

Basic Operating Instructions Digital Camera

SQT0577

F0115HH0

Model No. DMC-SZ10

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

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

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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=GN

Click the desired language

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

Limited Warranty (ONLY FOR AUSTRALIA)

Panasonic Warranty

- Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
- parts or labour, if in the Opinion to Parassonic, purpouce is sound to be lauly within the wallarity period.

 This warranty only applies to Panassonic products purchased in Australia and sold by Panassonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested. 3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's
- This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product. 4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase
- (e) DVD, Blu-ray or Recordable Discs
 (b) Video or Audio Tapes
 (c) SD cards or USB devices
 (d) Udeo / Audio Heads from wear and tear in normal use
 (d) Information stored on Hard Disk Drive, USB stick or SD card
 (d) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)
- 5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products
- and will not cover
 a) Internet and or DLNA connection / setup related problems
 b) Access fees and or charges incurred for internet connection
 c) The use of incompatible software or software not specifically stipulated in the product operations manual;
- d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.

- Collification to the international control of the control of the
- is a proof of purchase date. Please hove that arrange and instance and instance and ed Service Centre must be a ranged by you. It home or pick-up/delivery service is available for the following products in the major metropolitan (Australia or the normal operating areas of the nearest Authorised Service Centres: mal/LOt belevisions / displays (screen size greater than 103 cm)
- 7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres o Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product placed or if you wish you may elect to keep the good and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to recail or replace the product and will do so in a reasonable period of time

c Australia website www.panasonic.com.au or contact by phone on 132 600

Panasonic Australia Pty. Limited

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 Ilustrations 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.

■ About the battery pack

CAUTION

- · Danger of explosion if battery is incorrectly replaced. Replace only with the type
- When disposing of 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.

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

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 swallowin

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.

or reconnect AC adaptor and turn this unit on.

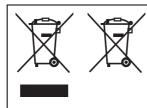
- Do not use this unit near cell phones because doing so may result in noise adversely affecting the pictures and/or sound.
- Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation may adversely affect 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

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 press the lens 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. 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.

-If you see this symbol-



Disposal of Old Equipment and Batteries Only for European Union and countries with recycle systems

These symbols are only valid in the European Union and countries with recycle systems. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

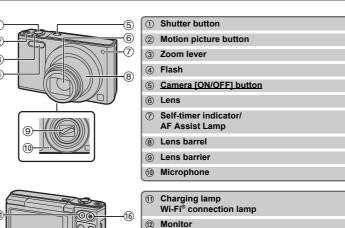
Standard Accessories

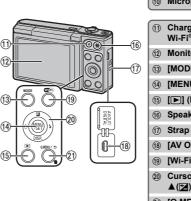
Check that all the accessories are supplied before using the camera. Product numbers correct as of January 2015. These may be subject to change

attery Pack (DMW-BCL7E)	AC Adaptor (VSK0776)
SB Connection Cable (K1HY08YY0037)	
and Strap (VFC4737-A)	

• Consult the dealer or Panasonic if you lose the supplied accessories. (You can purchase the

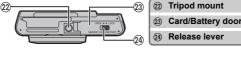
Names of Main Parts





(3) [MODE] button (4) [MENU/SET] button (15) [▶] (Playback) button (6) Speaker (17) Strap eyelet (8) [AV OUT/DIGITAL] socket 9 [Wi-Fi] button ▲(屋)/▼(DISP.)/◀(ⓒ)/►(纟) [Q.MENU] button [面] (Delete) buttor

[5] (Cancel) button





SD Memory Card (optional) The following cards, which conform to the SD standard, can be used with this unit.

■ Adjusting the monitor angle

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

This may cause scratches and malfunctions.

If the monitor is rotated as shown in

the illustration, the Self Shot Mode

· Check that the camera is turned off.

Charging lamp

Adjust the angle of

the monitor

When rotating the monitor, be careful not to apply too much force or drop the camera.

When closing

When not using this unit.

completely back to the

To power outlet

Strap eyelet

Flash Lens

 To prevent dropping, be sure to attach the supplied strap

and fit it to your wrist.

close the monitor

original position.

Flip up the bottom of

the monitor lightly to

(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)

Approx. 170 min . When charging is complete, the charging lamp will go off - then you may disconnect

Tips for taking good pictures

the camera from the power outlet or computer

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

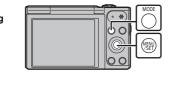
- with your feet slightly apart. · Be careful not to put your fingers on the flash, AF assist lamp,
- microphone, speaker or lens etc. When using the zoom without holding the camera, such as when recording with the self-timer or performing remote recording the lens barrel will be extended or retracted. This may cause the camera to tilt. We recommend fixing the camera on a tripod or other support.
- (A) Tripod mount It may not be possible to attach and securely fasten a tripod with a screw length of 5.5 mm or more to the camera. Doing so may also damage the camera. It may not be possible to attach

certain types of tripods properly

Press [MODE]. 2 Press ▲/▼/◄/▶ to select the Recording

Selecting the Recording Mode

3 Press [MENU/SET].



■ List of Recording Modes

Intelligent Auto Mode The subjects are recorded using settings automatically selected by the camera. The subjects are recorded using your own settings. 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 Key], and [Dynamic Monochrome].

Panorama Shot Mode

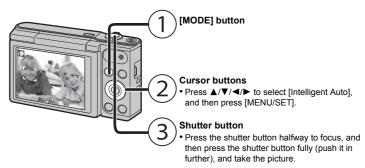
This mode allows you to take panorama pictures.

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

101	ie foi 2 seconds, after which its colour changes to the usual red.				
\rightarrow	i₽	[i-Portrait]	ΙÀ	[i-Scenery]	
	i۵	[i-Macro]	i * ≗	[i-Night Portrait]*	
	民	[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.

Zooms in without deteriorating the image quality.

Maximum magnification: 12× Extra Optical Zoom (EZ)

You can zoom in further than you can with the Optical Zoom without deteriorating the image Maximum magnification: 27×

[Picture Size] setting.) Intelligent Zoom

You can zoom in up to twice the original zoom magnification while minimising the deterioration of the image quality.

This function works when [Digital Zoom] in the [Rec] menu is set to [ON].

This function works when any of the picture sizes indicated with 📝 is selected.

Digital Zoom

Although the image quality deteriorates every time you zoom in further, you can zoom in up to four times the original zoom magnification.

(This includes the optical zoom magnification. The magnification level differs depending on

Changing Functions and Settings

Enabled when [i.Zoom] in the [Rec] menu is set to [ON].

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 No display pictures **▼**(DISP The guideline is used for balancing the composition. (This is not displayed during playback) The 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])/[Stillow]([Forced Flash Off]) This operation is also available during playback.

■ [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

pictures to be taken even in dark places without the resulting pictures coming out dark.

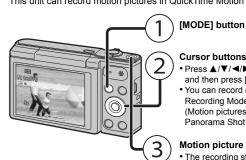
	[100]	[1000]
Recording location (recommended)	When it is light (outdoors)	When it is dark
Shutter speed	Slow	Fast
Noise	Less	Increased
Jitter of the subject	Increased	Less

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

	Settings	Description of settings
[②]	([Face Detection])	The camera automatically detects the person's face. (max. 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.

ou 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]	_	



Motion picture button
• The recording state indic

• 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	τps	Aspect ratio
[HD]	1280×720		16:9
[VGA]	640×480	30	4:3
[QVGA]	320×240	1	4.5

The maximum available recording time for up to 2 GB only is displayed on the screen.

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

• 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.

Menus convenient for taking pictures

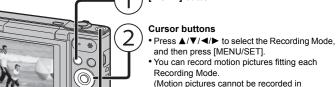
■ [Sensitivity] This allows the Sensitivity to light (ISO sensitivity) to be set. Setting to a higher figure enables [1001]

	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]

Recording Motion Pictures

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

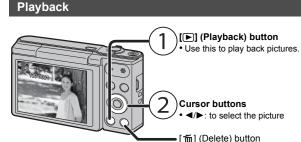


Panorama Shot Mode.)

• The recording state indicator (red) will flash while recording motion pictures.

[QVGA]	320×240		
en recording to the	built-in memory, [Rec 0	Quality] is fixed to [QVG	A].
ion pictures can be	e recorded continuously	up to 2 GB.	

■ About zooming while recording motion pictures



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

1 Press [MENU/SET].

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

Description of settings
The menu lets you set the Colouring, Sensitivity or Number of pixels, etc. of pictures you are recording.
This menu lets you set the setting for motion pictures such as recording quality.
This menu lets you make changes to the pictures taken. For example, you can set protection for the pictures taken, or crop them.
This menu lets you perform the clock settings, beep tone settings and other settings which make it easier for you to operate the camera.
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)



Select Set

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





Playing back pictures Saving images stored

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

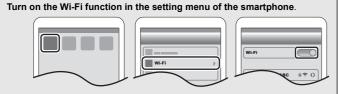




Connecting to a smartphone/table

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
- Select [🎤] on the screen of "Image App".
- - The recorded images are saved in the camera. · Motion pictures cannot be recorded



■ 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.



- 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.

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 v10.10 Example: OS X v10.8

- 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)".

- 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].

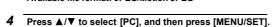


Send Images While Recording

- 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 Available file format: JPEG

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



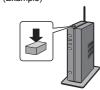
5 Select the connection method.

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

- 1 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

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

Software for image playback or editing is not supplied with this product.

- 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.

■ Playback and editing on a PC

• To play back or edit still pictures, use standard software. To play back motion pictures, use the standard software

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 range, and try

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

(About a wireless access point)

- 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 wave condition.
- Remove the obstacles between this unit and the wireless access point - Change the direction of this unit.

- Move this unit closer to the wireless access point.

- Change the location and orientation of the wireless access point. - Perform the [Manual Input].
- It may not display even if the radio waves exist depending on the setting of the wireless
- → 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) • 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) 16,000,000 pixels	
Camera effective pixels		
Image sensor	1/2.33" CCD sensor, total pixel number 16,600,000 pix Primary colour filter	
Lens		, f=4.3 mm to 51.6 mm (35 mm film camera n to 288 mm)/F3.1 (Wide) to F6.3 (Tele)
Image stabiliser	Optical method	
Focus range	Normal/ Intelligent auto/ Motion picture	3 cm (Wide)/1.5 m (Tele) to ∞
	Scene Mode	There may be differences in the above settings.

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) Motion pictures QuickTime Motion JPEG Digital USB 2.0" (High Speed) NTSC/PAL Composite (Switched by menu) Analogue video Audio Audio line output (monaural) [AV OUT/DIGITAL] Dedicated jack (8 pin) Approx. 99.0 mm (W) \times 59.9 mm (H) \times 29.8 mm (D) (excluding the projecting parts) Approx. 177 g (with card and battery) Approx. 163 g (excluding card and battery)

Electronic shutter+Mechanical shutter

[Starry Sky] Mode: 15 seconds, 30 seconds, 60 seconds

3 seconds to 1/2000th of a second

Wireless transmitter

Shutter system

ompliance standard	IEEE 802.11b/g/n (standard wireless LAN protocol)
equency range used	2412 MHz to 2462 MHz (1 to 11ch)
entral frequency)	
cryption method	Wi-Fi compliant WPA™/WPA2™
cess method	Infrastructure mode

AC Adaptor (Panasonic VSK0776): Information for your safety

(3) open source software

Operating temperature 0 °C to 40 °C

Operating humidity 10%RH to 80%RH

~110 V to 240 V. 50/60 Hz. 0.2 A ===5 V 800 mA

Information for your safety Voltage/capacity: 3.6 V/690 mAh

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

- 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,

The software categorised as (3) is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS

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 \rightarrow [Setup] \rightarrow [Version Disp.] \rightarrow [MENU/SET].

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