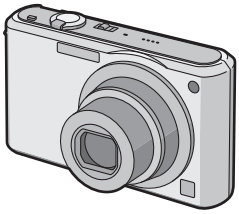
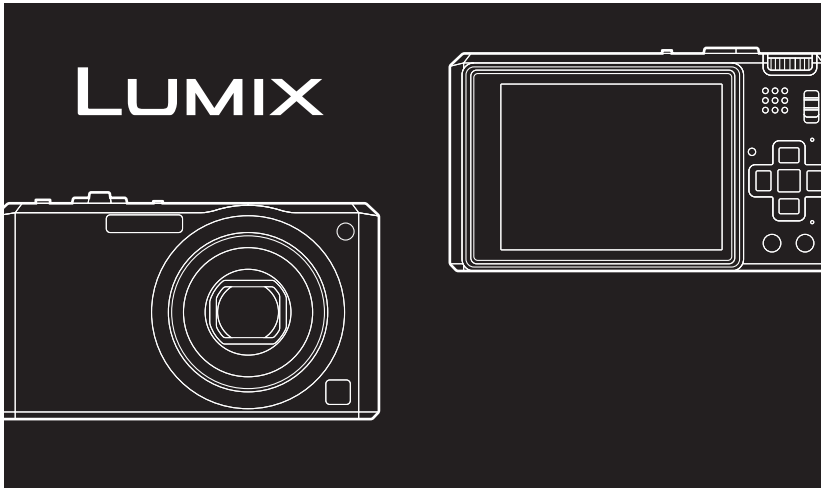
Panasonic



Basic Operating Instructions

Digital Camera

Model No. DMC-FX150/DMC-FX180



Before use, please read these instructions completely.

Please also refer to Operating Instructions (PDF format) recorded on the CD-ROM containing the Operating Instructions (supplied).
You can learn about advanced operation methods and check the Troubleshooting.

SG GC

VQT1T03

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.

Information for Your Safety

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,

- **DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.**
- **USE ONLY THE RECOMMENDED ACCESSORIES.**
- **DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

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.

- **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.**
- SDHC Logo is a trademark.
- Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.
- Other names, company names, and product names printed in these instructions are trademarks or registered trademarks of the companies concerned.

THE SOCKET OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Warning

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

Product Identification Marking is located on the bottom of units.

-If you see this symbol-

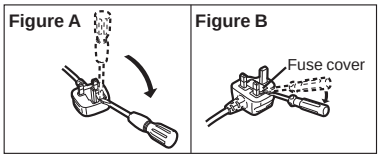
Information on Disposal in other Countries outside the European Union

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.

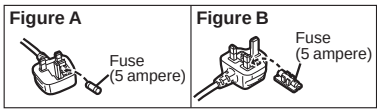
■ How to replace the Fuse

The location of the fuse differ according to the type of AC cable (figures A and B). Confirm the AC cable fitted and follow the instructions below.
Illustrations may differ from actual AC cable.

1 Open the fuse cover with a screwdriver.



2 Replace the fuse and close or attach the fuse cover.



■ About the battery charger

CAUTION!
- **DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.**
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.**
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.**

- 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.

■ About the battery pack

- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

■ Cautions for Use

- Do not use any other AV cables except the supplied one.
- Do not use any other cables except a genuine Panasonic component cable (DMW-HDC2; optional).

Keep the camera as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).

- If you use the camera on top of or near a TV, the pictures and sound on the camera may be disrupted by electromagnetic wave radiation.
- Do not use the camera near cell phones because doing so may result in noise adversely affecting the pictures and 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 the camera, disturbing the pictures and sound.
- If the camera is adversely affected by electromagnetic equipment and stops functioning properly, turn the camera off and remove the battery or disconnect AC adaptor (DMW-AC5G; optional). Then reinsert the battery or reconnect AC adaptor and turn the camera on.

Do not use the camera near radio transmitters or high-voltage lines.

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

■ Care of the camera

- **Do not strongly shake or bump the camera by dropping it etc.**
  This unit may malfunction, recording pictures may no longer be possible or the lens or the LCD monitor may be damaged.
- We strongly recommend you do not leave the camera in your trousers pocket when you sit down or forcefully insert it into a full or tight bag etc.
  Damage to the LCD monitor or personal injury may result.
- **Be particularly careful in the following places as they may cause this unit to malfunction.**
  – Places with a lot of sand or dust.
  – Places where water can come into contact with this unit such as when using it on a rainy day or on a beach.
- **Do not touch the lens or the sockets with dirty hands. Also, be careful not to allow liquids, sand and other foreign matter to get into the space around the lens, buttons etc.**
- **If water or seawater splashes on the camera, use a dry cloth to wipe the camera body carefully.**

■ About Condensation (When the lens is fogged up)

- Condensation occurs when the ambient temperature or humidity changes. Be careful of condensation since it causes lens stains, fungus and camera malfunction.
- If condensation occurs, turn the camera off and leave it for about 2 hours. The fog will disappear naturally when the temperature of the camera becomes close to the ambient temperature.

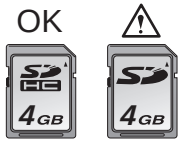
■ **About cards that can be used in this unit**

You can use an SD Memory Card, an SDHC Memory Card and a MultiMediaCard.

- When the term **card** is used in these operating instructions this refers to the following types of Memory Cards.
  - – SD Memory Card (8 MB to 2 GB)
  - – SDHC Memory Card (4 GB, 8 GB, 16 GB, 32 GB)
  - – MultiMediaCard (still pictures only)

More specific information about memory cards that can be used with this unit.

- You can only use an SDHC Memory Card if using cards with 4 GB or more capacity.
- A 4 GB (or more) Memory Card without an SDHC logo is not based on the SD Standard and will not work in this product.



Please confirm the latest information on the following website.

http://panasonic.co.jp/pavc/global/cs

(This Site is English only.)

- Keep the Memory Card out of reach of children to prevent swallowing.

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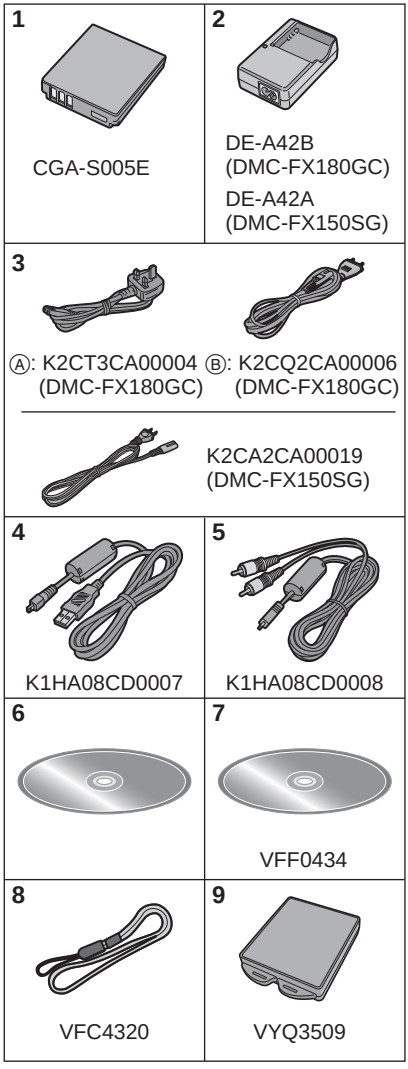
Standard Accessories

Check that all the accessories are included before using the camera.

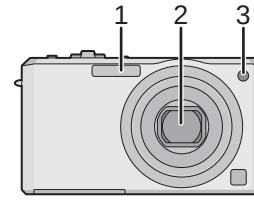
1 Battery Pack
(Indicated as **battery** in the text)
Charge the battery before use.
2 Battery Charger
(Indicated as **charger** in the text)
3 AC Cable
Ⓐ: Hong Kong Special Administrative Region of China and Saudi Arabia
Ⓑ: Areas Other than Hong Kong Special Administrative Region of China and Saudi Arabia
4 USB Connection Cable
5 AV Cable
6 CD-ROM
• Software:
Use it to install the software to your PC.
7 CD-ROM
• Operating Instructions
8 Strap
9 Battery Carrying Case

- SD Memory Card, SDHC Memory Card and MultiMediaCard are indicated as **card** in the text.
- **The card is 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.)

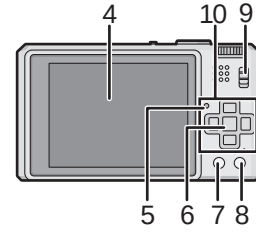


Names of the Components

1 Flash
2 Lens
3 Self-timer indicator
AF assist lamp

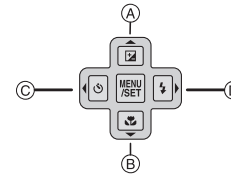


4 LCD monitor
5 Status indicator
6 [MENU/SET] button
7 [DISPLAY] button
8 [Q.MENU]/Delete button
9 [REC]/[PLAYBACK] selector switch

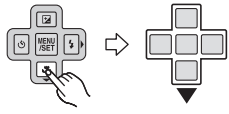


10 Cursor buttons

Ⓐ: ▲/Exposure compensation/Flash output adjustment/Auto bracket/ Colour bracket
Ⓑ: ▼/Macro mode
AF Tracking
Ⓒ: ◀/Self-timer button
Ⓓ: ▶/Flash setting button/White balance fine adjustment

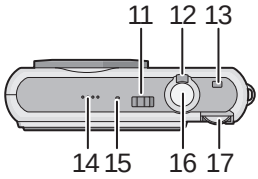


In these operating instructions, the cursor buttons are described as shown in the figure below or described with ▲/▼/◀/▶.
e.g.: When you press the ▼ (down) button



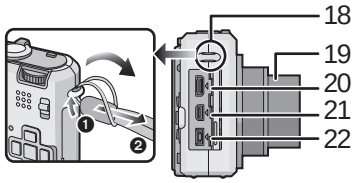
or **Press ▼**

11 Camera ON/OFF switch
12 Zoom lever
13 [E.ZOOM] button
14 Speaker
15 Microphone
16 Shutter button
17 Mode dial



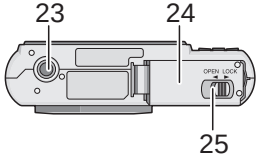
18 Strap eyelet
- Be sure to attach the strap when using the camera to ensure that you will not drop it.

19 Lens barrel
20 [COMPONENT OUT] socket
21 [AV OUT/DIGITAL] socket
22 [DC IN] socket
- Always use a genuine Panasonic AC adaptor (DMW-AC5G; optional).
- This camera cannot charge the battery even when the AC adaptor (DMW-AC5G; optional) is connected to it.
- The optional AC adaptor may not be available in some countries.



23 Tripod receptacle
- When you use a tripod, make sure the tripod is stable when the camera is attached to it.

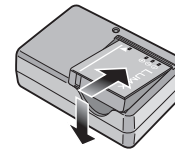
24 Card/Battery door
25 Release lever



Charging the Battery

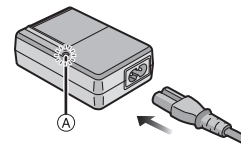
- **Use the dedicated charger and battery.**
- **The battery is not charged when the camera is shipped. Charge the battery before use.**
- Charge the battery with the charger indoors.
- Charge the battery in a temperature between 10 °C to 35 °C. (The battery temperature should also be the same.)

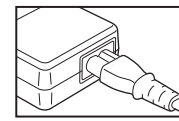
1 Attach the battery with attention to the direction of the battery.



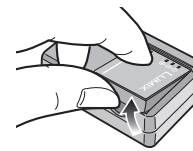
2 Connect the AC cable.

- The AC cable does not fit entirely into the AC input terminal. A gap will remain as shown below.
- Charging starts when the [CHARGE] indicator Ⓐ lights green.
- Charging is complete when the [CHARGE] indicator Ⓐ turns off (after approx. 130 min maximum).





3 Detach the battery after charging is completed.



Note

- After charging is completed, be sure to disconnect the power supply device from the electrical outlet.
- The battery becomes warm after using it and during and after charging. The camera also becomes warm during use. This is not a malfunction.
- The battery will be exhausted if left for a long period of time after being charged.
- The battery can be recharged even when it still has some charge left, but it is not recommended that the battery charge be frequently topped up while the battery is fully charged. (The battery has characteristics that will reduce its operating duration and cause the battery to swell up.)
- When the operating time of the camera becomes extremely short even after properly charging the battery, the life of the battery may have expired. Buy a new battery.
- **Do not leave any metal items (such as clips) near the contact areas of the power plug. Otherwise, a fire and/or electric shocks may be caused by short-circuiting or the resulting heat generated.**

About the Battery (charging/number of recordable pictures)

■ **The battery life**

Number of recordable pictures	**Approx. 330 pictures**	By CIPA standard in programme AE mode
Recording time	**Approx. 165 min**	

Recording conditions by CIPA standard

- CIPA is an abbreviation of [Camera & Imaging Products Association].
- Temperature: 23 °C/Humidity: 50% when LCD monitor is on.*
- Using a Panasonic SD Memory Card (32 MB).
- Using the supplied battery.
- Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [AUTO].)
- **Recording once every 30 seconds** with full flash every second recording.
- Rotating the zoom lever from Tele to Wide or vice versa in every recording.
- Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases.

* The number of recordable pictures decreases in Auto Power LCD mode and Power LCD mode.

The number of recordable pictures varies depending on the recording interval time. If the recording interval time becomes longer, the number of recordable pictures decreases. [e.g. When recording once every 2 minutes, the number of recordable pictures decreases to about 82.]

Playback time	**Approx. 450 min**

The number of recordable pictures and playback time will vary depending on the operating conditions and storing condition of the battery.

■ **Charging**

Charging time	**Approx. 130 min maximum**

Charging time and **number of recordable pictures** with the optional battery pack (CGA-S005E) are the same as above.
The charging time will vary slightly depending on the status of the battery and the conditions in the charging environment.
When the charging has been completed successfully, the [CHARGE] indicator turns off.

Note

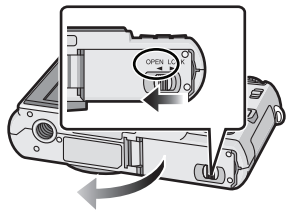
- The battery may swell and its operating time may become shorter as the number of times it is charged increases. For long term battery use, we recommend you do not frequently charge the battery before it is exhausted.
- The performance of the battery may temporarily deteriorate and the operating time may become shorter in low temperature conditions (e.g. skiing/snowboarding).

Inserting and Removing the Card (optional)/the Battery

- Check that this unit is turned off.
- We recommend using a Panasonic card.

1 **Slide the release lever in the direction of the arrow and open the card/battery door.**

- **Always use genuine Panasonic batteries (CGA-S005E).**
- **If you use other batteries, we cannot guarantee the quality of this product.**

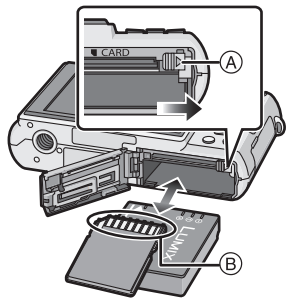


2 **Battery: Insert it fully being careful about the direction you insert it. Pull the lever Ⓐ in the direction of the arrow to remove the battery.**

Card: Push it fully until it clicks being careful about the direction you insert it. To remove the card, push the card until it clicks, then pull the card out upright.

Ⓑ: Do not touch the connection terminals of the card.

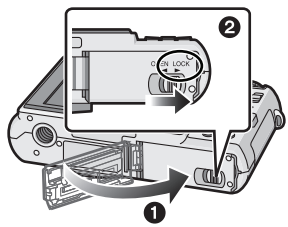
- The card may be damaged if it is not fully inserted.



3 **❶:Close the card/battery door.**

❷:Slide the release lever in the direction of the arrow.

- If the card/battery door cannot be completely closed, remove the card, check its direction and then insert it again.



Note

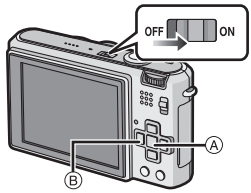
- Remove the battery after use. Store the removed battery in the battery carrying case (supplied).
- Do not remove the battery until the LCD monitor and the status indicator (green) turn off as the settings on the camera may not be stored properly.
- The supplied battery is designed only for the camera. Do not use it with any other equipment.
- Before removing the card or battery, turn the camera off, and wait until the status indicator has gone off completely. (Otherwise, this unit may no longer operate normally and the card itself may be damaged or the recorded pictures may be lost.)

Setting Date/Time (Clock Set)

• The clock is not set when the camera is shipped.

1 Turn the camera on.

Ⓐ [MENU/SET] button
Ⓑ Cursor buttons



2 Press [MENU/SET].

3 Press ▲/▼ to select the language, and press [MENU/SET].

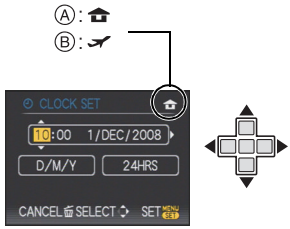
- The [PLEASE SET THE CLOCK] message appears. (This message does not appear in [PLAYBACK] mode.)

4 Press [MENU/SET].

5 Press ◄/► to select the items (year, month, day, hour, minute, display sequence or time display format), and press ▲/▼ to set.

Ⓐ: Time at the home area
Ⓑ: Time at the travel destination
🗑: Cancel without setting the clock.

- Select either [24HRS] or [AM/PM] for the time display format.
- AM/PM is displayed when [AM/PM] is selected.



6 Press [MENU/SET] to set.

- After completing the clock settings, turn the camera off. Then turn the camera back on, switch to recording mode, and check that the display reflects the settings that were performed.
- When [MENU/SET] has been pressed to complete the settings without the clock having been set, set the clock correctly by following the “Changing the clock setting” procedure below.

Changing the clock setting

Select [CLOCK SET] in the [REC] or [SETUP] menu, and press ►.

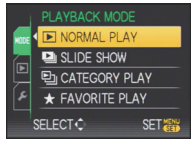
- It can be changed in steps **5** and **6** to set the clock.
- **The clock setting is maintained for 3 months using the built-in clock battery even without the battery. (Leave the charged battery in the unit for 24 hours to charge the built-in battery.)**

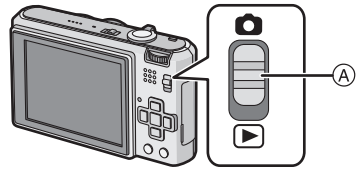
Setting the Menu

The camera comes with menus that allow you to set the settings for taking pictures and playing them back just as you like and menus that enable you to have more fun with the camera and use it more easily.
In particular, the [SETUP] menu contains some important settings relating to the camera's clock and power. Check the settings of this menu before proceeding to use the camera.

[MODE] playback mode menu

- This menu lets you select the setting of the playback methods such as playback or slide show of only the pictures set as [FAVORITE].





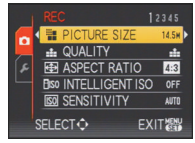
Ⓐ [REC]/[PLAYBACK] selector switch

[PLAYBACK] mode menu

- This menu lets you make the rotation, protection, trimming or DPOF settings, etc. of recorded pictures.

[REC] mode menu

- This menu lets you set the colouring, sensitivity, aspect ratio, number of pixels and other aspects of the pictures you are recording.



[SETUP] menu

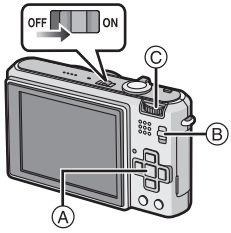
- This menu lets you perform the clock settings, select the operating beep tone settings and set other settings which make it easier for you to operate the camera.
- The [SETUP] menu can be set from either the [REC MODE] or [PLAYBACK MODE].

Setting menu items

This section describes how to select the programme AE mode settings, and the same setting can be used for the [PLAYBACK] menu and [SETUP] menu as well.
Example: Setting [AF MODE] from [▪] to [👥] in the programme AE mode

1 Turn the camera on.

Ⓐ [MENU/SET] button
Ⓑ [REC]/[PLAYBACK] selector switch
Ⓒ Mode dial



2 Slide the [REC]/[PLAYBACK] selector switch to [📷].

- When selecting the [PLAYBACK] mode menu settings, set the [REC]/[PLAYBACK] selector switch to [▶], and proceed to step **4**.

3 Set the mode dial to [P].

4 Press [MENU/SET] to display the menu.

- You can switch menu screens from any menu item by rotating the zoom lever.

MENU /SET

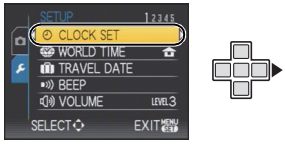
Switching to the [SETUP] menu

1 Press ◄.

2 Press ▼ to select the [SETUP] menu icon [🔧].

3 Press ►.

- Select a menu item next and set it.

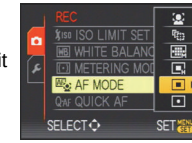


5 **Press ▲/▼ to select [AF MODE].**

- Select the item at the very bottom, and press ▼ to move to the second screen.

6 **Press ►.**

- Depending on the item, its setting may not appear or it may be displayed in a different way.



7 **Press ▲/▼ to select [👤].**

8 **Press [MENU/SET] to set.**

9 **Press [MENU/SET] to close the menu.**

Using the quick menu

By using the quick menu, some of the menu settings can be easily found.

- Some of the menu items cannot be set by the modes.
- Advanced settings for the following items can be performed by pressing [DISPLAY]. [DISPLAY] is displayed on the screen.
  - [WHITE BALANCE]/[AF MODE]

1 **Press and hold [Q.MENU] when recording.**

2 **Press ▲/▼/◄/► to select the menu item and the setting and then press [MENU/SET] to close the menu.**

Ⓐ The items to be set and the settings are displayed.

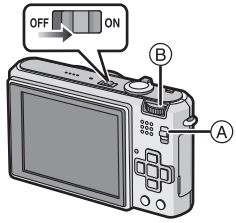
Mode switching

Selecting the [REC] Mode

When the [REC] mode is selected, the camera can be set to the Intelligent auto mode in which the optimal settings are established in line with the subject to be recorded and the recording conditions, or to the scene mode which enables you to take pictures that match the scene being recorded.

1 **Turn the camera on.**

Ⓐ [REC]/[PLAYBACK] selector switch
Ⓑ Mode dial

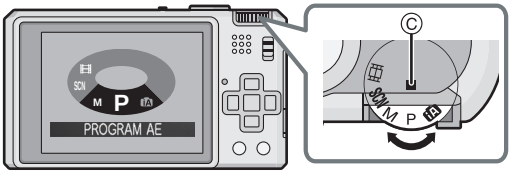


2 **Slide the [REC]/[PLAYBACK] selector switch to [📷].**

3 **Switching the mode by rotating the mode dial.**

Align a desired mode with part Ⓒ.

- **Rotate the mode dial slowly and surely to adjust to each mode. (The part where there is no mode will not turn.)**



■ **List of [REC] modes**

iA Intelligent auto mode

The subjects are recorded using settings automatically selected by the camera.

P Program AE mode

The subjects are recorded using your own settings.

M Manual exposure mode

The subjects are recorded with set aperture and shutter speed.

SCN Scene mode

This allows you to take pictures that match the scene being recorded.

Motion picture mode

This mode allows you to record motion pictures with audio.

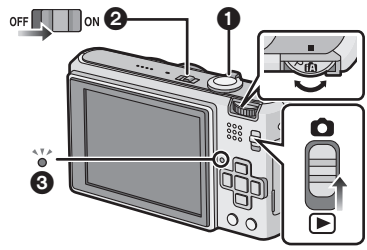
[REC] mode: iA

Taking pictures using the automatic function

(iA: Intelligent Auto Mode)

The camera will set the most appropriate settings to match the subject and the recording conditions so we recommend this mode for beginners or those who want to leave the settings to the camera and take pictures easily.

- The following functions are activated automatically.
  - Scene detection/[STABILIZER]/[INTELLIGENT ISO]/Face detection/[QUICK AF]/[I.EXPOSURE]/Digital Red-eye Correction/Backlight Compensation
- The status indicator ❸ lights when you turn this unit on ❷. (It turns off after about 1 second.)
  (❶: Shutter button)

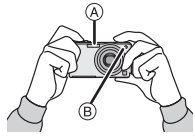


1 Slide the [REC]/[PLAYBACK] selector switch to [📷].

2 Set the mode dial to [iA].

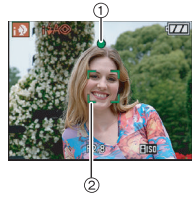
3 Hold this unit gently with both hands, keep your arms still at your side and stand with your feet slightly apart.

Ⓐ Flash
Ⓑ AF assist lamp



4 Press the shutter button halfway to focus.

- The focus indication ① (green) lights when the subject is focused.
- The AF area ② is displayed around the subject's face by the face detection function. In other cases, it is displayed at the point on the subject which is in focus.
- The focus range is 5 cm (Wide)/30 cm (Tele) to ∞.



5 Press the shutter button fully (push it in further), and take the picture.

- The access indication lights red when pictures are being recorded on the built-in memory (or the card).

Scene detection

When the camera identifies the optimum scene, the icon of the scene concerned is displayed in blue for 2 seconds, after which its colour changes to the usual red.

iA →	[i-PORTRAIT]	
	[i-SCENERY]	
	[i-MACRO]	
	[i-NIGHT PORTRAIT]	• Only when [ϟA] is selected
	[i-NIGHT SCENERY]	• Only when [⊘] is selected

- [iA] is set if none of the scenes are applicable, and the standard settings are set.
- If a tripod is used, for instance, and the camera has judged that camera shake is minimal when the scene mode has been identified as [i-NIGHT SCENERY], the shutter speed will be set to a maximum of 8 seconds.Take care not to move the camera while taking pictures.
- An optimum scene for the specified subject will be chosen when set to AF tracking.

■ Face detection

When [i-PORTRAIT] or [i-NIGHT PORTRAIT] is selected, the camera automatically detects a person's face, and it will adjust the focus and exposure.

Note

- Due to conditions such as the ones below, a different scene may be identified for the same subject.
  - Subject conditions: When the face is bright or dark, The size of the subject, The distance to the subject, The contrast of the subject, When the subject is moving, When zoom is used
  - Recording conditions: Sunset, Sunrise, Under low brightness conditions, When the camera is shaken
- To take pictures in an intended scene, it is recommended that you take pictures in the appropriate recording mode.

■ The Backlight Compensation

Backlight refers to when light comes from the back of a subject.
In this case, the subject will become dark, so this function compensates the backlight by brightening the whole of the picture automatically.

AF Tracking Function

It is possible to set the focus to the specified subject. Focus will keep following the subject automatically even if it moves.

- Set the [AF TRACKING] in the [REC] mode menu to [ON].
  ([⊡] is displayed on the screen.)

Bring the subject to the AF tracking frame, and press ▼ to lock the subject.

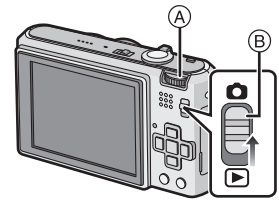
- AF tracking frame will turn yellow.
- An optimum scene for the specified subject will be chosen.
- Press ▼ again to release.

[REC] mode: P

Taking pictures with your favourite settings

(P: Program AE mode)

Many more menu items can be set and you can take pictures with greater freedom than when you take pictures in the Intelligent auto mode.



1 Slide the [REC]/[PLAYBACK] selector switch to [📷].

Ⓐ Mode dial
Ⓑ [REC]/[PLAYBACK] selector switch

2 Set the mode dial to [P].

3 Aim the AF area at the point you want to focus on.

4 Press the shutter button halfway to focus.

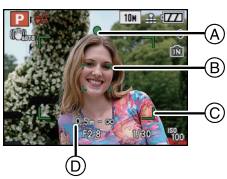
- The focus indication (green) lights when the subject is focused.
- The focus range is 50 cm to ∞.

5 Press the halfway pressed shutter button fully to take a picture.

- The access indication lights red when pictures are being recorded on the built-in memory (or the card).

Focusing

Aim the AF area at the subject, and then press the shutter button halfway.



Focus	When the subject is focused	When the subject is not focused
Focus indication	On	Blinks
AF area	White→Green	White→Red
Sound	Beeps 2 times	Beeps 4 times

Ⓐ Focus indication
Ⓑ AF area (normal)
Ⓒ AF area (when using the digital zoom or when it is dark)
Ⓓ Focus range

[REC] mode: iA P M SCN

Taking Pictures with the Zoom

Using the Optical Zoom/Using the Extra Optical Zoom (EZ)/Using the Digital Zoom

You can zoom-in to make people and objects appear closer or zoom-out to record landscapes in wide angle. To make subjects appear even closer [maximum of 7.7×], do not set the picture size to the highest setting for each aspect ratio (4:3/3:2/16:9).
Even higher levels of magnification are possible when [DIGITAL ZOOM] is set to [ON] in [REC] menu.

To make subjects appear closer use (Tele)

Rotate the zoom lever towards Tele.

To make subjects appear further away use (Wide)

Rotate the zoom lever towards Wide.

■ **Types of zooms**

Feature	Optical zoom	Extra optical zoom (EZ)	Digital zoom
Maximum magnification	3.6×	7.7×＊	14.3× [including optical zoom 3.6×] 30.8× [including extra optical zoom 7.7×]
Picture quality	No deterioration	No deterioration	The higher the magnification level, the greater the deterioration.
Conditions	None	[PICTURE SIZE] with EZ is selected.	[DIGITAL ZOOM] on the [REC] menu is set to [ON].
Screen display		 Ⓐ [EZ] is displayed.	 Ⓑ The digital zoom range is displayed. The AF area becomes larger when the shutter button is pressed halfway in the digital zoom range.

＊ The magnification level differs depending on [PICTURE SIZE] and [ASPECT RATIO] setting.

[REC] mode: iA P M SCN

Taking Pictures using the Built-in Flash

Switching to the appropriate flash setting

Set the flash to match the recording.

1 **Press ► [⚡].**

2 **Press ▲/▼ to select a mode.**

- You can also press ► [⚡] to select.

3 **Press [MENU/SET].**

- You can also press the shutter button halfway to finish.
- The menu screen disappears after about 5 seconds. At this time, the selected item is automatically set.

[REC] mode: iA P M SCN

Taking Pictures with the Self-timer

1 **Press ◄ [⏲].**

2 **Press ▲/▼ to select a mode.**

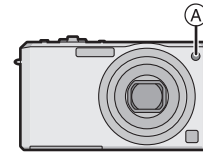
- You can also press ◄ [⏲] to select.

3 **Press [MENU/SET].**

- You can also press the shutter button halfway to finish.
- The menu screen disappears after about 5 seconds. At this time, the selected item is automatically set.

4 **Press the shutter button halfway to focus and then press it fully to take the picture.**

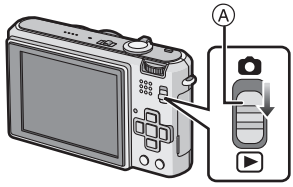
- The self-timer indicator Ⓐ blinks and the shutter is activated after 10 seconds (or 2 seconds).
- If you press [MENU/SET] while the self-timer is set, the self-timer setting is cancelled.



[PLAYBACK] mode:

Playing back Pictures ([NORMAL PLAY])

1 Slide the [REC]/[PLAYBACK] selector switch Ⓐ to [▶].



- Normal playback is set automatically in the following cases.
  – When the mode was switched from the [REC] to [PLAYBACK].

2 Press ◄/► to select the picture.

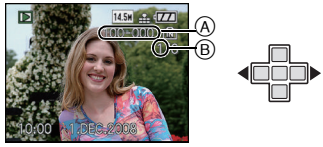
◄: Play back the previous picture

►: Play back the next picture

- Speed of picture forwarding/rewinding changes depending on the playback status.

■ Fast forwarding/Fast rewinding

Press and hold ◄/► during playback.



◄: Fast rewind

►: Fast forward

- The file number Ⓐ and the picture number Ⓑ only change one by one. Release ◄/► when the number of the desired picture appears to play back the picture.
- If you keep pressing ◄/►, the number of pictures forwarded/rewound increases.

[PLAYBACK] mode:

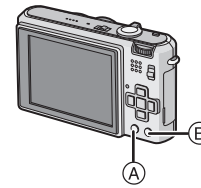
Deleting Pictures

Once deleted, pictures cannot be recovered.
• Pictures on the built-in memory or the card, which is being played back will be deleted.

To delete a single picture

1 **Select the picture to be deleted, and then press [🗑].**

Ⓐ [DISPLAY] button
Ⓑ [🗑] button



2 **Press ◄ to select [YES] and then press [MENU/SET].**

To delete multiple pictures (up to 50) or all the pictures

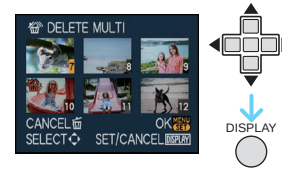
1 **Press [🗑].**

2 **Press ▲/▼ to select [DELETE MULTI] or [DELETE ALL] and then press [MENU/SET].**

• [DELETE ALL] → step **5**.

3 **Press ▲/▼/◄/► to select the picture, and then press [DISPLAY] to set.** (Repeat this step.)

• [🗑] appears on the selected pictures. If [DISPLAY] is pressed again, the setting is cancelled.



4 **Press [MENU/SET].**

5 **Press ▲ to select [YES] and then press [MENU/SET] to set.**

Connecting to a PC

You can acquire recorded pictures to a PC by connecting the camera and the PC.

- You can easily print out or mail the pictures you have imported. Use of the "PHOTOfunSTUDIO-viewer-" bundled software on the CD-ROM (supplied) is a convenient way of doing this.
- Read the separate operating instructions for the supplied software for more information about the software in the CD-ROM (supplied) and how to install it.

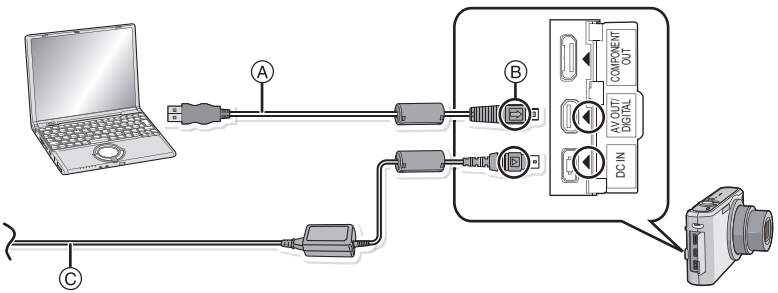
Preparations:

Turn on the camera and the PC.

Remove the card before using the pictures in the built-in memory.

1 Connect the camera to a PC via the USB connection cable Ⓐ (supplied).

- Do not use any other USB connection cables except the supplied one. Use of cables other than the supplied USB connection cable may cause malfunction.



Ⓐ USB connection cable (supplied)

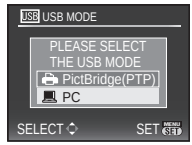
- Check the directions of the connectors, and plug them straight in or unplug them straight out. (Otherwise the connectors may be bent out of shape which will cause trouble.)

Ⓑ Align the marks, and insert.

Ⓒ AC adaptor (DMW-AC5G; optional)

- Use a battery with sufficient battery power or the AC adaptor (DMW-AC5G; optional). If the remaining battery power becomes low while the camera and the PC are communicating, the status indicator blinks and the alarm beeps.
  Refer to "Disconnecting the USB connection cable safely" before disconnecting the USB connection cable. Otherwise, data may be destroyed.

2 Press ▲/▼ to select [PC], and then press [MENU/SET].



- If [USB MODE] is set to [PC] in the [SETUP] menu in advance, the camera will be automatically connected to the PC without displaying the [USB MODE] selection screen. Since there is no need to set this each time you connect to the PC, it is convenient.
- When the camera has been connected to the PC with [USB MODE] set to [PictBridge(PTP)], a message may appear on the PC's screen. Select [Cancel] to close the screen, and disconnect the camera from the PC. Then set [USB MODE] to [PC] again.

3 Double-click on [Removable Disk] in [My Computer].

- When using a Macintosh, the drive is displayed on the desktop. ("LUMIX", "NO_NAME" or "Untitled" is displayed.)

4 Double-click [DCIM] folder.

5 Using a drag-and-drop operation, move the pictures you want to acquire or the folder storing those pictures to any different folder on the PC.

■ Disconnecting the USB connection cable safely

- Proceed with the hardware removal using "Safely Remove Hardware" on the task tray of the PC. If the icon is not displayed, check that [ACCESS] is not displayed on the LCD monitor of the digital camera before removing the hardware.

Reading the Operating Instructions (PDF format)

- You have practised the basic operations introduced in these operating instructions and want to progress to advanced operations.
- You want to check the Troubleshooting.

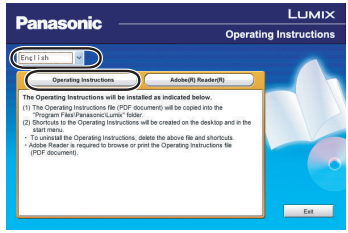
In these kinds of situations refer to Operating Instructions (PDF format) recorded on the CD-ROM containing the Operating Instructions (supplied).

■ **For Windows**

1 **Turn the PC on and insert the CD-ROM containing the Operating Instructions (supplied).**

2 **Select the desired language and then click [Operating Instructions] to install.**

(Example: When an English language OS)



3 **Double click the "FX150_FX180 Operating Instructions" shortcut icon on the desktop.**

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

You will need Adobe Acrobat Reader 4.0 or later to browse or print the Operating Instructions (PDF format).
Download and install a version of Adobe Reader that you can use with your OS from the following Web Site.
http://www.adobe.com/products/acrobat/readstep2_allversions.html

■ **To uninstall the Operating Instructions (PDF format)**

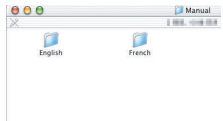
Delete the PDF file from the "Program Files\Panasonic\Lumix\" folder.

- When the contents in the Program Files folder cannot be displayed, click the [Show the contents of this folder] to display them.

■ **For Macintosh**

1 **Turn the PC on and insert the CD-ROM containing the Operating Instructions (supplied).**

2 **Open the "Manual" folder in "VFF0434" and then copy the PDF file with the desired language inside the folder.**



3 **Double click the PDF file to open it.**

Specifications

Digital Camera: Information for your safety

Power Source:	DC 5.1 V
Power Consumption:	1.6 W (When recording) 0.6 W (When playing back)

Camera effective pixels:	14,700,000 pixels
Image sensor:	1/1.72″ CCD, total pixel number 15,000,000 pixels, Primary colour filter
Lens:	Optical 3.6× zoom, f=6.0 mm to 21.4 mm (35 mm film camera equivalent: 28 mm to 100 mm)/F2.8 to F5.6
Digital zoom:	Max. 4×
Extra optical zoom:	Max. 7.7×
Focus:	Normal/Macro/Face detection/AF Tracking/Multi-area-focusing/ 1-area-focusing (High speed)/1-area-focusing/Spot-focusing
Focus range:	Normal: 50 cm to ∞ Macro/Intelligent auto: 5 cm (Wide)/30 cm (Tele) to ∞ Scene mode: There may be differences in the above settings.
Shutter system:	Electronic shutter+Mechanical shutter
Motion picture recording:	1280×720 pixels (24 frames/second, only when using a Card)/ 848×480 pixels (30 frames/second, only when using a Card)/ 640×480 pixels (30 frames/second, only when using a Card)/ 320×240 pixels (30 frames/second, 10 frame/second) With audio
Burst recording	
Burst speed:	2 pictures/second (Normal), Approx. 1.5 pictures/second (Unlimited)
Number of recordable pictures:	Max. 8 pictures (Standard), max. 4 pictures (Fine), Depends on the remaining capacity of the built-in memory or the card (Unlimited). (Performance in burst recording is only with SD Memory Card/ SDHC Memory Card. MultiMediaCard performance will be less.)
Hi-speed burst	
Burst speed:	Approx. 7 pictures/second (Speed priority) Approx. 5 pictures/second (Image priority) (3M (4:3), 2.5M (3:2) or 2M (16:9) is selected as the picture size.)
Number of recordable pictures:	Approx. 30 to 100 (Speed priority) Approx. 35 to 100 (Image priority)
ISO sensitivity:	AUTO/100/200/400/800/1600 [HIGH SENS.] mode: 1600 to 6400

Shutter speed:	60 seconds to 1/2000th of a second [STARRY SKY] mode: 15 seconds, 30 seconds, 60 seconds
White balance:	Auto white balance/Daylight/Cloudy/Shade/Incandescent lights/ White set 1/White set 2/Colour temperature setting
Exposure (AE):	Programme AE (P), Manual exposure (M) Exposure compensation (1/3 EV Step, −2 EV to +2 EV)
Metering mode:	Multiple/Centre weighted/Spot
LCD monitor:	2.7″ TFT LCD (Approx. 230,000 dots) (field of view ratio about 100%)
Flash:	Flash range: [ISO AUTO] Approx. 60 cm to 5.9 m (Wide) AUTO, AUTO/Red-eye reduction, Forced flash ON (Forced ON/ Red-eye reduction), Slow sync./Red-eye reduction, Forced flash OFF
Microphone:	Monaural
Speaker:	Monaural
Recording media:	Built-in Memory (Approx. 50 MB)/SD Memory Card/SDHC Memory Card/MultiMediaCard (Still pictures only)
Picture size	
Still picture:	When the aspect ratio setting is [4:3] 4416×3312 pixels, 3648×2736 pixels, 3072×2304 pixels, 2560×1920 pixels, 2048×1536 pixels, 1600×1200 pixels, 640×480 pixels When the aspect ratio setting is [3:2] 4416×2944 pixels, 3648×2432 pixels, 3072×2048 pixels, 2560×1712 pixels, 2048×1360 pixels When the aspect ratio setting is [16:9] 4416×2480 pixels, 3648×2056 pixels, 3072×1728 pixels, 2560×1440 pixels, 1920×1080 pixels
Motion pictures:	1280×720 pixels (Only when using a Card)/ 848×480 pixels (Only when using a Card)/ 640×480 pixels (Only when using a Card)/ 320×240 pixels
Quality:	Fine/Standard/RAW/RAW+JPEG
Recording file format	
Still Picture:	RAW/JPEG (based on “Design rule for Camera File system”, based on “Exif 2.21” standard)/DPOF corresponding
Pictures with audio:	JPEG (based on “Design rule for Camera File system”, based on “Exif 2.21” standard)+“QuickTime” (pictures with audio)
Motion pictures:	“QuickTime Motion JPEG” (motion pictures with audio)
Interface	
Digital:	“USB 2.0” (High Speed)
Analogue video/ audio:	NTSC/PAL Composite (Switched by menu), Component Audio line output (monaural)
Terminal	
[COMPONENT OUT]:	Dedicated jack (10 pin)
[AV OUT/DIGITAL]:	Dedicated jack (8 pin)
[DC IN]:	Dedicated jack (2 pin)

Dimensions:	Approx. 96.7 mm (W)×54.0 mm (H)×24.8 mm (D) (excluding the projecting parts)
Mass:	Approx. 151 g (excluding card and battery) Approx. 179 g (with card and battery)
Operating temperature:	0 °C to 40 °C
Operating humidity:	10% to 80%

Battery Charger (Panasonic DE-A42B) (DMC-FX180GC)
(Panasonic DE-A42A) (DMC-FX150SG):

Information for your safety

Input:	110 V to 240 V～50/60 Hz, 0.2 A
Output:	CHARGE 4.2 V⎓0.8 A

Battery Pack (lithium-ion) (Panasonic CGA-S005E):

Information for your safety

Voltage:	3.7 V

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