Panasonic



Basic Operating Instructions Digital Camera

Model No. DMC-SZ10

Please read these instructions carefully before using this product, and save this manual for future use.

Web Site: http://www.panasonic.com



F0115HH3087

Panasonic Corporation Web Site: http://panasonic.net

© Panasonic Corporation 2015

Model number suffix "EB" denotes UK model



Panasonic Corporation Manufactured by: Kadoma, Osaka, Japar

Importer for Europe: Panasonic Marketing Europe GmbH Panasonic Testing Centre

Winsbergring 15, 22525 Hamburg, Germany

More detailed operating instructions are available in "Operating Instructions for advanced features (PDF format)". To read it. download it from the website.

http://panasonic.jp/support/dsc/oi/index.html?model= DMC-SZ10&dest=EB

You will need Adobe Reader to browse or print the Operating Instructions (PDF format). You can download and install a version of Adobe Reader that

you can use with your OS from the following website. (As of January 2015) http://www.adobe.com/products/acrobat/readstep2.html

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.

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

■ Product identification marking

Product	Location
Digital Camera	Bottom

■ About the AC adaptor (supplied)

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.

• The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

Declaration of Conformity (DoC)

2014/53/EU.

Hereby, "Panasonic Corporation" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive

Customers can download a copy of the original DoC to our RE products from our DoC server:

http://www.doc.panasonic.de

Contact to Authorized Representative:

Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Nireless transmitter:

Frequency range used: 2412 MHz to 2462 MHz (Central frequency) Max. output power: 13 dBm (EIRP)

■ About the battery pack

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the type mmended by the manufacture

· When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal

• Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.

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

Cautions for Use

- Do not use any other USB connection cables except the supplied one or a genuine Panasonic USB connection cable (DMW-USBC1: optional).
- Do not use any other AC adaptors except the supplied one.
- Always use a genuine Panasonic AV cable (DMW-AVC1: optional).
- Always use genuine Panasonic batteries (DMW-BCL7E). • 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.

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 may adversely affect this unit, disturbing the pictures and/or
- 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. 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.
- Before cleaning the camera, remove the battery or disconnect the power plug from the
- Do not press the monitor with excessive force.
- Do not spray the camera with insecticides or volatile chemicals
- Do not keep rubber or plastic products in contact with the camera for a long period of
- Do not use solvents such as benzine, thinner, alcohol, kitchen detergents, etc., to clean the camera, since it may deteriorate the external case or the coating may peel
- Do not leave the camera with the lens facing the sun, as rays of light from the sun may
- cause it to malfunction Always use the supplied cords and cables
- . Do not extend the cords or the cables.
- During access (image writing, reading and deleting, formatting etc.), do not turn this unit off, remove the battery, card or disconnect the AC adaptor (supplied). Furthermore, do not subject the camera to vibration, impact or static electricity.
- The data on the built-in memory or the card may be damaged or lost due to electromagnetic waves, static electricity or breakdown of the camera or the card. We recommend storing important data on a PC etc.
- Do not format the card on your PC or other equipment. Format it on the camera only to ensure proper operation.

• The battery is not charged when the camera is shipped. Charge the battery before use.

- Charge the battery only when it is inserted in the camera.
- Do not remove or damage the external label on the battery. • The battery is a rechargeable lithium ion battery. If the temperature is too high or too
- low, the operating time of the battery will become shorter.
- The battery becomes warm after using and during and after charging. The camera also becomes warm during use. This is not a malfunction
- Do not leave any metal items (such as clips) near the contact areas of the power plug or near the batteries.
- Store the battery in a cool and dry place with a relatively stable temperature: [Recommended temperature: 15 °C to 25 °C (59 °F to 77 °F), Recommended humidity: 40%RH to 60%RH]
- Do not store the battery for a long time while fully charged. When storing the battery for a long period of time, we recommend charging it once a year. Remove the battery from the camera and store it again after it has completely discharged.



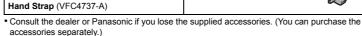
These symbols indicate separate collection of waste electrical and electronic equipment or waste batteries.

More detailed information is contained in "Operating Instructions for advanced features (PDF format)".

Standard Accessories

Check that all the accessories are supplied before using the camera. Product numbers correct as of January 2015. These may be subject to change

Battery Pack (DMW-BCL7E) AC Adaptor (VSK0775) USB Connection Cable (K1HY08YY0037)



Sales and Support Information

- Customer Communications Centre

 For customers within the UK: 0344 844 3899

 For customers within Ireland: 01 289 8333
- Monday Friday 9:00 am 5:00 pm (Excluding public holidays).
- For further support on your product, please visit our website: www.panasonic.co.uk
- Direct Sales at Panasonic UK

 Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday—Friday 9:00 am—5:00 pm (Excluding public holidays).
 Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
 Most major credit and debit cards accepted.
 All enquiries transactions and distribution facilities are provided directly by Panasonic UK.

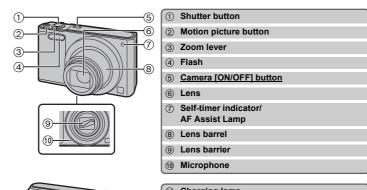
- It couldn't be simpler! Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.

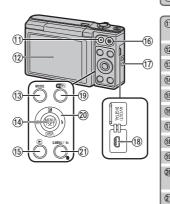
■ Optional Accessories

Battery Pack: DMW-BCL7 USB Connection Cable: DMW-USBC1 DMW-AVC1

• Accessories and/or model numbers may vary between countries. Consult your local dealer.

Names of Main Parts

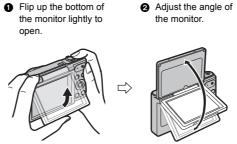




Wi-Fi® connection lamp Monitor (3) [MODE] button (14) [MENU/SET] button (15) [▶] (Playback) button (16) Speaker ① Strap eyelet (8) [AV OUT/DIGITAL] socket [Wi-Fi] button 20 Cursor buttons ▲(☑)/▼(DISP.)/◀(ⓒ)/►(ફ) [Q.MENU] button [面] (Delete) button [5] (Cancel) buttor 2 Tripod mount

23 Card/Battery doo

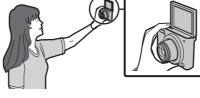
■ Adjusting the monitor angle



. Be careful not to catch your finger, etc. in the monitor

 When rotating the monitor, be careful not to apply too much force or drop the camera. This may cause scratches and malfunctions.

• If the monitor is rotated as shown in the illustration, the Self Shot Mode



Approx. 170 min

When closing

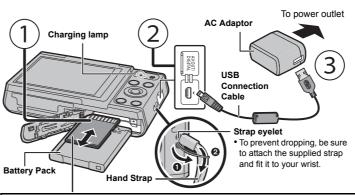
When not using this unit.

completely back to the

close the monitor

original position.

· Check that the camera is turned off.



SD Memory Card (optional)

The following cards, which conform to the SD standard, can be used with this unit. (These cards are indicated as card in the text.)

SD Memory Card (8 MB to 2 GB) SDHC Memory Card (4 GB to 32 GB) SDXC Memory Card (48 GB, 64 GB)

. When charging is complete, the charging lamp will go off - then you may disconnect the camera from the power outlet or computer

Tips for taking good pictures

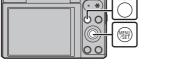
Hold the camera gently with both hands, keep your arms still at your side and stand with your feet slightly apart.

- · Be careful not to put your fingers on the flash, AF assist lamp, microphone, speaker or lens etc. When using the zoom without
- holding the camera, such as when recording with the self-timer or performing remote recording the lens barrel will be extended or retracted. This may cause the camera to tilt. We recommend fixing the camera on a tripod or
- (A) Tripod mount It may not be possible to attach and securely fasten a tripod (0.22 inch) or more to the damage the camera. It may not be possible to attach certain types of tripods properly

Selecting the Recording Mode Press [MODE].

2 Press ▲/▼/◄/▶ to select the Recording

3 Press [MENU/SET].



■ List of Recording Modes

Intelligent Auto Mode The subjects are recorded using settings automatically selected by the camera. Normal Picture Mode The subjects are recorded using your own settings. CR Creative Control Mode Record while checking the image effect This mode allows you to select any of the 15 image effects including [Old Days],

[High Kev], and [Dynamic Monochrome] Panorama Shot Mode

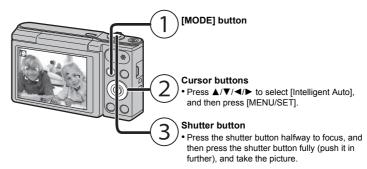
This mode allows you to take panorama pictures.

This mode allows you to select any of the 13 image effects including [Old Days], [High Key], and [Dynamic Monochrome].

This mode allows you to take pictures that match the scene being recorded. This mode allows you to select any of the 15 scenes including [Portrait], [Scenery], and [Starry Sky].

Taking pictures using the automatic function (Intelligent Auto Mode)

We recommend this mode for beginners or those who want to leave the settings to the camera and record casually



When the camera identifies the optimum scene, the icon of the scene concerned is displayed

nue foi 2 seconds, after which its colour changes to the usual red.			
3 →	[i-Portrait]	i [i-Scenery]	
	[i-Macro]	i*2 [i-Night Portrait]*	
	[i-Night Scenery]	[i-Sunset]	
* Only displayed when the flash is set to [i‡A].			

Using the Zoom

To make subjects appear further away use (Wide): Rotate the zoom lever towards Wide.



To make subjects appear closer use (Tele): Rotate the zoom lever towards Tele.

Optical Zoom Zooms in without deteriorating the image quality.

Maximum magnification: 12×

Maximum magnification: 27×

Extra Optical Zoom (EZ) This function works when any of the picture sizes indicated with is selected You can zoom in further than you can with the Optical Zoom without deteriorating the image

(This includes the optical zoom magnification. The magnification level differs depending on [Picture Size] setting.)

Intelligent Zoom Enabled when [i.Zoom] in the [Rec] menu is set to [ON]. You can zoom in up to twice the original zoom magnification while minimising the

deterioration of the image quality. Digital Zoom

This function works when [Digital Zoom] in the [Rec] menu is set to [ON]. Although the image quality deteriorates every time you zoom in further, you can zoom in up to four times the original zoom magnification.

Changing Functions and Settings

Functions and settings can be changed using ▲/▼/◄/▶ and [MENU/SET]. (Some functions and settings will not be available for selection depending on the Recording Mode.)



▲(☑) The exposure compensation setting screen is displayed ach time this is pressed, the display on the monitor is switched Recordable Recordable time pictures The guideline is used for balancing the composition. (This is not displayed during playback) he Self-Timer setting screen is displayed [\documents]₁₀]([10sec.])/[\documents]₂]([2sec.])/[OFF] [\$A]([Auto])/[i\$A]([iAuto])/[\$A@]([Auto/Red-Eye])/[\$]([Forced Flash On])/ [4Stillow Sync./Red-Eye])/[\$]([Forced Flash Off]) This operation is also available during playback.

Menus convenient for taking pictures

■ [Picture Size]

A picture taken with the camera is saved as picture data of up to approximately 16 million pixels The smaller the number of pixels is, the greater the number of recordable pictures will be.

Save location	16 M (4:3)	3 M (4:3)	0.3 M (4:3
Built-in Memory (Approx. 80 MB)	8	80	350
Card (8 GB)	830	7900	34200

This allows the Sensitivity to light (ISO sensitivity) to be set. Setting to a higher figure enables pictures to be taken even in dark places without the resulting pictures coming out dark.

	[100]	[1000]	
Recording location (recommended)	When it is light (outdoors)	When it is dark	
Shutter speed	Slow	Fast	
Noise	Less	Increased	
Jitter of the subject	Increased	Less	

This allows the focusing method that suits the positions and number of the subjects to be

	Settings	Description of settings
[2]	([Face	The camera automatically detects the person's face. (max.
[22]	Detection])	12 areas)
[([9-Area])	Up to 9 points for each AF area can be focused.
[=]	([1-Area])	The camera focuses on the subject in the AF area on the centre of the screen

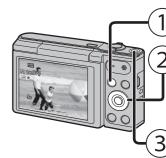
■ [Date Stamp]

n take a picture with date and time of recording

Tou can take a picture with date and time of recording.	
Settings	Description of settings
[W/O TIME]	Stamp the year, month, and day.
[WITH TIME]	Stamp the year, month, day, hour, and minutes.
[OFF]	_

Recording Motion Pictures

This unit can record motion pictures in QuickTime Motion JPEG format.



 Press ▲/▼/◄/▶ to select the Recording Mode, and then press [MENU/SET].

Recording Mode.

(MODE) button

(Motion pictures cannot be recorded in Panorama Shot Mode.)

• You can record motion pictures fitting each

Motion picture button • The recording state indicator (red) will flash while recording motion pictures. • Stop the recording by pressing the motion

picture button again. ■ About the recording quality setting

The recording quality for motion pictures can be changed in [Rec Quality] of the [Motion Picture] menu.

Settings	Picture size	tps	Aspect ratio
[HD]	1280×720		16:9
[VGA]	640×480	30	4:3
[QVGA]	320×240		4.5

• When recording to the built-in memory, [Rec Quality] is fixed to [QVGA]. • Motion pictures can be recorded continuously for up to 15 minutes. Also, continuous

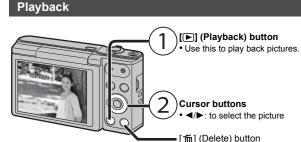
recording exceeding 2 GB is not possible.

Remaining time for continuous recording is displayed on the screen. ■ About zooming while recording motion pictures

• If you use Extra Optical Zoom or Intelligent Zoom, the angle of view may change drastically

when you start or finish recording a motion picture.

• The Extra Optical Zoom and Intelligent Zoom cannot be used during the motion picture



Setting the Menu

The camera comes with menus that allow you to choose 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.

• [面]: to delete the displayed picture

Press [MENU/SET].

2 Press ▲/▼/◄/▶ to select menu and then press [MENU/SET].

Menu	Description of settings
[Rec]	The menu lets you set the Colouring, Sensitivity or Number of pixels, etc. of pictures you are recording.
[Motion Picture]	This menu lets you set the setting for motion pictures such as recording quality.
[Playback]	This menu lets you make changes to the pictures taken. For example, you can set protection for the pictures taken, or crop them
[Setup]	This menu lets you perform the clock settings, beep tone settings and other settings which make it easier for you to operate the camera.
[Wi-Fi]	This menu lets you make the settings necessary to connect to Wi-Fi or use the Wi-Fi function.

- 3 Press ▲/▼ to select the menu item and then press IMENU/SET1.
- · It will switch to the next page when you reach the bottom (It will also switch by rotating the zoom lever)



4 Press ▲/▼ to select the setting and then press [MENU/SET].

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



Press [] repeatedly until the recording/playback screen is displayed. • When recording images, you can also close the menu by pressing the shutter button halfway.

- There are functions that cannot be set or used depending on the modes or menu settings
- being used on the camera due to the specifications.

What you can do with the Wi-Fi® function

• Set the date and time settings in advance.

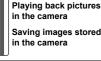
• The camera is not capable of connecting to a wireless network via public wireless LAN.

Controlling with a Smartphone/Tablet



remotely with a





Install the dedicated smartphone/tablet app "Panasonic Image App"* on your smartphone/tablet

App for Android[™]: Android 2.3.3 or higher

- → Search the Google Play[™] Store for "Panasonic Image App" or "LUMIX", and install the
- App for iOS: iOS 6.0 or higher (Please note that the iPhone 3GS is not supported.)
- → Search the App StoreSM for "Panasonic Image App" or "LUMIX", and install the app.
- Use the latest version.
- Supported OSs are current as of January 2015 and are subject to change. Read the [Help] in the "Image App" menu for further details on how to operate.
- The screen differs depending on the OS.
- The screens and procedures described from this point on are those at the time when the model first became available for purchase. The screens and procedures may change with version updates.
- Some smartphones/tablets may not work correctly. For information on the "Image App", refer to the support site below.
- http://panasonic.jp/support/global/cs/dsc/
 * In this manual, the app is referred to as "Image App".

- These operating instructions refer to both smartphones and tablets as "smartphones" from this point on unless noted otherwise

When sending images to PC



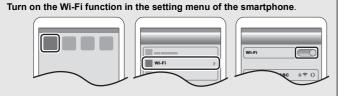


Connecting to a smartphone/table

Using the QR code to set up a connection (If you are using an iOS device [iPhone/iPod touch/iPad])

Press and hold [Wi-Fi].

- The QR code will be displayed on the camera screen.
- Start "Image App" on your smartphone Select [QR code], and then select [OK].
- Using "Image App", scan the QR code displayed on the screen of the
- 5 Install the profile.
- A message will be displayed on the browser.
- If the smartphone is locked with a passcode, enter the passcode to unlock the Press the home button to close the browser.



- 8 Select the SSID displayed on the screen of the camera.
- 9 Return to the home screen, and then start "Image App".
- Steps **2** through **6** are not required from the second time on.

Using the QR code to set up a connection (If you are using an Android device)

Press and hold [Wi-Fi].



- On the smartphone, start "Image App"
- Select [QR code].
- Using "Image App", scan the QR code displayed on the screen of the

■ Entering a password to set up a connection

1 Press and hold [Wi-Fi].

The Password will be displayed on the camera screer



- 2 Turn on the Wi-Fi function in the setting menu of the smartphone 3 Select the SSID displayed on the screen of the
- 4 Enter the password displayed on the screen of the
- If you are using an Android device, marking the box for
- password display will allow the device to display the password as you enter it
- 5 On the smartphone, start "Image App".



Controlling the camera with the smartphone/tablet

- Recording images with the smartphone/tablet (remote recording) Connect to a smartphone
- 2 Select [A] on the screen of "Image App".
 - The recorded images are saved in the camera.

■ Playing back the camera's images on the smartphone/tablet

- Connect to a smartphone. Select [▶] on the screen of "Image App".
- You can switch the images to be displayed by selecting the icon (A) on the top left of the screen. To display images stored in the camera, select [LUMIX].
- 3 Touch an image to enlarge it. · Motion pictures cannot be played back.

· Motion pictures cannot be recorded



- Saving the camera's images in the smartphone/tablet
- Connect to a smartphone.
- Select [] on the screen of "Image App".
- 3 Touch and hold an image, and drag it to save it. Motion pictures cannot be saved.

Setting up a connection to a PC

Creating a destination folder for images

You can connect the camera to a PC via a wireless access point and send pictures and motion pictures recorded with the camera to the PC.

- Create a PC user account [account name (up to 254 characters) and password (up to 32 characters)] consisting of alphanumeric characters
- An attempt to create a receive folder may fail if the account includes non-alphanumeric characters.

(For Windows)

Supported OS: Windows Vista®/Windows® 7/Windows® 8/Windows® 8.1 Example: Windows 7

- Select a destination folder, then right-click.
- 2 Select [Properties], then enable sharing of the folder. • For details, refer to the operating instructions of your PC or Help on the OS.

Supported OS: OS X v10.5 to v10.9 Example: OS X v10.8

- 1 Select a destination folder, then click the following items:
- [File] → [Get Info]
- 2 Enable sharing of the folder.
 - For details, refer to the operating instructions of your PC or Help on the OS.

Sending images to the PC

You can send pictures and motion pictures recorded with this unit to a PC The connection methods described in this manual are examples. For details on other connection methods, refer to "Operating Instructions for advanced features (PDF format)"

Preparations:

- If the workgroup of the destination PC has been changed from the standard setting, you also need to change the setting of this unit in [PC Connection].
- 1 Press [Wi-Fi].



- 2 Press ▲/▼/◄/▶ to select [New Connection], and then press [MENU/SET].
- 3 Press ▲/▼ to select the sending method.

Sending an image each time you record it ([Send Images While Recording]) Available file format: JPEG

Sending selected images ([Send Images Stored in the Available file format: JPEG/Motion JPEG



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

5 Select the connection method.

Example: Selecting [WPS (Push-Button)] to set up a connection

- Press [MENU/SET].
- 2 Select [WPS (Push-Button)].



Press and hold the WPS button of the wireless (Example) access point until it switches to WPS mode.



6 On the camera, perform the operation that matches your purpose.

[Send Images While Recording]

- Select the PC you want to connect to and the destination folder.
- 2 Take a picture with the camera.
- [Send Images Stored in the Camera]
- 1 Select the PC you want to connect to and the destination folder. 2 Select [SINGLE] or [MULTI], and then select the images you want to send.
- When the PC you want to connect to is not displayed, select [Manual Input], and enter the computer name of the PC (NetBIOS name for Apple Mac computers)
- Folders sorted by the sent date are created in the specified folder, and pictures are saved in
- If the screen for a user account and password entry appears, enter the one you set on your
- When the computer name (NetBIOS name for Apple Mac computers) contains a space (blank character), etc., it may not be recognised correctly. If a connection attempt fails, we recommend that you change the computer name (or NetBIOS name) to the one consisting of only alphanumeric characters, with a maximum of 15 characters.

Transferring images to a PC by using the USB connection cable (supplied)

1 Connect the computer and camera with the USB connection cable (supplied).

[AV OUT/DIGITAL] socket • This socket is also used when charging the battery.

USB Connection Cable

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

- Drag and drop files and folders in the camera to the PC.
- When the image transfer is complete, disconnect the USB connection cable safely.
- Software for image playback or editing is not supplied with this product. • To play back or edit still pictures, use standard software. To play back motion pictures, use the standard software.

■ Playback and editing on a PC

If the problem is not resolved, it may be improved by selecting [Reset] on the [Setup]

The charging lamp blinks.

- This phenomenon occurs when charging in a location where the temperature is very high or
- → Reconnect the USB connection cable (supplied) in a location where the ambient temperature (and the temperature of battery) is in a 10 °C to 30 °C (50 °F to 86 °F) range, and try charging again

When recording pictures or half-pressing the shutter button, reddish stripes may appear on the monitor. Alternatively, part or all of the monitor may turn a

- This is a characteristic of CCDs, and it appears when the subject has a bright part. Some
- unevenness may occur in the surrounding areas, but this is not a malfunction It is recorded in motion pictures but is not recorded on still pictures
- It is recommended that when you take pictures you take care not to expose the screen to sunlight or any other source of strong light.

A Wi-Fi connection cannot be established. Radio waves get disconnected.

Wireless access point is not displayed (General tips for using a Wi-Fi connection)

- Try [Reset Wi-Fi Settings] in the [Setup] menu. Use within the communication range of the device to be connected.
- Is any device, such as microwave oven, cordless phone, etc., that uses 2.4 GHz frequency operated nearby?
- → Radio waves may get interrupted when used simultaneously. Use them sufficiently away from the device
- When the battery indicator is flashing red, the connection with other equipment may not start or the connection may be disrupted. (A message such as [Communication error] is displayed.)

If you place the camera on a metal table or shelf, the radio waves may be adversely affected. In such cases, you may not be able to establish a connection. Move the camera away from the metal surface

• Check if the wireless access point to connect is in operating state. • The camera may not display or connect to a wireless access point depending on the radio

(About a wireless access point)

- Perform the [Manual Input].

- wave condition.
- Move this unit closer to the wireless access point. - Remove the obstacles between this unit and the wireless access point
- Change the direction of this unit. - Change the location and orientation of the wireless access point.
- → Check the settings of the wireless access point. → When the network SSID of the wireless access point is set not to broadcast, the wireless access point may not be detected. Enter the network SSID to start the connection or
- enable the SSID broadcast of the wireless access point. · Connection types and security setting methods are different depending on the wireless access point (Refer to the operating instructions of the wireless access point)

• It may not display even if the radio waves exist depending on the setting of the wireless

• Is the 5 GHz/2.4 GHz switchable wireless access point connected to other equipment using the 5 GHz band? → The use of a wireless access point that can use 5 GHz/2.4 GHz simultaneously is

recommended. It cannot be used simultaneously with this camera if it is not compatible.

It takes long time every time to connect to a smartphone.

- It may take longer time to connect depending on the Wi-Fi connection setting of the smartphone, but it is not a malfunction
 - Transmission of the image fails midway.
 - Is the size of the image too large?
 - → Reduce the size of the still picture, then transmit. → Image cannot be transmitted when the battery indicator is flashing red

Please refer to "Operating Instructions for advanced features (PDF format)" for

Specifications

Power Source: DC 5 V

Specifications are subject to change without notice

Digital Camera: Information for your safety

Power Consumption:	1.5 W (When recording) 1.0 W (When playing back)	
Camera effective pixels	16,000,000 pixels	
Image sensor	1/2.33" CCD sensor, total pixel number 16,600,000 pixels, Primary colour filter	
Lens	Optical 12× zoom, f=4.3 mm to 51.6 mm (35 mm film camera equivalent: 24 mm to 288 mm)/F3.1 (Wide) to F6.3 (Tele)	
lmage stabiliser	Optical method	
Focus range	Normal/ Intelligent auto/ Motion picture	3 cm (0.098 feet) (Wide)/1.5 m (4.9 feet) (Tele) to ∞
	Scene Mode	There may be differences in the above settings.

8 seconds to 1/2000th of a second [Starry Sky] Mode: 15 seconds, 30 seconds, 60 seconds Auto (Programme AE) 2 7" TFT LCD (4:3) (Approx. 460,000 dots) (field of view ratio about 100%) Monaural Built-in Memory (Approx. 80 MB)/SD Memory Card/SDHC Memory Card/SDXC Memory Card Recording file format Still Picture JPEG (based on "Design rule for Camera File system", based or "Exif 2.3" standard) QuickTime Motion JPEG Motion pictures Digital USB 2.0" (High Speed) Data from the PC can not be written to the camera using the USB connection cable NTSC/PAL Composite (Switched by menu) Audio line output (monaural) [AV OUT/DIGITAL] Dedicated jack (8 pin) Approx. 99.0 mm (W)×59.9 mm (H)×29.8 mm (D) (excluding the 3.90"(W)×2.36"(H)×1.17"(D)] Approx. 177 g/0.39 lb (with card and battery) Approx. 163 g/0.36 lb (excluding card and battery) Operating temperature 0 °C to 40 °C (32 °F to 104 °F) Operating humidity 10%RH to 80%RH

Electronic shutter+Mechanical shutter

Shutter system

Compliance standard	IEEE 802.11b/g/n (standard wireless LAN protocol)
Frequency range used (central frequency)	2412 MHz to 2462 MHz (1 to 11ch)
Encryption method	Wi-Fi compliant WPA™/WPA2™
Access method	Infrastructure mode

 \sim 110 V to 240 V, 50/60 Hz. 0.2 A

Output: Battery Pack (lithium-ion) (Panasonic DMW-BCL7E):

Voltage/capacity: 3.6 V/690 mAh

AC Adaptor (Panasonic VSK0775):

Information for your safety

Information for your safety

This product incorporates the following software:	

(1) the software developed independently by or for Panasonic Corporation (2) the software owned by third party and licensed to Panasonic Corporation and/or, (3) open source software

===5 V 800 mA

ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE Please refer to the detailed terms and conditions thereof displayed by selecting [MENU/SET]

The software categorised as (3) is distributed in the hope that it will be useful, but WITHOUT

- \rightarrow [Setup] \rightarrow [Version Disp.] \rightarrow [MENU/SET].
- SDXC Logo is a trademark of SD-3C, LLC. · QuickTime and the QuickTime logo are trademarks or registered

trademarks of Apple Inc., used under license therefrom.

- Mac and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries. • iPad, iPhone, iPod, and iPod touch are trademarks of Apple Inc.
- registered in the U.S. and other countries. Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or

trademarks of Wi-Fi Alliance®.

other countries.

 App Store is a service mark of Apple Inc. Android and Google Play are trademarks or registered trademarks of Google Inc.

• The Wi-Fi CERTIFIED™ Logo is a certification mark of Wi-Fi

- Alliance®. • The Wi-Fi Protected Setup™ Identifier mark is a certification mark of Wi-Fi Alliance®.
- "Wi-Fi®" is a registered trademark of Wi-Fi Alliance®. "Wi-Fi Protected Setup™". "WPA™". and "WPA2™" are
- QR Code is a registered trademark of DENSO WAVE INCORPORATED.







