

# Panasonic®

## Basic Operating Instructions Digital Camera

Model No. **DMC-FH6**  
**DMC-FH4**  
**DMC-S5**  
**DMC-S2**

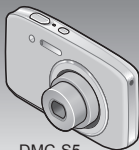
### LUMIX



DMC-FH6



DMC-FH4



DMC-S5  
DMC-S2



Before use, please read these instructions completely.

More detailed instructions on the operation of this camera are contained in "Operating Instructions for advanced features (PDF format)" in the supplied CD-ROM. Install it on your PC to read it.



## Dear Customer,

We would like to take this opportunity to thank you for purchasing this Panasonic Digital Camera. Please read these Operating Instructions carefully and keep them handy for future reference. Please note that the actual controls and components, menu items, etc. of your Digital Camera may look somewhat different from those shown in the illustrations in these Operating Instructions.

### Carefully observe copyright laws.

- Recording of pre-recorded tapes or discs or other published or broadcast material for purposes other than your own private use may infringe copyright laws. Even for the purpose of private use, recording of certain material may be restricted.

## Information for Your Safety

### **WARNING:**

To reduce the risk of fire, electric shock or product damage,

- Do not expose this unit to rain, moisture, dripping or splashing.
- Do not place objects filled with liquids, such as vases, on this unit.
- Use only the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.

The socket outlet shall be installed near the equipment and shall be easily accessible.

### ■ Product identification marking

Product	Location
Digital camera	Bottom
Battery charger	Bottom

## ■ About the battery pack

### **CAUTION**

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
  - When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
- 
- Do not heat or expose to flame.
  - Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.

### **Warning**

Risk of fire, explosion and burns. Do not disassemble, heat above 60 °C or incinerate.

## ■ About the battery charger

### **CAUTION!**

To reduce the risk of fire, electric shock or product damage,

- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
- Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
- Do not place sources of naked flames, such as lighted candles, on this unit.

- The battery charger is in the standby condition when the AC power supply cord is connected. The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

## ■ Cautions for Use

- Do not use any other USB connection cables except the supplied one.
- Always use a genuine Panasonic AV cable (DMW-AVC1: optional).

In the event of abnormal operation (e.g. if the unit emits smoke or an unusual smell), immediately stop operating the unit and consult the Panasonic Customer Care Centre on 132600.

### **Keep this unit as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).**

- If you use this unit on top of or near a TV, the pictures and/or sound on this unit may be disrupted by electromagnetic wave radiation.
- Do not use this unit near cell phones because doing so may result in noise adversely affecting the pictures and/or sound.
- Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation generated by microprocessors may adversely affect this unit, disturbing the pictures and/or sound.
- If this unit is adversely affected by electromagnetic equipment and stops functioning properly, turn this unit off and remove the battery or disconnect AC adaptor (DMW-AC5G: for shop display purpose only). Then reinsert the battery or reconnect AC adaptor and turn this unit on.

### **Do not use this unit near radio transmitters or high-voltage lines.**

- If you record near radio transmitters or high-voltage lines, the recorded pictures and/or sound may be adversely affected.

**-If you see this symbol-**

**Information on Disposal in other Countries outside the European Union**

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



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- Please note that the actual controls and components, menu items, and other information for your digital camera may differ from those in the illustrations and screens provided in this manual. When operation or other information is more or less the same between models, DMC-FH6 is used as examples for the instructions provided in this manual.
- The operations, procedures, or functions that differ among models are indicated separately, together with the relevant model number.

(Example) **DMC-FH6**

**DMC-S2**

## Before use

### ■ Camera handling







- Keep the camera away from excessive vibration, force, or pressure.
- The camera is not dust resistant, splash resistant, or waterproof. Avoid using the camera in places with excessive dust or sand, or where water can come into contact with the camera.

### ■ Condensation (When the lens or the LCD monitor is fogged up)

- Condensation may occur when the camera is exposed to sudden changes of temperature or humidity. Avoid these conditions, which may make the lens or LCD monitor dirty, cause mould, or damage the camera.
- If condensation does occur, turn off the camera and wait about two hours before using it. Once the camera adjusts to the surrounding temperature, foginess will clear naturally.

## Standard accessories

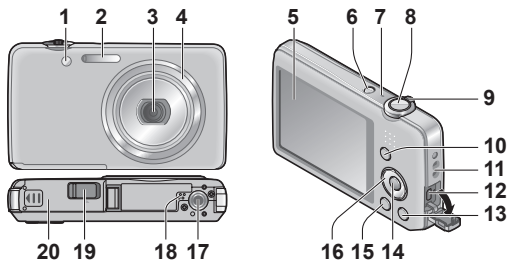
Check that all the accessories are supplied before using the camera. Part numbers are as of January 2012.

<input type="checkbox"/> <b>Battery pack</b> DMW-BCK7E • Charge the battery before use. Battery pack is indicated as battery pack or battery in the text. 	<input type="checkbox"/> <b>Hand strap</b> VFC4297 
<input type="checkbox"/> <b>Battery charger</b> DE-A92A  Battery charger is indicated as battery charger or charger in the text. 	<input type="checkbox"/> <b>USB connection cable</b> K1HY08YY0015 
<input type="checkbox"/> <b>AC Cable</b> K2CJ2YY00052 	<input type="checkbox"/> <b>CD-ROM</b> VFF0911 • Software: Use it to install the software on your PC. • Operating Instructions for advanced features 

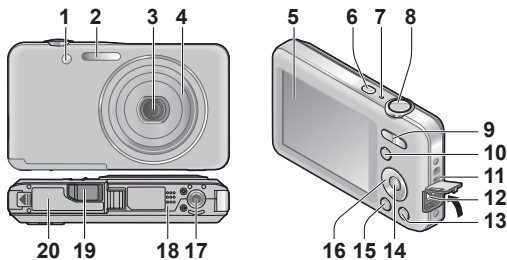
- SD Memory Card, SDHC Memory Card and SDXC Memory Card are indicated as card in the text.
- Memory cards are optional. You can record or play back pictures on the built-in memory when you are not using a card.
- Consult the dealer or your nearest Service Centre if you lose the supplied accessories. (You can purchase the accessories separately.)
- Please dispose of all packaging appropriately.
- Keep small parts in a safe place out of the reach of children.

# Names and Functions of Main Parts

## DMC-FH6

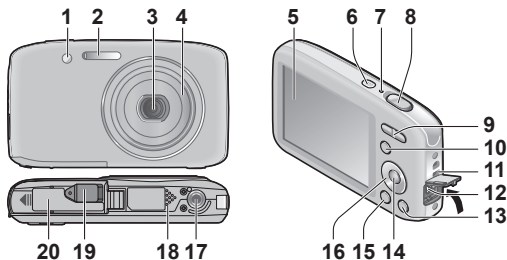


## DMC-FH4





## DMC-S5

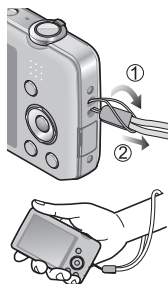
## DMC-S2





- 1 Self-timer indicator/AF Assist Lamp
- 2 Flash
- 3 Lens
- 4 Lens barrel
- 5 LCD monitor
- 6 Power button
- 7 Microphone
- 8 Shutter button
- 9 **DMC-FH6**  
Zoom lever  
**DMC-FH4** **DMC-S5** **DMC-S2**  
Zoom button
- 10 [MODE] button
- 11 Hand strap eyelet
- 12 [AV OUT/DIGITAL] socket
- 13  /  (Delete/Return) button
- 14 [MENU/SET] button
- 15 Playback button
- 16 Cursor button
- 17 Tripod receptacle
- 18 Speaker
- 19 DC coupler cover

We recommend using the supplied hand strap to avoid dropping the camera.



### For shop display purpose only

- When using an AC adaptor, ensure that the Panasonic DC coupler (DMW-DCC10: for shop display purpose only) and AC adaptor (DMW-AC5G: for shop display purpose only) are used.
- Always use a genuine Panasonic AC adaptor (DMW-AC5G: for shop display purpose only).
- When using an AC adaptor, use the AC cable supplied with the AC adaptor.

## 20 Card/Battery door

- The illustrations and screens in this manual may differ from the actual product.
- Do not block the microphone when recording motion pictures.
- Some tripods or unipods, and some methods of holding the camera may block the speaker, making it difficult to hear the beep, etc.

## Charging the battery

### 1 Insert the battery terminals and attach the battery to the charger

Ensure [LUMIX] faces outwards.

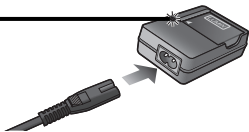


### 2 Connect the charger to the electrical outlet

#### Charging light ([CHARGE])

**On:** Charging in progress  
(approx. 120 min. if fully depleted)

**Off:** Charging complete



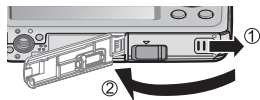
#### ■ About batteries that you can use with this unit

The battery that can be used with this unit is DMW-BCK7E.

- Use the dedicated charger and battery.
- The battery is not charged when the camera is shipped. Charge the battery and set the clock before use.
- Charge the battery with the charger indoors (10 °C to 30 °C).

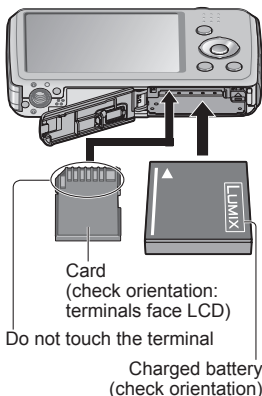
## Inserting and removing the card (optional)/ the battery

- 1 Turn off the power and slide the card/battery door out (①) before opening the door (②) as illustrated



- 2 Insert the battery and card, making sure that their orientation is correct

- Battery: Insert all the way firmly until a locking sound is heard, and check that the lever is hooked over the battery.
- Card: Insert all the way firmly until it clicks.



### ■ To remove

- To remove battery:

Move lever in direction of arrow.

DMC-FH6



DMC-FH4 DMC-S5  
DMC-S2



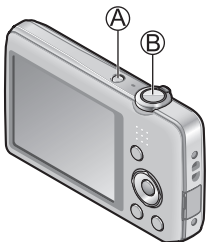
- To remove card:

Press down in centre.



- Always use genuine Panasonic batteries (DMW-BCK7E).
- If you use other batteries, we cannot guarantee the quality of this product.
- Keep the Memory Card out of reach of children to prevent swallowing.

## Sequence of operations



### 1 Press the Power button (A)

The clock is not set when the camera is shipped. Set the date and time before using the camera.




### 2 Press the shutter button (B) and take pictures

- ① Press halfway  
(press lightly to focus)
- ② Press fully  
(press the button all the way to record)



### ■ Selecting the Recording Mode


Press [MODE] button to select the Recording Mode.

-  Taking pictures with automatic settings.
-  Take pictures with your own settings.
- SCN Take pictures according to scene.
-  Take motion pictures.



### ■ Setting the menu

Press [MENU/SET] to display the menu screen to change the recording function, camera settings, and other settings.

### ■ Viewing your pictures

- ① Press the Playback button
- ② Press  to select the picture

### ■ Deleting pictures

- ① Press  button to delete the displayed picture
- ② Press  to select [Yes] and then press [MENU/SET]

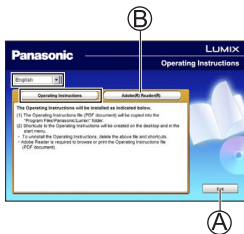
● In this manual, the button that is used is shaded.

## Reading the Operating Instructions (PDF format)

More detailed instructions on the operation of this camera are contained in “Operating Instructions for advanced features (PDF format)” in the supplied CD-ROM. Install it on your PC to read it.

### ■ For Windows

- 1** Turn the PC on and insert the CD-ROM containing the Operating Instructions (supplied)
- 2** Click the “Operating Instructions”
- 3** Select the desired language and then click “Operating Instructions” to install  
Ⓐ To return to the install menu.
- 4** Double click the “Operating Instructions” shortcut icon on the desktop



### ■ When the Operating Instructions (PDF format) will not open

You will need Adobe Acrobat Reader 5.0 or later or Adobe Reader 7.0 or later to browse or print the Operating Instructions (PDF format). Insert the CD-ROM containing the Operating Instructions (supplied), click Ⓑ and then follow the messages on the screen to install.  
Compatible OS: Windows XP SP3 / Windows Vista SP2 / Windows 7

- You can download and install a version of Adobe Reader that you can use with your OS from the following Web Site.  
<http://get.adobe.com/reader/otherversions/>

## Installing supplied software (PHOTOfunSTUDIO)

This software allows you to acquire pictures to the PC, and also categorise these acquired pictures by their recording date or the model name of the camera used.

- Before inserting the CD-ROM, close all running applications.

### 1 Check the environment of your PC

#### Operating environment of PHOTOfunSTUDIO 8.0 LE

OS	Windows XP (32 bit) SP3 Windows Vista (32 bit) SP2 Windows 7 (32 bit/64 bit) and SP1	
CPU	Windows XP	Pentium III 500 MHz or higher
	Windows Vista	800 MHz or higher
	Windows 7	1 GHz or higher
Display	1024 × 768 pixels or more (1920 × 1080 pixels or more recommended)	
RAM	Windows XP	512 MB or more
	Windows Vista	
	Windows 7	1 GB or more (32 bit) 2 GB or more (64 bit)
Free hard disk space	450 MB or more for installing software	

- Refer to the Operating Instructions of “PHOTOfunSTUDIO” (PDF) for further information about the operating environment.

### 2 Insert the CD-ROM with the supplied software

When you insert the supplied CD-ROM, the install menu will start.

### 3 Click on the [Applications] on the install menu

### 4 Click on the [Recommended Installation]

- Proceed with installation according to messages appearing on the screen.
- The software compatible with your PC will be installed.
  - PHOTOfunSTUDIO (Windows XP/Vista/7)
  - LoiLoScope 30 day full trial version (Windows XP/Vista/7)  
(This will only install a shortcut to the trial version download site.)
- PHOTOfunSTUDIO is not compatible with Mac.

# Specifications

## Digital Camera: Information for your safety

<b>Power Source</b>	DC 5.1 V
<b>Power Consumption</b>	<b>When recording:</b> DMC-FH6 DMC-FH4 DMC-S2 1.0 W DMC-S5 1.1 W <b>When playing back:</b> 0.6 W
<b>Camera effective pixels</b>	DMC-FH6 DMC-FH4 DMC-S2 14,100,000 pixels DMC-S5 16,100,000 pixels
<b>Image sensor</b>	DMC-FH6 DMC-FH4 DMC-S2 1/2.33" CCD, total pixel number 14,500,000 pixels Primary colour filter DMC-S5 1/2.33" CCD, total pixel number 16,600,000 pixels Primary colour filter
<b>Lens</b>	DMC-FH6 Optical 5 x zoom f=4.3 mm to 21.5 mm (35 mm film camera equivalent: 24 mm to 120 mm) / F2.5 (Max. W) to F6.4 (Max. T) DMC-FH4 DMC-S5 DMC-S2 Optical 4 x zoom f=5.0 mm to 20.0 mm (35 mm film camera equivalent: 28 mm to 112 mm) / F3.1 (Max. W) to F6.5 (Max. T)
<b>Image Stabiliser</b>	Optical method
<b>Focus range</b>	
Intelligent Auto / Normal / Motion Picture	5 cm (Wide) / 1 m (Tele) to ∞
<b>Scene Mode</b>	There may be difference in above settings.

## Specifications

<b>Shutter system</b>	Electronic shutter + Mechanical shutter
<b>Shutter speed</b>	8 seconds to 1/1600th of a second
<b>Exposure (AE)</b>	AUTO (Programme AE)
<b>Metering Mode</b>	Multi metering
<b>LCD monitor</b>	2.7" TFT LCD (4:3) (Approx. 230,400 dots) (field of view ratio about 100%)
<b>Microphone / Speaker</b>	Monaural
<b>Recording media</b>	Built-in Memory (Approx. 70 MB) / SD Memory Card / SDHC Memory Card / SDXC Memory Card
<b>Recording file format</b>	
<b>Still picture</b>	JPEG (based on Design rule for Camera File system, based on Exif 2.3 standard)
<b>Motion pictures</b>	QuickTime Motion JPEG (motion pictures with audio)
<b>Interface</b>	
<b>Digital</b>	USB 2.0 (High Speed)
<b>Analogue video</b>	NTSC / PAL Composite (Switched by menu)
<b>Audio</b>	Audio line output (Monaural)
<b>Terminal</b>	AV OUT / DIGITAL: Dedicated jack (8 pin)



<b>Dimensions</b>	<b>DMC-FH6</b> Approx. 96.4 mm (W) x 55.5 mm (H) x 19.9 mm (D) (excluding the projection part)
	<b>DMC-FH4</b> Approx. 97.6 mm (W) x 56.2 mm (H) x 20.8 mm (D) (excluding the projection part)
	<b>DMC-S5</b> <b>DMC-S2</b> Approx. 97.9 mm (W) x 56.6 mm (H) x 20.6 mm (D) (excluding the projection part)
<b>Mass</b>	<b>DMC-FH6</b> With card and battery: Approx. 119 g Excluding card and battery: Approx. 103 g
	<b>DMC-FH4</b> With card and battery: Approx. 113 g Excluding card and battery: Approx. 96 g
	<b>DMC-S5</b> <b>DMC-S2</b> With card and battery: Approx. 112 g Excluding card and battery: Approx. 95 g
<b>Operating temperature</b>	0 °C to 40 °C (Operating humidity: 10%RH to 80%RH)

#### Battery charger

(Panasonic DE-A92A): Information for your safety

<b>Input</b>	AC ~ 110 V to 240 V, 50/60 Hz, 0.2 A
<b>Output</b>	DC --- 4.2 V, 0.43 A

#### Battery pack (lithium-ion)

(Panasonic DMW-BCK7E): Information for your safety

<b>Voltage / capacity</b>	3.6 V / 680 mAh
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