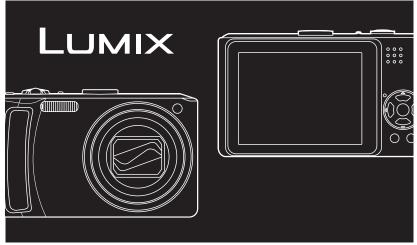
Panasonic



Operating Instructions

Digital Camera

Model No. DMC-TZ15 DMC-TZ11



Before use, please read these instructions completely. This manual is based on the DMC-TZ15 model. Product illustrations and screens may vary.



Dear Customer,

We would like to take this opportunity to thank you for purchasing this Panasonic Digital Camera. Please read these Operating Instructions carefully and keep them handy for future reference.

Information for Your Safety

WARNING:

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

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

Carefully observe copyright laws. Recording of pre-recorded tapes or discs or other published or broadcast material for purposes other than your own private use may infringe copyright laws. Even for the purpose of private use, recording of certain material may be restricted.

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.

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

Warning

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

Product Identification Marking is located on the bottom of units.

-If you see this symbol-

Information on Disposal in other Countries outside the European Union

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

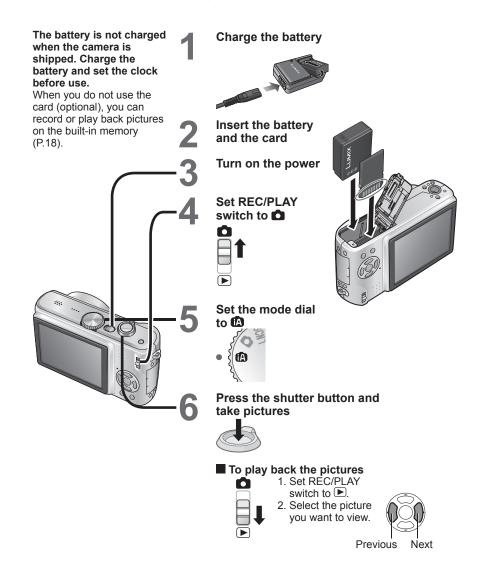


About the battery charger

CAUTION!

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

Quick start guide



Note

Example screens displayed in this manual are for DMC-TZ15 model.

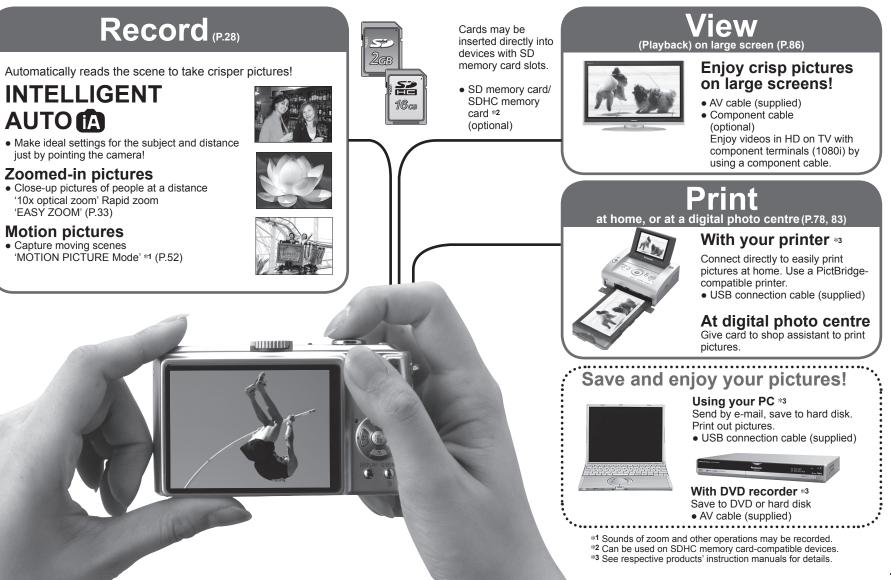


—DMC-TZ11: 8м

Record, view, save those precious

6

moments.



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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

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.
- (Attach strap to avoid dropping camera) · 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.

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.

Unit temperature

The camera may become warm during use. (Especially grip area. etc.)

This does not cause a problem with the performance or quality of the camera.

Grip area

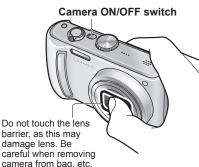
Lens

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.

· Do not leave in direct sunlight.



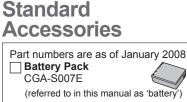
When using tripod

- Do not apply excessive force or tighten screws at an angle (may damage camera, screw hole, or label.)
- Ensure that the tripod is stable. (Read the tripod's instruction manual.)

When transporting

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

Please also refer to 'Usage cautions and notes' (P.98).



Battery Charger DE-A46A



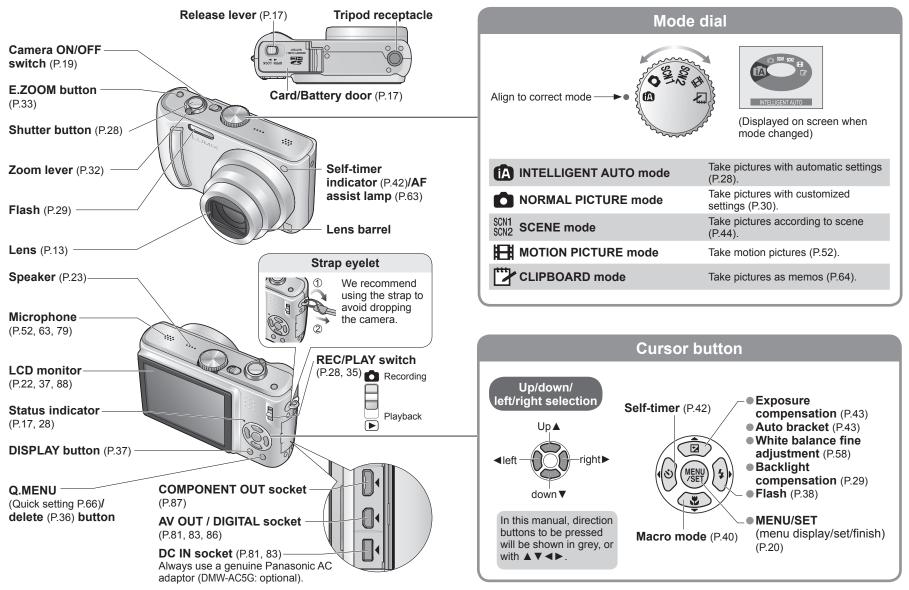
(referred to in this manual as 'charger')

Battery Carrying Case VYQ3680 AC Cable K2CJ2DA00008	
Strap VFC4297	J
USB Connection Cable K1HA08CD0019	a a f
AV Cable K2HA08CD0020	and the second s
Please dispose of all page	ackaging

appropriately.

- Cards are optional. You can record or play back pictures on the built-in memory when you are not using a card. (P.18)
- Consult the dealer or your nearest servicentre if you lose the supplied accessories. (You can purchase the accessories separately.)

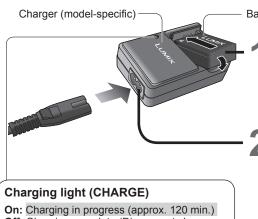
Names of parts



Preparations

Charging battery

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



- **Off:** Charging complete (Disconnect charger and battery when charging is complete.)
- If light is flashing:
- Charging may take longer than normal if battery temperature is too high or too low (charging may not be completed).
- Battery/charger connector is dirty. Clean with dry a cloth.

Approximate battery life

• Number of pictures *1 : 300 [330 *2] (at 30-sec intervals)

(equivalent to approx. 160 [165 *2] mins)

- *1 Values based on CIPA standards, (P.99) Number reduced if intervals longer - 75 [82 *2] pictures if 2-minute intervals
- Playback time: Approx. 360 [380 *2] mins

Above figures may be reduced if intervals between recordings are longer; if flash, zoom, or LCD MODE are used frequently: or in colder climates (depends on actual usage). *2 DMC-T711

- 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.
- Charge the battery with the charger indoors (10 °C-35 °C).
- Do not disassemble or modify the charger.
- If available battery power is significantly reduced, battery is reaching end of lifespan. Please purchase a new battery.
- The battery charger is in the standby condition when the AC power supply cord is connected. The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.
- Frequently charging up battery is not recommended. (Frequently charging battery reduces maximum usage time and can cause battery to expand.)

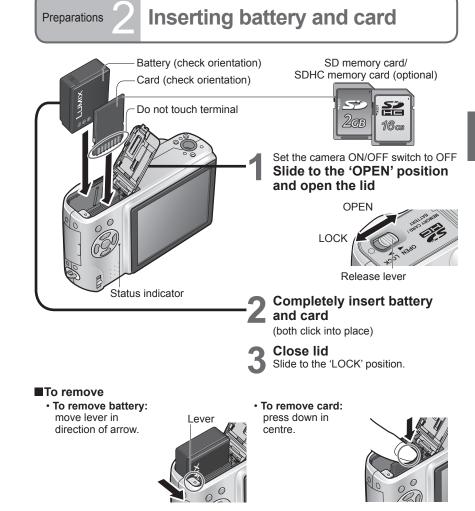
Battery (model-specific)

Insert the battery terminals and attach the battery to the charger Ensure 'LUMIX' faces outwards.

Connect the AC cord



- The AC cord does not fit entirely into the AC input terminal. A gap will remain as shown right.
- **Detach the battery** after charging is complete
 - After charging is completed, be sure to disconnect the AC mains lead from the electrical outlet.



Always use genuine Panasonic batteries (CGA-S007E).

- If you use other batteries, we cannot guarantee the guality 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.



Inserting battery and card

Picture save destination (cards and built-in memory)

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

Compatible memory cards (optional)

The following SD standard-based cards (Panasonic brand recommended)

- SD memory cards (8 MB 2 GB)
- SDHC memory cards (4 GB 16 GB) Can only be used with devices compatible with SDHC memory cards.



52

SDHC memory card

Switch

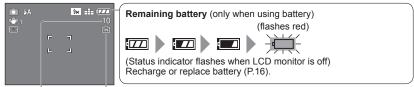
(LOCK)

- Cards of over 4 GB may only be used if they have the SDHC logo.
- Always format cards with this camera. (P.27)
- If the switch on the card is set to 'LOCK', operations such as formatting, recording, and deleting cannot be performed.
- Multimedia cards may also be used (for still pictures only)

Built-in memory (approx. 50 MB)

- Internal memory is slower than SD memory card.
- Clipboard pictures (P.64) are saved to built-in memory.
- Pictures may be copied between cards and the built-in memory (P.81).

Remaining battery and memory capacity



Pictures remaining Displayed when no card inserted (pictures will be saved to built-in memory) (P.100)

When in operation

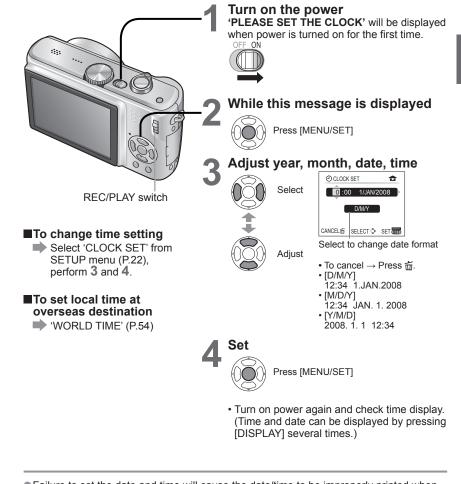
This means that an operation is in progress, such as the recording, reading, or deleting of pictures. Do not turn off the power or remove the battery, card, or AC adaptor (optional) (this may cause damage to or loss of data).

It is recommended that you copy important pictures to your computer (as electromagnetic waves, static electricity, or faults may cause data to be damaged).
 For model numbers and types,

see http://panasonic.co.jp/pavc/global/cs (This Site is English only.)



Set REC/PLAY switch to 📩 before turning on power.



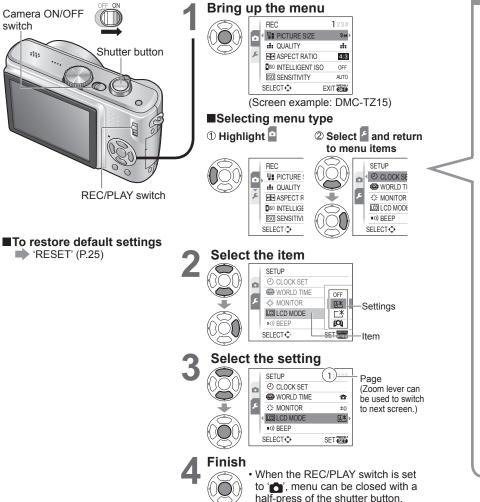
- Failure to set the date and time will cause the date/time to be improperly printed when printing pictures in digital photo centre or when using 'TEXT STAMP' (P.73).
- Time is displayed in 24-hour format. Year can be set between 2000 and 2099.
- Clock settings will be saved for approx. 3 months even after battery is removed, provided a fully-charged battery was installed in camera for the 24 hours beforehand.

Preparations

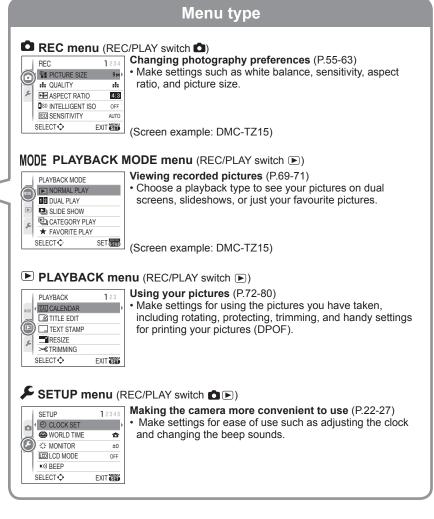
Using menus

To get more out of your camera, you can use a variety of functions and select settings from 4 different menus.

(Example) Change 'LCD MODE' in SETUP menu when in NORMAL PICTURE mode.



Settings display may vary according to items.



Menu items displayed vary according to mode dial setting.



Make general camera settings such as adjusting the clock, extending the battery life, and changing the beep sounds.

'CLOCK SET', 'AUTO REVIEW' and 'ECONOMY' are important for clock setting and battery life. Be sure to check these before use. (Setting method : P.20) Default setting :

Item	Settings, notes
CLOCK SET Set the date and time. (P.19)	Set time, date, and display format.
WORLD TIME Set the local time at an overseas destination. (P.54)	 DESTINATION: Set the local time at overseas destination (P.54). HOME: Set date and time at home area.
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	+1 - +3: Brighter ±0 : Standard −1 - −3: Darker
Make LCD monitor easier to see.	 OFF : Normal (cancel setting) ▲ AUTO POWER LCD: The Power LCD is automatically activated in bright places such as outdoors etc. ► POWER LCD : Makes screen brighter than normal (for outdoor use).
	 HIGH ANGLE : Makes screen easier to see when taking pictures from high positions. (becomes harder to see from the front) 'HIGH ANGLE' will be cancelled when power is turned off (including POWER SAVE). Block out sunlight (with hand, etc.) if reflection makes screen difficult to see. 'AUTO POWER LCD' or 'HIGH ANGLE' cannot be used in the following cases. During playback mode or menu screen display, or when connected to computer/printer. 'POWER LCD' will be deactivated if no operations are performed for 30 seconds while recording. (Brightness can be restored by pressing any button) 'Brightness/colour of screen in 'LCD MODE' has no effect on pictures recorded.

Item	Settings, notes						
■))) BEEP	BEEP LEVEL						
Change or mute the	ட v v v v v v v v v v v v v v v v v v v						
beep/shutter sounds.	BEEP TONE						
	այ❶ /այ❷/այ֎ : Change beep tone.						
	SHUTTER VOL.						
	<u>사</u> / <u>사</u> / <u>사</u> : Mute/Low/High						
	SHUTTER TONE						
	J●/J● : Change shutter tone.						
പ്പം) volume	0··· LEVEL3 ··· LEVEL6						
Adjust volume of sound from speakers (7 levels).	• Cannot be used to adjust TV speaker volume when connected to TV. (We recommend setting camera volume to 0)						
	REC. INFO.						
Select recording	OFF / ON (Display recording information with guide lines.)						
information display and types of guidelines.	PATTERN						
51	\blacksquare / \blacksquare : Change the patterns of guide lines.						
	 Only I may be used in INTELLIGENT AUTO mode and MEMO mode. 						
	OFF /ON						
Check subject brightness on graph.							
TRAVEL DATE	TRAVEL SETUP						
Record the number of	OFF /SET (Register departure and return dates)						
days elapsed in your travels. (P.53)	LOCATION:OFF/SET (Input name of destination.) (P. 72)						



Preparations 5 **F** Using SETUP menu (Continued)

Item	Settings, notes	Item	Settings, notes				
ECO ECONOMY	POWER SAVE	Q ZOOM RESUME	OFF / ON				
Turn off LCD monitor and power while not in use to save battery	 OFF/2MIN./ 5 MIN. /10MIN. : Automatically shut off power while not in use. To restore → Press the shutter button halfway, or turn on 	Remember the zoom ratio when turning power off.	Cannot be set when using 'SELF PORTRAIT' scene mode.				
consumption.	the power again.	n NO.RESET	OFF / ON				
	 Cannot be used in the following cases: When using AC adaptor (DMW-AC5G: optional), when connected to computer/printer, during motion picture recording/playback, during slideshows Settings fixed to '2 MIN.' in 'AUTO LCD OFF' (below), '5 MIN.' in INTELLIGENT AUTO mode or CLIPBOARD mode, or '10 MIN.' while slideshow is paused. 	Reset image file numbers.	 The folder number is updated and the file number starts from 0001. A folder number between 100 and 999 can be assigned. 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. 				
	AUTO LCD OFF OFF /15SEC./30SEC. : LCD monitor is shut off if no operations are performed for a set period while recording. (Status indicator is illuminated		 To reset folder number to 100: First, format (P.27) the built-in memory or card, and reset the file numbers using NO. RESET. Then, select 'YES' on the folder number reset screen. File numbers and folder numbers. (P.82, 97) 				
	while monitor is off.)		RESET REC. SETTINGS?				
	Cannot be used in the following cases:	Reset to the default	YES/NO				
	 When using INTELLIGENT AUTO mode, CLIPBOARD mode ,or AC adaptor (DMW-AC5G: optional), when menu screen is displayed, when using self-timer setting or during motion picture recording. Monitor also shuts off during flash battery charging. To restore → Press any button. 	settings.	RESET SETUP PARAMETERS? YES/NO • Resetting SETUP parameters causes the following to be reset:				
Automatically display pictures immediately after taking them.	 OFF 1 SEC./ 2 SEC. : Automatically display for 1 or 2 seconds. HOLD: Auto review screen remains until a button (other than the display button) is pressed ZOOM: Displays for 1 second, then at 4x zoom for 1 		 Birthdays and names in 'BABY' and 'PET' scene modes, 'TRAVEL DATE', 'WORLD TIME', 'ZOOM RESUME', 'FAVORITE' in PLAYBACK menu (set to 'OFF'), 'ROTATE DISP.' (set to 'ON'). Folder numbers and clock settings will not be reset. Camera movement may be audible as the lens function is reset. This is not a fault. 				
	second • Fixed to '2 SEC.' in INTELLIGENT AUTO mode. • In 'SELF PORTRAIT', 'HI-SPEED BURST', and 'MULTI	USB USB MODE Select communication method for when	Select 'PC' or 'PictBridge(PTP)' each time you connect to a computer or PictBridge-compatible printer.				
	ASPECT *1' scene modes, 'AUTO BRACKET', 'BURST' mode, or pictures with audio, auto review performed regardless of setting. (*1DMC-TZ15 only)	connecting camera to a computer or printer with USB cable.	PictBridge (PTP) : Select when connecting to a PictBridge-compatible printer				
	Motion pictures cannot be automatically reviewed.		PC: Select when connecting to a computer				



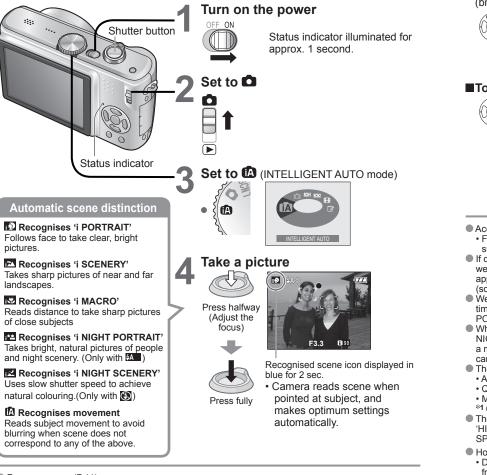
Item	Settings, notes	Item	Settings, notes
→ VIDEO OUT	NTSC/ PAL	FORMAT	YES/NO
Change the video output format when connected to a TV, etc. (PLAYBACK mode only).	Operates when AV cable is connected.	Use when 'BUILT-IN MEMORY ERROR' or 'MEMORY CARD ERROR' appears.	 This requires a sufficiently charged battery (P.16) or AC adaptor (DMW-AC5G: optional). (Only inserted card will be formatted if present; internal memory will be formatted if no card is inserted.)
TV ASPECT	<u>16:9</u> / 4:3		Always format cards with this camera.
Change the aspect ratio when connected to a TV, etc. (PLAYBACK mode only).	 When set to 1019, pictures will be displayed vertically long on LCD monitor. Operates when AV cable is connected. 		 All picture data including protected pictures will be deleted. Do not turn off power or perform other operations during formatting. Consult retailer if format cannot be successfully
₩ <mark>ft.</mark> m/ft	m: Display in meters		 completed. Formatting the built-in memory may take several minutes.
Change display unit for distance in focus alignment (P.41).	ft :Display in feet	Change display	ENGLISH / DEUTSCH (German) / FRANÇAIS (French) / ESPAÑOL (Spanish) / ITALIANO (Italian) /
SCN SCENE MENU	OFF/ AUTO (displays scene menu)	language.	日本語 (Japanese)
Display scene menu when mode dial is set to SCN1 or SCN2. (P.44)	To display scene menu when set to 'OFF': Press 'MENU/ SET'.	DEMO DEMO MODE View demonstration of functions.	JITTER, SUBJ. MOVE DEMO.: Only during recording Extent of jitter and of subject movement are shown on graph. (Estimate) Large ← Small → Large
	PORTRAT SELECT © 1 EEEB SET EED		Jitter
O DIAL DISPLAY	OFF/ ON (display)		Movement detection
Display mode dial operation on screen.			 To stop→ Press display button (P.14). Recording and zoom cannot be performed during demo. Use the movement detection demo with objects with contrasting colouring.
			AUTO DEMO. : View introductory slideshow
			 To close → Press [MENU/SET] Demo cannot be outputted to TV

Demo cannot be outputted to TV

A Taking picture with automatic settings

Optimum settings are made automatically from information such as 'face', 'movement', 'brightness', and 'distance' just by pointing the camera at the subject, meaning that clear pictures can be taken without the need to make settings manually.

Please set the clock before taking pictures (P.19).



- Focus range \rightarrow (P.41).
- In addition to automatic scene distinction, 'INTELLIGENT ISO * 1.EXPOSURE', 'STABILIZER', and 'CONTINUOUS AF' will operate automatically.
- The following menu items may be set in INTELLIGENT AUTO mode.
- CREC menu: 'PICTURE SIZE*', 'ASPECT RATIO', 'BURST', 'COLOR MODE *', 'STABILIZER *'
- FSETUP menu: 'CLOCK SET', 'WORLD TIME', 'TRAVEL DATE', 'BEEP *', 'LANGUAGE'
- * Items that may be set differ from other recording modes.

Backlight compensation (brighten subject against backlight) To cance



• To cancel compensation \rightarrow Press \blacktriangle again.

Displayed when compensation is on.

To use flash



Select either 🕰 (Auto) or 🛞 (forced flash off).

When using (A), (Auto/red-eye reduction) and (Sow sync./red-eye reduction) will be switched between automatically (see P.38 for details).

A second flash will be emitted in Ma and Ma for red-eye reduction.

• Red-eye reduction may be activated and two flashes emitted, according to conditions.

According to the following conditions, different scene types may be determined for the same subject.
 Face contrast, conditions of subject (size, distance, colouring, movement), zoom ratio, sunset,

- sunrise, low brightness, jitter If desired scene type is not selected, we recommend manually selecting the appropriate recording mode. (scene mode: P.44)
- We recommend using a tripod and the selftimer with 'i NIGHT SCENERY' and 'i NIGHT PORTRAIT'.
- When jitter is small (e.g. using tripod) with 'i NIGHT SCENERY', shutter speed can reach a maximum of 8 seconds. Do not move the camera.



• AUTO RĚVIEW: 2 SEC. • POWER SAVE: 5 MIN. • GUIDE LINE: Ⅲ • WHITE BALANCE: AWB • QUALITY: 酙 (Fine) *1 • AF MODE: ▲ (Face detection) *2 • AF ASSIST LAMP: ON

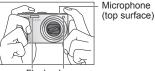
'i MACRO'

• METERING MODE: (...) (Multiple)

*1 0.3 M 🔽 only (standard) *2 🏢 (9 points) when face cannot be recognised • The following functions cannot be used.

'HISTOGRAM', 'EXPOSURE', 'AUTO BRACKET', 'WB ADJUST.', 'DIGITAL ZOOM', 'MIN. SHTR SPEED', 'AUDIO REC.'

- Holding the camera
- Do not block the flash or the lamp. 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.
- Do not block the microphone when recording audio.
- Holding camera vertically (\rightarrow P.31)

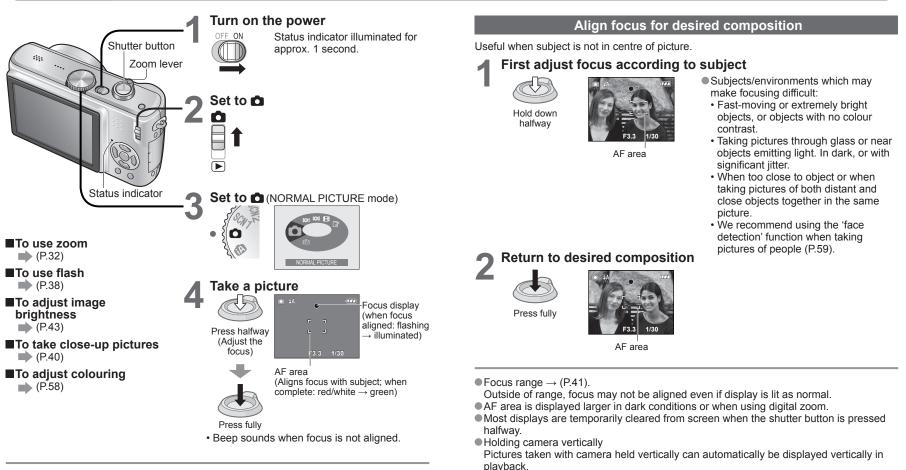


Flash Lamp

e.g. Face too large - 'i PORTRAIT' becomes

Taking pictures with your own settings

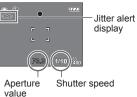
Using REC menu (P.55) to change settings and set up your own recording environment.



(Only when 'ROTATE DISP.' (P.76) set to 'ON')

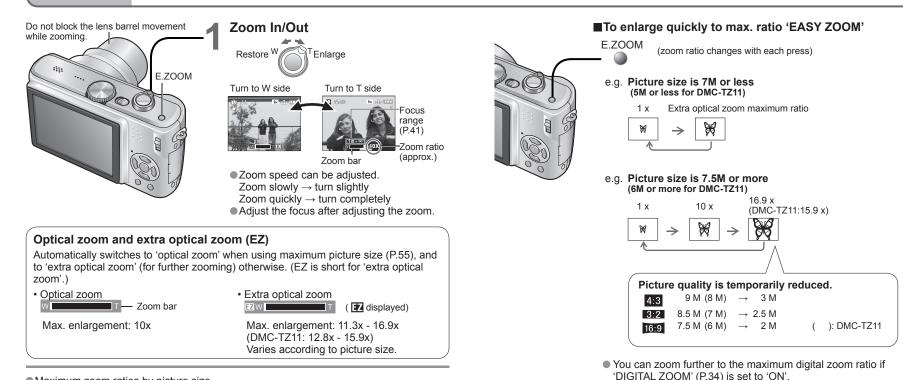
Pictures may not be able to be displayed vertically if taken with camera facing upwards or downwards. Motion pictures cannot be displayed vertically during playback.

- When (jitter alert) is displayed, use the optical image stabilizer (P.62), a tripod, or the self-timer (P.42).
 If aperture value or shutter speed is displayed in red,
- If aperture value or shutter speed is displayed in red, correct exposure has not been achieved. Use flash or change 'SENSITIVITY' (P.57) settings.



Taking pictures with zoom

You can zoom in up to 10 times with 'optical zoom', and up to 16.9 (DMC-TZ11: 15.9) times with 'Extra optical zoom' with lower picture quality. You can also use 'digital zoom' to zoom in even further.



Maximum zoom ratios by picture size

ASPECT RATIO		Optical zoom	Extra optical zoom										
4:3	PICTURE SIZE	9 M (8 M)	7 M 🛃 *1	5 M 🗷	3 M 🗷	2 M 🗷	0.3 M 🗷						
C	Max. enlargement	10 x	11.3 x * 1	13.5 (12.8) x	16.	(
3:2	PICTURE SIZE	8.5 M (7 M)	6 M 🛃 *1	4.5 M 🗷	2.5 M 🔽								
0.2	Max. enlargement	10 x	11.6 x * 1	13.9 (12.8) x	16.9 (15.9) x								
16:9	PICTURE SIZE	7.5 M (6 M)	5.5 M 🛃 *1	3.5 M 🗷	2 M 🗖								
10.5	Max. enlargement	10 x	12.1 x * 1	14.5 (12.8) x	16.9 (15.9) x								

*1 DMC-TZ15 only, ():DMC-TZ11

What is Extra optical zoom (EZ)?

If, for example, set to '3M 😰' (equivalent to 3 million pixels), a picture will only be taken of a 3M-sized central part of a 9 M (equivalent to 9.1 million pixels) *2 area, meaning that the picture can be enlarged further.

*2 DMC-TZ11 : 8M

zoom ratio is reached. 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 colouring appearing around the outlines of objects.

Easy zoom cannot be used while recording motion pictures.

• The camera may make a rattling noise and vibrate when the zoom lever is operated – this is not a fault.

In certain recording modes. TELE MACRO function (P.40) is activated when maximum

• Extra optical zoom cannot be used in the following cases:

The enlargement ratio displayed in the bar on screen is an estimate.

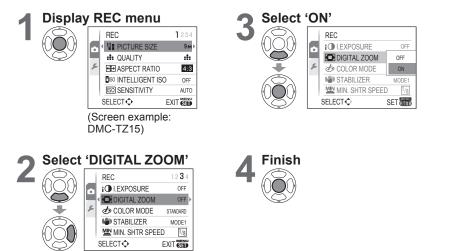
- HIGH SENS.', 'HIGH SENS.', 'HI-SPEED BURST', and 'MULTI ASPECT' scene modes
- When using extra optical zoom, zoom movement may stop momentarily near maximum W (1x), but this is not a fault.
- 'ZOOM RESUME' (P.25) allows zoom ratio to be memorised even if power is turned off.



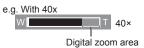
Taking pictures with zoom

Enlarging further ' DIGITAL ZOOM'

Zoom 4 times further than optical/extra optical zoom (maximum $40x - 67.5x^*$). (Note that, with digital zoom, enlarging will lessen picture quality.) * DMC-TZ11: 63.8 x



Digital zoom area is displayed within zoom bar on screen.



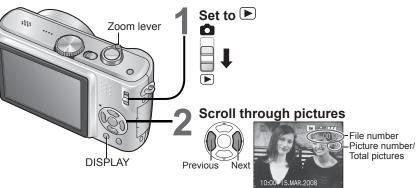
- Zoom motion stops momentarily when entering digital zoom range.
- Within digital zoom range, AF area is displayed larger when the shutter button is pressed halfway.
- We recommend using a tripod and the selftimer (P.42).

• Digital zoom cannot be used in the following modes:

Basics

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.64).)



■To enlarge (playback zoom)



Current zoom position (displayed for 1 sec.)

- Zoom ratio: 1x/2x/4x/8x/16x
- To reduce zoom→ Turn lever towards W side
- Move zoom position $\rightarrow \blacktriangle \triangledown \blacktriangleleft \triangleright$

■To playback as list (P.67)

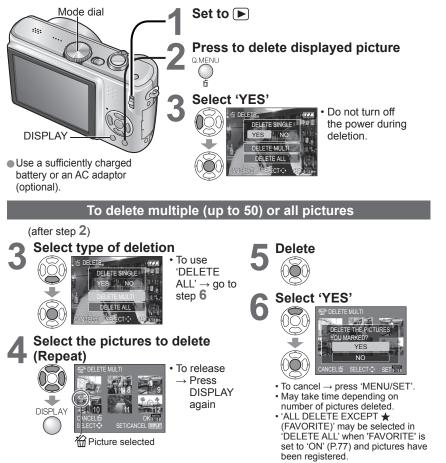
To rotate pictures

P.76)

- Hold down to quickly scroll forwards/ backwards.
- (Only file numbers change while held down; picture is displayed when released)
- Scroll speed increases the longer you press. If file number is not displayed, press display button.
- After the final picture, display returns to the first picture.
- Some pictures edited on computer may not be able to be viewed on this camera. If the REC/PLAY switch is moved from to
 while the power is on, the lens barrel will be retracted after 15 seconds.
- This camera is compliant with the unified DCF (Design rule for Camera File system standard formulated by the Japan Electronics and Information Technology Industries Association (JEITA), and with Exif (Exchangeable image file format). Files that are not DCF-compliant cannot be played back.

Deleting pictures

Pictures deleted will be from card if card is inserted, or from built-in memory if the card is not inserted. Deleted pictures cannot be recovered.



Pictures cannot be deleted in the following cases:

- Protected pictures (P.79) (Release the protection before deleting)
- Card switch is in 'LOCK' position.
 Pictures not of DCF standard (P.35)

Motion pictures can also be deleted.

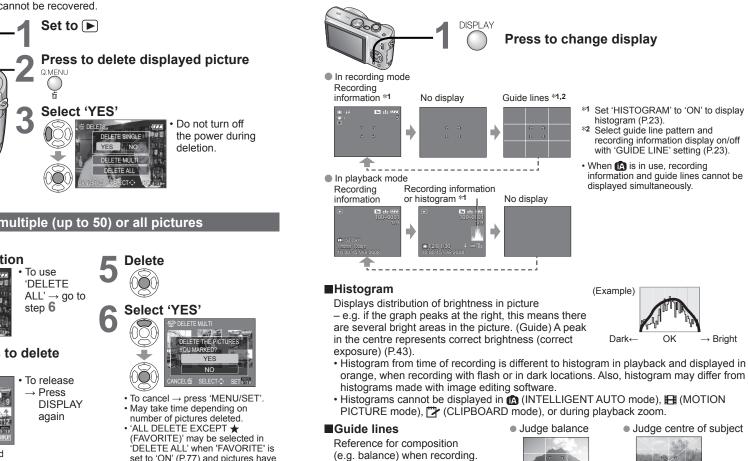
Changing recording information Applications (Record) display

Change between different LCD monitor displays, such as histograms.

During playback zoom, motion picture playback, slideshow : Display on/off

TZ15 only): Display cannot be changed.

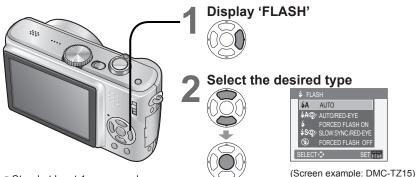
During menu display, multi playback or calendar playback, 'DUAL DISPLAY' (DMC-



VOT1P98



Taking pictures with flash



 Stand at least 1 m away when using flash to take pictures of infants.

Displayed for approx. 5 sec. ●Can also be selected with ►.

	Type, operations	Uses
 ₽A	AUTO • Automatically judges whether or not to flash	Normal use
\$A@ *1 \$A@ *2	AUTO/RED-EYE reduction • Automatically judges whether or not to flash (reduce red-eye)	Taking pictures of subjects in dark places
\$	FORCED FLASH ON • Always flash	
\$ @ ₂ *1 \$ @ ^{*2}	only (P.47))	Taking pictures with backlight or under bright lighting (e.g. fluorescent)
¥S@> *1 ¥S© ^{*2}	Always flash (reduce red-eye) SLOW SYNC./RED-EYE reduction Automatically judges whether or not to flash (reduce red eye; slow shutter speed to take brighter pictures)	Taking pictures of subjects against a nightscape (tripod recommended)
٩	FORCED FLASH OFF • Never flash	Places where flash use is prohibited

*1 When digital red-eye correction function operates, red-eye will be detected and corrected automatically when the flash is emitted. (DMC-TZ15 only) As two flashes will be emitted, do not move until after the second flash (correction effect may vary according to person). Interval between flashes varies according to brightness of subject.
*2 DMC-TZ11 only

Shutter speeds are as follows:

• See, See, ESO, Construction of the second second

Available types in each mode (___: default setting)

	-	•	17		SCENE MODE														
	0		UA)		Ð	. 🤉		38	*2	۳O۱	Ϋ́	Ŷ	<u>چ</u>	2	/ *	22_	3	4	*2
 <i>\$</i> Α	0	_ *1	0	0	0	0	0	—	0	—	—	0	0	0	—	0	0	0	
\$A@>*3	0	—	—	0	0	0	—	—	—	-	—	0	—	—	—	—	—	0	
\$	0	—	0	0	0	0	0	—	0	—	—	0	0	0	0	0	0	0	
\$ 🐢 *3	—	—	—	—	—	—	—	—	—	0	0	—	—	—	—	—	—	—	
\$S @⊳ *3	0	—	—	—	—	—	—	0	—	0	0	—	—	—	—	—	—	0	
\$	0	\bigcirc	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	0	

*1 Set to [4A] (AUTO), [4A© (AUTO/RED-EYE reduction), or [4S© (SLOW SYNC./RED-EYE reduction) according to subject and brightness.

*2 DMC-TZ15 only *3 DMC-TZ11: \$40, 50, 50

• Cannot be used with MOTION PICTURE mode ⊞ and scene modes ⊠, ⊠, ⊠, , , or .

Focus range according to ISO sensitivity and zoom

		Focus range				
		Max. W	Max. T			
	AUTO	Approx. 0.6-5.3 m	Approx. 1.0-3.6 m			
	ISO100	Approx. 0.6-1.6 m	Approx. 1.0-1.1 m			
SENSITIVITY	ISO200	Approx. 0.6-2.3 m	Approx. 1.0-1.6 m			
(P.57)	ISO400	Approx. 0.6-3.3 m	Approx. 1.0-2.2 m			
	ISO800	Approx. 0.8-4.7 m	Approx. 1.0-3.2 m			
	ISO1600	Approx. 1.15-6.7 m	Approx. 1.0-4.5 m			
INTELLIGENT	ISOMAX400	Approx. 0.6-3.3 m	Approx. 1.0-2.2 m			
ISO	ISOMAX800	Approx. 0.8-4.7 m	Approx. 1.0-3.2 m			
(P.56)	ISOMAX1600	Approx. 1.15-6.7 m	Approx. 1.0-4.5 m			
'HIGH SENS.' in SCENE MODE (P.49)	ISO1600- ISO6400	Approx. 1.15-13.5 m	Approx. 1.0-9.1 m			

Do not touch or look at the flash (P.14) from close distances (i.e. a few cm).
 Do not use the flash at close distances to other subjects (heat/light may damage subject).

Flash settings may be changed when changing recording mode.

Scene mode flash settings are restored to default when scene mode is changed.

- 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.
- 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.

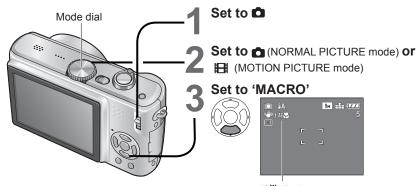
Flash charging may take time if battery is low, or if using flash repeatedly.

• When using 'AUTO LCD OFF' (P.24), LCD monitor is shut off while flash is charging.



Taking close-up pictures

To enlarge the subject, you can take pictures from even closer up than the normal focus range allows (up to 5 cm for max. W) by using 'MACRO (AFW)'.

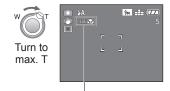


 Focus may take time to align for subjects over 50 cm away. AF♥ display
To cancel Macro mode → Press ▼ again.

Taking close-up pictures without standing close to subject 'TELE MACRO function'

Useful for taking close-up pictures of, for example, birds that may fly away if approached, or to blur background and emphasize subject.

'TELE MACRO' operates automatically when optical or extra optical zoom ratios are set to maximum; focus can be aligned for distances as close as 1 m.



Digital zoom may also be used.

- Cannot be used in the following circumstances:
 When not using 'MACRO' in (NORMAL)
 - PICTURE mode) or 🖽 (MOTION PICTURE mode)
 - Scene modes other than 'FOOD', 'CANDLE LIGHT', 'BABY', 'HIGH SENS.', 'UNDERWATER', 'PET', and 'HI-SPEED BURST'.

TELE 😲 is displayed when using 'macro' in 卤 (NORMAL PICTURE mode) and 🖽 (MOTION PICTURE mode).

- We recommend using a tripod, the self-timer (P.42), and flash 🛞 'FORCED FLASH OFF' (P.38).
- 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.
- When using (A (INTELLIGENT AUTO mode), macro recording can be activated by just pointing the camera at subject. (Red display)



Positioning camera and subject within accessible range for focus alignment

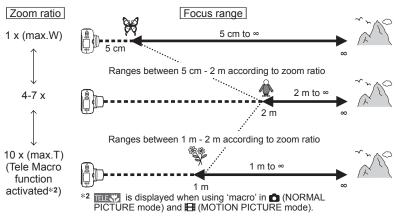
Accessible distance from subject depends on zoom ratio. Ranges for each mode dial setting are listed below.

Focus range

Outside focus range

Mode dial set to: 🚯 📩 *1 🖽 *1

*1 When using MACRO AF



When not using MACRO: 💼 *3 🖽 *3

*3 When not using MACRO AF® Zoom ratio 1 x (max.W) Ranges between 50 cm - 2 m according to zoom ratio 10 x (max.T)

Zoom ratios are approximate.

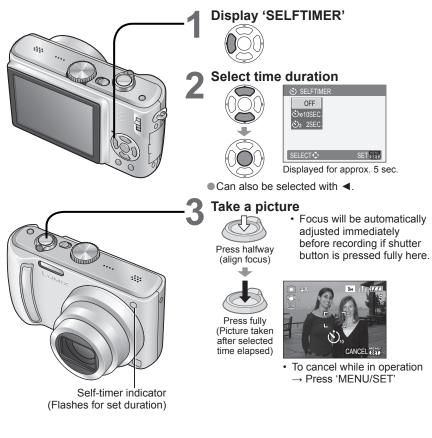
- \blacksquare Ranges for focus alignment differ for scene modes. \rightarrow P.46
- Zoom ratios shown above vary when extra optical zoom is used.
- Max. W: Zoom lever turned as far as possible to W side (no zoom)

Max. T: Zoom lever turned as far as possible to T side (maximum zoom ratio)

Applications (Record)

Taking pictures with self-timer

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



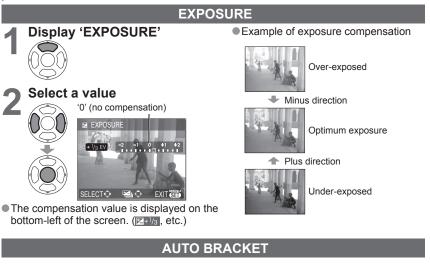
 After self-timer lamp stops flashing, it may then be lit for AF assist lamp. This function cannot be used in the 'UNDERWATER' and 'HI-SPEED BURST' scene

modes or in MOTION PICTURE mode

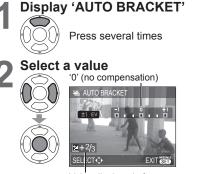
In some modes, only '2SEC.' or only '10SEC.' may be selected. INTELLIGENT AUTO mode: '10SEC.' CLIPBOARD mode, 'SELF PORTRAIT' scene mode: '2SEC,'

Taking pictures with exposure Applications (Record) 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.



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



e.g. AUTO BRACKET with ±1EV



Second picture -1EV (Darker)



Value displayed after exposure compensation set

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

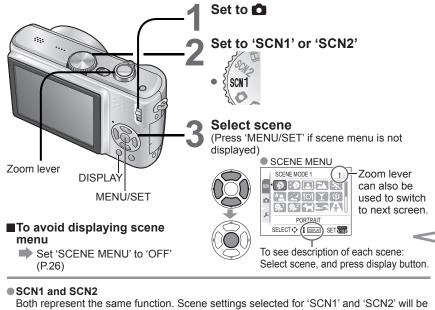
Cancelled when the power is turned off.

Burst setting is cancelled when auto bracket is set.



SCN1 Taking pictures according to the scene 'scene mode'

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



Both represent the same function. Scene settings selected for 'SCN1' and 'SCN2' will be stored in the memory. This function is useful for immediate selection of scene settings you use most often (e.g. 'NIGHT SCENERY' for SCN1, 'NIGHT PORTRAIT' for SCN2).

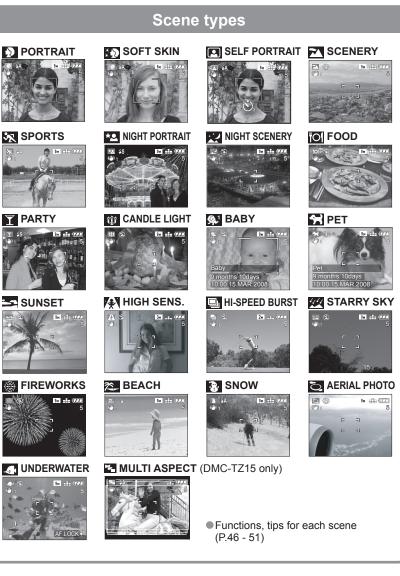
- Selecting a scene mode inappropriate for the actual scene may affect the colouring of your picture.
- Following REC menu settings will be automatically adjusted and cannot be selected manually (available settings vary according to scene setting).

'INTELLÌGENT ISO', 'SENSITIVÌTY', 'METÈRING MODE', 'Î.EXPOSURE', 'COLOR MODE', 'MIN. SHTR SPEED'

•I.EXPOSURE is operated automatically in the following scene modes, according to picture conditions.

'PORTRAIT', 'SOFT SKIN', 'SELF PORTRAIT', 'SCENERY', 'SPORTS', 'NIGHT PORTRAIT', 'PARTY', 'CANDLE LIGHT', 'BABY', 'SUNSET', 'HIGH SENS.'

- 'WHITE BALANCE' can be set to the following.
 'PORTRAIT', 'SOFT SKIN', 'SELF PORTRAIT', 'SPORTS', 'BABY', 'PET', 'HIGH SENS.', 'HI-SPEED BURST', 'MULTI ASPECT (DMC-TZ15 only)'
 (Setting is restored to 'AWB' when scene is changed.)
- The types of flash available (P.39) vary according to the scene.
 The scene mode flash setting is reset to the default setting when the scene mode is changed.
- Guidelines displayed in gray in 'NIGHT PORTRAIT', 'NIGHT SCENERY', 'STARRY SKY', and 'FIREWORKS' scene modes.





SCN1 SCN2 Taking pictures according to the scene 'SCENE MODE' (Continued)

How to select a scene (P.44) Using flash in scene modes (P.39)

Scene	Uses, Tips	Notes
D PORTRAIT	Improves the skin tone of subjects for a healthier appearance in bright daylight conditions. Tips • Stand as close as possible to subject. • Zoom: As telescopic as possible (T side)	 'AF MODE' default setting is 2' (face detection).
SOFT SKIN	Smooths skin colours in bright, outdoor daylight conditions (portraits from chest upwards). Tips • Stand as close as possible to subject. • Zoom: As telescopic as possible (T side)	 Clarity of effect may vary depending on brightness. 'AF MODE' default setting is (face detection).
SELF PORTRAIT	 Take pictures of yourself. Tips Press shutter button halfway → self-timer indicator illuminates → press shutter button fully → review (if self-timer indicator flashes, focus is not correctly aligned) Focus: 30 - 70 cm (Max. W) Do not use zoom (harder to focus). (Zoom moved to max. W automatically) 2-second self-timer (P.42) recommended. 	 To take pictures with audio (P.63) (self-timer indicator illuminated during recording) Main fixed settings STABILIZER: MODE2 AF ASSIST LAMP: OFF SELFTIMER: OFF/2SEC. ZOOM RESUME: OFF 'AF MODE' default setting is 'A' (face detection).
	Take clear pictures of wide, distant subjects.	Main fixed settings FLASH: FORCED FLASH OFF
SCENERY	 Stand at least 5 m away. 	AF ASSIST LAMP: OFF
SPORTS	Take pictures of scenes with fast movement, e.g. sports. Tips • Stand at least 5 m away.	Main fixed setting INTELLIGENT ISO: ISOMAX800 Digital zoom: Cannot be set

Scene	Uses, Tips	Notes
★2 NIGHT PORTRAIT	Take pictures of people and nightscapes with close to actual brightness. Tips • Subject should not move for at least 1 second. (Shutter speed: max. 1 sec.) • Use flash. • Tripod, self-timer recommended. • Stand 1.2 - 5 m (Max. W (wide-angle), 1.5 m recommended) away.	 Interference may be noticeable with dark scenes. Shutter may remain closed for 1 second after taking picture. Main fixed setting CONTINUOUS AF: OFF 'AF MODE' default setting is (face detection).
NIGHT SCENERY	 Take clear pictures of night scenes. Tips Stand at least 5 m away. Do not move for 8 seconds. (Shutter speed: max. 8 sec. if little jitter, or using tripod, or optical image stabilizer is 'OFF') Tripod, self-timer recommended 	 Interference may be noticeable with dark scenes. Shutter may remain closed for up to 8 seconds after taking picture. Main fixed settings FLASH: PORCED FLASH OFF CONTINUOUS AF: OFF AF ASSIST LAMP: OFF SENSITIVITY: ISO100-800
TO FOOD	Take natural-looking pictures of food. Tips • Focus: Max. W: 5 cm and above Max. T : 1 m and above (2 m unless max.T)	-
T PARTY	Brighten subjects and background in pictures of indoor events, such as weddings. Tips • Stand approx. 1.5 m away. • Zoom: Wide (W side) • Use flash. • Tripod, self-timer recommended.	 'AF MODE' default setting is A (face detection).
ûî CANDLE LIGHT	 Bring out the atmosphere of a candlelit room. Tips Focus: Max. W: 5 cm and above Max. T : 1 m and above (2 m unless max.T) Do not use flash. Tripod, self-timer recommended. (Shutter speed: max. 1 sec.) 	 'AF MODE' default setting is (face detection).

Applications (Record)

SCN1 SCN2 Taking pictures according to the scene 'SCENE MODE' (Continued)

How to select a scene (P.44) Using flash in scene modes (P.39)

Scene	Uses, Tips	Notes
象1 察2 BABY	Uses weak flash to bring out skin colours. Tips • To record age and name ('BABY1' and 'BABY2' can be set separately.) SELECT ◆ SET ① Select 'AGE' or 'NAME' with ▲▼, press ▶, and select 'SET'. ② Set the birthday and name. Birthday: Set birthday with ▲▼ ◆ ▶. Name: (See 'Text input method': P.72) ③ Press 'MENU/SET'. • Make sure 'AGE' and 'NAME' are 'ON' before taking a picture. • To reset: Select 'RESET' from SETUP menu. • Focus: Max. W: 5 cm and above Max. T : 1 m and above (2 m unless max.T)	 Age and name will be displayed for approx. 5 seconds after setting this mode. Age display format depends on LANGUAGE setting. 'AGE' and 'NAME' print setting can be made on your computer using the supplied CD-ROM (PHOTOfunSTUDIO -viewer-). Text may also be stamped onto the picture using 'TEXT STAMP' (P.73). Date of birth will be displayed as '0 month 0 day'. Main fixed setting INTELLIGENT ISO: ISOMAX400 'AF MODE' default setting is 'C' (face detection). Digital zoom: Cannot be set Name cannot be recorded when 'LOCATION' is set in 'TRAVEL DATE'.
PET	Record pet's age when taking pictures. Tips • Same as for 'BABY' Take clear pictures of scenes such as sunsets.	 Main fixed setting INTELLIGENT ISO: ISOMAX800 Default settings are as follows. AF MODE: (one-area-focusing) AF ASSIST LAMP: OFF Refer to 'BABY' (above) for other notes and fixed functions. Main fixed settings FLASH: FORCED FLASH OFF AF ASSIST LAMP: OFF
SUNSET		

Scene		Uses, Tij	os	Notes
HIGH SENS.	Prevents blurring of subject in dark, indoor conditions. Tips Select the aspect ratio and the picture size with ▲ ▼ and press 'MENU/SET'.			 Pictures may appear slightly grainy due to high sensitivity. Main fixed settings QUALITY: (Standard) SENSITIVITY: ISO1600 - 6400 Extra optical zoom and digital zoom cannot be used.
HI-SPEED BURST	Take pictures of rapid movement or a decisive moment. Tips ① Select the aspect ratio and the picture size with ▲ ▼ and press 'MENU/SET'. Image: Aspect aspect ratio and the picture size with ▲ ▼ and press 'MENU/SET'. Image: Aspect aspect ratio and the picture size with ▲ ▼ and press 'MENU/SET'. Image: Aspect as		ment or a the picture size (SET'. button) nuously while the ly. ures/sec. ures/sec. Approx. 20 Approx. 20 to 100 (The maximum is 100). ber of recordable g to the recording is.	 The number of burst recording pictures increases immediately after formatting. The recorded pictures become slightly grainy. Main fixed settings FLASH: FORCED FLASH OFF QUALITY: CStandard) SENSITIVITY: ISO500 – 800 The focus, zoom, exposure, white balance, shutter speed and ISO sensitivity are fixed to the settings for the first picture. The following functions cannot be used. Extra optical zoom/ Digital zoom/ AUTO BRACKET/ SELF TIMER/ASPECT RATIO/ PICTURE SIZE / AUDIO REC./ BURST

Applications (Record)

SCN1 SCN2 Taking pictures according to the scene 'SCENE MODE' (Continued)

How to select a scene (P.44) Using flash in scene modes (P.39)

Scene	Uses, Tips	Notes
STARRY SKY	Take clear pictures of starry skies or dark subjects. • Shutter speed settings ① Select with ▲ ▼, and press 'MENU/SET'. Image: Set of starry skies or dark starry skies or dark setting. ③ Sec. ③ Sec. ③ Sec. ○ Sec. ○ CAUCELIG SELECTO SET * Oress shutter button. Image: Sec. ○ CAUCELIG SELECTO SET * Oress shutter button. Image: Sec. ○ CAUCELIG SELECTO SET * Countdown begins * Set longer shutter speeds for darker conditions. • Self-timer recommended. • Do not move the camera until the countdown (above) has ended. • Do not move the camera until the countdown (above) has ended. • Countdown for processing is redisplayed afterwards)	 Main fixed settings FLASH: FORCED FLASH OFF AUDIO REC.: OFF CONTINUOUS AF: OFF STABILIZER: OFF SENSITIVITY: ISO100 'EXPOSURE', 'AUTO BRACKET', and 'BURST' cannot be used.
FIREWORKS	Take clear pictures of fireworks in the night sky. Tips • Stand at least 10 m away. • Tripod recommended.	 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) Main fixed settings FLASH: FORCED FLASH OFF SENSITIVITY: ISO100 CONTINUOUS AF: OFF AF ASSIST LAMP: OFF
え BEACH	Bring out the clear blues of the sky and the sea without darkening subject.	 'AF MODE' default setting is (face detection). Beware of sand and sea water.
3 SNOW	Bring out the natural colour of snow in ski slope and mountain scenes.	Battery life is reduced in lower air temperatures.

Scene	Uses, Tips	Notes
AERIAL PHOTO	 Take pictures of the view from aircraft windows. Tips Angle the camera towards areas of contrasting colours when aligning the focus. Check that the interior of the aircraft is not reflected in the window. 	 Main fixed settings FLASH: B FORCED FLASH OFF AF ASSIST LAMP: OFF Turn the camera off when taking off or landing. When using the camera, follow all instructions from the cabin crew.
UNDERWATER	Achieve natural colours under water. Tips • 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.58). • Focus: Max. W: 5 cm and above Max. T : 1 m and above (2 m unless max.T)	Always use marine case (DMW- MCTZ5, optional). Self-timer: Cannot be used AF LOCK (focus fixed) AF area
MULTI ASPECT (DMC- TZ15 Only)	Take pictures in each of the three aspect ratios (4:3, 3:2, 16:9) in one go. Tips • Ensure that subject is in centre of picture. 3:2 (Red) 16:9 (Green) 4:3 (Blue)	 Main fixed settings QUALITY: E (Standard) PICTURE SIZE: Max. size of each aspect ratio Cannot be used when memory is only available for 2 pictures or fewer (number flashes). Focus, exposure, white balance, and ISO sensitivity settings will be the same for all three pictures. The following functions cannot be used. Extra optical zoom/ Digital zoom/ AUTO BRACKET/ GUIDE LINE/ HISTOGRAM/ BURST/ AUDIO REC. Edges may be cut off when printing – be sure to check in advance.



4

Taking motion pictures

'MOTION PICTURE'

Record motion pictures and sound (motion pictures cannot be recorded without sound). You can take a motion picture while zooming.

	Set REC/PL	AY switch to 🗖	ę	Set 'AS	t and picture PECT RATIO RE MODE'.		
2	Set mode di (MOTION PICT			ASPECT RATIO	PICTURE MODE	Picture size	Dimen
	,	,			30fps VGA	640 x	Larger
	Start record	ling			10fps VGA	480	QVC
)		Available recording time		4:3	30fps QVGA*1		Sma
	Press halfway (align focus)	(approx.)			10fps QVGA*1	320x 240	(For e- attachn or lon record
					30fps 16:9H* 2	1280 x	Large (
		ų.			15fps 16:9H* 2	720	'30fps ' 1280 x
		55		16:9	30fps 16:9(L)	848 x	is for h
	Press fully	$\square \square $			10fps 16:9(L)	480	defini record
	(start recording)	Elapsed time (approx.)	*	1 Only	QVGA-forma	t motior	1 picture
	Finish				ecorded to the		
		 Ends automatically if memory is full. 	7	high com	can view mot definition by ponent cable	conne	cting wi

Press fully

• A maximum of approx. 2 GB can be recorded in any one session. (Available recording time is calculated on a 2 GB basis (estimated).) To continue recording, press the shutter button again.

	RATIO	MODE	size	Dimension
		30fps VGA	640 x	Larger than
		10fps VGA	480	QVGA
	4:3	30fps QVGA*1		Small
	ч.0	10fps QVGA*1	320x 240	(For e-mail attachments or longer recording)
		30fps 16:9H*2	1280 x	Large (Wide)
	16:9	15fps 16:9H* ²	720	'30fps 16:9H 1280 x 720'
		30fps 16:9(L)	848 x	is for high-
		10fps 16:9(L)	480	definition recording

ly QVGA-format motion pictures can recorded to the built-in memory.

- u can view motion pictures in h definition by connecting with mponent cable (optional). DMC-TZ15 only) (P.87)
- · fps: frames per second
- '30fps': for smooth picture movement '10fps': for longer motion pictures
- Estimated recording time (P.100)
- To viewing motion pictures (P.68)
- Do not block microphone (P.14) with fingers.
- Release shutter button immediately after pressing. No audio will be recorded for a few seconds if the button is held down.
- Easy zoom cannot be used while recording motion pictures.
- Sounds of camera operations, such as zoom movement and beeps, may be recorded.
- Zoom speed is slower than normal.
- Setting 'CONTINUOUS AF' to 'ON' makes focus easier to align when using zoom.
- The following functions cannot be used. STABILIZER 'MODE2', AF MODE (Face detection), COLOR MODE (NATURAL/VIVID), Extra
- optical zoom, 'ROTATE DISP.' for pictures taken vertically Long videos may not be able to be sent via e-mail.
- Recording may be terminated midway, depending on card type.
- We recommend using a card of at least 10 MB/s (as marked on its packaging, etc.). Not compatible with MultiMediaCards.



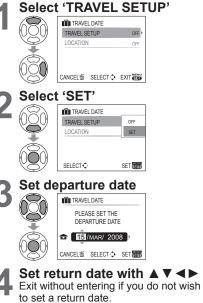
Useful features for travel

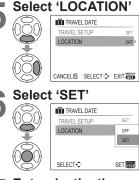
TRAVEL DATE (Record travel date and destination)

Record information as to what day and where pictures were taken by setting departure dates and destinations.

- Set-up: Clock must be set in advance (P.19).
 - Press 'MENU/SET' → 'SETUP MENU' → Select 'LOCATION' (P.20)

r





Enter destination

Text input method (P.72)

 Press 'MENU/SET' twice after inputting text to complete

To release

setting is released automatically one return date has passed. To release before this date, select 'OFF' in step 2, and press 'MENU/SET' twice.

- The number of days elapsed is displayed for approx. 5 sec. when switching from playback to recording mode. (I displayed at bottom-right of screen)
- When destination is set in 'WORLD TIME' (next page), 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).
- Text in 'LOCATION' can be edited after recording with 'TITLE EDIT' (P.72).
- To print travel date or destination \rightarrow Use 'TEXT STAMP' (P.73), or print using supplied CD-ROM (PHOTOfunSTUDIO-viewer-).
- Names in 'BABY' and 'PET' scene modes cannot be recorded when 'LOCATION' is set.
- 'LOCATION' cannot be recorded in motion picture recording.



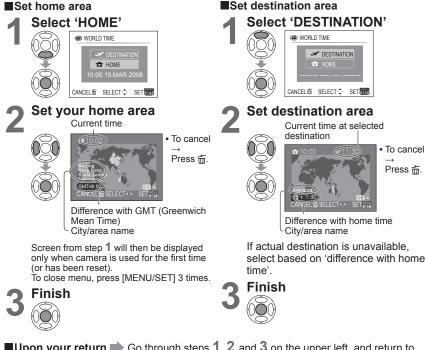
Useful features for travel (Continued)

WORLD TIME Registering local time at your overseas destination

Set-up: • Clock must be set in advance (P.19).

• Press 'MENU/SET' \rightarrow '**F**SETUP MENU' \rightarrow Select 'WORLD TIME' (P.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 $\mathbf{2}$.



■Upon your return → Go through steps 1, 2 and 3 on the upper left, and return to the original time.

■To set/release summer time 🕸



Press \blacktriangle in step **2**. (Press again to release)

- Clock settings will not be changed even if home summer time is set. Advance the clock setting by one hour.
- Pictures recorded when set to destination will be displayed with in playback mode.



Using REC menu REC/PLAY switch:

Default setting:

'Quick setting' (P.66) is useful to easily call up frequently-used menus.

PICTURE SIZE

Set size of picture. Number of pictures which can be recorded depends on this setting and on 'QUALITY' (see below). (P.100)

■Set-up: Mode dial I I I SCN1 SCN2 → Press 'MENU/SET' → Select 'PICTURE SIZE' (P.20)

Settings:

ASPECT RATIO (P.56)	Picture size							
4.2	9 M *1	(3456 ×2592)	7 M 🛃 *2	(3072 ×2304)	5 M 🗾	(2560 ×1920)	3 M 🗷	(2048 ×1536)
4:3	2 M 🛃	(1600 ×1200)	0.3 M 🛃	(640 ×480)	_	-	_	-
3:2	8.5 M *3	(3552 ×2368)	6 M 🛃 *2	(3072 ×2048)	4.5 M 🛃	(2560 ×1712)	2.5 M 🗾	(2048 ×1360)
16:9	7.5 M *4	(3712 ×2088)	5.5 M 🗾 *2	(3072 ×1728)	3.5 M 🛃	(2560 ×1440)	2 M 🗾	(1920 ×1080)

• Picture sizes for DMC-TZ11 model are as follows. *1 : 8 M(3264×2448), *2 : None, *3 : 7 M(3264×2176), *4 : 6 M(3264×1840)

Extra optical zoom can be used for picture sizes indicated with 2.

- When using (1 (INTELLIGENT AUTO mode), 7 M 2 and 2 M 2 may not be selected with 4:3 ratio, 6 M 2 with 3:2 ratio, nor 5.5 M 2 with 16:9 ratio.
- Extra optical zoom is not used in the 'HIGH SENS.', 'HI-SPEED BURST', and 'MULTI ASPECT' (DMC-TZ15 only) scene modes.

Mosaic effect may appear depending on subject and recording conditions.

Setting guide

Larger picture size	Smaller picture size*
Crisper picture	Coarser picture
lower recording capacity	higher recording capacity

* For example, '0.3 M 🗹 ' is suitable for e-mail attachments or longer recording.

QUALITY

Set quality of picture.

Set-up: Mode dial \bigcirc SCN1 SCN2 \rightarrow Press 'MENU/SET' \rightarrow Select 'QUALITY' (P.20)

- **Settings:** Fine (High quality, priority to picture quality)
 - Standard (Standard quality, priority to the number of pictures)

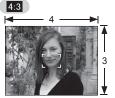


ASPECT RATIO

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

■Set-up: Mode dial t C SCN1 SCN2 日 → Press 'MENU/SET' → Select 'ASPECT RATIO' (P.20)

Settings:





Same as 4:3 TV or computer

Same as normal film camera For playback

16:9

For playback on widescreen/ high definition TV

• Edges may be cut off when printing – be sure to check in advance.

EISO INTELLIGENT ISO

Camera automatically adjusts ISO sensitivity and shutter speed according to movement of subject to avoid blur. Higher ISO sensitivity reduces subject blur and jitter but can increase interference. Please select maximum ISO sensitivity according to table below.

Set-up: Mode dial $\square \rightarrow$ Press 'MENU/SET' \rightarrow Select 'INTELLIGENT ISO' (P.20)

Settings: OFF / 150MAX / 150MAX / 150MAX

Setting guide

Movement of subject	Slow	\leftrightarrow	Fast
ISO sensitivity	Low		High
Shutter speed	Slow		Fast
Interference	Low		High

Slow-moving subject



ISO sensitivity 200 (Shutter speed 1/30)





ISO sensitivity 800 (Shutter speed 1/125)

- Shutter speed and ISO sensitivity are displayed in the screen for a few seconds after recording.
- If interference becomes noticeable, we recommend reducing the setting, or selecting 'NATURAL' in the 'COLOR MODE'.
- Blurring may occur depending on brightness, and size, position, and speed of movement of the subject (e.g. if subject is too small, is on edge of picture, or starts moving as soon as shutter button is pressed).

Scope of flash recording (P.39)

REC/PLAY switch:

ISO SENSITIVITY

Set ISO sensitivity (sensitivity to lighting) manually. We recommend higher settings to take clear pictures in darker locations.

Set-up: Mode dial $\square \rightarrow$ Press 'MENU/SET' \rightarrow Select 'SENSITIVITY' (P.20)

Settings: AUTO / 100 / 200 / 400 / 800 / 1600

Setting guide

SENSITIVITY	100	\leftarrow	1600
Location (recommended)	Bright (outdoors)		Dark
Shutter speed	Slow		Fast
Interference	Low		High

 AUTO: Automatically set with range up to 400 (1000 when using flash) according to brightness.

 'I.EXPOSURE' will not operate when set to '100'. Sensitivity will be adjusted automatically between 200 and 400, according to brighten, when 'AUTO' is in use.
 Scope of flash recording (P.39)

- Cannot be set when 'INTELLIGENT ISO' is used (**IIISO** is displayed)
- If interference becomes noticeable, we recommend reducing the setting, or selecting 'NATURAL' in the 'COLOR MODE' (P.62).



REC/PLAY switch:

WB WHITE BALANCE

Adjust colouring to suit light source if colours otherwise appear unnatural.

- ■Settings: AWB (automatic) / ☆ (outdoor, clear sky) / ▲ (outdoor, cloudy sky) / ☆ (outdoor, shade) / .♡. (halogen lighting) / 凰 (uses value set in 凰SET) / 凰SET (set manually)
- 'AWB' operational range:

_			
	10000K	● Blue sky	Image n
	9000K	- Dide Sky	This fun
	8000K		even wi
	7000K	Cloudy sky (rain)	sources We reco when ur
	6000K	→ TV screen	when u
	5000K		
	4000K	 White fluorescent lighting 	
	3000K	la condecent linkting	
	2000K	 Incandescent lighting Sunset/sunrise 	
	1000K	Candlelight	

- Image may appear red or blue if out of range. This function may also not work correctly even within range if there are many light sources present.
- We recommend setting to 'AWB' or ' set' when under fluorescent lighting.

White balance fine adjustment (excluding 'AWB')

White balance settings can be individually fine tuned if colors still do not appear as anticipated.

- ① Press ▲ several times until 'WB ADJUST.' is displayed.
- ② Adjust with ► if reds are strong, adjust with \blacktriangleleft if blues are strong.

3 Press 'MENU/SET'.

- Settings are remembered even if power is turned off.
- Settings remain applied when using flash.
- Even though the 'AWB' setting is fixed in 'UNDERWATER' scene mode, fine adjustments may still be made.
- Fine adjustments cannot be made when 'COLOR MODE' (P.62) is set to 'B/W', 'SEPIA', 'COOL', or 'WARM'.

Setting white balance manually (SET)

- Select ■SET and press 'MENU/SET'.
- ② Point the camera towards a white object (e.g. paper) and press 'MENU/SET'.
- ③ Press 'MENU/SET' twice.
- Making this setting will reset white balance fine adjustment.

when making fine adjustment

Changes to red (blue)



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



• METERING MODE

You can change the position for measuring brightness when correcting exposure.

■Set-up: Mode dial
■
H → Press 'MENU/SET' → Select 'METERING MODE' (P.20)

Settings:

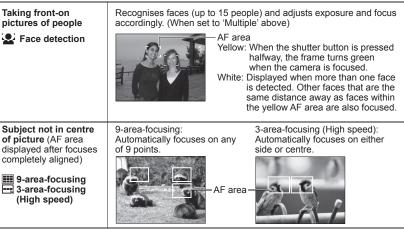
	Brightness measurement position	Conditions
(•) Multiple	Whole screen	Normal usage (produces balanced pictures)
Centre weighted	Centre and surrounding area	Subject in centre
• Spot	Centre and close surrounding area	Great difference between brightness of subject and background (e.g. person in spotlight on stage, backlighting)

AF MODE

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

■Set-up: Mode dial
SCN1 SCN2
H → Press 'MENU/SET' → Select 'AF MODE'
(P.20)

■Settings: 🔄 / 🕮 / 🖼 / 💷 / 💽 / 💽 (H: High-speed focus)



Applications (Record)

Using REC menu (Continued)

REC/PLAY switch:

Determined position for focus (1-area-focusing (High speed)) (1-area-focusing)	1-area-focusing (High speed)/ 1-area-focusing: Focuses on AF area in centre of picture. (Recommended for when focus is difficult to align)	Spot-focusing: Focuses on smaller, limited area.	
• (Spot-focusing)	AF area Spot AF area		

• When using - or , picture may freeze momentarily before focus is aligned.

- AF area becomes larger in dark locations or when using digital zoom, etc.
- Use or if focus is difficult to align with .
- Cannot set to 'Face detection' in the following cases.
 'NIGHT SCENERY', 'FOOD', 'STARRY SKY', 'FIREWORKS', AERIAL PHOTO', 'UNDERWATER' scene modes, I (MOTION PICTURE mode)
- If the camera detects subjects other than a person as the face, switch the AF mode setting to any modes other than 'face detection'.
- The face detection function may fail to work under the following conditions. (AF mode setting is switched to III)
- When the face is not facing the camera or at an angle
- · When there is rapid movement
- When the camera is shaking
- When the facial features are hidden behind sunglasses, etc.
- When the subject is other than a human being such as pets
- When the face is extremely bright or dark
- When the face appears small on the screen

When digital zoom is used

CAF CONTINUOUS AF

Focus is continually aligned according to movement of subject even when shutter button is not pressed. (Increases battery consumption)

Set-up: Mode dial \bigcirc SCN1 SCN2 \boxplus \rightarrow Press 'MENU/SET' \rightarrow Select 'CONTINUOUS AF' (P.20)

Settings: OFF /ON (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 , or 'AF MODE', focus will be aligned quickly when shutter button is pressed halfway.

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

$\blacksquare Set-up: \text{ Mode dial } \textcircled{O} SCN1SCN2 \rightarrow \text{Press 'MENU/SET'} \rightarrow \text{Select 'BURST' (P.20)}$

Settings

BURST setting	Speed No. of pictures *1	
OFF	No burst	
l⊒∎ (Burst)	2.5 pictures/sec. (DMC-TZ15) Image: Fine: Max. 3 (Max.4: DMC-TZ11) 3 pictures/sec. (DMC-TZ11) Image: Fine: Max. 3 (Max.4: DMC-TZ11)	
🖵 (Free)	Approx. 2 pictures/sec *2	Until card/built-in memory is full

*1 : When using self-timer: Fixed at 3 pictures

*2 : Becomes progressively slower. (Delayed timing depends on card type, PICTURE SIZE, and QUALITY.)

• Focus is fixed from first picture.

- When I (Burst) is selected, the exposure and white balance are fixed to the settings for the first picture.
- When I is selected, exposure and white balance is adjusted for each picture.
- Burst speed may be reduced if 'SENSITIVITY' is set to high, or if shutter speed is reduced in darker locations.
- When burst setting is use, flash is prevented from operating, and auto bracket setting is cancelled.
- Settings will be stored even if power is turned off.
- 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.
- Using the 'HI-SPEED BURST' scene mode allows a faster succession of photographs to be taken (P.49).

i I.EXPOSURE

Automatically adjusts contrast and exposure to give more lifelike colours when there is significant contrast between background and subject.

Set-up: Mode dial $\square \rightarrow$ Press 'MENU/SET' \rightarrow Select ' I.EXPOSURE' (P.20)

Settings: OFF /ON (i displayed on screen)

•When set to 'ON', 'SENSITIVITY' of '100' becomes 'AUTO'.



REC/PLAY switch:

DIGITAL ZOOM

Multiplies effect of optical zoom or extra optical zoom by up to 4 times. (See P.34 for details)

■Set-up: Mode dial I SCN1 SCN2 日 → Press 'MENU/SET' → Select 'DIGITAL ZOOM' (P.20)

Settings: OFF /ON

COLOR MODE

Set colour effects.

- Set-up: Mode dial () \square \square \square \rightarrow Press 'MENU/SET' \rightarrow Select 'COLOR MODE' (P.20)
- Settings: STANDARD / NATURAL (soft) / VIVID (sharp) / B/W / SEPIA / COOL (more blue) / WARM (more red)

If interference is noticeable in dark locations: Set to 'NATURAL'.

- Cannot be se to 'COOL' and 'WARM' in (INTELLIGENT AUTO mode), and 'NATURAL' and 'VIVID' in 🖽 (MOTION PICTURE mode).
- Individual settings can be made for each recording mode.

() STABILIZER

Automatically detects and prevents jitter.

■Set-up: Mode dial (SCN1 SCN2) → Press 'MENU/SET' → Select 'STABILIZER' (P.20)

Settings:

Settings Effect		Effect
OFF IN Pictures deliberately taken with no jitter correction		
MODE1 (Monitor image stable, composition easy to determine)		
MODE2	((U)) 2	Correction at moment shutter button is pressed (More effective than MODE1)

- Setting fixed to 'MODE2' in 'SELF PORTRAIT' and 'OFF' in 'STARRY SKY' scene modes.
- Cannot be set to 'OFF' in (A) (INTELLIGENT AUTO mode), and 'MODE2' in (MOTION PICTURE mode).
- Cases where optical image stabilizer may be ineffective:

Heavy jitter, high zoom ratio, fast-moving objects, indoors or in dark locations (due to low shutter speed)

MIN. SHTR SPEED

Sets shutter speed to minimum. We recommend using slower shutter speeds to take brighter pictures in dark locations.

Set-up: Mode dial $\square \rightarrow$ Press 'MENU/SET' \rightarrow Select 'MIN. SHTR SPEED' (P.20)

Settings: 1/200 1/125 1/60 1/30 1/15 1/8 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.
- As pictures may become dark when using faster values such as '1/200', we recommend that pictures are taken in bright locations (Might flashes red when shutter button is halfpressed if picture will be dark).
- Image: displayed on screen for settings other than '1/8'.
- Cannot be set when 'INTELLIGENT ISO' is used. (P.56)

AUDIO REC.

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

Set-up: Mode dial \bigcirc SCN1 SCN2 \rightarrow Press 'MENU/SET' \rightarrow Select 'AUDIO REC.' (P.20)

- Settings: OFF /ON (Record approx. 5 seconds of sound (U displayed on screen))
- To cancel recording \rightarrow Press 'MENU/SET'.
- To play audio \rightarrow set REC/PLAY switch to \blacktriangleright (play), play image, and press \blacktriangle . (To adjust volume \rightarrow 'VOLUME' (P.23))
- Cannot be used with (A) (INTELLIGENT AUTO mode), 'BURST', 'AUTO BRACKET', or the 'STARRY SKY', 'HI-SPEED BURST', and 'MULTI ASPECT (DMC-TZ15 only)' scene modes.
- 'TEXT STAMP', 'RESIZE', 'TRIMMING', and 'ASPECT CONV.' cannot be used with pictures with audio.
- Separate setting to 'AUDIO REC' in CLIPBOARD menu (P.65).

• Do not block microphone (P.14) with fingers.

AF* AF ASSIST LAMP

Illuminates lamp when dark to facilitate focus alignment.

■Set-up: Mode dial D SCN1 SCN2 日 → Press 'MENU/SET' → Select 'AF ASSIST LAMP' (P.20)

ON: Lamp illuminated with halfway press of shutter

button (AF* and larger AF area displayed)

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



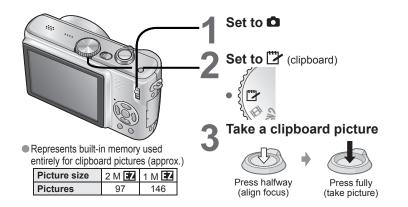
Lamp: Effective distance: 1.5 m (Do not cover or look at lamp from close range)

CLOCK SET

Set the clock. Same function as that in SETUP menu (P.19).



Taking/viewing clipboard pictures (CLIPBOARD)



Viewing clipboard pictures

Set REC/PLAY switch to

Set mode dial to (CLIPBOARD mode)

- Can be viewed with same operations as with still pictures taken in other modes (P.35). (30-picture and calendar displays cannot be used.)
- Copy clipboard pictures onto memory cards in order to print (next page).
- ■To delete clipboard pictures → Press 亩 (delete) in step 2 above. (P.36)

If internal memory is full

Non-clipboard pictures can be deleted from the internal memory by removing card from camera, setting mode dial to a setting other than " (CLIPBOARD mode), and pressing 亩 (delete).

Playback mode functions cannot be used.

'STABILIZER' setting made in REC menu will be reflected in clipboard mode.
 Functions unavailable:

INTELLIGENT ISO, METERING MODE, I.EXPOSURE, MIN. SHTR SPEED BURST, DIGITAL ZOOM, AUTO BRACKET, WB ADJUST, CONTINUOUS AF, COLOR

MODE, AUTO LCD OFF, HISTOGRAM

The settings for the following functions are fixed.

	÷	SENSITIVITY	AUTO	AF ASSIST	ON
QUALITY	(Standard)	WHITE BALANCE	AWB	LAMP GUIDE LINE	
				GOIDE LINE	H
ASPECT RATIO	4:3	AF MODE	(1-area-focusing)	POWER SAVE	5MIN.

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. **Beware of copyrights, etc. (P.2)**

Zoom mark

Useful for enlarging and saving parts of maps, etc.

To register zoom enlarged size and position

① Enlarge with zoom lever and select position with ▲▼◀►

- © Press
 - AXX BRANCHER BELLEVIEWER BELLE
- To change zoom and position: Repeat the left
 - To finish zoom mark setting: Restore zoom to original (normal) ratio

 Image: state of the state of the

To view registered ratio and position:

①Display picture with ② Turn to T side

 Turn to T side (No need to manually enlarge or move)

Zoom lever

Immediately displayed at recorded size and position



- When a picture with a zoom mark is deleted, both original picture and picture with zoom mark will be deleted.
- Picture can be deleted even while zoomed in.

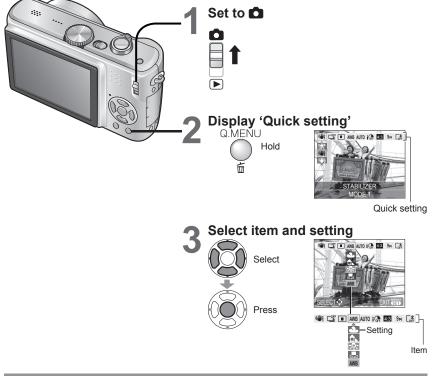
CLIPBOARD menu

A special menu is used in CLIPBOARD mode. (Default setting:) REC ON CLIPBOARD menu (REC/PLAY switch: 👩 Mode dial: 🕎)				
PICTURE SIZE	2 M 🛃 (Priority to picture quality) / 1 M 🕏 (Priority to the number of pictures)			
AUDIO REC.	Record sound (5 seconds) simultaneously. OFF /ON			
LCD MODE	OFF / AUTO POWER LCD / POWER LCD / HIGH ANGLE (P.22)			
CLOCK SET	(P.19)			
PLAY ON CLIP	PLAY ON CLIPBOARD menu (REC/PLAY switch: 🕟 Mode dial: 🖄)			
CANCEL MARK	 Select [+] marked clipboard picture with ◄►. Cancel with 'MENU/SET'. 			
AUDIO DUB.	Add sound to previously-taken clipboard picture. ① Select clipboard picture with ◀▶. ② Record/stop with 'MENU/SET'. (P.79)			
COPY	Copy single pictures from clipboard to card. (Zoom mark will not be copied.) ① Select clipboard picture with ◀► and press 'MENU/SET' ② Select 'YES' with ▲▼ and press 'MENU/SET'.			
LCD MODE	OFF / POWER LCD (P.22)			



Quick setting

REC menu items can be called up easily (settings items displayed vary depending on recording mode).



• Example) NORMAL PICTURE mode

- STABILIZER*1 (P.62)
- WHITE BALANCE
- (except SET) (P.58)
- I.EXPOSURE(P.61)
- ASPECT RATIO*4 (P.56)
- *1 Press [DISPLAY] while'STABILIZER' is displayed to view demo of jitter/movement detection.

INTELLIGENT ISO*2 (P.56)

PICTURE SIZE (P.55)

• AF MODE (P.59)

• LCD MODE (P.22)

SENSITIVITY*3 (P.57)

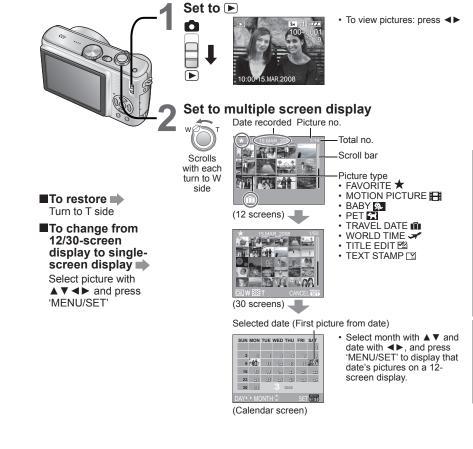
• BURST (P.61)

- *2 Only when 'INTELLIGENT ISO' is selected
- *3 Only when 'INTELLIGENT ISO' is set to 'OFF'
- *4 DMC-TZ15 only

Viewing as list

(Multi playback/Calendar playback)

You can view 12 (or 30) pictures at once (multi playback), or view all pictures taken on a certain date (calendar playback).

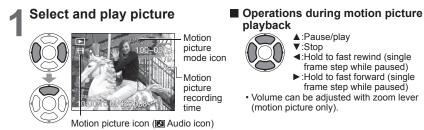


- Only one month of pictures is displayed on calendar screen. Pictures taken without clock settings are displayed with a date of 1 January, 2008.
- Cannot be displayed rotated.
- Pictures taken with destination settings made in 'WORLD TIME' are displayed in the calendar screen using the appropriate date for the destination's time zone.

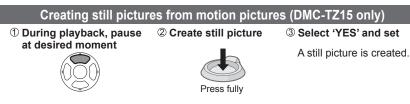


Viewing motion pictures · pictures with audio / Creating still pictures from motion pictures

Set-up: REC/PLAY switch: (Set mode dial to any except /



Motion pictures and pictures with audio can be deleted in the same way as for still pictures (P.36).



To make single picture from 9 surrounding frames

→ Press [MENU/SET] between steps ① and ② above to set to 9-screen display (Press again to return to one-screen display)

Zoom lever



1 1 1 1	 To advance by frames: ▲ ▼ To advance by frame: ◄ ►

Turn to W side (No. of Frames/ sec changes with each turn)

		Frames/sec
1	To advance by 3	PICTURE MODE
	frames: 🛦 🔻 🥤	30fps QVGA 30fps VGA 16:9L
)	 To advance by 1 	30fps 16:9H
1	frame:	15fps 16:9H

Frames/sec

Frame rate can be changed according to the speed of subject movement. Scenes with fast movement: Increase frame rate (e.g. 30fps) Scenes with slow movement: Reduce frame rate (e.g. 10fps, 5fps)

- The quality of still pictures created from motion pictures is fixed as T (standard), with resolutions set according to the table.
- 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.
- Plavback zoom cannot be used during motion picture playback/pausing or audio playback.
- The file format is QuickTime Motion JPEG. Pictures can be viewed using 'QuickTime' on the CD-ROM (supplied).

PICTURE MODE	1 screen	9 screens
30 ^{fps} VGA VGA	0.3 M	2 M
30 fps QVGA QVGA	0.3 M	1 M
30fps 16:9L 30fps 16:9H 16:9H	2 M	2 M

10 FPS 10 FPS 10 FPS 10 FPS

Frames/sec

 $30 \rightarrow 15 \rightarrow 10 \rightarrow 5$

 $15 \rightarrow 5$

 $10 \rightarrow 5$



Different playback methods

REC/PLAY switch: ▶ (Set mode dial to any except 2)

Various playback modes for your pictures.

Pictures will be selected from built-in memory (not clipboard) if no card is inserted. Playback mode is automatically set to 'NORMAL PLAY' when power is turned on with REC/PLAY switch set to), or when switching from REC mode to playback mode.

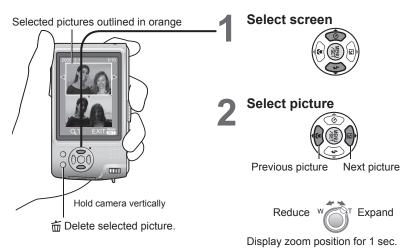
NORMAL PLAY

Displays one picture. (Default setting)

Set-up: Press 'MENU/SET' \rightarrow Select 'NORMAL PLAY' (P.20)

12 DUAL DISPLAY (DMC-TZ15 only)

Displays different 2 pictures vertically. Useful for comparing pictures. Set-up: Press 'MENU/SET' → Select 'DUAL DISPLAY' (P.20)



Same picture cannot be displayed in DUAL DISPLAY.



Different playback methods (Continued)

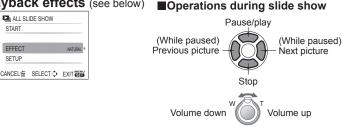
SLIDE SHOW

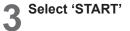
Automatically play pictures in order and to music. Recommended for when viewing on TV screen.

Set-up: Press 'MENU/SET' \rightarrow Select 'SLIDE SHOW' (P.20)

Select playback method







 Press m to return to menu screen during slide show

EFFECT (Select music and effects according to picture atmosphere)		SETUP		
AUTO	Camera selects optimum effect from NATURAL, SLOW, SWING, and URBAN (only available with	DURATION	is 'ÓFF'	
	'CATEGORY SELECTION' setting)		OFF/ON (Repeat)	
NATURAL	Play with relaxed music and	MUSIC*	OFF/ON (Play MUSIC (AUDIO))	
SLOW	screen transition effects	(AUDIO)	Audio from still pictures with audio is played when 'EFFECT' is 'OFF'.	
SWING	Play with livelier music and screen		Is played when LITECT is OTT.	
URBAN transition effects		* Item name	changes to 'AUDIO' when 'EFFECT'	
OFF	No effects	is 'OFF'		

Motion pictures cannot be played back in slide show.
 Music effects cannot be added.

Pictures can be classified automatically and viewed by category. Automatic classification starts when 'CATEGORY PLAY' is selected from the playback mode selection menu.

Set-up: Press 'MENU/SET' \rightarrow Select 'CATEGORY PLAY' (P.20)

•		. ,
Select the category	CATEGORY	Recording information such as scene modes
	(Portrait etc.)	PORTRAIT/ i-PORTRAIT/ SOFT SKIN/ SELF PORTRAIT/ NIGHT PORTRAIT/ i-NIGHT PORTRAIT/ BABY
	(Scenery etc.)	SCENERY/ i-SCENERY/ SUNSET/ AERIAL PHOTO
Icons of categories with p ⁱ ctures (dark blue) No. of pictures (appears after a few seconds)	(Night scenery etc.)	NIGHT PORTRAIT/ i-NIGHT PORTRAIT/ NIGHT SCENERY/ i-NIGHT SCENERY/ STARRY SKY
View pictures	(Event)	SPORTS/ PARTY/ CANDLE LIGHT/ FIREWORKS/ BEACH/ SNOW/ AERIAL PHOTO
	9 .	BABY
Previous Next	5 7	PET
Flevious Next	iol	FOOD
• To delete pictures \rightarrow Press 前 (delete).	-51	UNDERWATER
30-picture and calendar displays cannot be used.	Ŵ	TRAVEL DATE (Clipboard pictures taken with travel date setting are not categorized.)
Still pictures created from motion pictures cannot be classified into MOTION PICTURE.	Ħ	MOTION PICTURE

 The following playback menus can be set only for categorized pictures. (P.76, 78, 79) 'ROTATE', 'ROTATE DISP.', 'DPOF PRINT', 'PROTECT', AUDIO DUB.'

To close 'CATEGORY PLAY', select 'NORMAL PLAY'.

★ FAVORITE PLAY

Manually play pictures set in 'FAVORITE' (P.77) (displayed only when 'FAVORITE' pictures present and setting set to 'ON').

Set-up: Press 'MENU/SET' \rightarrow Select 'FAVORITE PLAY' (P.20)



1

30-picture and calendar displays cannot be used.

The following playback menus can be set only for favorite pictures (P.76, 78, 79). 'ROTATE', 'ROTATE DISP.', 'DPOF PRINT', 'PROTECT', AUDIO DUB.'

To close 'FAVORITE PLAY', select 'NORMAL PLAY'.



CAL CALENDAR

Select date from calendar screen to view only the pictures taken on that day (P.67). Set-up: Press 'MENU/SET' → ' ▶ PLAY menu' → Select 'CALENDAR' (P.20) Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback modes (P.71).

🕼 TITLE EDIT

You can edit names from 'BABY' and 'PET' scene modes or destination in 'TRAVEL DATE', or give titles to your favourite pictures.

Set-up: Press 'MENU/SET' → ' ▶ PLAYBACK menu' → Select 'TITLE EDIT' (P.20)

Select 'SINGLE' or 'MULTI' and set





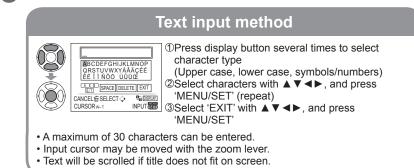




TITLE EDIT setting TITLE EDIT already

set • To cancel \rightarrow Press [DISPLAY] again $\overline{}$ To set \rightarrow Press 'MENU/SET'

Enter characters



(Press 前 when finish setting to return to the menu screen in 'SINGLE' setting.)

- **To edit** select 'SINGLE' in step $1 \rightarrow$ select picture with $\triangleleft \triangleright$, and press 'MENU/ SET' \rightarrow correct text and press 'EXIT'
- Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback mode (P.71).
- Cannot be used with pictures taken on other devices, protected pictures, or motion pictures.
- To print text, use 'TEXT STAMP' (below) or the supplied CD-ROM (PHOTOfunSTUDIO-viewer-).

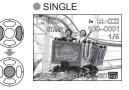
🗔 TEXT STAMP

Stamp recording date or text registered in the 'BABY' and 'PET' scene modes, 'TRAVEL DATE', or 'TITLE EDIT' into your pictures. Ideal for regular size printing.

Set-up: Press 'MENU/SET' → ' ▶ PLAYBACK menu' → Select 'TEXT STAMP' (P.20)

Select 'SINGLE' or 'MULTI' and set

Select picture



MULTI (up to 50 pictures)



- To cancel → Press display button again.
- To set \rightarrow Press 'MENU/SET'

Select items and make settings for each



 To stamp inputted texts such as names in 'BABY' and 'PET' scene modes, destination in 'TRAVEL DATE', or a title in 'TITLE EDIT', set 'TITLE' setting to 'ON'.



(Screen varies according to picture size, etc.)



- Stamped text cannot be deleted.
- Press to when finish setting to return to the menu screen in 'SINGLE' setting.

Using PLAYBACK menu (Continued)

REC/PLAY switch: ▶ (Set mode dial to any except)

■ To check stamped text → 'PLAYBACK ZOOM' (P.35)

- Picture size will be reduced if greater than 3M. Picture will become slightly grainier.
- Cannot be used with pictures taken on other devices, pictures taken without setting clock, motion pictures, or picture with audio. After TEXT STAMP is applied, pictures

	ASPECT RATIO	PICTURE SIZE	After TEXT STAMP
	4:3	9 M*1, 8 M*2, 7 M*1, 5 M	3 M
	3:2	8.5 M*1, 7 M*2, 6 M*1, 4.5 M	2.5 M
es	16 : 9	7.5 M*1, 6 M*2, 5.5 M*1, 3.5 M	2 M
	*1 : DMC-TZ15 or		IC-TZ15 only

*2 : DMC-TZ11 only

after

'ASPECT CONV.', 'TEXT STAMP' and

cannot be resized or trimmed, and

DPOF date printing settings cannot be changed of pictures.

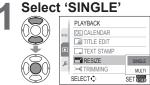
- Characters may be cut off on certain printers.
- Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback mode (P.71).
- Do not make date printing settings in shop or on printer for pictures with date stamps. (Date printing may be overlapping.)

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.)

```
Set-up: Press 'MENU/SET' \rightarrow ' PLAYBACK menu' \rightarrow Select 'RESIZE' (P.20)
```

SINGLE



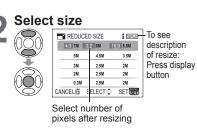


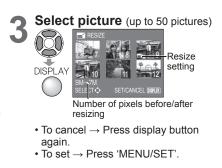
今 Selec	t size	
J		 Current size Size afte change
Selec	ct 'YES'	
4	SAVE NEW PICTURES? YES NO	

CAMCELÃ SELECTO SET Press 前 when finish setting to return to the menu screen

MULTI

Select 'MULTI' in step 1 on the left page





Select 'YES' and set

Picture quality is reduced after resizing.

 Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback mode (P.71). Cannot be used with motion pictures, pictures with audio, or pictures with text stamp. May not be compatible with pictures taken on other devices.

≻ TRIMMING

Enlarge your pictures and trim unwanted areas.

Set-up: Press 'MENU/SET' → ' ▶ PLAYBACK menu' → Select 'TRIMMING' (P.20)

Select picture with **◄**► and set

Select area to trim



Select 'YES' and set

Press in when finish setting to return to the menu screen

Picture quality is reduced after trimming.

 Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback mode (P.71). Cannot be used with motion pictures, pictures with audio, or pictures with text stamp. May not be compatible with pictures taken on other devices.



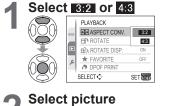
Using PLAYBACK menu (Continued)

REC/PLAY switch: ▶ (Set mode dial to any except)

↔ ASPECT CONV.

Convert pictures taken in 16:9 to 3:2 or 4:3 for printing.

Set-up: Press 'MENU/SET' \rightarrow ' PLAY menu' \rightarrow Select 'ASPECT CONV.' (P.20)



Select horizontal position and convert



ASPEC

Select 'YES' and set • Press 前 when finish setting to return to the menu screen

Picture size may be increased after aspect ratio is changed.

Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback mode (P.71).

Rotate 90°

clockwise

Rotate 90° anticlockwise

♠:

Cannot be used with motion pictures, pictures with audio, pictures with text stamp, or non-DCF files (P.35).

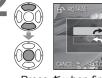
May not be compatible with pictures taken on other devices.

B ROTATE

Manually rotate pictures by 90 °.

- Set-up: Press 'MENU/SET' \rightarrow ' PLAYBACK menu' → Select 'ROTATE DISP.': 'ON' → 'ROTATE' (P.20)
- Select picture with **◄**► and set

Select direction to rotate

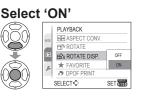


 Press 前 when finish setting to return to the menu screen



Automatically rotate portrait pictures.

Set-up: Press 'MENU/SET' \rightarrow ' PLAYBACK menu' → Select 'ROTATE DISP.' (P.20)





- 'ROTATE DISP.' and 'ROTATE' cannot be used with motion pictures.
- 'ROTATE' cannot be used with protected pictures (P.79).

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.

 Will only be displayed rotated on computer if in Exif-compatible (P.35) environment (OS. software).

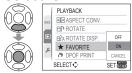
★ FAVORITE

Mark your favourite pictures and enable the following functions. Favourites-only slide show (P70)

Delete all except favourites (useful for when printing in shop, etc.)

Set-up: Press 'MENU/SET' → ' ▶ PLAYBACK menu' → Select 'FAVORITE' (P.20)

Select 'ON'





Select picture (repeat)



Up to 999 pictures can be selected.

 To release → Press ▼ again. set (not displayed

To release all Select 'CANCEL' in step 1 and select 'YES'.

Cannot be set in 'FAVORITE PLAY' playback mode (P.71).

It may not be possible to set pictures taken with certain other devices as favourites. Setting/release can also be made with supplied software (PHOTOfunSTUDIO-viewer-).

displayed when

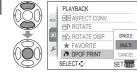
when 'OFF').

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)

Set-up: Press 'MENU/SET' -> (PLAYBACK menu' -> Select 'DPOF PRINT' (P.20)

Select 'SINGLE' or 'MULTI'







-No. to print

Date print set

Set number of pictures

(repeat steps 2 and 3 when using 'MULTI' (up to 999 pictures)) SINGLE MULTI





No. to print



- Date print setting/release → Press display button.
- Press in when finish setting to return to the menu screen

To release all Select 'CANCEL' in step1 and select 'YES'.

- 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.80) before making settinas.
- DPOF print settings may not be made to non-DCF (P.35) files.
- Some DPOF information set by other equipment cannot be used. In such cases, delete all of the DPOF information and then set it again with this camera.
- Date printing settings cannot be made for pictures with a 'TEXT STAMP' applied. These settings will also be cancelled if a 'TEXT STAMP' is applied later.

On PROTECT

Set protection to disable picture deletion. Prevents deletion of important pictures. Set-up: Press 'MENU/SET' → ' → PLAYBACK menu' → Select 'PROTECT' (P.20)

Select 'SINGLE' or 'MULTI'



Select picture and make setting ● SINGLE MULTI





• To cancel \rightarrow Press 'MENU/SET' again. Press 前 when finish setting to return to the menu screen

Picture protected

To release all Select 'CANCEL' in step 1 and select 'YES'.

To cancel while releasing all Press 'MENU/SET'.

May not be effective when using other devices.

Formatting will cause even protected files to be deleted.

AUDIO DUB.

Add audio to previously taken pictures.

Set-up: Press 'MENU/SET' \rightarrow ' \blacktriangleright PLAYBACK menu' \rightarrow Select 'AUDIO DUB.' (P.20)

Select image and start recording



For files already containing audio, select whether or not to overwrite existing audio with $\blacktriangle \mathbf{\nabla}$, and press 'MENU/SET'. • To cancel \rightarrow Press $\overline{\square}$



Do not block

microphone (P.14)

Stop recording (Recording will automatically end after 10 seconds.)

• Press 前 when finish setting to return to the menu screen

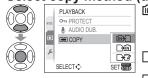
 Cannot be used with motion pictures or protected pictures. May not be compatible with pictures taken on other devices.

Using PLAYBACK menu (Continued)

🔁 COPY

Copy between built-in memory and memory card, or from memory card to clipboard folder. Set-up: Press 'MENU/SET' \rightarrow ' \blacktriangleright PLAYBACK menu' \rightarrow Select 'COPY' (P.20)

Select copy method (direction)



(go to step **3**)

(Clipboard pictures cannot be copied. Use 'COPY' in the clipboard playback menu (P.65).)

- _____ : Copy 1 picture at a time from card to built-in _____ memory.
- Final State of the second state of the second



Select 'YES'



- To cancel → Press 'MENU/SET'
- Press 亩 when finish setting to return to the menu screen

(Screen shown is example)

- If there is not enough space on the built-in memory for copying to be performed, turn off the power, remove the card, and delete pictures from the built-in memory (to delete clipboard pictures, set the mode dial to clipboard mode).
- To copy to a card, use a card with a capacity of at least 50 MB.
- Copying pictures may take several minutes. Do not turn off power or perform other operations during copying.
- If identical names (folder/file numbers) are present in the copy destination, a new folder for copying will be created when copying from built-in memory to card ([公子]).
 Identically-named files will not be copied from card to built-in memory (子前).
- DPOF settings will not be copied.
- Only pictures from Panasonic digital cameras may be copied.
- Original pictures will not be deleted after copying (to delete pictures \rightarrow P.36).
- Cannot be set in 'CATEGORY PLAY' or 'FAVORITE PLAY' playback mode (P.71).



Using with your PC

Connect the camera to your computer to save, play, print, and e-mail your pictures.

Set-up:

Hold here

ACCESS

(sending data)

displayed.

 Do not disconnect the USB cable while 'ACCESS' is

- Connect the camera to the AC adaptor (DMW-AC5G: optional).
- (Alternatively, use a sufficiently-charged battery.)
 Card :Insert card and set mode dial to any except Built in memory : Remove card

F

Built-in memory :Remove card

- Turn on power of both camera and computer
- Set REC/PLAY switch to
- Connect camera to computer
- Select 'PC' on the camera



(A message may be displayed on screen if 'USB MODE' (P.25) is set to 'PictBridge (PTP)'. Select 'CANCEL' to close the screen, and set 'USB MODE' to 'PC'.)

Operate with your computer (see next page)



■To cancel connection **→**

If using AC adaptor, turn

off camera power before

plugging in or removing.

Click 'Safely Remove Hardware' in the Windows System Tray \rightarrow disconnect USB cable \rightarrow turn off camera power \rightarrow disconnect AC adaptor

Check socket direction

and insert straight in.

(Damage to socket

shape can lead to

faulty operation.)

USB cable

supplied

· always use cable

- Do not use any other USB connection cables except the supplied one.
- Turn off power before inserting or removing memory cards.
- If using Windows 98/98SE, install USB driver software when connecting for first time.
- When the battery begins to run out during communication, the operation display lamp flashes and a warning beep sounds. Cancel communication via your computer immediately (recharge the battery before reconnecting).
- Setting the 'USB MODE' (P.25) to 'PC' remove the need to make the setting each time the camera is connected to the computer.
- For more details, consult your computer operating manual.

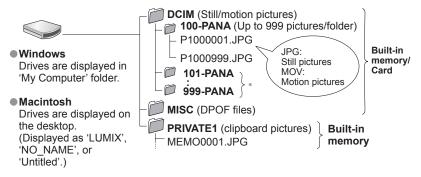
80 VQT1P98



Using with your PC (Continued)

Folder and file names on computer

You can save images to use on your computer by dragging and dropping folders and files into separate folders on your computer.



- * 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.25)
- File may not be able to be played back on camera after changing file name.
- If mode dial is set to 2, built-in memory data (including clipboard pictures) are displayed even when card is inserted. Data in card is not displayed.
- When using Mac OS X ver 10.2 or earlier, set write-protect switch on card to 'LOCK' whenever handling pictures on SDHC memory cards.

If using Windows XP, Windows Vista, or Mac OS X

The camera can be connected to your computer event even if 'USB MODE' (P.25) is set to 'PictBridge (PTP)'.

- Only picture reading operations can be performed via the camera (picture deletion) also possible with Windows Vista).
- It may not be possible to read if there are 1000 or more pictures on the card.

To play motion pictures on your computer

- ^①Use the 'QuickTime' software on the supplied CD-ROM.
- Installed as standard on Macintosh

②Save motion pictures to your computer before viewing.



Printing

You can connect directly to a PictBridgecompatible printer for printing.

Set-up:

printers).

- · Connect the camera to the AC adaptor
- (DMW-AC5G: optional). (Alternatively, use a sufficiently-charged battery.)
- Card :Insert card Built-in memory: :Remove card Copy clipboard mode pictures to the card (P.65)
- Adjust settings on your printer (print quality, etc.) as required.
- · Set mode dial to any setting other than CLIPBOARD.

'Do Not Disconnect Cable icon'

Hold here

· Do not disconnect the Ð USB cable when the

cable disconnection icon is displayed (may not B ♦₽

be displayed with some 2 •

> Check socket direction and insert straight in. (Damage to socket

shape can lead to faulty operation.)

Г

USB cable (always use cable (bailgauz

If using AC adaptor, turn off camera power before plugging in or removing.

To cancel print Press 'MENU/SET'

- Do not use any other USB connection cables except the supplied one. Disconnect USB cable after printing.
- Turn off power before inserting or removing memory cards.
- When the battery begins to run out during communication, the operation display lamp flashes and a warning beep sounds. Cancel printing and disconnect USB cable (recharge the battery before reconnecting).
- Setting the 'USB MODE' (P.25) to 'PictBridge (PTP)' remove the need to make the setting each time the camera is connected to the printer.

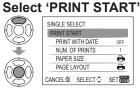
camera and printer Set REC/PLAY switch to Connect camera to printer Select 'PictBridge (PTP)' on the camera USB USB MODE

Turn on power of both



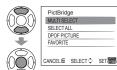
When 'CONNECTING TO PC...' is displayed, cancel the connection and set 'USB MODE' to either 'SELECT ON CONNECTION' or 'PictBridge(PTP)' (P.25).

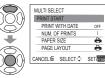
Select picture to print with **◄**► and set











3 Select 'PRINT START'

 To cancel → Press 'MENU/SET'

- MULTI SELECT : ① Scroll between pictures with $\blacktriangle \lor \blacktriangleleft \lor$. select pictures with display button to print. (Press display button again to release selection.) ② Press 'MENU/SET' when selection is complete.
- SELECT ALL :Print all pictures.
- **DPOF PICTURE** : Print pictures selected in 'DPOF PRINT' (P.78).
- FAVORITE :Print pictures selected as 'FAVORITE' (P.77). (displayed only when 'FAVORITE' pictures present and setting set to 'ON').
- Select 'YES' if print confirmation screen is displayed.
- An orange displayed during printing indicates an error message.
- Print may be divided into different stints if printing several pictures.
- (Remaining sheets display may differ from set number.)

Print with date and text

With 'TEXT STAMP'

Recording date and following information can be embedded into photographs (P.73). Recording date NAME and AGE from 'BABY' and 'PET' scene modes

- 'TRAVEL DATE' elapsed days and destination
 Text registered in 'TITLE EDIT'
- Do not add date printing in stores or with printers to pictures 'TEXT STAMP' is applied (text may overlap).

Printing date without 'TEXT STAMP'

Printing in store: Only recording date can be printed. Request date printing in store.

- Making 'DPOF PRINT' (P.78) settings on the camera in advance allows settings for numbers of copies and date printing to be designated before giving the card to the store.
- When printing pictures of 16:9 aspect ratio, check in advance that the store can accept this size.
- Using computer :Print settings for recording date and text information can be made using the supplied CD-ROM (PHOTOfunSTUDIO-viewer-).
- Using printer :Recording date can be printed by setting 'DPOF PRINT' on the camera, or by setting 'PRINT WITH DATE' (P.85) to 'ON' when connecting to a printer compatible with date printing.

Making print settings on camera

(Make settings before selecting 'PRINT START')

① Select item SINGLE SELECT PRINT START PRINT WITH DATE OFF NUM, OF PRINTS PAPER SIZE Ð PAGE LAYOUT Ð

ANCEL SELECT SET

② Select setting



OFF

ON

.

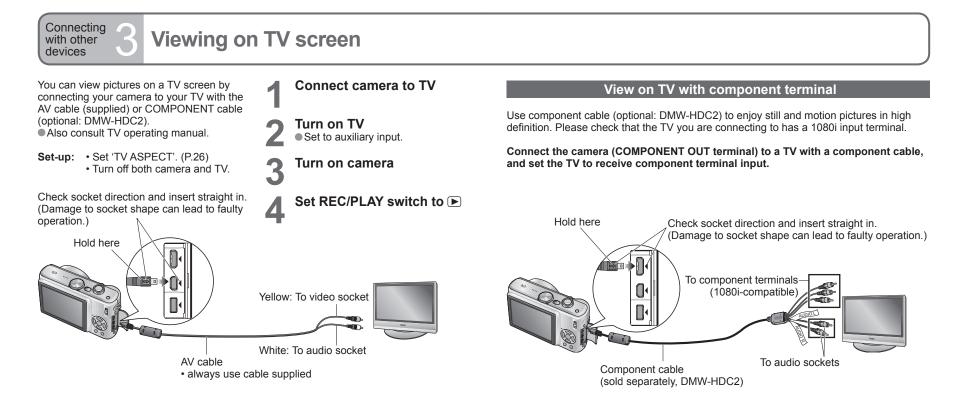
•

SET

Item	Settings				
PRINT WITH DATE	OFF/ON				
NUM. OF PRINTS	Set number of pictures (up to 999 pictures)				
PAPER SIZE	► (printer takes priority) L/3.5"×5" (89×127 mm) 2L/5"×7" (127×178 mm) POSTCARD(100×148 mm) 16:9 (101.6×180.6 mm) A4 (210×297 mm)	A3 (297×420 mm) 10×15 cm (100×150 mm) 4"×6" (101.6×152.4 mm) 8"×10" (203.2×254 mm) LETTER (216×279.4 mm) CARD SIZE (54×85.6 mm)			
PAGE LAYOUT (1 picture, no border) / (1 picture, no border) / (1 picture, with border) / (2 pictures) / (4 picture)		1 picture, no border) / (2 pictures) / 컴컴 (4 pictures)			

Items may not be displayed if incompatible with printer.

- To arrange 2 pictures' or 👯 '4 pictures' in the same picture, set the number of prints for the picture to 2 or 4.
- 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.)
- PRINT WITH DATE' and 'NUM. OF PRINTS' items are not shown when DPOF settings have been made.
- Even if DPOF settings are made, dates may not be printed with some shops or printers.
- When setting 'PRINT WITH DATE' to 'ON', check the date printing settings on the printer (printer settings may be prioritised).



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

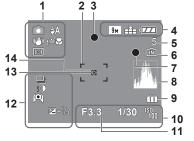
- Use SDHC-compatible TVs to playback images on SDHC memory cards.
- Do not use any other AV cables except the supplied one.
- You can view pictures on TVs in other countries (regions) which use the NTSC or PAL system when you set 'VIDEO OUT' in SETUP menu.
- 'LCD MODE' setting is not reflected on TV.
- Pictures can only be displyed on TV by using 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.
- If problems such as picture flickering occur, set 'VIDEO OUT' (P.26) to 'PAL'.

- Playback cannot be performed in clipboard mode.
- Blank stripes may appear at the sides or at the top and bottom of the screen, depending on aspect ratio setting.
- Images displayed vertically may be slightly blurred.
- Pictures cannot be simultaneously displayed on the LCD monitor.
- We recommend recording still pictures with 'PICTURE SIZE' of at least 2M, and motion pictures with 'PICTURE MODE' set to '16:9H' (DMC-TZ15 only).
- Do not use cables other than that specified here (optional, DMW-HDC2).
- Output will be in 16:9 aspect ratio, regardless of 'TV ASPECT' setting.
- Component output will be canceled if a USB cable is connected.
- No picture output will occur through AV cables connected simultaneously.
 Audio output is monaural.
- Following functions cannot be set in playback mode.
- DUAL DISPLAY (DMC-TZ15 only), TITLE EDIT, TEXT STAMP, RESIZE, TRIMMING, ASPECT CONV., AUDIO DUB., COPY, or creating still pictures from motion pictures

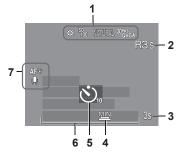
List of LCD monitor displays

Press the display button to change display (P.14).

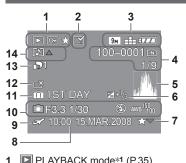
In recording



- 1 Recording mode* (P.15) Flash mode (P.38) (W) 1 Optical image stabilizer (P.62) Jitter alert (P.30) Metering mode (P.59) Macro recording (P.40) TELES Tele macro (P.40)
- 2 AF area (P.30) 3 Focus (P.30)
- 4
- 9m Picture size (P.55) Quality (P.55) Battery capacity (P.18)
- 5 Number of recordable pictures (P.100)



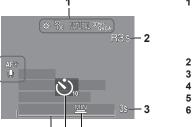
- 6 Save destination (P.18) 7 Recording state
- 8 Histogram (P.37)
- 9 Travel date (P.53)
- 10 F3.3 Aperture value (P.30) 1/30 Shutter speed (P.30) ISO sensitivity (P.57) **1**ISO Intelligent ISO (P.56)
- 11 Current date/time Focus range (P.41)
 - Zoom (P.32) w
- **12** Burst mode (P.61) Auto bracket (P.43) Intelligent exposure (P.61) High angle mode (P.22) Auto power LCD (P.22) Power LCD (P.22) Backlight Compensation (P.29) 13 Spot metering target (P.59) 14 Spot AF area (P.60)
- CLIPBOARD mode (P.64)
- * Clipboard recording mode



- PLAYBACK mode*1 (P.35) Protected picture (P.79) ★ Favourites*² (P.77)
- Text stamped display (P.73) 2
- 3 9M Picture size (P.55) Quality*3 (P.55) Battery capacity (P.18)
- 4 100-0001 Folder/File number*4 (P.25, 35, 82) Save destination (P.18)
 - 1/3 Picture number/Total pictures
- 5 Histogram*5 (P.37) Cable disconnection warning icon (P.83)

In playback

- 6 Exposure compensation (P.43)
- Favourites settings (P.77) 7
- 8 Recorded date and time Travel destination setting (P.53)/Name (P.48)/ Title (P.72)
- **9 Solution** Settings (P.54)
- 10 Recording information 1 month 10 days Age in years/months (P.48)
- **11** Travel elapsed days (P.53)
- 12 ***** Power LCD (P.22)
- **13** Number of DPOF prints (P.78)
- 14 E Motion pictures (P.68) Picture with audio (P.68)
- CLIPBOARD mode (P.64) *1 Clipboard playing mode *2 Zoom mark 🔢
- MOTION PICTURE mode (P.68)
 - *3 30^{fps} VGA 10^{fps} 30^{fps} 10^{fps} 0VGA 30fps *6 15fps *6 30fps 10fps 10fps
 - *4 Elapsed playback time XhXXmXXs
 - *5 Motion picture recording time
 - *6 DMC-TZ15 only



- 1 ^{the} White balance (P.58) ISO sensitivity (P.57) 150MAX / 150MAX / 150MAX 1500 ISO LIMIT (P.56) ^{COOL} Colour mode (P.62) ³⁰(PSGA MOTION PICTURE mode (P.52)
- 2 Available recording time
- 3 5s Elapsed recording time (P.52)
- Minimum shutter speed (P.63)
- Self-timer mode (P.42)
- 6 Travel elapsed days (P.53) Name (P.48)/Travel Location (P.53) Age in years/months (P.48) Recorded date and time
- 7 AF assist lamp (P.63) CAF Continuous AF (P.60) Audio recording (P.63)

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THIS MEMORY CARD IS LOCKED

 Release using the write-protect switch on the SD memory card or SDHC memory card. (P.18)

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.79)

SOME PICTURES CANNOT BE DELETED/THIS PICTURE CANNOT BE DELETED

Non-DCF images (P.35) cannot be deleted.

 \rightarrow Save all necessary data to computer (or other device), and 'FORMAT' (P.27) card to delete.

NO ADDITIONAL 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 that can be set at once in 'RESIZE (MULTI)', 'TEXT STAMP', or 'TITLE EDIT' has been exceeded.

CANNOT BE SET ON THIS PICTURE

 DPOF settings, 'TITLE EDIT', or 'TEXT STAMP' cannot be made for non-DCF images (P.35).

PLEASE TURN CAMERA OFF AND THEN ON AGAIN

 Force has been applied to lens (or other component) and camera could not operate correctly.

 \rightarrow Turn on power again.

(Consult place of purchase 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 built-in memory when copying from card.
- File is not of DCF standard (P.35).
- · 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.27).

MEMORY CARD ERROR FORMAT THIS CARD?

Card cannot be recognised on this camera.

 \rightarrow Save all necessary data to computer (or other device), and 'FORMAT' (P.27).

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.

 \rightarrow Check whether card has been inserted correctly (P.17).

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

We recommend using a card of at least 10 MB/s (as marked on its packaging, etc.).
 Motion picture recording may be automatically terminated with certain cards.

A FOLDER CANNOT BE CREATED

Folder numbers in use have reached 999.

→ Save all necessary data to computer (or other device), and 'FORMAT' (P.27). Folder number is reset to 100 when performing 'NO.RESET' (P.25).

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

AV cable is connected to camera.

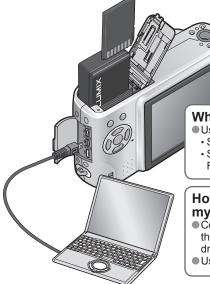
- To remove message immediately → Press 'MENU/SET'.
- To change aspect ratio \rightarrow Change 'TV ASPECT' (P.26).
- USB cable is only connected to camera.
- \rightarrow Message disappears when cable is also connected to another device.



Q&A Troubleshooting

Try checking these items (P.93-97) first. (Restoring menu settings to default values may solve certain problems. Try using 'RESET' in SETUP menu in recording mode (P.25).)

FAQ



Which cards can I use?

- Using Panasonic cards is recommended.
- SD memory card (8 MB 2 GB)
- SDHC memory card (4 GB 16 GB) For more details (P.18, 104)

How can I easily send pictures to my computer?

• Connect the camera to your computer using the supplied USB cable (P.81) to copy (drag & drop) picture files to your computer hard disk. Use a USB reader-writer.

Pictures appear dark or have poor colouring

Adjust the exposure (P.43).

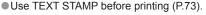
- Use WHITE BALANCE to adjust the colouring. (e.g. Use 'AWB' for fluorescent lighting and , for
- incandescent lighting.)
- If this is still insufficient, try 'Setting white balance manually ■set' (P.58).



How do I get the date printed?

Make date printing settings before printing.

- In shop: Make DPOF settings (P.78), and request printing 'with dates'.
- With printer: Make DPOF settings, and use a printer compatible with date printing.
- · With supplied software: Select 'with dates' within print settings.





Battery, power

Camera does not work even if power is turned on.

Battery is not inserted correctly (P.17), or needs recharging (P.16).

LCD monitor shuts off even if power is turned on.

Camera is set to 'POWER SAVE' or 'AUTO LCD OFF' (P.24).

 \rightarrow Press shutter button halfway to release.

Battery needs recharging.

Camera switches off as soon as power is turned on.

- Battery needs recharging.
 Camera is set to 'POWER SAVE'. (P.24)
- \rightarrow Press shutter button halfway to release.

Recording

Cannot record pictures.

REC/PLAY switch is not set to (record).

●Built-in memory/card is full. → Free space by deleting unwanted pictures (P.36).

Recording capacity is low.

Battery needs recharging .

- \rightarrow Use a fully charged battery (not sold pre-charged). (P.16)
- → If you leave the camera on, the battery will be exhausted. Turn the camera off frequently by using 'POWER SAVE' or 'AUTO LCD OFF' (P.24) etc.
- Please check the recording picture capacity for cards and built-in memory. (P.100)

Recorded pictures look white.

Lens is dirty (fingerprints, etc.).

 \rightarrow Turn on power to extract lens barrel, and clean lens surface with a soft, dry cloth. Lens is foggy (P.12).

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) \rightarrow Adjust the exposure (P.43).
- 'MIN. SHTR SPEED' is set to fast speeds, e.g. '1/200' (P.63).

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

Camera set to use 'AUTO BRACKET'. 'BURST'. or the 'HI-SPEED BURST' or 'MULTI ASPECT (DMC-TZ15 only)' scene modes. (P.43, 49, 51, 61)

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.56, 62).

Recorded pictures are blurred. Optical image stabilizer ineffective.

- Shutter speed is slower in dark locations and Optical image stabilizer is less effective. \rightarrow Hold camera firmly with both hands, keeping arms close to body.
- •Use a tripod and the self-timer (P.42) when using 'MIN. SHTR SPEED'.

Cannot use 'AUTO BRACKET' or 'MULTI ASPECT' (DMC-TZ15 only). Only enough memory for 2 pictures or fewer.



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.)
- \rightarrow Lower 'SENSITIVITY' (P.57).
- \rightarrow Set 'COLOR MODE' to 'NATURAL' (P.62)
- \rightarrow Take pictures in brighter locations.
- Camera set to 'HIGH SENS.' or 'HI-SPEED BURST' scene modes. (Picture becomes slightly coarser in response to high sensitivity)

Brightness or colouring 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 colouring, 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.



 We recommend keeping the screen away from strong light sources such as sunlight when taking pictures.

Motion picture recording stops midway.

- Using MultiMediaCard (not compatible with motion picture recording).
- We recommend using a card of at least 10 MB/s (as marked on its packaging, etc.).
 With some cards, access display may appear briefly after recording, and recording may end midway.

LCD monitor dims during motion picture recording.

LCD monitor may dim if continuing motion picture recording for long periods.

LCD monitor

Monitor sometimes shuts off even though power is on.

- Camera set to 'AUTO LCD OFF' (P.24).
- (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 'MONITOR' setting (P.22).
 Camera set to 'LCD MODE' (P.22).

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.53), and ages in 'BABY' and 'PET' (P.48) 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 FLASH OFF ()' (P.38).
- When set to 'AUTO **FA**', flash may not be emitted in certain conditions.
- •Flash cannot be emitted in H (MOTION PICTURE mode), or the 'SCENERY', 'NIGHT SCENERY', 'SUNSET', 'HI-SPEED BURST', 'FIREWORKS', 'STARRY SKY', and 'AERIAL PHOTO' scene modes, or when using 'AUTO BRACKET' or 'BURST'.

Two flashes emitted

- Red-eye reduction is active (P.38).
- (Flashes twice to prevent eyes appearing red.)

Playback

Pictures have been rotated.

- 'ROTATE DISP.' is set to 'ON'.
- (Automatically rotates pictures from portrait to landscape. Some pictures taken facing up or facing down may be interpreted as being portrait.)
- Set 'ROTATE' to 'OFF'. You can also rotate display manually using 'ROTATE DISP.'(P.76).

Cannot view pictures.

REC/PLAY switch is not set to (play).

- No pictures in built-in memory or card (pictures played from card if inserted, from builtin memory if not).
- Camera set to 'CATEGORY PLAY' or 'FAVORITE PLAY'.
- \rightarrow Set playback mode to 'NORMAL PLAY' (P.69).

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.
 Juse 'FORMAT' to delete (P.27).

Incorrect date displayed in calendar playback.

- Picture edited on computer or taken on different device.
- 'CLOCK SET' is incorrect (P.19).
 (Incorrect date may be displayed in calendar playback on pict)

(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.



Plavback (continued)

White round spots like soap bubbles appear on the recorded picture.

If you take a picture with the flash in a dark place or indoors, white round spots may appear on the picture caused by the flash reflecting of particles of dust in the air. This is not a fault. A characteristic of this is that the number of round spots and their position differ in every picture.

Sounds of camera operations will be recorded in motion pictures.

 Camera operation sounds may be recorded as camera automatically adjusts lens aperture during motion picture recording: this is not a fault.

TV. computer. printer

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

Not connected correctly (P.86, 87). TV input setting not set to auxiliary input. • VIDEO OUT' not set to 'PAL' (P.26) TV is not compatible with SDHC memory card. (When using SDHC memory card)

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.

 \rightarrow Connect with AV cable (supplied) or component cable (optional: DMW-HDC2) and play on camera (P.86, 87).

Picture is not displayed on full TV screen.

Check 'TV ASPECT' settings (P.26).

Cannot send pictures to computer.

Not connected correctly (P.81). Check whether computer has recognised camera. Set 'USB MODE' to 'PC' (P.25).

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

Disconnect USB cable and reconnect with card in place. Set mode dial to any except *.

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.80) in PLAYBACK menu.

Cannot print when connecting to printer.

- Printer not compatible with PictBridge.
- Set 'USB MODE' to 'PictBridge (PTP)' (P.25).

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'.

 \rightarrow If printing in shop, check if 16:9 sizes can be printed.

Others

Menu not displayed in desired language.

Change 'LANGUAGE' setting (P.27).

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', 'BURST', the 'SELF PORTRAIT', 'HI-SPEED BURST', and 'MULTI ASPECT' (DMC-TZ15 only) scene modes, MOTION PICTURE mode, or 'AUDIO REC.'.

Red lamp illuminated when pressing shutter button halfway in dark locations. 'AF ASSIST LAMP' set to 'ON' (P.63)

AF ASSIST LAMP is not illuminated.

AF ASSIST LAMP' is set to 'OFF'

 Not illuminated in bright locations or when using 'SCENERY', 'NIGHT SCENERY'. 'SELF PORTRAIT', 'FIREWORKS', 'AERIAL PHOTO', or 'SUNSET' 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.19).
- (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 coloured.

Pictures may be slightly warped or coloured around the edges, depending on the zoom ratio, but this is not a fault.

File numbers are not recorded in sequence.

File numbers are reset when new folders are created (P.82).

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

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 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 adversely affecting the pictures and sound.
- Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation generated by microprocessors may adversely affect the camera, disturbing the pictures and sound.
- If the camera is adversely affected by electromagnetic equipment and stops functioning properly, turn the camera off and remove the battery or disconnect AC adaptor (DMW-AC5G: optional). Then reinsert the battery or reconnect AC adaptor and turn the camera on.

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

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

Caring for your camera

To clean your camera, remove the battery or disconnect AC cable, and wipe with a soft, dry cloth.

- Úse a well-wrung wet cloth to remove stubborn stains, before wiping again with a dry cloth.
- Do not use benzene, thinners, alcohol, or kitchen detergent, as these may damage the outer casing and finish of the camera.
- If using a chemically-treated cloth, read the supplied instructions carefully.
- Do not touch the lens barrier (P.13).

When not using for a while

- Turn off camera power before removing 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) places with low humidity (40% - 60%) and no major temperature changes.
- Charge battery once per year and use completely 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 changes 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 and Charger

- Store battery in battery carrying case after use.
- Do not use if damaged or dented (especially connectors), e.g. by dropping (can cause faults).
- Estimated recording capacity of 300 [330 *1] pictures (P.16) is based on the following CIPA *2 standards.
 *1 DMC-TZ11



CIPA standards:

- Using Panasonic SD memory card (16 MB) Using the
- supplied battery Temperature 23 °C, humidity 50 % NORMAL PICTURE mode LCD monitor ON (The number of recordable pictures decreases in AUTO POWER LCD, POWER LCD, and HIGH ANGLE mode) 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
- *² CIPA = Camera & Imaging Products Association

When charging

- Remove any dirt on connectors of charger and battery with dry cloth.
- · Keep at least 1 m away from AM radio (may cause radio interference).
- Noises may be emitted from inside of charger, 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.

 Other names, company names, and product names printed in these instructions are trademarks or registered trademarks of the companies concerned.



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.

Recording picture capacity (still pictures)

Varies according to 'ASPECT RATIO' (P.56), 'PICTURE SIZE' (P.55), or 'QUALITY' (P.55) settings.

4:3 ASPECT RATIO 3:2 16:9 3 M EZ 9 M *1 8 M *2 7 M EZ *1 5 M EZ 2 M EZ 0.3 M EZ 8.5 M *1 7 M *2 6 M EZ *1 4.5 M EZ 2.5 M EZ 7.5 M *1 6 M *2 5.5 M EZ *1 3.5 M EZ 2 M EZ PICTURE SIZE (2560×1920) (2048×1536) (1600×1200) (3072×2304) (3264×2448) (3072×2304) (640×480) |(3552×2368)|(3216×2144)|(3072×2048)|(2560×1712)|(2048×1360)|(3712×2088)|(3328×1872)|(3072×1728)|(2560×1440)|(1920×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120×1080)|(3120 i ... Ĥ İ Ť. Ť Ť Ť Ť Ĥ ż Ť T T • • • ÷. ÷. • ÷. Ť QUALITY • . . 2 . 2 Built-in memory 16 MB 32 MB 64 MB 128 MB 256 MB Memory 180 350 512 MB card 520 1000 1 GB 900 1720 2 GB 1920 3610 1700 1360 2560 730 1420 1040 1980 1800 3410 1080 2110 1230 2410 1740 3350 2680 5020 4 GB 1090 2150 3770 7090 17240 24130 1940 1280 2510 1450 2800 2040 3890 3540 6700 1870 3660 2210 4300 2500 4910 3550 6820 5450 10230 2020 3960 2610 5110 2950 5710 4160 7920 7220 13640 8 GB 1760 3450 2230 4380 3180 7670 14440 35080 49120 16 GB 3550 6950 7840 4490 8820 6410 12350 15440 29070 70590 98840 3770 7370 4450 8660 5040 9880 7160 13720 10980 20590 4080 7970 5250 10290 5950 11490 8370 15940 14530 27450

Recording time capacity (motion pictures)

Varies according to 'PICTURE MODE' (P.52) setting.

PICTURE	MODE	30fpsVGA	10fpsVGA	30fpsQVGA	10fpsQVGA	16:9H30fps *1	16:9H15fps *1	16:9L30fps	16:9L10fps
Built-in memory		—	—	1 min 43 sec	5 min	—	—	—	_
	16 MB	6 sec	26 sec	26 sec	1 min 22 sec	-	4 sec	5 sec	22 sec
	32 MB	17 sec	58 sec	59 sec	2 min 55 sec	4 sec	12 sec	14 sec	50 sec
	64 MB	39 sec	2 min	2 min	6 min	13 sec	29 sec	33 sec	1 min 45 sec
	128 MB	1 min 23 sec	4 min 10 sec	4 min 10 sec	12 min 20 sec	29 sec	1 min 1 sec	1 min 11 sec	3 min 35 sec
	256 MB	2 min 45 sec	8 min 10 sec	8 min 10 sec	24 min	1 min	2 min	2 min 20 sec	7 min
Memory card	512 MB	5 min 30 sec	16 min 20 sec	16 min 20 sec	47 min 50 sec	2 min	4 min	4 min 40 sec	14 min
	1 GB	11 min	32 min 50 sec	32 min 50 sec	1 hr 35 min	4 min	8 min 10 sec	9 min 20 sec	28 min 10 sec
	2 GB	22 min 30 sec	1 hr 7 min	1 hr 7 min	3 hr 15 min	8 min 20 sec	16 min 50 sec	19 min 20 sec	57 min 30 sec
	4 GB	44 min 20 sec	2 hr 11 min	2 hr 11 min	6 hr 22 min	16 min 40 sec	33 min 20 sec	38 min	1 hr 53 min
	8 GB	1 hr 30 min	4 hr 28 min	4 hr 28 min	12 hr 59 min	33 min 50 sec	1 hr 7 min	1 hr 17 min	3 hr 50 min
	16 GB	3 hr 1 min	8 hr 59 min	8 hr 59 min	26 hr 8 min	1 hr 8 min	2 hr 16 min	2 hr 36 min	7 hr 43 min

 A maximum of approx. 2 GB can be recorded in any one session. (Screen display also up to 2 GB)

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*1 DMC-TZ15 *2 DMC-TZ11

Others

Specifications

Digital Camera: Information for your safety

6

Power Source	DC 5.1 V
Power Consumption	When recording: 1.3 W (DMC-TZ15)/1.2 W (DMC-TZ11) When playing back: 0.6 W
Camera effective pixels	 DMC-TZ15: 9,100,000 pixels DMC-TZ11: 8,100,000 pixels
Image sensor	 DMC-TZ15: 1/2.33" CCD, total pixel number 10,700,000 pixels DMC-TZ11: 1/2.5" CCD, total pixel number 8,320,000 pixels Primary colour filter
Lens	Optical 10 x zoom f=4.7 mm to 47 mm (35 mm film camera equivalent: 28 mm to 280 mm)/F3.3 to F4.
Digital zoom	Max.4 x
Extra optical zoom	Max. 16.9 x (DMC-TZ15)/Max. 15.9 x (DMC-TZ11)
Focus	Normal/Macro Face detection/9-area-focusing/3-area-focusing (High speed)/ 1-area-focusing (High speed)/1-area-focusing/Spot-focusing
Focus range	
Normal/Motion picture	50 cm (Wide)/2 m (Tele) to ∞
Macro/Intelligent Auto/ Clipboard	5 cm (Wide)/1 m (Tele) to ∞ (2 m unless max.T)
Scene mode	There may be difference in above settings.
Shutter system	Elect ronic shutter + Mechanical shutter
Motion picture recording	1280 × 720 pixels* (DMC-TZ15 only) 848 × 480 pixels*/640 × 480 pixels* /320 × 240 pixels (* Only when using an SD Memory Card) 30,15 (DMC-TZ15 only), 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	 DMC-TZ15: 2.5 pictures/second (Burst), Approx. 2 pictures/second (Unlimited) DMC-TZ11: 3 pictures/second (Burst), Approx. 2 pictures/second (Unlimited)
Number of recordable pictures	 DMC-TZ15: Max. 5 pictures (Standard), max. 3 pictures (Fine), Depends on the remaining capacity of the built-in memory or the card (Unlimited). DMC-TZ11: Max. 7 pictures (Standard), max. 4 pictures (Fine), Depends on the remaining capacity of the built-in memory or the card (Unlimited).
Hi-speed burst Burst speed	DMC-TZ15: Approx. 6 pictures/second DMC-TZ11: Approx. 7 pictures/second
Number of recordable pictures	Approx. 20 pictures (When using the built-in memory, immediately after formatting) Max. 100 pictures (When using a card, differs depending on the type of card and the recording conditions)
ISO sensitivity	AUTO/100/200/400/800/1600 [HIGH SENS.] mode: 1600 - 6400
Shutter speed	8 to 1/2000th [STARRY SKY] mode: 15 seconds, 30 seconds, 60 seconds
White balance	AUTO/Daylight/Cloudy/Shade/Halogen/White set
Exposure (AE)	AUTO (Programme AE) Exposure compensation (1/3 EV Step, -2 EV to +2 EV)
Metering mode	Multiple/Centre weighted/Spot
LCD monitor	 DMC-TZ15: 3.0" low-temperature polycrystalline TFT LCD (Approx. 460,800 dots) (field of view ratio about 100 %) DMC-TZ11: 2.5" amorphous silicon TFT LCD (Approx. 230,400 dots)
	(field of view ratio about 100 %)

Flash	Flash range: (ISO AUTO) Approx.60 cm to 5.3 m (Wide) AUTO, AUTO/Red-eye reduction, Forced flash ON (Forced flash ON/
	Red-eye reduction), Slow sync./Red-eye reduction, Forced flash OFF
Microphone	Monaural
Speaker	Monaural
Recording media	Built-in Memory (Approx. 50 MB)/SD Memory Card/SDHC Memory Card/ MultiMediaCard (Still pictures only)
Picture size	
Still picture	When the aspect ratio setting is [4.3] • DMC-TZ15: 3456 × 2592 pixels / 3072 × 2304 pixels / 2560×1920 pixels / 2048×1536 pixels / 1600 × 1200 pixels / 640 × 480 pixels • DMC-TZ11: 3264 × 2448 pixels / 2560 × 1920 pixels / 2048 × 1536 pixels / 1600 × 1200 pixels / 640 × 480 pixels
	When the aspect ratio setting is [3:2] • DMC-TZ15: 3552 × 2368 pixels / 3072 × 2048 pixels / 2560 × 1712 pixels / 2048 × 1360 pixels • DMC-TZ11: 3264 × 2176 pixels / 2560 × 1712 pixels / 2048 × 1360 pixels
	When the aspect ratio setting is [1032] • DMC-TZ15: 3712 × 2088 pixels / 3072 × 1728 pixels / 2560 × 1440 pixels / 1920 × 1080 pixels • DMC-TZ11: 3264 × 1840 pixels / 2560 × 1440 pixels / 1920 × 1080 pixels
Motion pictures (*Only when using an SD Memory Card)	1280 × 720 pixels* (DMC-TZ15 only) / 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 (High Speed) Analog video/audio: NTSC/PAL Composite (Switched by menu), Component/Audio line output (monaural)
Terminal	COMPONENT OUT: Dedicated jack (10 pin) DIGITAL/AV OUT: Dedicated jack (8 pin) DC IN: Dedicated jack (2 pin)
Dimensions (excluding the projection part)	 DMC-TZ15: Approx. 103.3 mm (W) × 59.3 mm (H) × 36.5 mm (D) DMC-TZ11: Approx. 103.3 mm (W) × 59.3 mm (H) × 36.2 mm (D)
Mass	Excluding card and battery: DMC-TZ15 Approx. 214 g/ DMC-TZ11 Approx. 208 g With card and battery: DMC-TZ15 Approx. 240 g/ DMC-TZ11 Approx. 234 g
Operating temperature	0 °C to 40 °C
Operating humidity	10 % to 80 %

Battery charger (Panasonic DE-A46A): Information for your safety

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

Battery Pack (lithium-ion) (Panasonic CGA-S007E): Information for your safety

Voltage/capacity	3.7 V 1000 mAh



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Matsushita Electric Industrial Co., Ltd. Web Site: http://panasonic.net

