

Basic Operating Instructions Digital Camera

SQT0609

F0115HH0

Model No. DMC-TZ57

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-TZ57&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, maffunction 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, thundersord activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorisms 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.

- To claim warranty service, when required, you should:
 Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase decreased to the service Centre together with your proof of purchase decreased the treight and insurance to and/or from your nearest Authorises Order to the Service Centre must be arranged as Authorised Service Centre must be arranged as Authorised Service Centre with the Service Centre of Service
- 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. or reconnect AC adaptor and turn this unit on.

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

SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

stralia 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
- recommended by the manufacturer
- 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).
- Use a "High Speed HDMI micro cable" with the HDMI logo. Cables that do not comply with the HDMI standards will not work
- "High Speed HDMI micro cable" (Type D-Type A plug, up to 2 m long)
- 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-BCM13E).
- 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.).

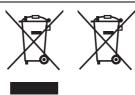
- If you use this unit on top of or near a TV, the pictures and/or sound on this unit may be disrupted by electromagnetic wave radiation.
- Do not use this unit near cell phones because doing so may result in noise adversely affecting the pictures and/or sound. • Recorded data may be damaged, or pictures 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

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 • 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 off.

- 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

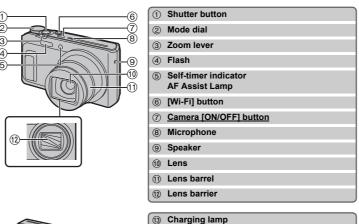
These symbols are only valid in the European Union and countries with recycle systems. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal

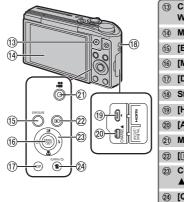
Check that all the accessories are supplied before using the camera. Product numbers correct as of January 2015. These may be subject to change

Battery Pack (DMW-BCM13E)	AC Adaptor (VSK0776)	
USB Connection Cable (K1HY08YY0037)		
Hand Strap (VFC4737-A)		

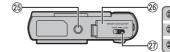
• Consult the dealer or Panasonic if you lose the supplied accessories. (You can purchase the accessories separately.)

Names of Main Parts





Wi-Fi® connection lamp 4) Monitor (5) [EXPOSURE] button 6 [MENU/SET] button (17) [DISP.] button (8) Strap eyelet (9) [HDMI] socket (2) [AV OUT/DIGITAL] socket **1** Motion picture button ② [▶] (Playback) button ② Cursor buttons ▲(☑)/▼(♨)/◄(♂))/►(੬ [Q.MENU] button 「而] (Delete) buttor [5] (Cancel) button



Tripod mount 26 Card/Battery door

■ Adjusting the monitor angle

Adjust the angle of Flip up the bottom of the monitor lightly to



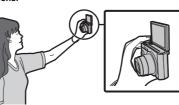
hen not using this unit, empletely back to the original position.

When closing

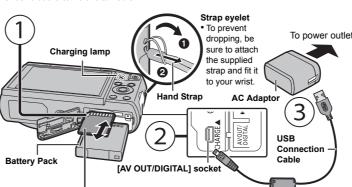
• Be careful not to catch your finger, etc. in the monitor.

 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



Preparations



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)

Approx. 210 min

AF Assist Lam

• 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

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 (A) Tripod mount

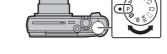
Hold the camera gently with

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 It may not be possible to attach

Selecting the Recording Mode

Switching the mode by rotating the mode dial.

· Rotate the mode dial slowly to select the desired



■ List of Recording Modes

SCN Scene Mode

[Scenery], and [Starry Sky].

Record while checking the image effect

[High Key], and [Dynamic Monochrome].

Taking pictures using the automatic function

in blue for 2 seconds, after which its colour changes to the usual red.

*1 Only displayed when the flash is set to [i♣A].

To make subjects appear further away use (Wide):

*2 Only displayed when [iHandheld Night Shot] is set to [ON].

⊘ Creative Control Mode

(Intelligent Auto Mode)

camera and record casually

[i-Portrait]

[i-Macro]

[i-Sunset]

Ontical Zoom

[i-Night Scenery]

Using the Zoom

Rotate the zoom lever towards Wide.

Rotate the zoom lever towards Tele.

Maximum magnification: 20×

Maximum magnification: 45×

Extra Optical Zoom (EZ)

[Picture Size] setting.)

Intelligent Zoom

of the image quality

Digital Zoom

To make subjects appear closer use (Tele):

Zooms in without deteriorating the image quality.

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

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 quality.

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

You can zoom in up to twice the original zoom magnification while minimising the deterioration

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.

■ List o	f Recording Modes		
List		Chan	iging Functions and Settings
fA)	Intelligent Auto Mode	Function	s and settings can be changed using ▲/▼/◄/▶
	The subjects are recorded using settings automatically selected by the camera.	and [MEI	NU/SET]. (Some functions and settings will not be
Р	Programme AE Mode	available	for selection depending on the Recording Mode.)
	The subjects are recorded using your own settings.		
Α	Aperture-Priority AE Mode	A (2)	The exposure compensation or Auto Bracket setting screen is displayed.
	The shutter speed is automatically determined by the aperture value you set.		The macro setting screen is displayed.
S	Shutter-Priority AE Mode	▼(♣)	[AF*]([AF Macro])/[@]([Macro Zoom])/[OFF]
	The aperture value is automatically determined by the shutter speed you set.	4(:5)	The Self-Timer setting screen is displayed.
М	Manual Exposure Mode	ৰ(৩)	[\displaystyle{0}_{10}]([10sec.])/[\displaystyle{0}_2]([2sec.])/[OFF]
	The exposure is adjusted by the aperture value and the shutter speed which are manually adjusted.	▶ (\$)	The flash setting screen is displayed. [\$\frac{4}{([Auto])/[\frac{4}{A}]([iAuto])/[\frac{4}{A}\infty]} ([Auto/Red-Eye])/[\frac{4}{A}]([Forced Flash On])/
C1C2	Custom Mode		[4S@]([Slow Sync./Red-Eye])/[\$]([Forced Flash Off])
CTCZ	Use this mode to take pictures with previously registered settings.	(MENU ZSET)	The menu screen is displayed.
~		VSET	This operation is also available during playback.
	Panorama Shot Mode		
	This mode allows you to take panorama pictures.	Menu	us convenient for taking pictures
	This mode allows you to select any of the 13 image effects including [Old Days],		3.
	[High Key], and [Dynamic Monochrome].	■ [Picti	ure Size]

This mode allows you to take pictures that match the scene being recorde

This mode allows you to select any of the 15 image effects including [Old Days]

This mode allows you to select any of the 16 scenes including [Portrait],

We recommend this mode for beginners or those who want to leave the settings to the

Mode dial

• Set the mode dial to [

further), and take the picture.

[i-Scenery]

[i-Night Portrait]*

[[iHandheld Night Shot] *2

· Press the shutter button halfway to focus, and

then press the shutter button fully (push it in

Shutter button

• Quality [

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. 78 MB)	14	50	155
Card (8 GB)	1300	5700	15400

■ [Quality]

Set the compression rate at which the pictures are to be stored. Sottings Description of settings

	Settings	Description of settings
[:	([Fine])	When giving priority to the picture quality
[_1_1_]		When using the standard picture quality and increasing the number of pictures to be recorded without changing the number of pixels

■ [Sensitivity]

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] [3200]	
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

■ [Date Stamp]

You can take a picture with date and time of recording. When the camera identifies the optimum scene, the icon of the scene concerned is displayed

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 MP4 format.



Motion picture button . The recording state indicator (red) will flash

picture button again

Simultaneous recording is not possible in the following cases

-When [Rec Quality] is set to [VGA]

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

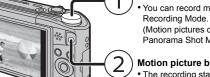
Settings	Size	Frame rate	Bit rate	Aspect ratio
[FHD]	1920×1080		20 Mbps	16:9
[HD]	1280×720	25p	10 Mbps	10.9
[VGA]	640×480		4 Mbps	4:3

• When recording to the built-in memory, [Rec Quality] is fixed to [VGA].

• The maximum continuous recordable time of a motion picture is 29 minutes and 59 seconds, which is equivalent to a file size of approximately 4 GB. You can check the recordable time on the screen. (With [FHD], the file size becomes larger,

■ 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.



• You can record motion pictures fitting each

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

while recording motion pictures. . Stop the recording by pressing the motion

• Still pictures can be taken during motion picture recording by pressing the shutter button. (Simultaneous recording)*

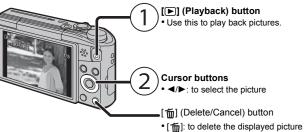
-[Miniature Effect] (Creative Control Mode)

■ About the recording quality setting

[FHD]	1920×1080		20 Mbps	16:9
[HD]	1280×720	25p	10 Mbps	10.9
[VGA]	640×480		4 Mbps	4:3

causing the recordable time to become shorter than 29 minutes and 59 seconds)

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



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.

1 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 Mode]	This menu lets you select the playback method. The options include slideshow playback.
[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 A/▼ to select the menu item and then press [MENU/SET]. • It will switch to the next page when you reach the bottom.

- (It will also switch by rotating the zoom lever)
- 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.

■ Close the menu Press [5] 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 in the camera

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 PlayTM 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.ip/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/tablet

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].



- 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 smartphone.
- Press the home button to close the browser.
- Turn on the Wi-Fi function in the setting menu of the smartphone.



- 8 Select the SSID displayed on the screen of the camera
- 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 screen



- Turn on the Wi-Fi function in the setting menu of the smartphone 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".



2 Press ▲/▼/◄/▶ to select [New Connection], and then press [MENU/SET]

need to change the setting of this unit in IPC Connection].

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/MP4

Controlling the camera with the smartphone/table

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

Connect to a smartphone

Connect to a smartphone

3 Touch an image to enlarge it.

Connect to a smartphone.

· Motion pictures cannot be recorded

stored in the camera, select [LUMIX]

· Motion pictures cannot be played back.

Select [] on the screen of "Image App".

Setting up a connection to a PC

Creating a destination folder for images

motion pictures recorded with the camera to the PC.

32 characters)] consisting of alphanumeric characters.

Select a destination folder, then right-click.

Supported OS: OS X v10.5 to v10.10

2 Select [Properties], then enable sharing of the folder.

1 Select a destination folder, then click the following items:

(For Windows)

(For Mac)

format)".

Preparations

1 Press [Wi-Fi].

Example: Windows 7

Example: OS X v10.8

[File] → [Get Info]

2 Enable sharing of the folder.

Sending images to the PC

You can connect the camera to a PC via a wireless access point and send pictures and

• Create a PC user account [account name (up to 254 characters) and password (up to

• For details, refer to the operating instructions of your PC or Help on the OS.

• For details, refer to the operating instructions of your PC or Help on the OS.

The connection methods described in this manual are examples. For details on other

• If the workgroup of the destination PC has been changed from the standard setting, you also

connection methods, refer to "Operating Instructions for advanced features (PDF

You can send pictures and motion pictures recorded with this unit to a PC.

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

An attempt to create a receive folder may fail if the account includes non-alphanumeric characters.

3 Touch and hold an image, and drag it to save it.

2 Select [A 1 on the screen of "Image App".

The recorded images are saved in the camera.

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

■ Saving the camera's images in the smartphone/tablet

■ Recording images with the smartphone/tablet (remote recording)



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

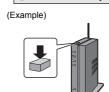
Select the connection method.

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

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



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



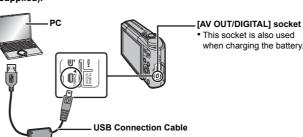
6 On the camera, perform the operation that matches your purpose.

[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] 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 those folders.
- 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

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



· When the image transfer is complete, disconnect the USB connection cable safely.

- Press ▼ to select [PC], and then press [MENU/SET].
- Drag and drop files and folders in the camera to the PC
- Playback and editing on a PC
- 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 following software:
- QuickTime/iTunes, provided by Apple
- (Software supporting MP4 format is required.) If software is not installed on your PC, download it from the website of the software provider.
- · For information on how to use software, contact the software provider.

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

- This phenomenon occurs when charging in a location where the temperature is very high or ightarrow 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

Striping or flicker may appear under lighting such as fluorescent lighting and LED lighting fixture.

• This is characteristic of MOS sensors which serve as the camera's pickup sensors. This is not a malfunction.

Reddish horizontal streaks appear on the monitor during recording

• This is characteristic of MOS sensors which serve as the camera's pickup sensors. 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 still pictures or motion pictures.

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.
- 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.
- Perform the [Manual Input].
- It may not display even if the radio waves exist depending on the setting 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.)
- 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 malfunctio

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

Image sensor

Image stabiliser

Specifications are subject to change without notice.

Digital Camera: Information for your safety

Power Source:	DC 5 V
Power Consumption:	1.5 W (When recording)
	1.0 W (When playing back)

equivalent: 24 mm to 480 mm)

Primary colour filter

. Wide: F3.3 to F8.0

Tele: F6.4 to F8.0

Optical method

Intelligent auto/

Normal

MP4

Power Consumption:	1.5 W (When recording) 1.0 W (When playing back)	
Camera effective	16,000,000 pixels	

- 1/2.33" MOS sensor, total pixel number 17,500,000 pixels, Optical 20× zoom, f=4.3 mm to 86.0 mm (35 mm film camera 50 cm (Wide)/2 0 m (Tele) to ∞ 3 cm (Wide)/1.0 m (Tele) to ∞ [5× to 8× is 2.0 m to ∞]
- Scene Mode There may be differences in the above settings. Electronic shutter+Mechanical shutte Approx. 10 lx (when i-low light is used, the shutter speed is 1/25th of a second)

	,
Shutter speed	4 seconds to 1/2000th of a second [Starry Sky] Mode: 15 seconds, 30 seconds
Exposure (AE)	Programme AE (P)/Aperture-Priority AE (A)/ Shutter-Priority AE (S)/Manual Exposure (M)
Metering mode	Multiple/Centre weighted/Spot
Monitor	3.0" TFT LCD (3:2) (Approx. 1,040,000 dots) (field of view ratio about 100%)
/licrophone	Monaural
Speaker	Monaural
Recording media	Built-in Memory (Approx. 78 MB)/SD Memory Card/SDHC Memory Card/SDXC Memory Card

"Exif 2.3" standard)/DPOF corresponding

JPEG (based on "Design rule for Camera File system" based o

Digital USB 2.0" (High Speed) NTSC/PAL Composite (Switched by menu Audio line output (monaural) [AV OUT/DIGITAL] Dedicated jack (8 pin icroHDMI Type D Approx. 107.9 mm (W) \times 59.9 mm (H) \times 32.1 mm (D) (excluding the projecting parts) Approx. 249 g (with card and battery) Approx. 223 g (excluding card and battery) Operating temperature 0 °C to 40 °C Operating humidity 10%RH to 80%RH

Wireless transmitte

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

AC Adaptor (Panasonic VSK0776):

Information for your safety

 \sim 110 V to 240 V, 50/60 Hz, 0.2 A === 5 V. 800 mA

Battery Pack (lithium-ion) (Panasonic DMW-BCM13E): Information for your safety

3.6 V/1250 mAh

This product incorporates the following software:

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- (2) the software owned by third party and licensed to Panasonic Corporation and/or. (3) open source software

Voltage/capacity:

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