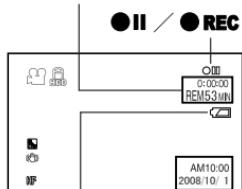
The HDD indicator lights and the camcorder enters recording pause mode. Movies will be recorded to HDD.

**4 Press the record button.**

- "●II" (recording pause) in the LCD monitor will change to "●REC" and recording will begin.  
The recording indicator beneath the lens will also light up red.
- To pause recording, press the record button again. The elapsed recording time will reset to "0:00:00".
- To resume recording, press the record button again.

Elapsed recording time  
(hrs : mins : secs)

Remaining space on  
HDD/Card



Remaining battery level

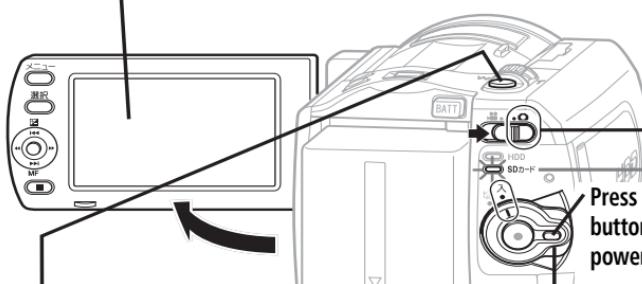
Current time

# Recording Still Pictures

Still pictures are recorded on an SD memory Card.

**1 Slide the Movie/Stills switch to "CAM".**

**2 Open the LCD monitor.**



Press and hold the lock button, and turn the power switch to "入".

**3 Turn the power switch to "入".**

- The SD card indicator lights.
- Switch to "切", to turn off.

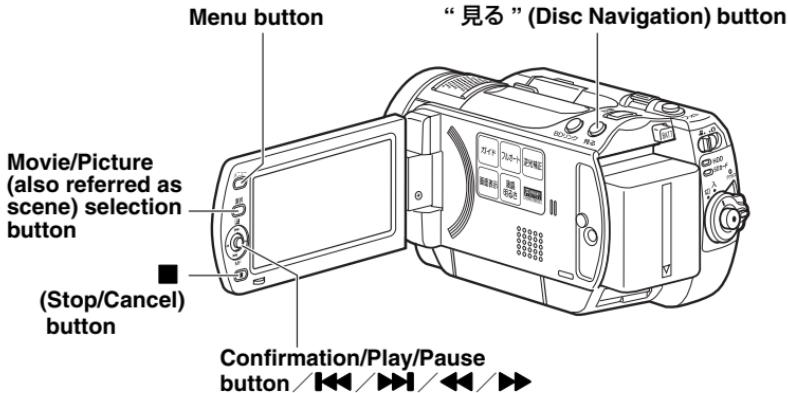
**4 Press the "フォト" (photo) button halfway down.**

A subject in the center of the screen will be focused. When focus is locked, the green "●II" in the LCD monitor will turn purple.

**5 Fully press the "フォト" (photo) button.**

The image will be recorded. After a few seconds, the image shot will be displayed for about three seconds. You can shoot the next photo when "●II" changes back to green.

# Playback



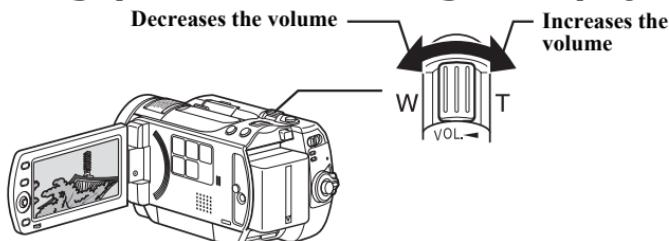
HDD CARD

## ■ Choosing and playing back a scene

- ① Press the “見る” button while the media you want to play back is in recording pause mode.  
The scenes thumbnails appear on the disc navigation screen.
- ② Choose a scene by pressing **◀◀/▶▶** (up/down, previous page/following page) and **◀◀/▶▶** (left/right).
- ③ Press the confirmation button.  
The chosen scene is played back.
  - To promptly return to the disc navigation screen, press ■ or the “見る” button. To return to recording pause mode, press ■ or the “見る” button again.

HDD

## ■ Adjusting speaker volume during movie playback



# Useful Recording Techniques

HDD CARD

## Magnified Recording (Optical Zoom and Digital Zoom)

The zoom lever allows you to choose a range of magnifications from wide-angle to telephoto zooming.

Optical zooming up to ten times is the maximum telephoto magnification. When using a card (recording stills), only optical zoom works.

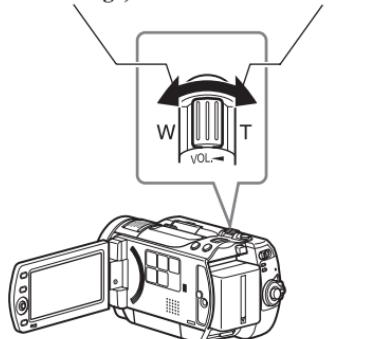
Maximum zoom values will depend on the "Digital Zoom" settings.

off → 40 × → 240 ×



**W:Wide-angle**  
(Shooting over a wide range)

**T:Telephoto**  
(Magnifies shooting)



HDD CARD

## Selecting a Shooting Mode to Match the Conditions (Program AE)

The camcorder automatically gauges the subject and surrounding conditions and determines the optimal settings for recording (Auto). You can also select a shooting mode that may better suit the situation.

### Shooting mode

**Auto (No icon appears.)**



#### Portrait

Makes the subject, such as a person or pet, stand out from a blurred background.



#### Spotlight

Prevents overexposure of the subject in strong light, such as at a wedding or on stage.



#### Sand&Snow

Prevents underexposure of the subject in very bright conditions, such as at the beach, or on a ski slope.



#### Low Light

Allows you to record in dark places with limited light.

## Selecting a shooting mode

**1** During record pause, press the menu button.

**2** Select "Camera Functions Setup" ➤ "Program AE" ➤ a shooting mode.

**3** Press the confirmation button to confirm, then the menu button to end.

The selected shooting mode (other than Auto) appears in the LCD monitor.

- The shooting mode is retained in memory even when the power is turned off.

### Note

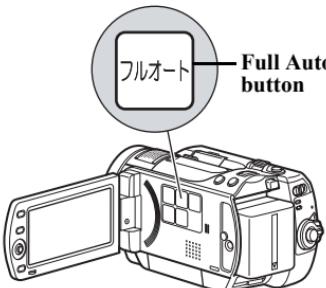
When shooting in dark places, after-images may appear if the subject is moving or if camera shake occurs. Use a tripod for best results.

HDD CARD

## Restoring all the Shooting Settings to Default (Full Auto)

You can reset the following manually adjusted shooting settings to their defaults with the press of a single button.

Function	Default
Focus	Auto
Exposure	Auto
BLC (Backlight)	Off
Program AE (shooting mode)	Auto
White Balance	Auto
EIS (Electronic Image Stabilizer)	On
Microphone Filter	Off



**During recording pause or recording, press the Full Auto button.**

**1** "FULL AUTO" appears in the LCD monitor for a moment and the settings return to their defaults.