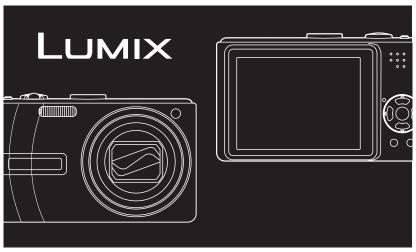
Panasonic



Operating Instructions

Digital Camera

Model No. DMC-TZ2
DMC-TZ3



LEICA DC VARIO-ELMAR



Before connecting, operating or adjusting this product, please read the instructions completely.

This manual is based on the DMC-TZ3 model. Product illustrations and screens may vary.

For USA assistance, please call: 1-800-272-7033 or send e-mail to : digitalstillcam@us.panasonic.com

For Canadian assistance, please call: 1-800-99-LUMIX (1-800-995-8649) or send e-mail to: lumixconcierge@ca.panasonic.com



Dear Customer.

Thank you for choosing Panasonic!

You have purchased one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information below.

The serial number is on the tag located on the underside of your Camera. Be sure to **retain this manual** as your convenient Camera information source.

Model No.

Serial No.

Information for Your Safety

WARNING:

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

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

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.

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

CAUTION

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

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60 °C (140 °F) or incinerate.

Marking sign is located on bottom of the unit.



A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

FCC Note: (U.S. only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, follow the attached installation instructions and use only shielded interface cables with ferrite core when connecting to computer or peripheral devices.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Declaration of Conformity

Trade Name: Panasonic
Model No.: DMC-TZ2
DMC-TZ3
Responsible party: Panasonic

Corporation of

North America One Panasonic Way, Secaucus NJ 07094

Support Contact: Panasonic Consumer

Electronics Company 1-800-272-7033

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.





THE FOLLOWING APPLIES ONLY IN CANADA

This Class B digital apparatus complies with Canadian ICES-003

-If you see this symbol-

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



About the battery pack

Battery pack (Lithium ion battery pack)

- Use the specified unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified unit.
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals (+ and
) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes. Rinse eyes thoroughly with water, and then consult a doctor.

About the battery charger

CAUTION!

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.

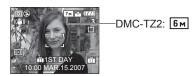
Battery charger

This battery charger operates on AC between 110V and 240 V.

- In the U.S.A. and Canada, the battery charger must be connected to a 120V AC power supply only.
- When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration.

Note

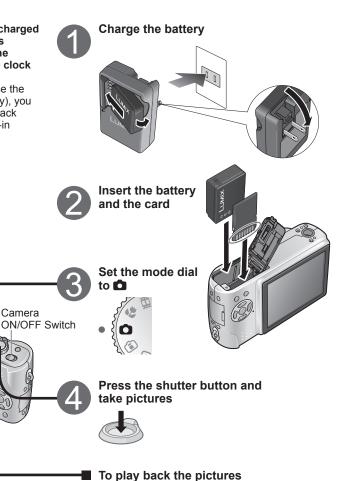
Example screens displayed in this manual are for DMC-TZ3 model.



Quick start guide

The battery is not charged when the camera is shipped. Charge the battery and set the clock before use.

When you do not use the card (sold separately), you can record or play back pictures on the built-in memory (P.26).



1. Set the mode dial to .

- 2. Select the picture you want to view.
 - Previous Next

Record, view, save those preci-

SD memory card (Sold separately)





Zoomed-in pictures

Close-up pictures of people in distance

[10x optical zoom] (P.27)



Clear pictures

Prevents blurring from shaky hands [Optical Image Stabilizer] (P.39)



Beautiful pictures

Dark places, moving subjects [Intelligent ISO] (P.46)



Motion pictures

Capture moving scenes [Motion Picture Mode] (P.47)
Create photos (still pictures) from your favorite motion pictures (P.63)



Holiday pictures

Useful features for travel – 'TRAVEL DATE' (P.48)
'WORLD TIME' (P.49)
'CLIPBOARD' (P.58)

ous moments.

 Cards may be inserted directly into devices with SD memory card slots.



Alternatively, connect with AV cable (supplied)



On TV screen

View (Playback) on large screen (P.79)



Alternatively, connect with USB connection cable (supplied)



Alternatively, connect with USB connection cable (supplied)



Alternatively, connect with AV cable (supplied)



Print
at home, or at
a digital photo center
(P.68, 76)

With your printer

Connect directly to easily print pictures at home (P.76) Use a PictBridge-compatible printer.

At digital photo center

Give card to shop assistant to print pictures. (P.68)



Save and enjoy your pictures!

On computer

Send by e-mail, save to hard disk. Print out pictures.



With DVD recorder Save to DVD or hard disk

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Before use

Read first

■Do a test shot first!

 Check first to see if you can take pictures and record sounds (motion pictures/pictures with audio) successfully.

We will not compensate for failed/ lost recording or for direct/indirect damage.

 Panasonic will not provide compensation even if damage is caused by faults with camera or card.

■Certain pictures cannot be played back

- Pictures edited on a computer
- Pictures taken or edited on a different camera

(Pictures taken or edited on this camera may also not be able to be played back on other cameras)

■Software on the CD-ROM supplied

The following actions are prohibited:

- Making duplicates (copying) for sale or rent
- Copying onto networks

■LCD monitor characteristics

Extremely high precision technology is employed to produce the LCD monitor screen. However there may be some dark or bright spots (red, blue or green) on the screen. This is not a malfunction. The LCD monitor screen has more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. The spots will not be recorded on pictures on the built-in memory or a card.

To prevent damage and faults

■Avoid shocks, vibration, and pressure

- Avoid exposing the camera to strong vibration or shock; e.g. dropping or hitting the camera, or sitting down with the camera in your pocket.
 - Do not press the lens or the LCD monitor.

■Do not get the camera wet or insert foreign objects

- Do not expose the camera to water, rain, or seawater.
 (If camera gets wet, wipe with a soft, dry cloth. Wring cloth thoroughly first if wet with seawater, etc)
- Avoid exposing lens and socket to dust or sand, and do not allow liquids to leak into gaps around buttons.

Avoid condensation caused by sudden changes in temperature and humidity

- When moving between places of different temperature or humidity, place camera into a plastic bag and allow to adjust to conditions before use.
- If the lens clouds up, switch off the power and leave for about two hours to allow camera to adjust to conditions.
- If the LCD monitor clouds up, wipe with a soft, dry cloth.

■When transporting

Switch off power.
 We recommend using a genuine leather case (DMW-CT3, sold separately).



Standard **Accessories**

Part numbers are as of January 2007



Lens barrier

Do not touch the lens barrier, as this may damage your camera.

If lens is dirty

Images may appear slightly white if lens is dirty (fingerprints, etc).

Turn the power on, hold the extracted lens barrel with your fingers, and gently wipe the lens surface with a soft, dry cloth.

Lens (P.12)

Do not leave in direct sunlight.

■Optional accessories (P.96)

- Cards are optional. You can record or play back pictures on the built-in memory when you are not using a card. (P.26)
- If any accessories are lost, customers in the USA should contact Panasonic's parts department at 1 800 833-9626 and customers in Canada should contact 1 800 99-LUMIX (1-800-995-8649) for further information about obtaining replacement parts.

Battery Pack CGA-S007A (P.14)



(referred to in this manual as 'battery')

Battery Charger DE-A45B (P.14)



(referred to in this manual as 'charger')

Battery Carrying Case VYQ3680 (P.91)



Strap VFC4090 (P.12)



USB Connection Cable K1HA08CD0007 (P.74, 76)



AV Cable K1HA08CD0008 (P.79)



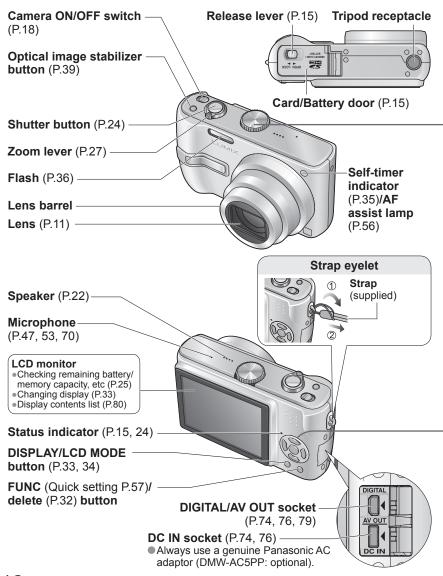
CD-ROM



The following software on the CD-ROM is referred to in this manual as 'supplied software'

- LUMIX Simple Viewer
- PHOTOfunSTUDIO -viewer-

Names of parts



Mode dial

Align to correct mode





(Displayed on screen when mode changed)

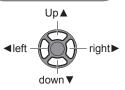
- **NORMAL PICTURE mode** Take pictures (P.24).
- INTELLIGENT ISO mode Take pictures according to motion and brightness of subject (P.46).
- **PLAYBACK** mode View/edit pictures previously taken (P.31, 61)
- SIMPLE MODE For beginners (P.28).

SCN1 SCENE mode

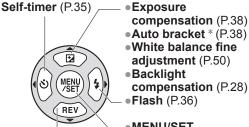
SCN2 Take pictures according to scene (P.40).

- CLIPBOARD mode Take/view pictures as memos (P.58).
- **PRINT** mode Print (P.76).
- **MOTION PICTURE mode** Take motion pictures (P.47).
 - MACRO mode Take close-up pictures (P.46).

Up/down/left/right selection



In this manual, direction buttons to be pressed will be shown in white, or with ▲ ▼ ◀ ▶.



- View previously taken picture immediately (Review) (P.30)
- White balance fine adjustment (P.50) Backlight compensation (P.28)

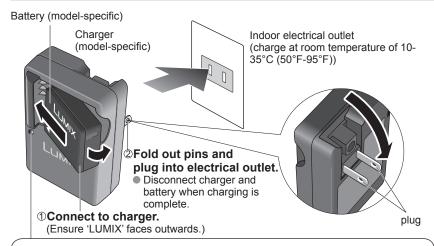
compensation (P.38)

- Flash (P.36) MENU/SET
- (menu display/set) (P.18)

* DMC-TZ3 only

Charging battery

Always charge before first use! (not sold pre-charged)



Charging light (CHARGE)

- On: Charging in progress (approx. 120 min.)
- Off: Charging complete
- If light is flashing...
 - ullet Battery temperature is too high/too low ullet Battery may still be charged, but it will take longer as it must adjust to the room temperature.
 - Battery/charger connector is dirty → clean with dry cloth.

■Approximate battery life

Number of pictures:

270 [300 *2] (at 30-sec intervals) *1 (equivalent to approx. 135 [150 *2] mins)

*1 Values based on CIPA standards. (P.91)

(Number reduced if intervals longer – 67 [75 *2] pictures if 2-minute intervals)

Playback time: Approx. 260 [280 *2] mins

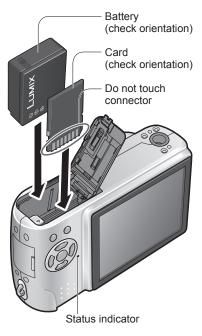
Above figures may be reduced if intervals between recording are longer; if flash, zoom, or POWER LCD are used frequently; or in colder climates (depends on actual usage). *2 DMC-TZ2

Note

- Battery will be warm during charging and for some time thereafter.
- Battery will run out if not used for long periods of time, even after being charged.
- Battery can be topped up even if not fully depleted.
- Do not disassemble or modify the charger.
- Please purchase a new battery if battery life becomes significantly reduced.

14

Inserting battery and card



- 1) Set the camera ON/OFF switch to OFF
- **2Slide to the 'OPEN' position and** open the lid
- **3Completely insert battery and card** (both click into place)
- 4 Close lid
 - Slide to the 'LOCK' position.



To remove

- To remove battery. move lever in direction of arrow.
- To remove card. press down in center.





Compatible memory cards (sold separately)

- The following SD standard-based cards (Panasonic brand recommended)
 - •SD memory cards, 8MB-2GB
 - SDHC memory cards (4GB) → (P.96) (4GB (or greater) cards without the SDHC logo are not of SD standard.)
 - → For recording picture/time capacity, see (P.92)
 - → For model numbers and types, see http://panasonic.co.jp/pavc/global/cs (This Site is English only.)
- MultiMediaCards (still images only)

SDHC logo



SDHC memory card

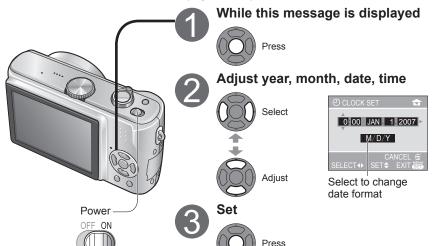
Caution

- Always use genuine Panasonic batteries.
- If you use other batteries, we cannot guarantee the quality of this product.
- Do not remove card or battery while power is 'ON' or while status indicator is on (Camera may cease operating correctly, or card/recorded contents may be damaged).
- The reading/writing speed of a MultiMediaCard is slower than an SD memory card. When a MultiMediaCard is used, the performance of certain features may be slightly slower than advertised.
- Keep the Memory Card out of reach of children to prevent swallowing.

3

Setting the clock and language

Set mode dial (P.13) to NORMAL PICTURE mode **t** before turning on power. 'PLEASE SET THE CLOCK' will be displayed when power is turned on for the first time.



Note

- Failure to set the clock will mean correct date will not be printed (P.76) when printing pictures in digital photo center or when using DATE STAMP (P.66).
- Time is displayed in 24-hour format. Year can be set between 2000 and 2099.
- Clock settings will be saved for approx. 3 months even after battery is removed, provided a fully-charged battery was installed in camera for the 24 hours beforehand

■To change time setting

display.

■ Select 'CLOCK SET' from SETUP menu (P.18), perform ② and ③ above, and press ♠

Turn on power again and check time

- ■To set local time at overseas destination
 - → 'WORLD TIME' (P.49)

■To set language

- Select LANGUAGE (P.22) from SETUP menu (P.20), and set to language displayed on the monitor.
 - Example of SETUP menu setting (P.18)

4

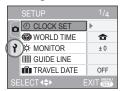
Know the different menus

to get more out of your camera

This camera contains a range of menus to enable you to set your photography and playback preferences, and to make the camera easier and more fun to use.

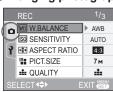
The 'SETUP' menu in particular contains important functions, such as for time and power source. Please check these settings before use.

■ Making the camera more convenient to use (SETUP menu) (P.20)



- Make settings for ease of use such as adjusting the clock and changing the beep sounds.

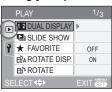
■ Changing photography preferences (REC menu) (P.50)



- Make settings such as white balance, sensitivity, aspect ratio, and picture size.

(Screen example: DMC-TZ3)

■Using your pictures (PLAY menu) (P.64)



- Make settings for using the pictures you have taken, including rotating, protecting, trimming, and handy settings for printing your pictures (DPOF).
- Applicable modes (P.13):

(Screen example: DMC-TZ3)

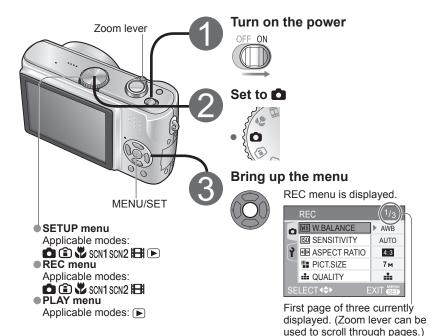
The following menus are also included:

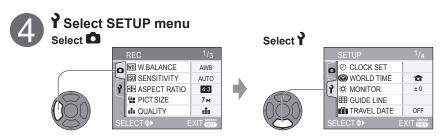
- ■To make photography settings to fit certain scenes, e.g. night
 - → SCENE menu (P.40)
- ■To easily change settings such as picture quality, for beginners
 - → SIMPLE MODE menu (P.29)

Preparations 5 Using menus

Here is explained an example of changing the 'POWER SAVE' setting from '5 MIN.' to '2 MIN.' from SETUP menu.

('POWER SAVE' is a function to extend battery life by automatically turning the camera off if no operations are performed for a certain period.)





Explanation of settings method for SETUP menu, REC menu, and PLAY menu. (Screen example: DMC-TZ3)



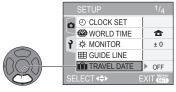
Move across to the items Highlight 'CLOCK SET'



6

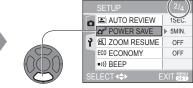
Select the correct item

Press ▼ and move beyond the bottom item



Page 2 displayed

Move down to 'POWER SAVE'





Select this item Displays settings

SETUP

AUTO REVIEW

OFF

MY 200M RESUME

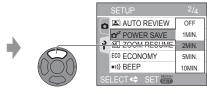
MIN.

SELECT SET MINN.

SELECT SET MINN.

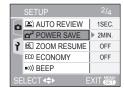
SELECT SET MINN.







Select this setting









■ To restore default settings → 'RESET' (P.22)

For certain items, there may be no settings selection (step) (e.g. 'ROTATE' on PLAY menu), or actual display may differ from that above (e.g. 'WORLD TIME' on SETUP menu).

Preparations 6 Y Using SETUP menu

'CLOCK SET', 'AUTO REVIEW', 'POWER SAVE' and 'ECONOMY' are important for clock setting and battery life. Be sure to check these before use.

Item	Uses, operations	
CLOCK SET *1, 2	Set the date and time.	
WORLD TIME *1, 2	Set the local time at an overseas destination (P.49)	
☆ MONITOR *1, 2	Adjust the brightness of the LCD monitor (7 levels).	
Ⅲ GUIDE LINE	Change the pattern of the guide lines displayed when taking pictures. Display recording information or histogram together with guide lines (P.33).	
TRAVEL DATE *1, 2	Record the number of days elapsed in your travels.	
AUTO REVIEW	Automatically display pictures immediately after taking them. Select display time (seconds). 'ZOOM' is useful for checking focus.	
☆ ^{zZ} POWER SAVE	Automatically shut off power while not in use. (Saves battery consumption) To restore: Press the shutter button halfway, or turn on the power again.	
◯ ZOOM RESUME *1, 2	Remember the zoom ratio when turning power off.	
ECO ECONOMY	Restrict battery consumption when recording. (Dims LCD monitor, automatically shuts off monitor when not in use.) Monitor also shut off during flash battery charging. Status indicator is illuminated while monitor is off. To restore: Press any button.	

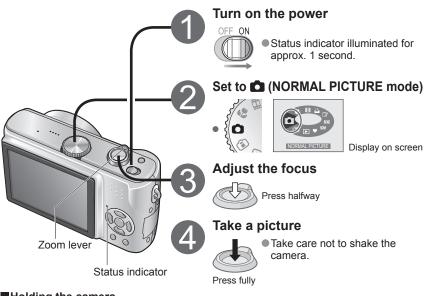
Make general camera settings such as adjusting the clock, extending the battery life, and changing the beep sounds. (Settings method → P.18) ■ Default setting outlined:		
 Settings also reflected in SIMPLE MODE ♥ (P.28). Settings also reflected in CLIPBOARD mode (P.58). DMC-TZ3 only. 		
Settings, notes		
Set the date/month/year and time (P.16).		
✓ (DESTINATION) / (HOME)		
-3 ·· ±0 ·· +3		
REC. INFO. (Recording information): OFF / ON HISTOGRAM: OFF / ON PATTERN: III / III / III / PATTERN' cannot be selected in CLIPBOARD mode (P.58). Recording information and histogram cannot be displayed. Not displayed in SIMPLE MODE.		
OFF / SET (P.48)		
OFF / ISEC. / 3SEC. / ZOOM*3 (displays for 1 second, then at 4x zoom for 1 second) In 'SELF PORTRAIT' scene mode (P.42), 'AUTO BRACKET' *3 (P.38), 'BURST' mode (P.54), or pictures with audio (P.53, 70), auto review performed regardless of setting. Motion pictures cannot be automatically reviewed.		
OFF / 1 MIN. / 2 MIN. / 5 MIN. / 10MIN. (Set time before POWER SAVE is initiated) ■ Cannot be used in the following cases: When using AC adaptor (DMW-AC5PP, sold separately), when connected to computer/ printer, during motion picture recording/playback, during slideshows (exception: set to 10 minutes while slideshow is paused and during 'MANUAL' slideshows) ■ Setting fixed to '2 MIN.' in 'ECONOMY', and to '5 MIN.' in SIMPLE MODE (P.28) and CLIPBOARD (P.58).		
OFF / ON Focus position cannot be stored. Released and cannot be set when using 'SELF PORTRAIT' scene mode.		
OFF / LEVEL 1 (turned off after approx. 15 seconds of inactivity)/LEVEL 2 (turned off after approx. 15 seconds, or approx. 5 seconds of inactivity after recording) ■ Cannot be used in the following cases: When using SIMPLE MODE, CLIPBOARD mode ,or AC adaptor (DMW-AC5PP, sold separately), when menu screen is displayed, when using self-timer setting or during motion picture recording. ■ LCD monitor not dimmed when using 'POWER LCD' or 'HIGH ANGLE' (P.34).		

Preparations 6 Y Using SETUP menu (Continued)

Item	Uses, operations	
■))) BEEP *1, 2	Change or mute beep sounds.	
▲ SHUTTER *1, 2	Change or mute shutter sounds.	
បៀរ) VOLUME *²	Adjust volume of sound from speakers (7 levels).	
NO. RESET *1	Reset image file numbers and start again from '0001'. File numbers and folder numbers (P.75)	
% R RESET *²	Reset SETUP menu (P.20) and REC menu items (P.50) to their default settings.	
→ VIDEO OUT	Change the video output format when connected to a TV, etc.	
	Change the aspect ratio when connected to a TV, etc (PLAYBACK mode only).	
SCN SCENE MENU	Display scene menu when mode dial is set to SCN1 or SCN2.	
O DIAL DISPLAY *1, 2	Display mode dial operation on screen.	
Q [□] LANGUAGE *1, 2	Change display language.	

Default setting outlined:		
 Settings also reflected in SIMPLE MODE ♥ (P.28). Settings also reflected in CLIPBOARD mode (P.58). 		
Settings, notes		
Volume: ལྷ४ (mute) / ፲ੑੑੑੑ1) (low) /ɪੑੑੑ1) (high) Tone: ◌ೂ / ৯❷ / ৯❷		
Volume: ♣X (mute) / ♣1 (low) / ♣1 (high) Tone: ▶0 / № / №		
O · · LEVEL3 · · LEVEL6 Cannot be used to adjust TV speaker volume when connected to TV.		
 ▼ES/NO Numbers cannot be reset once folder number reaches 999. In this case, save all necessary pictures to your computer, and format the built-in memory/card. (P.73) To reset folder number to 100: First, format (P.73) the built-in memory or card, and reset the file numbers using NO. RESET. Then, select 'YES' on the folder number reset screen. 		
RESET REC. SETTINGS? (YES/NO) RESET SETUP PARAMETERS? (YES/NO) Resetting SETUP parameters causes the following to be reset: Birthdays in BABY (P.42) and PET modes (P.44), 'TRAVEL DATE' (P.48), 'WORLD TIME' (P.49), 'ZOOM RESUME' (P.20), 'FAVORITE' in PLAY menu (set to 'OFF') (P.65), 'ROTATE DISP.' (set to 'ON') (P.66), CLIPBOARD menu (INITIAL DISP.) (set to 'ON') (P.60) (Only 'BEEP' is reset in the SIMPLE MODE menu.) Folder numbers and clock settings will not be reset.		
NTSC / PAL		
 16:9 / 4:3 When set to 16:9, pictures will be displayed vertically long on LCD monitor when connecting AV cable (supplied) (P.79). 		
OFF (use previously selected scene mode) / AUTO (displays scene menu) ■ To display scene menu when set to 'OFF': Press 'MENU/SET'.		
OFF / ON (display)		
ENGLISH / DEUTSCH (German) / FRANÇAIS (French) / ESPAÑOL (Spanish) / ITALIANO (Italian) / 中文* (Chinese) / 日本語 (Japanese) * Not displayed on DMC-TZ3P/DMC-TZ2P.		

Basics Taking pictures



■Holding the camera





Vertically



- Do not block the flash or the lamp (P.12). Do not look at them from close range.
- Do not touch the lens.
- Stand with your arms close to your body and with your legs apart.

■When (jitter alert) is displayed

Use the Optical image stabilizer (P.39), a tripod, or the self-timer (P.35).

■Focus range (To take pictures from close range→P.46)

When set to maximum W (1X): Distance of at least 50 cm (1.64 feet) from subject



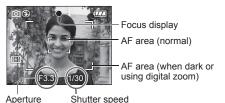
When set to maximum T (maximum zoom): Distance of at least 2 m (6.56 feet) from subject

■To use flash (P.36)

Please set the clock before taking pictures (P.16).

Adjusting the focus

Press the shutter button halfway, ensuring that the subject is aligned with the AF area.



In focus	Not in focus
On *	Flashing
Green	Red/white
Double beep	Multiple beep
	On * Green

^{*}Images outside of the focus range may not be in full focus even if the light remains on

(If red: Could not achieve optimal exposure → Use flash (P.36) or change 'SENSITIVITY' (P.51).)

Problems with adjusting focus (subject not in center, etc)



value









①First adjust focus according to subject

- ②Return to desired composition
- Readjust focus if not correctly adjusted initially. Subjects/environments which may make focusing difficult:
 - Fast-moving or extremely bright objects, or objects with no color contrast
 - Taking pictures through glass or near objects emitting light. In dark, or with significant iitter.
 - •When too close to object or when taking pictures of both distant and close objects together in the same picture

Checking remaining battery and memory capacity



Pictures remaining

Remaining battery



(Status indicator flashes when LCD monitor is off) Recharge or replace battery (P.14).

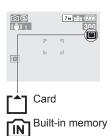
Not displayed when using AC adaptor (DMW-AC5PP. sold separately).

1

Taking pictures (Continued)

Picture save destination

Pictures will be saved to a card 🗂 if one is inserted, or to the built-in memory 🔃 if not.



When in operation

₽IN

are Illuminated red.

Card Built-in memory

This means that an operation is in progress, such as the recording, reading, or deleting of pictures. Do not turn off the power or remove the battery, card, or AC adaptor (DMW-AC5PP, sold separately) (this may cause damage to or loss of data).

- Pictures may be copied between cards and the built-in memory (P.73).
- It is recommended that you copy important pictures to your computer (as electromagnetic waves, static electricity, or faults may cause data to be damaged).

■ Cards

- Always format (P.73) cards in this camera before first use.
- If the switch on the card is set to 'LOCK', operations such as formatting, copying, and deleting cannot be performed.
- Compatible memory cards → (P.15)
 Recording picture/time capacity → (P.92)



■Built-in memory (approx. 12.7 MB)

- Used as a temporary save destination when you have no card.
- May take longer to access than cards.
- Clipboard pictures (P.58) are saved to built-in memory.

■Recording picture capacity estimates (default settings)

Save destination Built-in memory		memory card (Example)			
Save destination	12.7 MB	256 MB	512 MB	1 GB	2 GB
Pictures (DMC-TZ3)	2	68	135	270	550
Pictures (DMC-TZ2)	3	81	160	320	660

The number of pictures that may be recorded varies greatly according to aspect settings (P.51), picture size (P.52), and quality (P.53) settings, in addition to the capacity of the card. (For more details: P.92)

2

Taking pictures with zoom

Subjects can be enlarged by ten times with 'Optical zoom' and up to 15 (13.8*) times with 'Extended optical zoom'. 'Digital zoom' can then be used to multiply this effect by four times further. (28-280 mm: 35 mm film camera equivalent)

* DMC-TZ2

Enlarge (Tele)

Restore (Wide)



Turn to T side

Turn to W side



■Zoom types

Туре	Optical zoom	Extended optical zoom (EZ)	Digital zoom
Max. enlargement	10x	15x*1, 13.8x*2, 13x*1 12.6x*1, 12x, 11.6x*2	40x (including optical zoom: 10x) 60x (including extended optical zoom: 15x)
Picture quality	No loss	No loss	Deteriorates by factor of enlargement
Conditions	None	Select picture size (P.52) marked with	'D. ZOOM' (P.56) set to 'ON' in REC menu
Screen display	W	₹ displayed	Displays digital zoom area W Within digital zoom area AF area becomes larger when pressing shutter button halfway

^{*1} DMC-TZ3 only, *2 DMC-TZ2 only (Zoom ratio depends on ASPECT RATIO and PICT.SIZE.)

■What is Extended optical zoom (EZ)?

If, for example, set to '3M EZ' (equivalent to 3 million pixels), a picture will only be taken of a 3M-sized central part of a 7M (equivalent to 7.2 million pixels) *3 area, meaning that the picture can be enlarged further.

■Entering digital zoom area

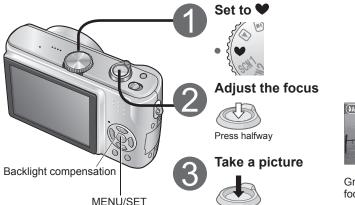
Once the bar stops before the digital zoom area, continue to hold the zoom lever, or release it once then push it again.



■To recall zoom ratio from time power was turned off → 'ZOOM RESUME' (P.20)

- The enlargement ratio displayed in the bar on screen is an estimate.
- Adjust the focus after adjusting the zoom.
- Do not block the lens barrel (P.12) movement while zooming.
- Zoom cannot be adjusted during motion picture recording.
- A greater degree of distortion may be generated by taking wider-angled pictures of close objects, while using more telescopic zoom may result in more coloring appearing around the outlines of objects.
- The camera may make a rattling noise and vibrate when the zoom lever is operated this
 is not a fault.
- When using extended optical zoom, zoom movement may stop momentarily near maximum W (1x), but this is not a fault.
- The Optical image stabilizer may be less effective when using digital zoom. It is recommended that you use a tripod and the self-timer (P.35).

Taking pictures with SIMPLE MODE





Green when focus aligned

●The settings for the following functions are ●The following functions cannot be used. fixed.

Item	Setting
SELFTIMER (P.35)	OFF/10 SEC.
POWER SAVE (P.20)	5 MIN.
STABILIZER (P.39)	MODE1
W.BALANCE (P.50)	AWB
SENSITIVITY (P.51)	(*1
METERING MODE (P.53)	(•)
AF MODE (P.54)	
AF ASSIST LAMP (P.56)	ON
COL.MODE (P.57)	STANDARD

^{*1} Same as with ISO LIMIT '800' setting in Intelligent ISO mode (P.46).

Item
BURST mode (P.54)
Digital zoom (P.27)
Exposure compensation/AUTO BRACKET *2 (P.38)
White balance fine adjustment (P.50)
AUDIO REC. (P.53)
CONT.AF (P.55)
ECONOMY (P.20)
HIGH ANGLE (P.34)
GUIDE LINE (P.33)

*2 DMC-TZ3 only

Backlight compensation (SIMPLE MODE only)

Press fully





- Prevents subjects being dark when background is light.
- To cancel compensation: Press ▲ again.
- Using flash (FORCED FLASH ON) is recommended (P.36)
- Adjust using 'EXPOSURE' (P.38), except for in SIMPLE MODE.
- Displayed when compensation is on.

This mode is designed for beginners to easily take pictures. Only major functions and menu items are displayed.

'SIMPLE MODE' menu

Use the menu to change settings such as picture quality and beep sounds.





Select desired item (Screen shows beep setting change) SIMPLE MODE PICT.MODE





Finish

	Default setting outlined:
Item	Setting
● PICT.MODE	 ■ ENLARGE (4:3, 7M*¹, Fine): for printing to 8"x10"size, letter size etc. ■ 4"x6"/10x15cm*² (3:2, 2.5M EZ, Standard): for printing regular sizes. ■ E-MAIL*² (4:3, 0.3M EZ, Standard): for attaching to emails or using in homepage.
AUTO REVIEW	OFF / ON: Displays picture for approx. 1 second after taking
● BEEP*8	
② CLOCK SET [®]	Change the date and time (P.16)

^{*1 6}M for DMC-TZ2 model. *2 Extended optical zoom (P.27) available.

Focus range

Max. W: Distance of at least 5 cm (0.16 feet) from subject



Max. T: Distance of at least 1 m (3.28 feet) from subject (TELT displayed) (2 m (6.56 feet) unless max. T)

Zoom lever-

- Flash can be set to 'AUTO/RED-EYE' or 'FORCED OFF' ('FORCED FLASH ON' or 'FORCED OFF' when using backlight compensation).
- Recording picture capacity (P.92)

^{*3} Settings changes reflected in other modes.

Viewing your pictures instantly (REVIEW)



While picture is FUNC

displayed

Select 'YES'

Display picture





- Most recently taken picture will be displayed for about 10 seconds.
- ■To close: Press ▼ or press the shutter button halfway.
- ■To view previous/next picture:

Enlarge picture (4x/8x)







Current zoom position (displayed for 1 sec.)

- Picture is enlarged as you turn zoom lever towards T.
- To reduce zoom: Turn lever towards W
- To move zoom position: ▲ ▼ ◀ ▶
- ■To display portrait pictures vertically (P.66)

Highlight 'YES' in orange

- ■To delete several or all
 - (P.32)

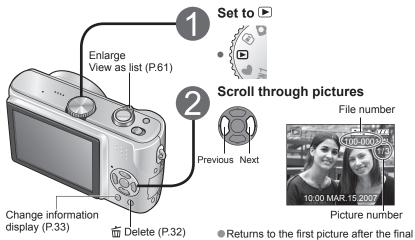
Note

- Deleted pictures cannot be recovered.
- Motion pictures cannot be reviewed in this way. View in PLAYBACK mode (P.62).

5

Viewing your pictures (Play)

When there is no card inserted, the pictures played back from the built-in memory. (Clipboard pictures can only be played back in CLIPBOARD mode (P.59).)



■To fast-forward (rewind)



Hold down until the desired picture number is displayed

- Holding down increases the picture scroll rate.
- Cannot be used when using 'REVIEW' (P.30) or 'Multi playback' (P.61).

■To enlarge (playback zoom)





Zoom ratio: 1x/2x/4x/8x/16x

picture.

- To reduce zoom: Turn lever towards W side
- Move zoom position: ▲ ▼ ◀ ►
- Enlarging picture will reduce display quality.

Current zoom position (displayed for 1 sec.)

- ■To playback as list (P.61)
- ■To display picture vertically (P.66)
- ■To print
 - Using own printer:
 - •Direct connection \rightarrow (P.76) •Connection via computer \rightarrow (P.74)
 - At photo shops → Give card to shop assistant.

6

Deleting pictures

Set to PLAYBACK mode . Pictures deleted will be from card if card is inserted, or from built-in memory if not. To delete clipboard pictures, set to CLIPBOARD mode .

■To delete 1 picture



While picture is displayed (P.31)





Select 'YES'





Highlight 'YES' in orange

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





2

Select type of deletion



Skip to step 6 if selecting 'ALL DELETE'

3 Seledelet

Select the pictures to delete (Repeat)



in Picture selected

■ To release: Press ▼ again

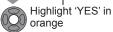






Select 'YES'





■To cancel ⇒

To cancel 'ALL DELETE' or 'ALL DELETE EXCEPT ★', press 'MENU/SET'.

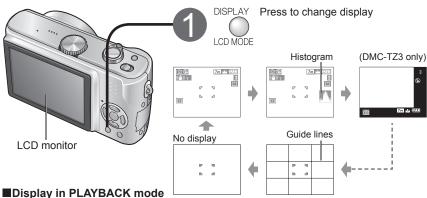
Note

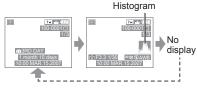
- Deleted pictures cannot be recovered.
- Do not turn off the power during deletion.
- Use a sufficiently charged battery or an AC adaptor (DMW-AC5PP, sold separately).
- When deleting all pictures from built-in memory, pictures actually deleted differ according to mode.
 - PLAYBACK mode ▶: All pictures in built-in memory, except clipboard picture If 'FAVORITE' (P.65) setting is 'ON', you can 'ALL DELETE EXCEPT ★ (FAVORITE)'. CLIPBOARD mode 👺: All clipboard pictures
- Pictures cannot be deleted in the following cases:
 - Protected pictures (P.69) (Release the protection before deleting)
 - Card switch is in 'LOCK' position.
 - Pictures not of DCF standard (P.90)
- May take time depending on number of pictures deleted.

Applications (Record)

Changing recording information display

Change between different LCD monitor displays, such as histograms.





■Histogram

Shows brightness of subject as graph, useful for exposure compensation (P.38), etc. (Display shown is an estimate.)

- Histogram from time of recording is displayed in orange if different to histogram in playback, for example when recording with flash or in dark locations.
- Histogram may differ between times of recording and playback, or from histograms made with image editing software.

■Guide lines

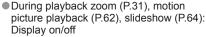
Reference for composition (e.g. balance) when recording.

GUIDE LINE' settings (P.20)



Note

- Display cannot be changed during menu (P.17) display.
- In SIMPLE MODE, display can only be turned on and off.
- Histograms cannot be displayed in SIMPLE MODE (P.28), MOTION PICTURE mode (P.47), or CLIPBOARD mode (P.58).



During multi playback, calendar playback (P.61), DUAL DISPLAY (DMC-TZ3 only) (P.64): Display cannot be changed

(Example)



OK





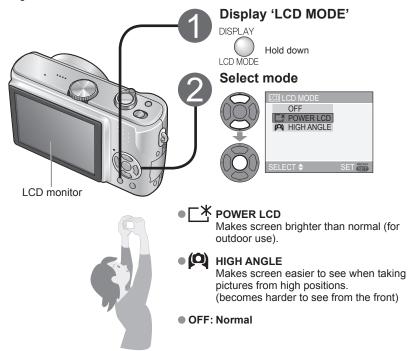
Bright

Applications (Record)

2

Making LCD monitor easier to see

Make it easier to see the LCD monitor when taking pictures from high positions or in bright outdoor conditions.



Note

- 'HIGH ANGLE' will be canceled when power is turned off (including POWER SAVE).
- Block out sunlight (with hand, etc) if reflection makes screen difficult to see.
- 'HIGH ANGLE' cannot be used in the following cases.

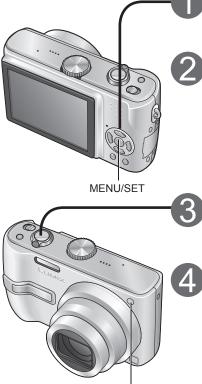
HIGH ANGLE

- SIMPLE MODE
- PLAYBACK mode
- PRINT mode
- During menu screen display
- While reviewing pictures
- 'POWER LCD' will be deactivated if no operations are performed for 30 seconds while recording. (Brightness can be restored by pressing any button)
- Brightness/color of screen in 'LCD MODE' has no effect on pictures recorded.

Applications (Record)

Taking pictures with self-timer

This is also effective for correcting jitter when pressing the shutter button, by setting the self timer to 2 seconds.

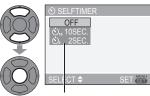


Self-timer indicator

Display 'SELFTIMER'



Select time duration



Displayed for approx. 5 sec.

■ Can also be selected with ◀.

Adjust focus



Focus will be automatically adjusted immediately before recording if shutter button is Press pressed fully here. halfway

Take a picture







- The self-timer indicator will flash, and the picture will be taken after the selected duration of time has elapsed.
- To cancel while in operation: Press 'MENU/SET'

Note

- This function cannot be used in the 'UNDERWATER' scene mode or in MOTION. PICTURE mode H.
- In some modes, only '2SEC.' or only '10SEC.' may be selected. SIMPLE MODE: '10SEC.' CLIPBOARD mode. SCENE mode 'SELF PORTRAIT': '2SEC.'

4

Taking pictures with flash



 Do not cover with hand. Do not look at from close range (few cm).

 Do not bring objects close (heat and light may damage object).

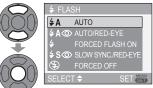
1

Display 'FLASH'



2

Select the desired type



Displayed for approx. 5 sec.

■Can also be selected with ►.

■Types

Type, operations	Uses
AUTO Automatic ON/OFF	Normal use
	Taking pictures of subjects in dark places
FORCED FLASH ON Always on FORCED FLASH ON/RED-EYE reduction (For 'PARTY' and 'CANDLE LIGHT' scene modes only (P.42)) Always on Reduces red-eye	Taking pictures with backlight or under bright lighting (e.g. fluorescent)
	Taking pictures of subjects against a nightscape (tripod recommended)
FORCED OFF Always off	Places where flash use is prohibited

• Two flashes are emitted when using red-eye reduction. Do not move until the second flash is over. Effects may vary depending on the person.

Shutter speeds are as follows:

≱A , **≱A** , **≱** , **≱** ∴ : 1/30-1/2000th

\$50, (2): 1/8 (changed by SLOW SHUTTER setting (P.56)) -1/2000th

Available types vary depending on the mode in use.

■ Available types in each mode (②: default setting)

	_	-	4	(a)	[T]		SCENE MODE											
				•		Ð	:•		飒	*.	TO1	Y	ŶŶ	桑	93	25_	38.	4
≱ A	0	_	0	0	0	0	0	0	0	_	0	_	_	_	0	_	0	0
\$A⊚	0	0*	0	0	_	0	0	0	_	_	_	_	-	0	_	_	_	_
\$	0	-*	0	0	0	0	0	0	0	_	0	_	_	0	0	0	0	0
\$ @	_	_	_	_	_	_	_	_	_	_	_	0	0	_	_	_	_	_
∳S ⊚	0	_	0	0	_	_	_	_		0	_	0	0	_	_	_	_	_
(3)	0	0*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- Cannot be used with MOTION PICTURE mode
 ☐ and scene modes
 ☐.
 ※ ※ . ※ . ※ .
- Flash settings may be changed when changing recording mode.
- Scene mode flash settings are restored to default when scene mode is changed.
- *Only or may be selected when using backlight compensation (P.28).

■Focus range according to ISO sensitivity ('SENSITIVITY') (P.51) and zoom (P.27).

AUTO	Max. W: Approx. 0.6-4.2 m (1.97-13.8 feet) Max. T: Approx. 1.0-2.8 m (3.28-9.19 feet)
ISO100	Max. W: Approx. 0.6-1.6 m (1.97-5.25 feet) Max. T: Approx. 1.0-1.1 m (3.28-3.61 feet)
ISO200	Max. W: Approx. 0.6-2.3 m (1.97-7.55 feet) Max. T: Approx. 1.0-1.5 m (3.28-4.92 feet)
ISO400	Max. W: Approx. 0.6-3.3 m (1.97-10.8 feet) Max. T: Approx. 1.0-2.2 m (3.28-7.22 feet)
ISO800	Max. W: Approx. 0.8-4.7 m (2.62-15.4 feet) Max. T: Approx. 1.0-3.1 m (3.28-10.2 feet)
ISO1250	Max. W: Approx. 1.0-4.7 m (3.28-15.4 feet) Max. T: Approx. 1.0-3.1 m (3.28-10.2 feet)

- Edges of picture may become slightly dark if using flash at short distances without using zoom (close to max. W). This may be remedied by using a little zoom.
- ■Maximum ISO sensitivity ('ISO LIMIT') (P.51) and focus range when using Intelligent ISO (P.46).

ISO400 Max. W: Approx. 0.6-3.3 m (1.97-10.8 feet) Max. T: Approx. 1.0-2.2 m (3.28-7.22 feet)
ISO800/ISO1250 Max. W: Approx. 0.6-4.2 m (1.97-13.8 feet) Max. T: Approx. 1.0-2.8 m (3.28-9.19 feet)

Note

- If flash is to be emitted, flash type marks (e.g. §A) will turn red when shutter button is pressed halfway.
- No pictures may be taken if these marks (e.g. ♣A) are flashing (flash is charging).
- Insufficient flash reach may be due to inadequately set exposure or white balance.
- Flash effect may not be fully achieved with high shutter speeds.
- Flash charging may take time if battery is low, or if using flash repeatedly.
- When using ECONOMY (P.20), LCD monitor is shut off while flash is charging.

Applications (Record)

Taking pictures with exposure compensation

Corrects exposure when adequate exposure cannot be obtained (if difference between brightness of object and background, etc). Depending on the brightness, this may not be possible in some cases.



Display 'EXPOSURE'





Select a value



'0' (no compensation)



The compensation value is displayed on the bottom-left of the screen. (FZ+1/3, etc)

Example of exposure compensation



Over-exposed

Minus direction



Optimum exposure

Plus direction



Under-exposed

■AUTO BRACKET (DMC-TZ3 only)

Takes 3 pictures in succession, changing the exposure. After exposure compensation, the compensation value is as standard.



Display 'AUTO BRACKET'



Press several times



Select a value



'0' (no compensation)



Value displayed after exposure compensation set

e.g. AUTO BRACKET with ±1EV



First picture 0EV (Standard)



Second picture -1FV (Darker)



Third picture +1EV (Brighter)

- Cannot be used with flash or when there is remaining capacity for only 2 more pictures.
- •When 'AUTO BRACKET' is set, I is displayed on the left of the screen.
- Canceled when the power is turned off.

Applications (Record)



Optical image stabilizer

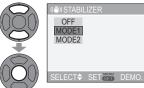
Automatically detects and prevents jitter.

Settings cannot be changed in SIMPLE MODE (P.28) or in 'SELF PORTRAIT' (P.42) and 'STARRY SKY' (P.44) scene modes.





Select mode



 Cases where optical image stabilizer may be ineffective:

- Heavy jitter
- •High zoom ratio (digital zoom: P.27)
- Fast-moving objects
- Indoors or in dark locations (due to low shutter speed)

MODE1: Constant correction

((地)) 1 (Monitor image stable, composition

easy to determine)

MODE2: Correction at moment shutter ((4))2

button is pressed

(More effective than MODE1) OFF: Pictures deliberately taken with no

itter correction

■To view jitter/movement detection demo screen

Extent of jitter and of subject movement are shown on graph. (Estimate)

(Press again to close)



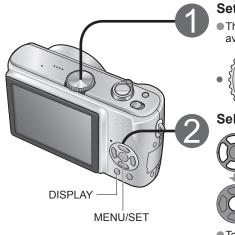
((W)) OFF

Movement detection

- Recording and zoom cannot be performed during demo.
- Automatic ISO sensitivity settings based on movement detection are only effective when using Intelligent ISO (a) (P.46) and the 'SPORTS' (P.42), 'BABY' (P.42). and 'PET' (P.44) scene modes.
- Use the movement detection demo with objects with contrasting coloring.

Applications (Record)

Taking pictures according to the scene



Set to 'SCN1' or 'SCN2'

 The same selection of 20 scenes is available for each



Select scene



Page 1 of 2 currently displayed

To see description of each scene: Select scene, and press 'DISPLAY'.

■SCN1 and SCN2

When using SCENE MODE, the camera remembers the previously selected scene. For example, if SCN1 is set to 'NIGHT SCENERY' and SCN2 is set to 'NIGHT PORTRAIT', you can easily switch between settings depending on whether or not there will be people in the picture.

- To enable pictures to be taken immediately (no automatic SCENE MENU display)
 - ① Display SETUP menu (P.18)
 - 2 Select 'SCENE MENU' (P.22) and set it to 'OFF'.
- To display scene menu: Press 'MENU/SET'

Note

- Selecting a scene mode inappropriate for the actual scene may affect the coloring of your picture.
- Brightness may be adjusted using 'EXPOSURE' (P.38) (except in 'STARRY SKY' mode).
- Detailed settings can be made in REC menu (P.50).
 (Except in 'SENSITIVITY', 'METERING MODE', and 'COL. MODE')
 Certain settings cannot be made for some scenes.
- 'W. BALANCE' can be set to the following.
 'PORTRAIT', 'SOFT SKIN', 'SELF PORTRAIT', 'SPORTS', 'BABY', 'PET', 'HIGH SENS.'
 (Setting is restored to 'AWB' when scene is changed.)
- The types of flash available (P.36) vary according to the scene. The scene mode flash setting is reset to the initial setting when the scene mode is changed.
- Guidelines displayed in grey in 'NIGHT PORTRAIT', 'NIGHT SCENERY', 'STARRY SKY', and 'FIREWORKS' scene modes.

Using SCENE MODE enables you to take pictures with optimum settings (exposure, coloring, etc) for given scenes.

Scene types









SELF PORTRAIT



SCENERY



SPORTS



NIGHT PORTRAIT



NIGHT SCENERY



FOOD



PARTY



ଫ CANDLE LIGHT

BABY





ST PET



SUNSET



HIGH SENS.



STARRY SKY



FIREWORKS







SNOW



AERIAL PHOTO



UNDERWATER



Functions, tips for each scene (P.42-45)

Applications (Record)

Taking pictures according to the scene (Continued)

6	Here from tions
Scene	Uses, functions
PORTRAIT	Improves the skin tone of subjects for a healthier appearance in bright daylight conditions.
SOFT SKIN	Smooths skin colors in bright, outdoor daylight conditions (portraits from chest upwards). Clarity of effect may vary depending on brightness.
SELF PORTRAIT	Take pictures of yourself. ● Press shutter button halfway → self-timer indicator illuminates → press shutter button fully → review (if self-timer indicator flashes, focus is not correctly aligned) ■ To take pictures with audio (P.53) (self-timer indicator illuminated during recording)
SCENERY	Take clear pictures of wide, distant subjects.
SPORTS	Take pictures of scenes with fast movement, e.g. sports.
NIGHT PORTRAIT	Take pictures of people and nightscapes with close to actual brightness. Interference may be noticeable with dark scenes. Shutter may remain closed for 1 second after taking picture.
NIGHT SCENERY	Take clear pictures of night scenes. ■Interference may be noticeable with dark scenes. ■Shutter may remain closed for up to 8 seconds after taking picture.
FOOD	Take natural-looking pictures of food.
PARTY	Brighten subjects and background in pictures of indoor events, such as weddings.
單 CANDLE LIGHT	Bring out the atmosphere of a candlelit room.
BABY (Continued)	Uses weak flash to bring out skin colors. To record age: BIRTHDAY SET: Select 'WITH AGE', and press 'MENU/SET'. ①Select 'BIRTHDAY SET.'. ②Set birthday with ▲▼ ▼▶, and press 'MENU/SET'. ('BABY1' and 'BABY2' can be set separately.)

Using flash in scene modes (P.37)

Tips, notes	Main fixed settings
Stand as close as possible to object.Zoom: As telescopic as possible (T side)	SENSITIVITY: ISO100
Stand as close as possible to object.Zoom: As telescopic as possible (T side)	SENSITIVITY: ISO100
● Focus: 30-70 cm (0.98-2.30 feet) (Max. W) ● Do not use zoom (harder to focus). (Zoom moved to max. W automatically) ●2-second self-timer (P.35) recommended.	STABILIZER: MODE2 AF MODE: 1 9 areas AF ASSIST LAMP: OFF SELFTIMER: OFF/2SEC. ZOOM RESUME: OFF
Stand at least 5 m (16.4 feet) away.	FLASH: (3) FORCED OFF AF ASSIST LAMP: OFF
Stand at least 5 m (16.4 feet) away.	SENSITIVITY: ISO LIMIT: ISO800 (Same as Intelligent ISO mode (a) (P.46)) SLOW SHUTTER: Cannot be set Digital zoom: Cannot be set
 Subject should not move for at least 1 second. Use flash. Tripod, self-timer recommended. Stand 1.2-5 m (3.94-16.4 feet) (Max. W (wideangle), 1.5 m (4.92 feet) recommended) away. 	CONT.AF: OFF
● Stand at least 5 m (16.4 feet) away. ● Do not move for 8 seconds. (Shutter speed: max. 8 sec) ● Tripod, self-timer recommended	FLASH: FORCED OFF CONT.AF: OFF/AF ASSIST LAMP: OFF SENSITIVITY: ISO100 SLOW SHUTTER: Cannot be set
●Focus: Max. W: 5 cm (0.16 feet) and above Max. T: 1 m (3.28 feet) and above	_
 Stand approx. 1.5 m (4.92 feet) away. Zoom: Wide (W side) Use flash. Tripod, self-timer recommended. 	_
● Focus: Max. W: 5 cm (0.16 feet) and above Max. T: 1 m (3.28 feet) and above ● Do not use flash. ● Tripod, self-timer recommended.	_
 Focus: Max. W: 5 cm (0.16 feet) and above Max. T: 1 m (3.28 feet) and above Age will be displayed for approx. 5 seconds after setting this mode. Age display format depends on LANGUAGE setting. 	SENSITIVITY: ISO LIMIT: ISO400 (Same as Intelligent ISO mode '(1)' (P.46)) Digital zoom: Cannot be set

Applications (Record)

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Taking pictures according to the scene (Continued)

Scene	Uses, functions		
BABY	 Date of birth will be displayed as '0 month 0 day'. To reset: Select 'RESET' from SETUP menu (P.22). 		
₹ PET	Record pet's age when taking pictures. Settings method same as for 'BABY' (P.42-45).		
SUNSET	Take clear pictures of scenes such as sunsets.		
HIGH SENS.	Prevents blurring of subject in dark, indoor conditions. Pictures may appear slightly grainy due to high sensitivity.		
	Take clear pictures of starry skies or dark subjects. Shutter speed settings		
STARRY SKY	① Select with ▲ ▼, and press ② Press shutter button. 'MENU/SET'.		
STARRY SRY	Set longer shutter speeds for darker conditions. Set longer shutter speeds for darker conditions.		
FIREWORKS	Take clear pictures of fireworks in the night sky. Shutter speed can be set to 1/4 second or 2 seconds (if little jitter or if optical image stabilizer is 'OFF'). (when not using exposure compensation)		
₹ BEACH	Bring out the clear blues of the sky and the sea without darkening subject.		
3 SNOW	Bring out the natural color of the snow in ski slope and mountain scenes.		
AERIAL PHOTO	Take pictures of the view from aircraft windows.		
UNDERWATER	Achieve natural colors under water. Always use marine case (DMW-MCTZ3, sold separately). AF LOCK (focus fixed)		

Using flash in scene modes (P.37)

Tips, notes	Main fixed settings
 Age cannot be added after recording. Age may be printed from a computer using the supplied software (P.11). Age can be stamped onto picture using 'DATE STAMP' (P.66). 	(P.43)
AF ASSIST LAMP default setting is 'OFF'.Others same as 'BABY' (P.42-45)	Same as for 'BABY' (P.43)
_	FLASH: FORCED OFF AF ASSIST LAMP: OFF SENSITIVITY: ISO100
●Focus: Max. W: 5 cm (0.16 feet) and above Max. T: 1 m (3.28 feet) and above	FLASH: FORCED OFF SENSITIVITY: ISO3200 Extended optical zoom and digital zoom cannot be used.
 Always use a tripod. Self-timer recommended. Do not move the camera until countdown has ended. To change shutter speed, press 'MENU/SET', then ▶, and select 'STARRY SKY'. 'EXPOSURE', 'AUTO BRACKET' (DMC-TZ3 only), and 'BURST' cannot be used. 	FLASH: FORCED OFF AUDIO REC.: OFF CONT.AF: OFF STABILIZER: OFF SENSITIVITY: ISO100 SLOW SHUTTER: Cannot be set
●Stand at least 10 m (32.8 feet) away. ●Tripod recommended.	FLASH: TOP FORCED OFF SENSITIVITY: ISO100 CONT.AF: OFF/ AF ASSIST LAMP: OFF
Beware of sand and sea water.	_
Battery life is reduced in lower air temperatures.	_
 Angle the camera towards areas of contrasting colors when aligning the focus. Check that the interior of the aircraft is not reflected in the window. 	FLASH: FORCED OFF AF ASSIST LAMP: OFF
 For fast moving subjects, align with the AF area and press ◀ (AF lock). Press ◀ again to release. Adjust red and blue levels with 'white balance fine adjustment' (P.50). Focus: Max. W: 5 cm (0.16 feet) and above Max. T: 1 m (3.28 feet) and above 	Self-timer: Cannot be used

Applications (Record)

Avoiding subject / blurring (Intelligent ISO)

/ Taking close-up pictures (MACRO mode)

Avoiding subject blurring in darker conditions or with fastmoving subjects

Detects movement of the subject and sets the optimum ISO sensitivity and shutter speed according to the brightness.



Set to 👔



■For moving subjects indoors... sensitivity and shutter speed raised to avoid subject blurring.





Take a picture (P.24)

For stationary subjects indoors... sensitivity lowered to avoid interference.



- The maximum level for ISO sensitivity can also be set (P.51, 'ISO LIMIT'). If the maximum level is set to '800' or '1250', this will be reduced to '640' when using the flash.
- Subject movement may not be detected if subject is too small, is at the edge of the screen, or starts to move at the same time as the shutter. (when button is pressed fully).
- Blurring may occur depending on the brightness and movement speed. • 'D.ZOOM' (P.27) and 'SLOW SHUTTER' (P.56) cannot be used.
- ■Focus range in

Intelligent ISO mode, MACRO mode

Max. W: Distance of at w least 5 cm (0.16 feet) from subject



Max. T: Distance of at least 1 m (3.28 feet) from subject (TELE \ displayed) (2 m (6.56 feet) unless max. T)

Taking close-up pictures of flowers, etc



Set to 🖫



Take a picture (P.24)

- We recommend using a tripod, the self-timer (P.35), and flash 'FORCED OFF' (P.36).
- Moving the camera after aligning the focus is likely to result in poorly focused pictures if subject is close to camera, due to margin for focus alignment being severely reduced.
- Resolution may be reduced around the edges of the picture.
- Taking close-up pictures from more distant locations (Tele Macro function) Zoom to max. T to take close-up pictures of flowers at foot-level, or animals that you cannot approach, from distances of at least 1 m (3.28 feet). Align focus after zooming by pressing shutter halfway. Using tripod is recommended as jitter occurs easily.

Applications (Record)

9

Taking motion pictures

Record motion pictures and sound (motion pictures cannot be recorded without sound).



Set to ⊞

Start recording



Press fully

Available recording time (approx.)



Elapsed time (approx.)

■Estimated recording time



Note

- Zoom and CONT.AF (P.55) functions cannot be used during movie recording.
- Not compatible with MultiMediaCards.
- STABILIZER 'MODE2' cannot be used.
- Focus range is 5 cm (0.16 feet) and above for max. W/1 m (3.28 feet) and above for max. T. (2 m (6.56 feet) unless max. T)
- Focus, zoom, and a perture value are fixed from the onset of recording.
- A maximum of approx. 2 GB can be recorded in any one session. To continue recording, press the shutter button again. Available recording time is calculated on a 2 GB basis (estimated).
- Recording may be terminated midway, depending on card type.

Finish



 Ends automatically if memory is full.

Press fully

■Aspect and picture quality

Set 'ASPECT RATIO' (P.51) before 'PICT.MODE' (P.52).

ASPECT	PICT.MODE	Picture size	Frames/sec
	30fps VGA*	640×480	30/sec
	10fps VGA	040^460	10/sec
4:3	30fps QVGA		30/sec
	10fps QVGA (For e-mail attachments)	320×240	10/sec
16:9	30fps 16:9*	848×480	30/sec
10.9	10fps 16:9	040^400	10/sec

'30fps': for smooth picture movement '10fps': for longer motion pictures

- * We recommend using a card of at least 10MB/s (as marked on its packaging, etc).
- Only QVGA-format motion pictures can be recorded to the built-in memory.

Useful features for travel

(TRAVEL DATE, WORLD TIME)

Recording holiday duration (TRAVEL DATE)

Select 'TRAVEL DATE' from SETUP menu (P.18, 20)

Select 'SET'



Set departure date



Set return date



Exit without entering if you do not wish to set a return date.

Recording



Displayed for approx. 5 sec when switching from PLAYBACK to recording mode

Playback



Days elapsed

Note

- To stop date recording, select 'OFF' in step 2.
- When destination is set in 'WORLD TIME' (see right), days elapsed are calculated based on local destination time.
- If settings are made before holiday, number of days to departure are displayed in orange with a minus sign (but not recorded).
- When TRAVEL DATE is displayed in white with a minus sign, the 'HOME' date is one day in advance of the 'DESTINATION' date (this is recorded).
- To print number of elapsed days:
 - Activate 'DATE STAMP' (P.66) before printing.
 - Use the supplied software (P.11).

Record holiday day number or local time at overseas destination. Can be displayed during playback or stamped onto picture. (P.66)

Clock must be set in advance (P.16).

Registering local time at your overseas destination (WORLD TIME)



Select 'WORLD TIME' from SETUP menu (P.18,20)



 'PLEASE SET THE HOME AREA' will be displayed when setting for the first time. In this case, press 'MENU/SET' and skip to step .



Select 'HOME'





Set your home area





Current time

City/area name

Difference with GMT (Greenwich Mean Time)

■ If setting for second (or later) time, press ▶.



Select 'DESTINATION'



 Area settings can be aborted by pressing in steps or 5.

5

Set destination area



Current time at selected destination

City/area name

Difference with home time

 If actual destination is unavailable, select based on 'difference with home time'.



Finish





■To set/release summer time ※◎



To set, go through steps **3**, **5**. (Press again to release)

- ■Upon your return → Go through steps ①, ②, ⑥ , and press 'MENU/SET' to finish.
 - Clock settings (P.16) will not be changed even if home summer time is set.
 - Pictures recorded when set to destination will be displayed with in PLAYBACK mode.

Applications (Record)

Using REC menu

	REC	1/3
0	WB W.BALANCE	▶ AWB
5	SENSITIVITY	AUTO
Y	■ ASPECT RATIO	4:3
	■ PICT.SIZE	7м
	# QUALITY	:1:
	ELECT <\$>	XIT 🟐

- REC menu settings (P.18)
- Default setting outlined:
- 'Quick setting' (P.57) is useful to easily call up frequently-used menus.

WB W.BALANCE

The same color may appear more blue or more red depending on the light source (sun, lamps, etc). Colors can be adjusted to their natural appearance by adjusting the white balance.

- ■Applicable modes: 🗖 🗈 👺 SCN1 SCN2 🖽
- ■Settings: AWB (automatic) / ☆ (outdoor, clear sky) / ♣ (outdoor, cloudy sky) / A (outdoor, shade) / -O- (incandescent lighting) / I (uses value set in SET) / SET (set manually)

'AWB' operational range: ('AWB' sets the optimum white balance automatically.)

- 10000K Blue sky 9000K 8000K Cloudy sky (rain) 7000K Shade TV screen 6000K Sunlight 5000K White fluorescent lighting 4000K 3000K Incandescent lighting 2000K Sunset/sunrise 1000K Candlelight
- 'AWB' may not function normally in certain conditions, such as under red (e.g. candlelight). blue (e.g. TV screen), or a mixture of light sources, or with an absence of any color close to white
- ■We recommend setting to 'AWB' or '■SET' when under fluorescent lighting.

■ Setting white balance manually (► SET)

①Select

SET and press 'MENU/SET'.

- ②Point the camera towards a white object (e.g. paper) and press 'MENU/SET'
- ③Press 'MFNU/SFT' twice

(Or press shutter button halfway.)

- Making this setting will reset white balance fine adjustment (see below).
- ■White balance fine adjustment (excluding 'AWB')
 - ①Press ▲ several times until 'WB ADJUST.' is displayed.
 - ②Adjust with ▶ if reds are strong, adjust with ◄ if blues are strong.
 - ③Press 'MENU/SET' (or press shutter button halfway).

Only takes image of white objects within frame (step 2)



Changes to red (blue) when making fine adjustment



Detailed settings can be made for recording, such as coloring, sensitivity, aspect ratio, and picture size.

Items vary depending on mode.

- ●'芷', '♣', '♠', '凉', and '墨' can be adjusted independently.
- Settings are remembered even if power is turned off.
- Settings remain applied when using flash photography.
- Even though the 'AWB' setting is fixed in 'UNDERWATER' scene mode (P.44), fine adjustments may still be made.
- Fine adjustments cannot be made when 'COL.MODE' (P.57) is set to 'COOL', 'WARM', 'B/W', or 'SEPIA'.

ISO SENSITIVITY

Set sensitivity to lighting. We recommend higher settings to take clear pictures in darker locations.

■Applicable modes: 🗖 🗈 🗳

- ■Settings: AUTO (automatic) /100 / 200 / 400 / 800 / 1250 (if (a) mode: 'ISO LIMIT' 400 / 800 / 1250)
 - AUTO: Automatically set with range up to 200 (640 when using flash) according to brightness.
 - Maximum ISO sensitivity ('ISO LIMIT') can be set when using (1) mode.
 - Setting guide

otang galas						
SENSITIVITY	100 - 1250					
Location (recommended)	Bright ← Dark Outdoors)					
Shutter speed	Slow ← Fast					
Interference	Low ← High					

ASPECT RATIO

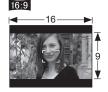
Aspect ratio of picture can be changed according to printing or playback format.



Same as 4:3 TV or computer



Same as normal film camera



For playback on widescreen/high definition TV

Edges may be cut off when printing – be sure to check in advance (P.88).



⊕ PICT.MODE

Set picture quality for motion pictures (P.47).

■Applicable modes: ⊞

■Settings:

Aspect ratio 4:3 : 30fps VGA / 10fps VGA / 30fps QVGA / 10fps QVGA

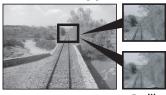
(P.51) 6:9 : 30fps 16:9 / 10fps 16:9

• '30fps': smoother movement; '10fps': longer recording time

PICT.SIZE

Set size of picture. Number of pictures which can be recorded depends on this setting and on 'QUALITY' (see right). (P.92)

Picture size setting guide



Larger picture size = Crisper picture (lower recording capacity)

Smaller picture size = Coarser picture (higher recording capacity)

■Applicable modes: 🗖 🗈 🚏 SCN1 SCN2

■Settings:

ASPECT RATIO	Picture size					
4:3	7M *¹ 3072 x 2304	5M 12 ≈ 2560 x 1920	3M 2 2048 x 1536			
4:3	2M 🖸 1600 x 1200	1M 1 1280 x 960	0.3M 2 640 x 480			
3:2	7M ^{∗3} 3216 x 2144	4.5M 2 2560 x 1712	2.5M 2 2048 x 1360			
16:9	6M *4 3328 x 1872	3.5M 2 2560 x 1440	2M 1 920 x 1080			

Picture sizes for DMC-TZ2 model are as follows.

*1:6M (2816 x 2112) *2: None *3:6M (2976 x 1984) *4:5.5M (3072 x 1728)

Extended optical zoom (P.27) can be used for picture sizes indicated with

■ is not displayed in the 'HIGH SENS.' scene mode (P.44) (as extended optical zoom cannot be used).

• Mosaic effect may appear depending on subject and recording conditions.

QUALITY

Set compression ratio for saving. Number of pictures which can be recorded depends on this setting and on 'PICT.SIZE' (see left). (P.92)

■Settings:

: Fine (priority to picture quality)

: Standard (increases recording capacity by limiting standard picture size and picture quality)

AUDIO REC.

Sounds can also be recorded with pictures. This is useful for conversation or memo recording.

■Settings:

OFF : No sound recording

ON: Record approx. 5 seconds of sound (displayed on screen)

To cancel recording: Press 'MENU/SET'.

- Cannot be used with 'BURST' (P.54), 'STARRY SKY' (P.44) and 'AUTO BRACKET' (P.38, DMC-TZ3 only).
- DATE STAMP', 'RESIZE', 'TRIMMING', and 'ASPECT CONV.' cannot be used with pictures with audio.
- Settings also reflected in 'AUDIO REC.' (P.60) in REC ON CLIPBOARD menu.

METERING MODE

Method of measuring exposure (P.38) can be changed.

■Applicable modes: 🗖 🗈 🕏 🖽

■Settings:

(Multiple: Measures brightness of whole screen. Normally recommended)

(Center weighted: Measures entire picture evenly, with focus on center of screen)

: (Spot: Measures subject within spot metering target)

Spot metering target



AF AF MODE

Method of aligning focus can be changed according to position and number of subjects.

- ■Applicable modes: SCN1 SCN2 SCN1 SCN2
- Settings: I / I / I / I / I / I High-speed focus)
 - Subject not in center of picture (AF area displayed after focuses completely aligned)

9-area-focusing



Automatically focuses on any of 9 points



Automatically focuses on either side or center

AF area

AF area Determined position for focus

■H 1-area-focusing (High speed) 1-area-focusing



Focuses on AF area in center of picture. (Recommended for when focus is difficult to align)





Focuses on smaller. limited area.

Spot AF area.

AF area

- ■When using === H or == H, picture may freeze momentarily before focus is aligned.
- AF area becomes larger in dark locations or when using digital zoom, etc.



- AF area

■Use ■ H or ■ if focus is difficult to align with ●.

□ BURST

Enables a rapid succession of photographs to be taken. Succession of photographs taken while shutter button is held down.

■Applicable modes: SCN1 SCN2

■Settings:

	•	_
BURST setting	Speed *1	No. of pictures *2
OFF	N	o burst
(High speed)*3	3 pictures/sec	Fine: Max. 5
Low speed)*3	2 pictures/sec	Standard: Max. 7
*3, *4 (Free)	Approx. 2 pictures/sec *5	Until card/built-in memory is full

- *1: Depends on shutter speed and 'SENSITIVITY' settings.
- *2: When using self-timer: Fixed at 3 pictures
- *3: DMC-TZ3 only. *4: DMC-TZ2 only.
- *5: DMC-TZ3: Becomes progressively slower. (Delayed timing depends on card type, picture size, and QUALITY.)
 - DMC-TZ2: Depends on type of card, 'PICT.SIZE' (P.52), and 'QUALITY' (P.53).
- Burst speed may be reduced if using SENSITIVITY (P.51) of 'ISO400' or greater, or if shutter speed is reduced in darker locations.
- This feature cannot be used with the flash (flash mark turns red, P.36) or with 'AUTO BRACKET' (P.38, DMC-TZ3 only).
- Settings will be stored even if power is turned off.
- Focus is fixed from first picture.
- Exposure and white balance are set as follows:
 - •DMC-TZ3
 - High speed: Setting fixed from first picture.

Low speed, Free: Reset for each picture.

•DMC-TZ2

Reset for each picture.

- When using BURST while following a moving subject in locations with major differences in brightness (e.g. indoor to outdoor), exposure stabilization may require a little time, and optimal exposure may not be achieved.
- Auto review performed regardless of 'AUTO REVIEW' setting.

C-AF CONT.AF

Focus is continually adjusted according to movement of subject. (Increases battery consumption)

■Applicable modes: SCN1 SCN2 SCN1 SCN2

■Settings:

OFF: Not set ON: Set (CAF displayed on screen)

- Focus alignment may take time if zoom is suddenly changed from max. W to max. T, or if suddenly moving closer to subject.
- Press shutter button halfway if focus is difficult to align.
- When using H, I, or AF mode', focus will be aligned quickly when shutter button is pressed halfway.
- Focus is not re-adjusted during motion picture recording.



AF* AF ASSIST LAMP

Illuminates lamp when dark to facilitate focus alignment.

■Applicable modes: 🗖 🗈 🕏 SCN1 SCN2 🖽

■Settings:

OFF: Lamp off (taking pictures of animals in dark, etc)

ON: Lamp illuminated with halfway press of shutter button

(AF* and larger AF area displayed)



- Do not cover or look at lamp from close range
- Fixed to 'ON' when using SIMPLE MODE .
- Effective distance: 1.5 m (4.92 feet)

- Lamp

SLOW SHUTTER

Shutter speed can be reduced further to take bright pictures in dark locations.

■Applicable modes: SCN1 SCN2

- Settings: 1/8- (normally recommended) / 1/4- / 1/2- / 1-
 - Slower shutter speeds allow for brighter pictures but increase risk of jitter, so we recommend using a tripod and the self-timer (P.35).
 - Can be used with NIGHT PORTRAIT (P.42) to brighten both night scene and subjects.
 - multiplication displayed on screen for settings other than '1/8-'.

D.ZOOM

Multiplies effect of optical zoom or extended optical zoom by up to 4 times. (P.27).

■Settings: OFF : (Do not use) / ON: (Use)

• This cannot be set when using SIMPLE MODE ♥, Intelligent ISO mode ②, or the 'SPORTS', 'BABY', 'PET', or 'HIGH SENS.' scene modes.

⊘ COL. MODE

Set color effects.

■Applicable modes: 🗖 🗈 🛱

- ■Settings: STANDARD / NATURAL (soft) / VIVID (sharp) / COOL (more blue) / WARM (more red) / B/W / SEPIA
 - If interference is noticeable in dark locations: Set to 'NATURAL'.
 - MOTION PICTURE mode: 'NATURAL' and 'VIVID' cannot be selected.
 - White balance fine adjustment cannot be used when using 'COOL', 'WARM', 'B/W', or 'SEPIA'.
 - Settings for still pictures and motion pictures are made separately.

OCLOCK SET

Set the clock. Same function as that in SETUP menu (P.16).

Quick setting

The following items can be quickly called up from REC menu. Items vary depending on mode.

- BURST (P.54) W.BALANCE (P.50) (excluding SET) SENSITIVITY (P.51)
- ASPECT RATIO (P.51) PICT. SIZE (P.52) QUALITY (P.53)
- Set to one from ' Set to one f
- Display 'Quick setting'





Quick setting

Select item





Select setting

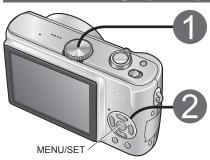






Taking/viewing clipboard pictures (CLIPBOARD)

Taking clipboard pictures (clipboard recording)



- Functions unavailable:
 BURST, D.ZOOM, AUTO
 BRACKET(DMC-TZ3 only), WB
 ADJUST, CONT.AF
- The settings for the following functions are fixed.

 ASPECT RATIO:

 4:3

 QUALITY:

 SELFTIMER: OFF/2SEC.

 SENSITIVITY: AUTO

 Functions other than those above are the same as fixed in SIMPLE MODE (P.28).

 (However, STABILIZER (P.39) settings may be made.)
- If internal memory is full
- Delete unwanted clipboard pictures in PLAY ON CLIPBOARD mode.

 (Copy required pictures onto card → P.60)
- Beware of copyrights, etc (P.2)

Set to 👺



Select 'REC'





(Initial display)

Highlight 'REC' in orange

Take a clipboard picture







Press halfway (align focus)

Press fully (take picture)

 Represents built-in memory used entirely for clipboard pictures

Picture size	1M	2M
Pictures	36	24

Recording capacities above are reduced if pictures are recorded to built-in memory (P.26) in other recording modes (e.g. 'a)').

- To view clipboard pictures (clipboard playback): ▼ ((□) ▼)
- To change picture size → (P.60)

Useful for taking pictures of timetables and maps instead of taking memos. Regardless of presence of card, pictures will always be saved to clipboard folder of built-in memory, so that they can be distinguished from normal pictures and viewed immediately.

Viewing clipboard pictures (clipboard playback)

Select 'PLAY' in step 2 on left

■View 1 picture at a time



■View 9 pictures on screen



 Select a clipboard picture and press 'MENU/SET' to display single screen.

■To zoom in (playback zoom) → (P.31)

Expand



Change position



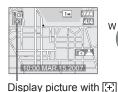
 To register zoom enlarged size and position (Zoom mark): Useful for enlarging and saving parts of maps, etc.

After selecting enlarged size and position



Zoom mark
Displayed on registered pictures

- To change zoom and position: Repeat the above
- To finish zoom mark setting: Restore zoom to original (normal) ratio
- To view registered ratio and position:





(No need to manually enlarge or move)



Immediately displayed at recorded size and position

- ■To delete clipboard pictures (P.32)
 - Both original picture and picture with zoom mark will be deleted.
 - Picture can be deleted even while zoomed in.

Note

- During clipboard recording: Press shutter button halfway. (□ 1.1)
- PLAY menu (P.64) functions cannot be used.
 Pictures taken in other recording modes, modified with ROTATE (P.66) and copied (P.73) as clipboard pictures will be displayed in their original form (before rotation).
- Printing (P.76) cannot be performed during clipboard playback.

Applications (Record)

Taking/viewing clipboard pictures (Continued)

CLIPBOARD menu

Press 'MENU/SET' while recording or viewing to display menu.

■REC ON CLIPBOARD menu

Select item



REC ON CLIPBOARD		
GO TO PLAY	■ ト	
■ PICT.SIZE	1м1₹4	
AUDIO REC.	OFF	
INITIAL DISP.	ON	
② CLOCK SET		
SELECT ≑ ►	EXIT SET	

Default setting:

- GO TO PLAY: View clipboard pictures.
- PICT.SIZE: Change picture size. (2M EZ / 1M EZ)
 Select picture size with ▲ ▼ and press 'MENU/SET'.
- AUDIO REC.: Record sound (5 seconds) simultaneously. (OFF / ON)
 Select setting with ▲ ▼ and press 'MENU/SET'.
 Settings will also be reflected in 'AUDIO REC.' (P.53) in REC menu.
- INITIAL DISP.: Select to display/not display initial display (P.58). (OFF / ON)
 - Select setting with ▲ ▼ and press 'MENU/SET'.
- CLOCK SET: Same function as that in SETUP menu (P.16).

■PLAY ON CLIPBOARD menu Select item





- GO TO REC: Take clipboard pictures.
- CANCEL MARK: Cancel zoom position.
 - ① Select clipboard picture with ◀►.
- ② Cancel with ▼.
- AUDIO DUB.: Add sound to previously-taken clipboard picture.
 - ① Select clipboard picture with ◀▶.
 - ② Record/stop with ▼.
- COPY: Copy single pictures from clipboard to card. (Zoom mark will not be copied.)
 - ① Select clipboard picture with **◄►** and press **▼**.
- ② Select 'YES' with ▲ ▼ and press 'MENU/SET'.
- INITIAL DISP.: Same as in 'REC ON CLIPBOARD' (above)

Applications (View)

Viewing as list

(Multi playback/Calendar playback)

You can view 9 (or 25) pictures at once (multi playback), or view all pictures taken on a certain date (calendar playback). (To view clipboard pictures as a list \rightarrow P.59)



Set to 🕒

Set to multiple screen display





Picture typė
FAVORITE ★, MOTION PICTURE 日,
BABY ♠, PET , TRAVEL DATE 前,
WORLD TIME ✔, DATE STAMP ☑

- Turn lever to change between 1 screen
 → 9 screens → 25 screens → calendar
 screen.
- To restore: Turn to T side.

Note

- Pictures edited on a computer may not be displayed correctly or may show incorrect dates.
- Only one month of pictures is displayed on calendar screen.
 Pictures taken without clock settings are displayed with a date of January 1, 2007 (P.16).
- •When displaying pictures taken on same day on 9 screens in calendar playback, selecting 'ALL DELETE' or 'ALL DELETE EXCEPT ★' will delete pictures taken on other days as well.
- Cannot be displayed rotated.

Select date from calendar screen





DAY◆► MONTH♦ SET®®®

Month: ▲ ▼ Date: ◀ ►

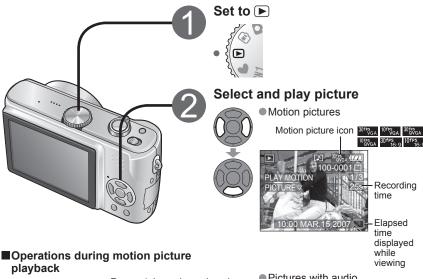
Select picture with ▲ ▼ ◀► and press 'MENU/SET'

Displayed on 9 screens.
 Press 'MENU/SET' to restore to single screen.

First picture

Applications (View)

Viewing motion pictures/ pictures with audio



Pause (play, when already paused) Hold to rewind Hold to fast (single frame step forward (single while paused) frame step while paused) Stop

■To adjust volume → 'VOLUME' (P.22)

Pictures with audio



Note

- Pictures can be viewed using 'QuickTime' on the CD-ROM (supplied).
- Pictures taken on other devices may not be played back correctly.
- When using a high capacity card, it is possible that fast rewinding may be slower than usual.
- Playback zoom cannot be used during motion picture playback/pausing or audio plavback.
- To create pictures with audio → 'AUDIO REC.' (P.53), 'AUDIO DUB.'. (P.70)

Applications (View)

Creating still pictures from motion pictures (DMC-TZ3 only)



During playback, pause at desired moment

(see left for playback method)





- To continue playback:
- ■To advance single frame: ◀▶
- ■To make single picture from single frame when paused (go to step ②)
- ■To make single picture from 9 surrounding frames







Frame step:

To advance by 3 frames: ▲ ▼

To advance by 1 frame: ◀▶

■ To change no. of frames/second: Turn further to W side (turn to T side to restore).

PICT.MODE	Frames/sec	
30fps 30fps VGA 16:9	30→15→10→5	
10fps 10fps 10fps VGA 16:9	10→5	

e.g. 15 frames: Display frames from each 1/15 second as still pictures

• 'RESIZE' (P.70) and 'ASPECT CONV.' (P.72) cannot be used for single pictures created from 9 screens.



Create still picture



Press fully



Select 'YES'





Highlight 'YES' in orange

Picture size of still pictures created.

PICT.MODE	1 screen	9 screens
30fps VGA VGA	0.3M	2M
30fps QVGA QVGA	0.3M	1M
30fps 16:9	2M	2M

'QUALITY' fixed to (P.53).

Applications (View)

4

Using PLAY menu



- PLAY menu settings (P.18)
- Pictures will be selected from built-in memory (not clipboard) if no card is inserted.

(Screen example: DMC-TZ3)

12 DUAL DISPLAY (DMC-TZ3 only)

Displays 2 pictures vertically. Useful for comparing pictures.

- Select 'DUAL DISPLAY' from PLAY menu (P.17, 18)
- View pictures

Selected pictures outlined in orange

Select picture

Move up

Return to single screen

Previous

picture

Next

picture

Move down

Reduce W

Same picture cannot be displayed in DUAL

SLIDE SHOW

DISPLAY

Automatically scrolls through pictures during playback. Recommended for when viewing on TV screen.

- Select 'SLIDE SHOW' from PLAY menu (P.17, 18)
- Select either 'ALL' or '★'. (Go to step ③ if 'FAVORITE' is OFF)





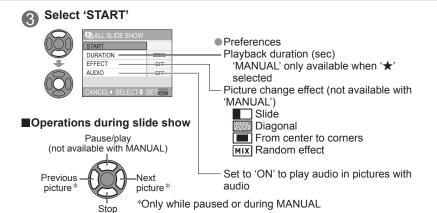
selected picture

ALL: Play all

★: Play pictures set as FAVORITE (P.65)

(Screen example: DMC-TZ3)

Various playback and editing features for your pictures. Set mode dial to 🔊.



• Motion pictures cannot be played back in slide show.

★ FAVORITE

Mark your favorite pictures and enable the following functions.

- Favorites-only slide show (P.64)
- Delete all except favorites (useful for when printing in shop, etc) (P.32)
- Select 'FAVORITE' from PLAY menu (P.17, 18)







(Screen example: DMC-TZ3)

Close menu



Select picture (repeat)





- ★ displayed when set (not displayed when 'OFF').
 Up to 999 pictures can be selected.
 To release → Press ▲ again.
- ■To release all
 Select 'CANCEL' with ▼ in step ② → Select 'YES' with ▲, and press 'MENU/SET' → Press 'MENU/SET' to finish.
- It may not be possible to set pictures taken with certain other devices as favorites.
- Setting/release can also be made with supplied software (P.11).

4

Using PLAY menu (Continued)

BA ROTATE DISP. ☐ ROTATE

Automatically rotate portrait pictures, manually rotate pictures by 90°.

ROTATE DISP.

Display with automatic rotation

- Select 'ROTATE DISP.' from PLAY menu (P.17, 18)
- Select 'ON'



(Screen example: DMC-TZ3)

- ■To complete → Press 'MENU/SET'.
 - When set to 'OFF', 'ROTATE' also cannot be used.
- 'ROTATE DISP.' and 'ROTATE' cannot be used with motion pictures.
- •'ROTATE' cannot be used with protected pictures (P.69).
- Some pictures taken facing up or facing down may not be rotated automatically.
- •It may not be possible to rotate pictures taken with certain other devices.
- •Pictures cannot be rotated during multi playback (P.61).
- •Will only be displayed rotated on computer if in Exif-compatible (P.90) environment (OS, software).

ROTATE

Display with manual rotation

- Select 'ROTATE' from PLAY menu (P.17, 18)
- Select picture



Select direction to rotate



→ : Rotate 90° clockwise
→ : Rotate 90° anticlockwise

■To complete → Press 'MENU/SET' twice.

DATE STAMP

Picture date, age (P.42, 44), or TRAVEL DATE (P.48) stamped to bottom right of picture. Ideal for regular size printing.

Picture size will be reduced if greater than 3M.

ASPECT RATIO	PICT. SIZE
4:3	7M, 5M (6M only for DMC-TZ2)
3:2	7M (6M for DMC-TZ2), 4.5M
16:9	6M (5.5M for DMC-TZ2), 3.5M

3M 2.5M 2M

Picture will become slightly grainier.

Select 'DATE STAMP' from PLAY menu (P.17, 18)

Select 'SINGLE' or 'MULTI'





(Screen example: DMC-TZ3)

Select picture



SINGLE



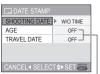
MULTI (up to 50 pictures)



- □ DATE STAMP setting
- displayed where DATE STAMP already set
- ■To release setting: ▼
- To complete settings: Press 'MENU/SET'.

Select items and make settings for each





 Select 'ON' for AGE/ TRAVEL DATE stamp.

Select whether to delete original picture (Screen varies according to picture size, etc.)





Apply DATE STAMP (Original picture deleted)

 Select 'NO' for protected pictures (P.69).

'NO': Create new picture with DATE STAMP (Original picture remains)

- ■To complete → Press 'MENU/SET' twice.
- Cannot be used with pictures taken on other devices, pictures taken without setting clock, motion pictures, or pictures with audio.
- After DATE STAMP is applied, pictures cannot be resized (P.70) or trimmed, (P.71), and ASPECT CONV. (P.72), DATE STAMP and DPOF date printing settings cannot be changed of pictures.
- Use playback zoom to check stamped date (P.31).
- Characters may be cut off on certain printers.
- Do not make date printing settings in shop or on printer for pictures with date stamps. (Date printing may be overlapping.)

Using PLAY menu (Continued)

DPOF PRINT

Picture/picture no./date printing settings can be made for when printing with DPOF printcompatible shops or printers. (Ask at shop to check compatibility)

For more information visit:

http://panasonic.jp/dc/dpof 110/white e.htm

- Select 'DPOF PRINT' from PLAY menu (P.17, 18)
- Select 'SINGLE' or 'MULTI'



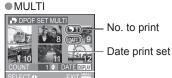
(Screen example: DMC-TZ3)

Select picture and set number to print (repeat)





No. to print Date print set



- Date print setting/release: Press 'DISPLAY' (P.12). (Cannot be set on pictures with date stamps (P.66).)
- ■To complete → Press 'MENU/SET' twice.
- ■To release all Select 'CANCEL' with ▼ in step ② → Select 'YES' with ▲, and press 'MENU/SET' → Press 'MENU/SET' to finish.
- When using PictBridge-compatible printers, check settings on actual printer as these may take priority over camera settings.
- To print from built-in memory at a shop, first copy pictures to card (P.73) before making settinas.
- DPOF print settings may not be made to non-DCF (P.90) files.
- Settings can only be made for one picture at a time.
- If DPOF settings have been made on another device, release these first before making settings again with this camera.
- Date printing settings will be canceled when applying date stamps (P.66).

Om PROTECT

Set protection to disable picture deletion. Prevents deletion of important pictures.

- Select 'PROTECT' from PLAY menu (P.17, 18)
- Select 'SINGLE' or 'MULTI'





(Screen example: DMC-TZ3)

Select picture and make setting







Picture protected

■ To release: ▼

- ■To complete → Press 'MENU/SET' twice.
- ■To release all
 Select 'CANCEL' with ▼ in step ② → Select 'YES' with ▲, and press 'MENU/SET' → Press 'MENU/SET' to finish.
- May not be effective when using other devices.
- Formatting (P.73) will cause even protected files to be deleted.
- To cancel while releasing all: Press 'MENU/SET'.

Applications (View)

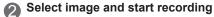
4

Using PLAY menu (Continued)

AUDIO DUB.

Add audio to previously taken pictures.

Select 'AUDIO DUB.' from PLAY menu (P.17, 18)







 For files already with audio, select whether or not to overwrite existing audio with ▲ ▼, and press 'MENU/ SET'.

Stop recording



- Recording will automatically end after 10 seconds, even if ▼ is not pressed.
- ■To complete → Press 'MENU/SET' twice.
- Cannot be used with motion pictures or protected pictures (P.69).
- May not be compatible with pictures taken on other devices.

RESIZE

Picture size can be reduced to facilitate e-mail attachment and use in homepages, etc. (Picture of minimum picture size for each aspect setting cannot be resized.)

Select 'RESIZE' from PLAY menu (P.17, 18)

Select picture





Select size





Current size Size after change

Select whether to delete original picture



- 'YES': Resize (Original picture deleted)
 - Select 'NO' for protected pictures (P.69).

'NO': Create new, resized picture (Original picture remains)

- ■To complete → Press 'MENU/SET' twice.
- Cannot be used with motion pictures, pictures with audio, or pictures with date stamp.
- May not be compatible with pictures taken on other devices.

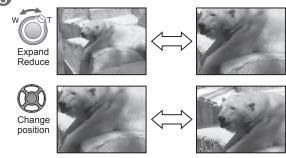
→ TRIMMING

Enlarge your pictures and trim unwanted areas.

- Select 'TRIMMING' from PLAY menu (P.17, 18)
- Select picture

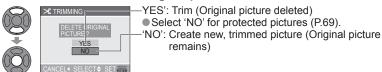


Select area to trim



4 Trim

Select whether to delete original picture



- ■To complete → Press 'MENU/SET' twice.
- Picture quality is reduced after trimming.
- Cannot be used with motion pictures, pictures with audio, or pictures with date stamp.
- May not be compatible with pictures taken on other devices.

Using PLAY menu (Continued)

ASPECT CONV.

Convert pictures taken in 16:9 to 3:2 or 4:3 for printing. (P.51) (Cannot be used with pictures not taken in 16:9.)

Select 'ASPECT CONV.' Select 3:2 or 4:3 from PLAY menu (P.17, 18)





(Screen example: DMC-TZ3)

Select picture



Select horizontal position and convert





Changes to outlined

Move portrait pictures using **▲ ▼**.

Select whether to delete original picture



- 'YES': Convert aspect ratio (Original picture deleted) Select 'NO' for protected pictures (P.69).
- 'NO': Create new picture with converted aspect ratio (Original picture remains)
- ■To complete → Press 'MENU/SET' twice.
- Picture size may be increased after aspect ratio is changed.
- Cannot be used with motion pictures, pictures with audio, or non-DCF files (P.90).
- May not be compatible with pictures taken on other devices.

₩ COPY

Copy between built-in memory and memory card, or from memory card to clipboard folder.

- Select 'COPY' from PLAY menu (P.17, 18)
- Select copy method (direction)



- (except clipboard) from → [: Copy all pictures (except clipboard) built-in memory to card (go to step 4).
- 🗋 → 🔊 : Copy 1 picture at a time from card to built-in memory.
- [↑] → [*** : Copy 1 picture at a time from card to clipboard folder (in built-in memory) (not motion pictures).

Select picture (for [↑] → [№] and [↑] → [₩]



Select 'YES' (Screen shown is example)



To cancel duringN → 1 : Press'MENU/SET'.

- ■To complete → Press 'MENU/SET' twice.
- ■To copy to a card, use a card with a capacity of at least 12.7MB.
- Copying pictures may take several minutes. Do not turn off power or perform other operations during copying.
- DPOF settings (P.68) will not be copied if identical folder or file numbers are present in the copy destination.
- Use 'COPY' on PLAY ON CLIPBOARD menu to copy clipboard pictures to card. (P.60)
- Only pictures from Panasonic digital cameras may be copied.

[♦ FORMAT

Use when 'BUILT-IN MEMORY ERROR' or 'MEMORY CARD ERROR' appears. This requires a sufficiently charged battery (P.14) or AC adaptor (DMW-AC5PP, sold separately). To format built-in memory, first remove memory card. (If card is inserted, only card will be formatted.)

Select 'FORMAT' from PLAY menu (P.17, 18)





- All picture data, including clipboard (P.58) and protected (P.69) pictures, will be deleted.
- Do not turn off power or perform other operations during formatting.
- Formatting the built-in memory may take several minutes. Press 'MENU/SET' to cancel (all pictures will still be deleted).
- Consult your nearest Service Center if format cannot be successfully completed.

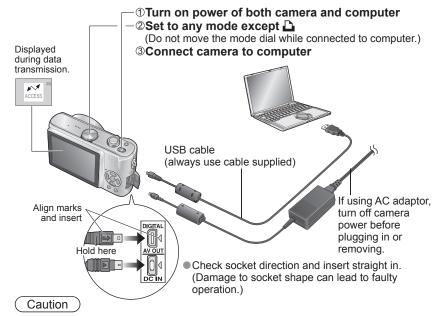
For USA assistance, please call: 1-800-272-7033 or send e-mail to : digitalstillcam@us.panasonic.com

For Canadian assistance, please call: 1-800-99-LUMIX (1-800-995-8649) or send e-mail to: lumixconcierge@ca.panasonic.com

Connecting with other devices

Using with computer

- Preparations: Ensure that you have a sufficiently-charged battery, or an AC adaptor attached (DMW-AC5PP, sold separately).
 - Remove memory card if wishing to use built-in memory.



- Do not use any other USB connection cables except the supplied one.
- If using Windows 98/98SE, install USB driver software when connecting for first time.
- For more details, consult the separate 'PC connection' or your computer operating manual.
- Do not disconnect the USB cable while 'ACCESS' is displayed.
- Turn off power and disconnect USB cable before inserting or removing memory cards.
 When using USB cable with Windows 2000, use 'Safely Remove Hardware' application in task tray before inserting card.
- If the battery display flashes red, cancel the connection from your computer, and disconnect the USB cable. (Recharge the battery before reconnecting.)
- To play motion pictures on your computer
 - Use the 'QuickTime' software on the supplied CD-ROM. (Installed as standard on Macintosh)
 - If using Windows 98/98SE/Me, download and install 'QuickTime 6.5.2 for PC' from the following website. http://www.apple.com/support/quicktime/
 - Save motion pictures to your computer before viewing.
- Only built-in memory can be accessed if connecting in CLIPBOARD mode.

Connect to your computer to save, print, and e-mail your pictures. (Using the supplied software is recommended. (P.11).)

Folder and file names on computer

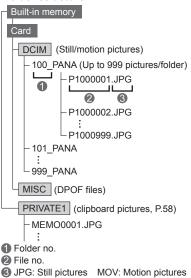
Windows

Drives are displayed in 'My Computer' folder.

Macintosh

Drives are displayed on the desktop. (Displayed as 'LUMIX', 'NO_NAME', or 'Untitled'.)

Folder structure



- To reset file or folder numbers: 'NO. RESET' (P.22)
- New folders are created in the following cases:
 - •When pictures are taken to folders containing files numbered 999.
 - When using cards already containing the same folder number (including pictures taken with other cameras, etc)
 - •When recording after performing NO. RESET (P.22)
- File may not be able to be played back on camera after changing file name.

(Number can be changed without changing number of digits.)

■ Connecting with PTP (Picture Transfer Protocol)

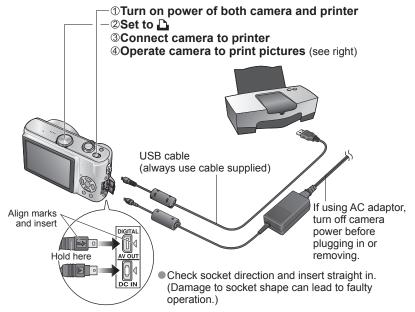
If using Windows XP or Mac OS X, you can connect to your computer in PTP mode by setting to PRINT mode \triangle .

- Pictures can only be read on computer from camera.
- It may not be possible to read if there are 1000 or more pictures on the card.
- The message (PLEASE RE-CONNECT THE PRINTER.) will be displayed if you set to ☐ after connecting to your computer. Set the mode dial to a different mode, and reconnect the camera after 'ACCESS' disappears.

Printing

Preparations: Ensure that you have a sufficiently-charged battery, or an AC adaptor (DMW-AC5PP, sold separately).

- Remove memory card to use pictures in built-in memory.
- Adjust settings on your printer (print quality, etc) as required.

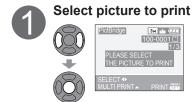


- Do not use any other USB connection cables except the supplied one.
- ■Do not disconnect the USB cable when the cable disconnection icon

 icon (may not be displayed with some printers).
- Turn off power and disconnect USB cable before inserting or removing memory cards.
- If you have connected the camera without setting it to \(\Gamma\), remove the USB cable. and set the camera to before reconnecting. (Power may need to be reset on some printers.)
- If you change to a different mode after connecting, an error message will be displayed. Set the mode dial back to \triangle , cancel any printing, and disconnect the USB cable.
- To print clipboard pictures, first copy (P.60) to the memory card.
- If the battery display flashes red, cancel printing and disconnect the USB cable (reconnect again after charging battery).
- ●An orange displayed during printing indicates an error message. Check the printer.
- Print may be divided into different stints if printing several pictures. (Remaining sheets display may differ from set number.)

You can connect directly to a PictBridge-compatible printer for printing.

■Printing single pictures



Select 'PRINT START' SINGLE SELECT PRINT START PRINT WITH DATE NUM. OF PRINTS 1 PAGE LAYOUT CANCEL LET SELECT \$ SET 6555

- ■To cancel print → Press 'MENU/ SET'
- lacktriangle Print settings \rightarrow (P.78)
- Disconnect USB cable after printing.

■Printing multiple pictures





See below for details



Select 'YES' if print confirmation screen is displayed.

■Multiple picture printing items

	•
Item	Details
MULTI SELECT	Scroll between pictures with ◀▶, select pictures with ▼ (♣ displayed) to print. Press ▼ again to release selection. Press 'MENU/SET' when selection is complete.
SELECT ALL	Print all pictures.
DPOF PICTURE	Print pictures selected in 'DPOF PRINT'. (P.68)
FAVORITE	Print pictures selected as 'FAVORITE'. (Displayed if 'FAVORITE' (P.65) set)

Printing (Continued)

■Print settings

Item		Settings						
PRINT WITH DATE	OFF/ON	OFF/ON						
NUM. OF PRINTS	Set number of pic	Set number of pictures						
	(printer takes	priority)						
	L/3.5"×5"	(89 × 127 mm)						
	2L/5"×7"	(127 × 178 mm)						
	POSTCARD	(100 × 148 mm)						
PAPER SIZE	A4	(210 × 297 mm)						
7.11 2.11 3.22	CARD SIZE	(54 × 85.6 mm)						
	10×15cm	(100 × 150 mm)						
	4"×6"	(101.6 × 152.4 mm)						
	8"×10"	(203.2 × 254 mm)						
	LETTER	(216 × 279.4 mm)						
PAGE LAYOUT	(printer takes (1 picture, wi	priority) / 은 (1 picture, no border) / ith border) / 마마 (2 pictures) / 프롬 (4						

- Items may not be selected if incompatible with printer.
- To print to paper sizes/layouts not supported by this camera, set to and make settings on the printer.

(Consult your printer's operating manual.)

e.g. To print the same picture 4 times on 1 sheet
Layout setting: 器 (4 screens) Print copies: 4
(Setting print copies to 1 will print 4 different pictures.)

Date printing

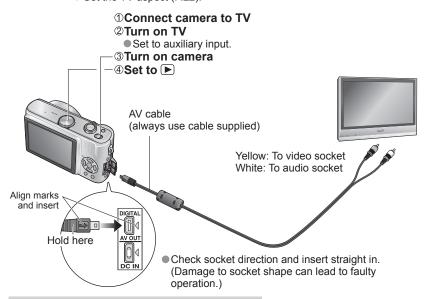
- olf printing in shop: Make DPOF settings (P.68) and request printing 'with dates'.
- If using printer: Make DPOF settings (P.68) and use a printer compatible with date printing.
- If using the supplied software: Set to 'with dates' in the print settings.
- Use the supplied software to print age for 'BABY' (P.42) or 'PET' (P.44) scene modes, or days elapsed in 'TRAVEL DATE' (P.48). (These cannot be requested in shops.)
- Even if DPOF settings are made, dates may not be printed with some shops or printers.
- Settings on the actual printer may be prioritized in some cases. Check the date printing settings on your printer.
- Do not set date printing on pictures onto which 'DATE STAMP' (P.66) is applied, otherwise date will be printed twice.

Connecting with other devices

Viewing on TV screen

You can view pictures on a TV screen by connecting your camera to your TV with the supplied AV cable.

- Preparations: Turn off both camera and TV.
 - Set the TV aspect (P.22).



If your TV has an SD memory card slot, you can view still pictures by inserting a card directly.

* Pictures may not be viewable from some MultiMediaCards.

Note

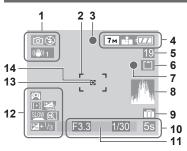
- Do not use any other AV cables except the supplied one.
- You can view pictures on TVs in other countries (regions) which use the NTSC or PAL system when you set 'VIDEO OUT' in SETUP menu. Even if you set 'VIDEO OUT' to 'PAL', the output signal will still be NTSC in the recording mode.
- Some televisions may cut off the edges of pictures, or not display them full screen.
 Pictures rotated to portrait may be blurred slightly.
- Change picture mode settings on TV if aspect ratios are not displayed correctly on widescreen or high-definition televisions.
- Also consult TV operating manual.
- If problems such as picture flickering occur, set 'VIDEO OUT' (P.22) to 'NTSC'.

Others

11

List of LCD monitor displays

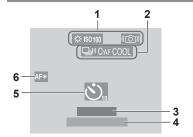
In recording



- 1 Recording mode (P.13)*1
 - Flash mode (P.36)
 - Optical image stabilizer (P.39)
- 2 AF area (P.54)
- 3 Focus (P.25)
- 4 7m Picture size (P.52)
 - Quality*2 (P.53)
 - Battery capacity (P.25)
- 5 Number of recordable pictures*3 (P.92)
- 6 Save destination (P.26)
- 7 Recording state
- 8 Histogram (P.33)

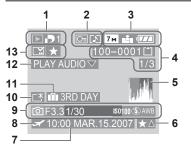
- 9 Travel date (P.48)*4
 - 10 F3.3 Aperture value (P.25)
 - 1/30 Shutter speed (P.25)
 - Intelligent ISO mode (P.46)

 5s Elapsed recording time (P.47)
 - 11 Current date/time
 - Zoom (P.27) WWW (P.24)
 - 12 I High angle mode (P.34)
 - Power LCD (P.34)
 - Metering mode (P.53)
 - Slow shutter (P.56)
 - Auto bracket*5 (P.38)
 - Exposure compensation (P.38)
 - Zoom Resume (P.20)
 - 13 Spot metering target (P.53)
 - 14 Spot AF area (P.54)
 - CLIPBOARD mode (P.58)
 - *1 Clipboard recording mode 🛅
 - *4 Clipboard playback transfer guide
 - MOTION PICTURE mode (P.47)
 - *2 30fps VGA VGA 30fps 10fps QVGA QVGA QVGA 16:9 16:9
 - *3 Available recording time RXhXXmXXs



- - | ISO LIMIT
- 2 Burst mode (P.54)
 - CAF Continuous AF (P.55)
 - Color mode (P.57)
 - Audio recording (P.53)
- 3 Travel elapsed days (P.48)
- 4 Age in years/months (P.42)
- 5 Self-timer mode (P.35)
- 6 AF assist lamp (P.56)
 TELE Tele Macro (P.46)
- *5 DMC-TZ3 only.
- *6 Displays available pictures/time (sec) remaining.
 - ('+999' displayed if 1000 pictures/seconds or more.)

In playback

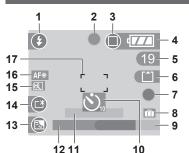


- 1 PLAYBACK mode*1 (P.13)
 - Number of DPOF prints (P.68)
- 2 Protected picture (P.69)
- Picture with audio/Motion pictures (P.62)
- 3 Picture size (P.52)
 - Quality*2 (P.53)
 - Battery capacity (P.25)
- 4 100-0001 Folder/File number
 - Save destination (P.26)
 - 1/3 Picture number/Total pictures

- 5 Histogram (P.33)
 - ☑ Cable disconnection warning icon (P.76)
- 6 Favorites settings*3 (P.65)
- 7 Recorded date and time
- 8 Destination settings (P.49)
- 9 Recording information*4
 - 1 month 10 days Age in years/months (P.42)
- **10** Power LCD (P.34)
- 11 Travel elapsed days (P.48)
- 12 Audio playback*5 (P.62)
- 13 Date stamp display*6 (P.66)
 - ★ Favorites (P.65)
- CLIPBOARD mode (P.58)
 - *1 Clipboard playing mode 🛅
 - ** Clipboard recording transfer guide ...
 - *6 Zoom mark
- MOTION PICTURE mode (P.62)

 - *3 Elapsed playback time XhXXmXXs
 - *5 PLAY MOTION PICTURE ▼

In SIMPLE MODE



- 1 Flash mode (P.36)
- 2 Focus (P.28)
- 3 Picture mode (P.29)

- 4 Battery capacity (P.25)
- 5 Number of recordable pictures (P.92)
- 6 Save destination (P.26)
- 7 Recording state
- 8 Travel date (P.48)
- 9 Backlight compensation BACKLIGHTA (P.28)
- 10 Self-timer mode (P.35)
- **11** Travel elapsed days (P.48)
- 12 Current date/time Zoom (P.27) EZW
 - Destination settings (P.49)
- 13 Backlight compensation (P.28)
- **14** Power LCD (P.34)
- 15 Zoom Resume (P.20)
- 16 AF assist lamp (P.56)
 TELE Tele Macro (P.46)
- 17 AF area (P.54)

Message displays

THIS MEMORY CARD IS LOCKED

 Release using the write-protect switch on the SD memory card or SDHC memory card. (P.26)

NO VALID PICTURE TO PLAY

Take pictures, or insert a different card already containing pictures.

THIS PICTURE IS PROTECTED

Release the protection before deleting, etc. (P.69)

SOME PICTURES CANNOT BE DELETED/THIS PICTURE CANNOT BE DELETED

- Non-DCF images (P.90) cannot be deleted.
 - → Save all necessary data to computer (or other device), and 'FORMAT' (P.73) card to delete.

NO ADDITIONAL DELETE SELECTIONS CAN BE MADE

- The number of pictures that can be deleted at once has been exceeded.
- More than 999 pictures have been set as 'FAVORITE'.
- The number of pictures than can be date stamped at once has been exceeded.

CANNOT BE SET ON THIS PICTURE

DPOF settings cannot be made for non-DCF images (P.90).

PLEASE TURN CAMERA OFF AND THEN ON AGAIN

- Force has been applied to lens (or other component) and camera could not operate correctly.
 - → Turn on power again. (Consult the dealer or your nearest Service Center if display still remains)

SOME PICTURES CANNOT BE COPIED/COPY COULD NOT BE COMPLETED

- Pictures cannot be copied in following cases.
 - Picture of same name already exists in copy destination.
 - File is not of DCF standard (P.90).
 - Picture taken or edited on a different device.

BUILT-IN MEMORY ERROR FORMAT BUILT-IN MEMORY?

Displayed when formatting built-in memory via computer, etc.

→ Reformat directly using camera (P.73).

MEMORY CARD ERROR FORMAT THIS CARD?

- Format cannot be recognized on this camera.
 - → Save all necessary data to computer (or other device), and 'FORMAT' (P.73).

Meanings of and required responses to major messages displayed on LCD monitor.

MEMORY CARD ERROR PLEASE CHECK THE CARD

Access to card has failed.
 → Insert card again.

MEMORY CARD ERROR MEMORY CARD PARAMETER ERROR

 Card is not of SD standard. Only SDHC memory cards can be used for capacities of 4GB or greater.

READ ERROR PLEASE CHECK THE CARD

- Data read has failed.
 - → Check whether card has been inserted correctly (P.15).

WRITE ERROR PLEASE CHECK THE CARD

- Data write has failed.
 - → Turn off power and remove card, before re-inserting and turning on power again.
- Card may possibly be damaged.

MOTION RECORDING WAS CANCELLED DUE TO THE LIMITATION OF THE WRITING SPEED OF THE CARD

- If 'PICT.MODE' is set to '30fps VGA' or '30fps 16:9', use a card of at least 10 MB/s (as marked on packaging, etc). (P.47)
- Motion picture recording may be automatically terminated with certain cards.

A FOLDER CANNOT BE CREATED

- Folder numbers in use have reached 999 (P.75).
 - → Save all necessary data to computer (or other device), and 'FORMAT' (P.73). Folder number is reset to 100 when performing 'NO.RESET' (P.22).

PICTURE IS DISPLAYED FOR 4:3 TV/PICTURE IS DISPLAYED FOR 16:9 TV

- AV cable is connected to camera.
 - To remove message immediately → Press 'MENU/SET'.
 - To change aspect ratio → Change 'TV ASPECT' (P.22).
- USB cable is only connected to camera.
 - → Message disappears when cable is also connected to another device (P.74, 76).

■ FAQ



Memory Card

Which cards can I use?

See (P.15) for types, and (P.92) for recording capacities.

Using Panasonic cards is recommended.

Pictures

How can I easily send pictures to my computer?

- Connect the camera to your computer using the supplied USB cable (P.74) to copy (drag & drop) picture files to your computer hard disk. (You can also use the supplied software 'LUMIX Simple Viewer.)
- Use a USB reader-writer.

Recording

Pictures appear dark or have poor coloring

- Adjust the exposure (P.38).
- Use W. BALANCE to adjust the coloring.
 (e.g. Use 'AWB' for fluorescent lighting and ¬¬¬ for incandescent lighting.)

If this is still insufficient, try 'Setting white balance manually \blacksquare_{SET} ' (P.50).



Printing

How do I get the date printed?

- Use DATE STAMP before printing (P.66). (Do not make date printing settings.)
- In shop: Make DPOF settings (P.68), and request printing 'with dates'.
- With printer: Make DPOF settings (P.68), and use a printer compatible with date printing.
- With supplied software (P.11): Select 'with dates' within print settings.





Try checking these items (P.84-89) first.

(Restoring menu settings to default values may solve certain problems.

Try using 'RESET' in SETUP menu (P.22).)

Battery, power

Camera does not work even if power is turned on.

Battery is not inserted correctly (P.15), or needs recharging (P.14).

LCD monitor shuts off even if power is turned on.

- Camera is set to 'POWER SAVE' or 'ECONOMY' (P.20).
 - → Press shutter button halfway to release.
- Battery needs recharging (P.14).

Camera switches off as soon as power is turned on.

- Battery needs recharging (P.14)
- Camera is set to 'POWER SAVE' (P.20).
- Camera was left with power on (battery needs recharging).
 - → Use 'POWER SAVE' or 'ECONOMY' (P.20).

Recording

Cannot record pictures.

- Mode dial is not set to a recording mode.
- ■Built-in memory/card is full. → Free space by deleting unwanted pictures (P.32).

Recorded pictures look white.

- Lens is dirty (fingerprints, etc).
 - → Turn on power to extract lens barrel, and clean lens surface with a soft, dry cloth.
- Lens is foggy (P.10).

Recorded pictures are too bright/too dark.

 Pictures taken in dark locations, or bright subjects (snow, bright conditions, etc) occupy most of the screen. (Brightness of LCD monitor may differ from that of actual picture) → Adjust the exposure (P.38).

2-3 pictures are taken when I press the shutter button just once.

● Camera set to use 'AUTO BRACKET' (DMC-TZ3 only) or 'BURST' in REC menu.

Focus not aligned correctly.

- Not set to mode appropriate for distance to subject. (Focus range varies according to recording mode.)
- Subject outside of focus range.
- Caused by jitter or subject movement (P.39, 46).

Recorded pictures are blurred. Optical image stabilizer ineffective.

- Shutter speed is slower in dark locations and Optical image stabilizer is less effective.
- → Hold camera firmly with both hands, keeping arms close to body (P.24).
 Use a tripod and the self-timer (P.35) when using 'SLOW SHUTTER' (P.56).

Recording (continued)

Recorded pictures appear coarse, or there is interference.

- ISO sensitivity is high, or shutter speed is low. (Default SENSITIVITY setting is 'AUTO' – interference may appear with indoor pictures.)
 - . → Lower 'SENSITIVITY' (P.51).
 - → Set 'COL. MODE' to 'NATURAL' (P.57)
 - → Take pictures in brighter locations.
- Camera set to 'HIGH ŠENS.' scene mode (P.44).
 (Picture becomes slightly coarser in response to high sensitivity)

Brightness or coloring of recorded picture different from real life.

 Taking pictures under fluorescent lighting may require a faster shutter speed and result in slightly changed brightness or coloring, but this is not a fault.

Reddish vertical line (smear) appears during recording.

 This is a characteristic of CCD and may appear if subject contains brighter areas. Some blurring may occur around these areas, but this is not a fault.



(This will be recorded in motion pictures, but not in still pictures.)

Motion picture recording stops midway.

- Using MultiMediaCard (not compatible with motion picture recording).
- 'PICT. MODE' set to '30fps VGA' or '30fps 16:9' (P.47).
 - → Use a card of at least 10MB/s (as marked on packaging, etc).
- With some cards, access display may appear briefly after recording, and recording may end midway.

LCD monitor

Monitor sometimes shuts off even though power is on.

- Camera set to 'ECONOMY' (P.20).
 - (LCD monitor shuts off during flash recharging)
- After recording, monitor shuts off until next picture can be recorded.
 (Maximum built-in memory usage approx. 6 sec)

Brightness is unstable.

Aperture value is set while shutter button is pressed halfway.
 (Does not affect recorded picture.)

Monitor flickers indoors.

Monitor may flicker after turning on (prevents influence from fluorescent lighting).

Monitor is too bright/too dark.

- Adjust LCD monitor brightness (P.20).
- Camera set to 'POWER LCD' or 'HIGH ANGLE' (P.34).
- Monitor may darken when internal temperature is low. Monitor will brighten again when temperature rises.

Black/blue/red/green dots or interference appears. Monitor looks distorted when touched.

• This is not a fault, and will not be recorded on the actual pictures, so there is no need to worry.

LCD monitor (continued)

Date/age is not displayed.

 Current date, TRAVEL DATE (P.48), and ages in 'BABY'(P.42) and 'PET' (P.44) scene modes are only displayed for approx. 5 sec after start-up, setting changes, or mode changes. They cannot be always displayed.

Flash

No flash emitted.

- Flash set to 'FORCED OFF (9)' (P.36).
- When set to 'AUTO [≰A]', flash may not be emitted in certain conditions.
- Flash cannot be emitted in MOTION PICTURE mode 🖽, or the 'SCENERY', 'NIGHT SCENERY' (P.42), 'FIREWORKS', 'STARRY SKY', 'AERIAL PHOTO', and 'HIGH SENS.' (P.44) scene modes.

Two flashes emitted

Red-eye reduction is active (P.36).
 (Flashes twice to prevent eyes appearing red.)

Playback

Pictures have been rotated.

• 'ROTATE DISP.' is set to 'ON' (P.66).

(Automatically rotates pictures from portrait to landscape. Some pictures taken facing up or facing down may be interpreted as being portrait.)

→ Rotate with 'ROTATE DISP.' (P.66).

Cannot view pictures.

- Mode dial is not set to ...
- No pictures in built-in memory or card (pictures played from card if inserted, from builtin memory if not).

Folder/file number displayed as '-'. Picture is black.

- Picture edited on computer or taken on different device.
- Battery removed immediately after picture taken, or picture taken with low battery.
 → Use 'FORMAT' to delete (P.73).

Incorrect date displayed in calendar playback.

- Picture edited on computer or taken on different device.
- 'CLOCK SET' is incorrect (P.16).
 (Incorrect date may be displayed in calendar playback on pictures copied to computer and then back to camera, if computer and camera dates differ.)

Depending on the subject, an interference fringe may appear on the screen.

This is called moire. This is not a malfunction.

Others **Q&A** Troubleshooting (Continued)

TV, computer, printer

No image appears on TV. Image blurred or not colored.

- Not connected correctly (P.79).
- TV input setting not set to auxiliary input.
- 'VIDEO OUT' not set to 'NTSC' (P.22).

TV screen display different to LCD monitor.

Aspect ratio may be incorrect or edges may be cut off with certain televisions.

Cannot play motion pictures on TV.

- Card is inserted into TV.
 - → Connect with AV cable (supplied) and play on camera (P.79).

Picture is not displayed on full TV screen.

Check 'TV ASPECT' settings (P.22).

Cannot send pictures to computer.

Not connected correctly (P.74).

Check whether computer has recognized camera. (See separate 'PC connection')

Computer does not recognize card (only reads built-in memory).

Disconnect USB cable and reconnect with card in place.

I want to play computer pictures on my camera.

 Use the supplied software PHOTOfunSTUDIO-viewer- to copy pictures from computer to camera. To save to clipboard, use software to copy from computer to card, then copy to clipboard folder with 'COPY' (P.73) in PLAY menu.

Cannot print when connecting to printer.

- Printer not compatible with PictBridge.
- Mode dial not set to <a>L.

Edges cut off pictures when printing.

- Release any trimming or edgeless printing settings on printer before printing. (Consult printer operating manual.)
- Pictures taken on 16:9 'ASPECT RATIO' (P.51).
 - → If printing in shop, check if 16:9 sizes can be printed.

Others

Menu not displayed in desired language.

Change 'LANGUAGE' setting (P.22).

Camera rattles if shaken.

This sound is made by the lens movement and is not a fault.

Cannot set 'AUTO REVIEW'.

Cannot be set when any of the following are in use: 'AUTO BRACKET' (DMC-TZ3 only) (P.38), 'BURST' (P.54), 'SELF PORTRAIT' scene mode (P.42), MOTION PICTURE mode
(P.47), or 'AUDIO REC.' (P.53).

Red lamp illuminated when pressing shutter button halfway in dark locations.

• 'AF ASSIST LAMP' set to 'ON' (P.56).

AF ASSIST LAMP is not illuminated.

- 'AF ASSIST LAMP' is set to 'OFF' (P.56).
- Not illuminated in bright locations or when using 'SCENERY', 'NIGHT SCENERY', 'SELF PORTRAIT' (P.42), 'FIREWORKS', or 'AERIAL PHOTO' (P.44) scene modes.

Camera is hot.

 Camera may become a little warm during use, but this does not affect performance or quality.

Lens makes a clicking noise.

 When brightness changes, the lens may make a clicking noise and the monitor brightness may also change, but this is due to aperture settings being made. (Does not affect recording.)

Clock is incorrect.

- Camera has been left for a long period.
 - \rightarrow Reset the clock (P.16).
 - (Date will be set to '0:00' 0. 0. 0' for pictures if clock is not set.)
- Long time was taken to set clock (clock behind by this amount).

When using zoom, picture becomes slightly warped and the edges of the subject become colored.

 Pictures may be slightly warped or colored around the edges, depending on the zoom ratio, but this is not a fault (P.27).

File numbers are not recorded in sequence.

• File numbers are reset when new folders are created (P.75).

File numbers have jumped backwards.

 Battery was removed/inserted with power on. (Numbers may jump backwards if folder/file numbers are not correctly recorded.) Others

4

Usage cautions and notes

When in use

Camera may become warm if used for long periods of time, but this is not a fault.

To avoid jitter, use a tripod and place in a stable location.

(Especially when using telescopic zoom, lower shutter specially when using the lower shutter specially when using the lower special properties and the lower special properties are specially specially and the lower special properties are specially specially

(Especially when using telescopic zoom, lower shutter speeds, or self-timer)

Keep the camera as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).
 If you use the camera on top of or near a TV, the pictures and sound on the camera

may be disrupted by electromagnetic wave radiation.

• Do not use the camera near cell phones because doing so may result in noise

 Do not use the camera near cell phones because doing so may result in noise adversely affecting the pictures and sound.

 Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.

• Electromagnetic wave radiation generated by microprocessors may adversely affect the camera, disturbing the pictures and sound.

 If the camera is adversely affected by electromagnetic equipment and stops functioning properly, turn the camera off and remove the battery or disconnect AC adaptor (DMW-AC5PP; optional). Then reinsert the battery or reconnect AC adaptor and turn the camera on.

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

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

Do not extend the supplied cord or cable.

 Do not allow camera to come into contact with pesticides or volatile substances (can cause surface damage or coating to peel).

Only use files from other devices if compatible with Design Rule for Camera File system (Pictures are based on DCF (Design rule for Camera File system) and Exif (Exchangeable Image File Format) standards, by Japan Electronics and Information Technology Industries Association (JEITA)).

Caring for your camera

Disconnect battery/AC adaptor (DMW-AC5PP, sold separately).

 Do not use benzene, thinners, alcohol, kitchen detergent, or chemically treated cloth (can cause surface damage or coating to peel).

• Wipe away dust or fingerprints with soft, dry cloth. Clear stubborn stains or rain/sea water stains with a thoroughly wrung cloth, before wiping with a dry cloth.

When not using for a while

 Remove battery and card (ensure that battery is removed to prevent damage through over-discharge).

Do not leave in contact with rubber or plastic bags.

 Store together with a drying agent (silica gel) if leaving in drawer, etc. Store batteries in cool (15 °C-25 °C (59 °F-77 °F)) places with low humidity (40 %-60 %) and no major temperature changes.

Charge battery once per year and use completely once before storing again.

Memory cards

To prevent damage to cards and data

 Avoid high temperatures, direct sunlight, electromagnetic waves, and static electricity.

Do not bend, drop, or expose to strong impacts.

•Do not touch connectors on reverse of card or allow them to become dirty or wet.

When disposing of/transferring memory cards

•If using the 'format' or 'delete' functions on your camera or computer, this only changed the file management information, and does not completely delete the data from within the memory card. When disposing of or transferring your memory cards, we recommend physically destroying the memory card itself, or using commercially available computer data erasing software to completely delete the data from the card. Data within memory cards should be managed responsibly.

Battery

Store battery in battery carrying case after use.

 Do not use if damaged or dented (especially connectors), e.g. by dropping (can cause faults).

 The unusable battery should be discarded in accordance with battery recycling laws. Call the RBRC hotline at 1-800-822-8837 for information.

Estimated recording capacity of 270 [300 *¹] pictures (P.14) is based on the following CIPA *² standards.

*1 DMC-TZ2



CIPA standards:

•Using Panasonic SD memory card (16MB) •Temperature 23 °C (73.4 °F), humidity 50 % •NORMAL PICTURE mode •LCD monitor ON •STABILIZER (MODE1) •First picture taken 30 sec after power turned on •1 picture taken per 30 sec •Full flash used for every other picture •Zoom operation for each picture (max. W \rightarrow max. T, or max. T \rightarrow max. W) •Power turned off after each 10 pictures, battery allowed to cool & CIPA = Camera & Imaging Products Association

When charging

- Remove any dirt on connectors with dry cloth.
- Keep at least 1 m (3.28 feet) away from AM radio (may cause radio interference).

Noises may be emitted from inside, but this is not a fault.

- Always remove from mains socket after charging (up to 0.1 W consumed if left in place).
- SDHC Logo is a trademark.
- Leica is a registered trademark of Leica Microsystems IR GmbH.
- Elmar is a registered trademark of Leica Camera AG.
- Other names, company names, and product names printed in these instructions are trademarks or registered trademarks of the companies concerned.

5

Recording picture/time capacity

■ Recording picture capacity (still pictures)

Varies according to following settings.

ASPECT	RATIO		4:3													
PICT.SIZE		7 N (3072 :			1*2 < 2112)		EZ*1 < 1920)	3 M (2048 :	EZ × 1536)		EZ < 1200)		1 EZ × 960)		M EZ < 480)	
QUAI	_ITY	*	.1.				1	*	.1.		_t_		_±_	Ť	1.	
Built-in n	nemory	2	6	3	7	4	9	7	15	12	24	19	36	61	100	
	16 MB	3	7	4	8	5	10	8	16	13	27	21	40	68	110	
	32 MB	7	16	9	19	11	23	18	36	29	58	45	85	145	230	
	64 MB	16	34	20	40	24	48	38	75	61	120	93	175	290	480	
	128 MB	35	69	41	82	50	99	78	150	125	240	190	350	600	970	
Memory card	256 MB	68	135	81	160	98	190	150	290	240	470	370	690	1170	1900	
00.10	512 MB	135	270	160	320	195	380	300	590	480	940	730	1370	2320	3770	
	1 GB	270	540	320	640	390	770	600	1180	970	1880	1470	2740	4640	7550	
	2 GB	550	1090	660	1270	790	1530	1220	2360	1920	3610	2920	5120	8780	12290	
	4 GB	1090	2150	1290	2510	1560	3010	2410	4640	3770	7090	5740	10050	17240	24130	

Extended optical zoom (P.27) can be used for picture sizes indicated with 'EZ' (except in 'HIGH SENS.' scene mode (P.44)).

■ Recording picture capacity (still pictures)

ASPECT					
PICT.	SIN	IPLE	MODI		
QUAI	_ITY	■*1	■ *2		•
Built-in n	nemory	2	3	16	100
	16 MB	3	4	18	110
	32 MB	7	9	40	230
	64 MB	16	20	83	480
	128 MB	35	41	165	970
Memory card	256 MB	68	81	330	1900
	512 MB	135	160	650	3770
	1 GB	270	320	1310	7550
	2 GB	550	660	2560	12290
	4 GB	1090	1290	5020	24130

■ Recording time capacity (motion pictures)

PICT.MODE		30fpsVGA	10fpsVGA	
Built-in m	nemory	_	_	
	16 MB	6 sec	26 sec	
	32 MB	17 sec	59 sec	
	64 MB	39 sec	2 min	
	128 MB	1 min 23 sec	4 min 10 sec	
Memory card	256 MB	2 min 45 sec	8 min 10 sec	
	512 MB	5 min 30 sec	16 min 20 sec	
	1 GB	11 min	32 min 50 sec	
	2 GB	22 min 30 sec	1 hr 7 min	
	4 GB	44 min 20 sec	2 hr 11 min	

Figures given are estimates. May vary according to conditions, card type, and subject. Recording capacities/times displayed on LCD monitor may not be reduced regularly.

- ASPECT RATIO (4:3 3:2 16:9) (P.51)
- PICT.SIZE (0.3MEZ-7M) (P.52)
- QUALITY (picture quality : high : standard) (P.53)

*1:	DM	C-1	ΓZ3
*2-	DM	C-1	Γ 7 2

3:2											16	:9			
7 N (3216)	¶*1 < 2144)	6N (2976)	1*² < 1984)	4.5N (2560)	/I EZ < 1712)	2.5N (2048)		6N (3328)		5.5 (3072)		3.5N (2560)		2 M (1920)	
*	Lž.	*	.t.	*	ž.	· ·	ž.	*	.ż.	*	.t.	· ·	Lž.	*	1.1
3	6	3	7	5	10	8	16	3	7	4	8	6	12	11	22
3	7	4	8	5	12	9	18	3	7	4	10	7	14	12	25
8	16	9	19	13	26	20	40	9	18	10	21	15	31	27	53
16	35	20	40	27	54	43	83	19	35	22	45	32	64	57	105
35	71	42	82	56	110	88	165	35	79	46	92	66	130	115	220
70	140	82	160	110	210	170	330	78	150	91	180	130	250	230	430
140	270	160	320	210	430	340	650	155	300	180	350	250	510	450	860
280	550	320	640	440	860	680	1310	310	610	360	710	520	1020	910	1720
560	1110	660	1300	890	1700	1360	2560	630	1220	730	1420	1040	2040	1800	3410
1110	2190	1310	2560	1740	3350	2680	5020	1240	2410	1450	2800	2040	4020	3540	6700

30fpsQVGA	10fpsQVGA	30fps16:9	10fps16:9
23 sec	1 min 13 sec	_	_
26 sec	1 min 23 sec	5 sec	22 sec
59 sec	2 min 55 sec	14 sec	50 sec
2 min	6 min	33 sec	1 min 46 sec
4 min 10 sec	12 min 20 sec	1 min 11 sec	3 min 35 sec
8 min 10 sec	24 min	2 min 20 sec	7 min
16 min 20 sec	47 min 50 sec	4 min 40 sec	14 min
32 min 50 sec	1 hr 35 min	9 min 20 sec	28 min 10 sec
1 hr 7 min	3 hr 15 min	19 min 20 sec	57 min 30 sec
2 hr 11 min	6 hr 22 min	38 min	1 hr 53 min

PICT.MODE (P.47)

Picture smoothness (fps: frames per second)

30 fps	•	-	10 fps
Smooth	•	-	Less smooth *3

Picture size

16:9	VGA	QVGA
Wide	Large	Small*3

- *3 For e-mail attachments or longer recording
- A maximum of approx. 2 GB can be recorded in any one session.

(Screen display also up to 2 GB)

Others

Specifications

Digital Camera: Information for your safety

	· · · · · · · · · · · · · · · · · · ·					
Power Source	DC 5.1 V					
Power Consumption	When recording: 1.7 W (DMC-TZ3)/1.4 W (DMC-TZ2) When playing back: 0.8 W					
Camera effective pixels	● DMC-TZ3: 7,200,000 pixels ● DMC-TZ2: 6,000,000 pixels					
Image sensor	 DMC-TZ3: 1/2.35" CCD, total pixel number 8,500,000 pixels DMC-TZ2: 1/2.33" CCD, total pixel number 7,390,000 pixels Primary color filter 					
Lens	Optical 10 x zoom f=4.6 mm to 46 mm (35 mm film camera equivalent: 28 mm to 280 mm)/F3.3 to F4 $^{\prime}$					
Digital zoom	Max.4 x					
Extended optical zoom	Max. 15 x (DMC-TZ3)/Max. 13.8 x (DMC-TZ2)					
Focus	Normal/Macro 9-area-focusing/3-area-focusing (High speed)/ 1-area-focusing (High speed)/1-area-focusing/Spot-focusing					
Focus range Normal	50 cm (1.64 feet) (Wide)/2 m (6.56 feet) (Tele) to ∞					
Macro/Simple/Motion picture/ Intelligent ISO/Clipboard	5 cm (0.16 feet) (Wide)/1 m (3.28 feet) (Tele) to ∞ (2 m (6.56 feet) unless max.T)					
Scene mode	There may be difference in above settings.					
Shutter system	Electronic shutter + Mechanical shutter					
Motion picture recording	848 × 480 pixels*/640 × 480 pixels* /320 × 240 pixels (*Only when using an SD Memory Card) (30 or 10 frames/second with audio. The maximum recording time depends on the capacity of the built-in memory or the card.)					
Burst recording Burst speed Number of recordable pictures	 DMC-TZ3: 3 frames/second (High speed), 2 frames/second (Low speed), Approx. 2 frames/second (Unlimited) DMC-TZ2: Approx. 2 frames/second (Unlimited) DMC-TZ3: Max. 7 frames (Standard), max. 5 frames (Fine), Depends on the remaining capacity of the built-in memory or the card (Unlimited). DMC-TZ2: 					
	Depends on the remaining capacity of the built-in memory or the card.					
ISO sensitivity	AUTO/100/200/400/800/1250 [HIGH SENS.] mode: 3200					
Shutter speed	8 to 1/2000th [STARRY SKY] mode: 15 seconds, 30 seconds, 60 seconds Motion picture mode: 1/30th to 1/20000th					
White balance	AUTO/Daylight/Cloudy/Shade/Halogen/White set					
Exposure (AE)	AUTO (Program AE) Exposure compensation (1/3 EV Step, -2 EV to +2 EV)					
Metering mode	Multiple/Center weighted/Spot					
LCD monitor	 DMC-TZ3: 3.0° low-temperature polycrystalline TFT LCD (Approx. 230,000 pixels) (field of view ratio about 100 %) DMC-TZ2: 2.5° low-temperature polycrystalline TFT LCD (Approx. 207,000 pixels) (field of view ratio about 100 %) 					
Flash	Flash range: (ISO AUTO) Approx.60 cm (1.97 feet) to 4.2 m (13.8 feet) (Wide) AUTO, AUTO/Red-eye reduction, Forced flash ON (Forced flash ON/ Red-eye reduction), Slow sync./Red-eye reduction, Forced OFF					

Microphone	Monaural
Speaker	Monaural
Recording media	Built-in Memory (Approx. 12.7 MB)/SD Memory Card/SDHC Memory Card/MultiMediaCard (Still pictures only)
Picture size	
Still picture	When the aspect ratio setting is [4:3] • DMC-TZ3: 3072 × 2304 pixels / 2560×1920 pixels / 2048×1536 pixels / 1600 × 1200 pixels / 1280 × 960 pixels / 640 × 480 pixels • DMC-TZ2: 2816 × 2112 pixels / 2048 × 1536 pixels / 1600 × 1200 pixels / 1280 × 960 pixels / 640 × 480 pixels
	When the aspect ratio setting is [3:2] ■ DMC-TZ3: 3216 × 2144 pixels / 2560 × 1712 pixels / 2048 × 1360 pixels ■ DMC-TZ2: 2976 × 1984 pixels / 2560 × 1712 pixels / 2048 × 1360 pixels
	When the aspect ratio setting is [16:9] ■ DMC-TZ3: 3328 × 1872 pixels / 2560 × 1440 pixels / 1920 × 1080 pixels ■ DMC-TZ2: 3072 × 1728 pixels / 2560 × 1440 pixels / 1920 × 1080 pixels
Motion pictures (*Only when using an SD Memory Card)	848 × 480 pixels* /640 × 480 pixels* /320 × 240 pixels
Quality	Fine/Standard
Recording file format	
Still Picture	JPEG (based on Design rule for Camera File system, based on Exif 2.21 standard)/DPOF corresponding
Still pictures with audio	JPEG (based on Design rule for Camera File system, based on Exif 2.21 standard) + QuickTime
Motion pictures	QuickTime Motion JPEG
Interface	Digital: USB 2.0 (Full Speed) Analog video/audio: NTSC/PAL Composite (Switched by menu)/Audio line output (monaural)
Terminal	DIGITAL/AV OUT: Dedicated jack (8 pin) DC IN: Dedicated jack (2 pin)
Dimensions (excluding the projection part)	● DMC-TZ3: Approx. 105.0 mm (W) × 59.2 mm (H) × 36.7 mm (D) (4.13" (W) × 2.33" (H) × 1.44" (D)] ● DMC-TZ2: Approx. 105.0 mm (W) × 59.2 mm (H) × 36.3 mm (D) (4.13" (W) × 2.33" (H) × 1.43" (D)]
Mass	Excluding card and battery: DMC-TZ3 Approx. 232 g (8.18 oz)/ DMC-TZ2 Approx. 222 g (7.83 oz) With card and battery: DMC-TZ3 Approx. 257 g (9.06 oz)/ DMC-TZ2 Approx. 247 g (8.71 oz)
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating humidity	10 % to 80 %

Battery charger (Panasonic DE-A45B): Information for your safety

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

Equipment mobility: Movable Battery Pack (lithium-ion) (Panasonic CGA-S007A): Information for your safety

Voltage/capacity	3.7 V 1000 mAh

Others

7

Optional accessories

Product name: Battery Pack Product no.: CGA-S007A



- Performance identical to supplied battery pack.
- Recommended for taking on holiday, etc.

Product name: Leather Case Product no.: DMW-CT3



Product name: AC adaptor Product no.: DMW-AC5PP



Product name: Marine Case Product no.: DMW-MCTZ3



Product name: Semi Hard Case Product no.: DMW-CHTZ3



Product name: SDHC Memory Card
Product no.: 4 GB: RP-SDR04GU1K

Product name: SD Memory Card

Product no.: 2 GB: RP-SDK02GU1A, RP-SDR02GU1A

1 GB: RP-SDK01GU1A, RP-SDH01GU1A,

RP-SDR01GU1A

512 MB: RP-SDK512U1A, RP-SDR512U1A 256 MB: RP-SDH256U1A, RP-SDR256U1A

128 MB: RP-SD128BU1A 64 MB: RP-SD064BPPA



SDHC memory cards

- New standards set in 2006 by SD Association for high-capacity memory cards exceeding 2 GB.
- Can be used on SDHC memory card-compatible devices, but not on devices only compatible with SD memory cards.
- Refer to P.14 for information about the battery charging time and the number of recordable pictures.
- Accessories and/or model numbers may vary between countries. Consult your local dealer

Digital Camera Accessory Order Form

(For USA Customers)

Please photocopy	this form when pla	acing an order.			
1. Digital Camera	Model #				
2. Items Ordered					
Accessory #	Description	Price Each	Quantity		Total Price
		I.	Subto	otal	
		Your Stat	e & Local Sales	· ·	
			Shipping & Handl	ina	6.95
		•	Total Enclos	~ ⊢	0.55
			Total Effolds	eu _	
3.Method of payme	,				
	ney Order enclose				
□ VISA	Credit Card #	<u> </u>			
☐ MasterCard					
☐ Discover	•	gnature			
	Make C	heck or Money	Order to: PANAS	ONIC	ACCESSORIES
(Please do not ser	,				
4. Shipping inform	ation (UPS deliver	y requires comp	lete street addre	ss)	
Ship To:					
Mr. Mrs.					
Ms					
First	L	.ast	Pho	ne#:	
Street Add			Day	()
Street Add	iress		Nigh	t ()
City		State Z		<u>(</u>	
TO OBTAIN A	NY OF OUR DIGIT	AL CAMERA ACC	CESSORIES YOU	CAN [OO ANY OF
		THE FOLLOWIN			
	VISIT YOUR	R LOCAL PANAS OR	ONIC DEALER		
CALL	PANASONIC'S AC	0.1	ER LINE AT 1-800	-332-5	368
0,122		-6 PM M-F, PACIF		002 0	
		OR			
MAIL THIS	ORDER TO: PANA	SONIC SERVICE ESSORY ORDER		GY C	OMPANY
		Avenue South Ke			

In CANADA, please contact your local Dealer for more information about accessories.

Request for Service Notice (For USA Only)

Please photocopy this form when making a request for service notice.

In the unlikely event this product needs service.

 Please include your proof of purchase. (Failure to do so will delay your repair.) To further speed your repair, please provide ar explanation of what wrong with the unit and any symptom it is exhibiting.

Mail this completed form and your Proof of Purchase along with your unit to:
Panasonic Camera and Digital Service Center
1590 Touhy Ave.
Elk Grove Village, IL 60007

Limited Warranty (For USA Only)

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA One Panasonic Way, Secaucus, New Jersey 07094 PANASONIC PUERTO RICO, INC.

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Digital Still Camera Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor.

PRODUCT OR PART NAME	PARTS	LABOR
DIGITAL STILL CAMERA (EXCEPT ITEMS LISTED BELOW)	1 (ONE) YEAR	1 (ONE) YEAR
CCD	6 (SIX) MONTHS	90 (NINETY) DAYS
RECHARGEABLE BATTERY PACK (IN EXCHANGE FOR DEFECTIVE BATTERY PACK)	90 (NINETY) DAYS	NOT APPLICABLE
SD MEMORY CARD (IN EXCHANGE FOR DEFECTIVE SD CARD)	90 (NINETY) DAYS	NOT APPLICABLE

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In or Mail-In Service

For Čarry-In or Mail-In Service in the United States call 1-800-272-7033.

For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, travel to and from the servicer, loss of media or images, data or other memory content. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory (For USA Only)

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-272-7033, Monday-Friday 8:30am-8pm EST.

Web Site: http://www.panasonic.com/consumersupport You can purchase parts, accessories or locate your nearest Service Center by visiting our Web Site.

Accessory Purchases:

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 9 pm, EST.)
PANASONIC SERVICE AND TECHNOLOGY COMPANY
20421 84th Avenue South, Kent, WA 98032
(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

Product Repairs

Centralized Factory Service Center

MAIL TO:

Panasonic Camera and Ďigital Service Center 1590 Touhy Ave. Elk Grove Village, IL 60007

Please carefully pack and ship, prepaid and insured, to the Elk Grove Village Centralized Factory Service Center.

Customer's in Puerto Rico, please ship or carry in to location below ("Service in Puerto Rico").

Service in Puerto Rico

Panasonic Puerto Rico, Inc.: Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787) 750-4300 Fax (787) 768-2910

As of January 2007

Merci d'avoir choisi Panasonic!

Vous avez acheté l'un des appareils les plus perfectionnés et les plus fiables actuellement sur le marché. Utilisé selon les directives, il vous apportera ainsi qu'à votre famille des années de plaisir. Veuillez prendre le temps de remplir la fiche cicontre. Le numéro de série se trouve sur l'étiquette située sur le dessous de votre appareil photo. Conservez le présent manuel afin de pouvoir le consulter au besoin.

N° de modèle	-
Nº de série	- ,

Précautions à prendre (pour le Canada)

AVERTISSEMENT:

POUR RÉDUIRE LES RISQUES D'INCENDIE, DE CHOC ÉLECTRIQUE OU DE DOMMAGES À L'APPAREIL.

- N'EXPOSEZ PAS CET APPAREIL
 À LA PLUIE, À L'HUMIDITÉ,
 À L'ÉGOUTTEMENT OU AUX
 ÉCLABOUSSEMENTS, ET NE
 PLACEZ SUR L'APPAREIL AUCUN
 OBJET REMPLI DE LIQUIDE, TEL
 UN VASE.
- UTILISEZ EXCLUSIVEMENT LES ACCESSOIRES RECOMMANDÉS.
- NE RETIREZ PAS LE COUVERCLE (OU LE PANNEAU ARRIÈRE); IL N'Y A AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR À L'INTÉRIEUR. CONFIEZ TOUTE RÉPARATION À UN TECHNICIEN DE SERVICE QUALIFIÉ.

LA PRISE DE COURANT DOIT SE TROUVER À PROXIMITÉ DE L'APPAREIL ET ÊTRE FACILEMENT ACCESSIBLE.

ATTENTION

Danger d'explosion si la batterie n'est pas remplacée correctement.
Remplacez-la uniquement par une batterie identique ou du même type recommandée par le fabricant.
Suivez les instructions du fabricant pour jeter les batteries usées.

Avertissement

Risque d'incendie, d'explosion et de brûlures. Ne pas démonter, chauffer à plus de 60 °C (140 °F) ou incinérer.

La plaque signalétique se trouve sur le dessous de l'appareil.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

- N'utilisez que l'adaptateur secteur Panasonic DMW-AC5PP (vendu séparément).
- Utilisez toujours une batterie de marque Panasonic.
- Si une batterie autre que Panasonic est utilisée, nous ne pouvons garantir le bon fonctionnement de l'appareil.
- N'utilisez pas un câble USB autre que celui fourni.
- N'utilisez pas un câble AV autre que celui fourni
- Rangez les cartes mémoire hors de la portée des enfants.



L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion/polymère recyclable. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY. Éloignez l'appareil le plus possible de tout dispositif émettant un champ électromagnétique (tel un four à microondes, un téléviseur, une console de jeux vidéo, etc.).

- Si vous utilisez l'appareil sur le dessus ou à proximité d'un téléviseur, les images ou le son pourraient être déformés par son champ électromagnétique.
- N'utilisez pas l'appareil à proximité d'un téléphone cellulaire car l'interférence pourrait perturber les images et le son.
- Les puissants champs magnétiques produits par des haut-parleurs ou de gros moteurs électriques peuvent endommager les données ou distordre les images.
- Le champ électromagnétique créé par un microprocesseur peut nuire à l'appareil et perturber l'image et le son.
- •Dans le cas où l'appareil serait perturbé par un champ électromagnétique et cesserait de fonctionner adéquatement, mettez-le hors marche et retirez-en la batterie ou débranchez l'adaptateur secteur (DMW-AC5PP, vendu séparément). Remettez la batterie en place ou rebranchez l'adaptateur secteur, puis remettez l'appareil en marche.

N'utilisez pas l'appareil à proximité d'un émetteur radio ou de lignes à haute tension.

 Si des prises de vues sont faites à proximité d'un émetteur radio ou de lignes à haute tension, les images et les sons enregistrés pourraient en être affectés

À propos du bloc-batterie

Batterie (batterie au lithium-ion)

- Utilisez l'unité spécifiée pour recharger la batterie.
- N'utilisez la batterie avec aucun autre appareil que l'appareil spécifiée.
- Évitez le contact des saletés, du sable, du liquide ou autres corps étrangers avec les bornes.
- Ne touchez pas les bornes des fiches (+ et -) avec des objets métalliques.
- Évitez de démonter, remodeler, chauffer ou jeter au feu.

Si de l'électrolyte entre en contact avec vos mains ou vos vêtements, lavez-les avec beaucoup d'eau.

Si de l'électrolyte pénètre dans vos yeux, ne les frottez pas.

Rincez-vous les yeux avec beaucoup d'eau, puis consultez un médecin.

À propos du chargeur de batterie

ATTENTION!

NE PAS INSTALLER CET APPAREIL DANS UNE BIBLIOTHÈQUE, UNE ARMOIRE OU TOUT AUTRE ESPACE CONFINÉ. S'ASSURER QUE LA VENTILATION DE L'APPAREIL EST ADÉQUATE. AFIN D'ÉVITER TOUT RISQUE DE CHOC ÉLECTRIQUE OU D'INCENDIE DÛ À UN SURCHAUFFEMENT, S'ASSURER QUE DES RIDEAUX OU TOUT OBJET QUELCONQUE NE BOUCHENT LES ÉVENTS D'AÉRATION DE L'APPAREIL.

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Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America

One Panasonic Way, Secaucus, NJ 07094

Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3

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