

Safety Precautions

- Be sure to read these “Safety Precautions” before trying to use it. After reading the User’s Guide, keep it in a safe place for future reference.



DANGER

Indicates something that creates the major risk of death or serious personal injury.



WARNING

Indicates something that creates the risk of death or serious personal injury.



CAUTION

Indicates something that creates the risk of minor personal injury or physical damage

Symbol Examples



The ☹ symbol indicates something you should not do.
(Symbol to the left means “No water getting wet”)



The △ symbol indicates something that requires caution.
(Symbol to the left means “Electric shock precautions”)



The ● symbol indicates something you must do.
(Symbol to the left means “Unplug the power plug.”)

DANGER

Rechargeable Battery Precautions



Charge a battery using only the method specifically described in user documentation.

Use of another method creates the risk of battery overheating, fire, and rupture.



Do not allow a battery to come into contact with fresh water, salt water, or other moisture. Do not use a battery that is wet.

Doing so creates the risk of battery overheating, fire, and rupture.



Use only the specified type of equipment.

Use of the wrong equipment creates the risk of battery overheating, fire, and rupture.

Observe the precautions below in order to avoid battery overheating, fire, and rupture.



- Always use only the specified type of battery.

- Do not expose a battery to fire or heat.



- Load a battery with its poles (plus (+) and minus (-)) facing correctly.



- Do not carry or store a battery together with necklaces, coins, or other metal objects.

- Do not try to disassemble or modify a battery, pierce it with a needle, subject it to strong impact (by stepping on it etc.), or apply solder directly to it.

- Do not put a battery into a microwave oven, dryer, high-pressure vessel, etc.

- Do not peel the external decorative sticker from a battery.



Immediately after noticing any fluid leak, abnormal odor, overheating, discoloration, deformation or other battery abnormality, very carefully remove the battery from the product and/or charger. Keep the removed battery away from fire.

Do not use a battery exhibiting any abnormality.

Continued use creates the risk of battery overheating, fire, and rupture.

Do not use or leave a battery in a location exposed to direct sunlight, in an automobile parked outside, near open flame, a stove, or in any location subjected to high heat.

Such conditions create the risk of battery overheating, fire, and rupture. They also can cause a battery swell, making it impossible to remove.



Should fluid from a battery get on your skin or clothing, immediately rinse it off with clean water.

Fluid creates the risk of skin irritation.

Battery fluid getting into the eyes creates the risk of eyesight loss, etc. Immediately rinse the eyes and then contact a physician.

WARNING

AC Adaptor

Observe the precautions below in order to avoid AC adaptor fire and electric shock.



- Use only the specified type of AC adaptor.



- Use only the included power cord.



- Use the AC adaptor only with the device specified for it.
- Do not plug the power cord into an outlet with the wrong voltage rating.
- Do not plug into an overloaded extension cord or power outlet.
- Do not cover the power cord with a blanket or other material during use, and keep it away from heating devices.
- Do not place heavy objects on the power cord and do not leave it bundled during use.
- Do not place heavy objects on the power cord and do not bundle it with cables.
- Do not subject a power cord to heat or attempt to modify it, and avoid damaging it.
- Do not subject the power cord to excessive bending, twisting, or pulling.



Do not touch the plug with wet hands.

Doing so creates the risk of electric shock.



If the AC adaptor or power cord becomes damaged, contact your original retailer.

Continued use creates the risk of fire and electric shock.



Do not use the AC adaptor while it is wet.*

*** Avoid water, sports drinks, seawater, animal or pet urine, and other liquid.**

Liquid creates the risk of fire and electric shock.

Do not place a flower vase or any other liquid container on top of the AC adaptor or power cord.

Water creates the risk of fire and electric shock.



Before leaving the product unattended, unplug the AC adaptor from the power outlet, and move the product to a location away from animals and pets.

Pet chewing or urine can cause shorting, which creates the risk of fire.



In the case of a lightning storm, do not touch the device plugged into the power outlet.

Lightning creates the risk of electric shock.

WARNING

Storage and Operation Locations



Do not store or use the product in any of the locations described below.

Doing so creates the risk of fire and electric shock.

- Areas subjected to large amounts of moisture and dust
- Food preparation areas, near a humidifier, or in areas where the product is exposed to oil smoke or water vapor
- Near a heating device, on an electric carpet, in a location exposed to direct sunlight, in a car parked outside, or any other area where the product is subjected to high temperatures.

Do not place the product on an unsteady platform, on a high shelf, or in any other unstable location.

Dropping and tipping over creates the risk of personal injury.

Abnormalities (Smoke, Odor, Heat Generation, etc.)



Do not use the product if it is emitting smoke, odor, heat, or exhibiting any other abnormality. Do not use the product after it has been dropped or otherwise damaged.

Doing so creates the risk of fire and electric shock. Immediately perform the steps below.

- 1) Turn off power.
- 2) If you are using an AC adaptor, unplug its power plug from the power outlet.
- 3) Contact your original retailer.

Display Screen



Do not press the LCD or subject it to strong impact.

Doing so can cause the LCD glass to crack, creating the risk of personal injury.

Should the LCD become cracked, never touch any of the liquid inside.

LCD liquid getting on the skin creates the risk of skin irritation.

Should LCD liquid get into your mouth, immediately rinse your mouth out and contact your physician.

Should LCD liquid get in your eyes or on your skin, rinse with clean water and then contact your physician.

Disassembly and Modification



Do not attempt any disassembly or modification.

For any internal inspection, adjustment, or repair, contact your original retailer.

Doing so creates the risk of electric shock, burn injury, and personal injury.

WARNING

Avoiding Water and Foreign Matter



Do not allow water, other liquids (sports drinks, seawater, animal or pet urine, etc.), or foreign objects (metal fragments, etc.) to get into the product or the AC adaptor. Should any such matter get into the product, immediately perform the steps below.

Continued use creates the risk of fire and electric shock.

Particular care is required when using the product when it is raining or snowing, near the ocean or other body of water, or in a bathroom.

- 1) Turn off power.
- 2) If you are using the AC adaptor to power the product, unplug the power plug from the power outlet or remove the battery from the camera.
- 3) Contact your original retailer.



Do not locate a flower vase or other liquid container on top of or next to the product or AC adaptor.

Liquid spilling from a container creates the risk of fire and electric shock.

Memory Cards



Store memory cards out of the reach of small children.

Should a card be swallowed accidentally, immediately contact a physician.

Precautions During Camera Operation



Do not maintain contact with the camera for long periods while it is operating.

The product becomes warm when on, and creates the risk of low-temperature burns.

WARNING

Effect on Other Electronic Devices



Should you notice radio interference or other problems on other devices is being caused while using this product, do not use the wireless function.

Use of wireless functions creates the risk of radio interference and abnormal operation of other devices.

When traveling on an aircraft, comply with the airline company's instructions.

Do not use the product in an area where use of such devices is prohibited.

Electromagnetic waves and other signals emitted by this product may affect measuring instruments and create the risk of accident.

Do not use the product in the vicinity of high-precision electronic equipment or any electronic equipment that handles weak signals.

Doing so can cause misoperation and other problems in the electronic equipment, and creates the risk of accident.

Keep this product away from the chest area of any individual fitted with a cardiac pacemaker.

Cardiac pacemakers and similar devices can be affected by electromagnetism.



Turn off the wireless function and the product while on a train or in any other crowded location.

When near a person wearing a cardiac pacemaker or other medical devices, radio waves may affect such devices and cause them to malfunction, creating the risk of accident.

Avoid Looking into the Light



Don't look at the LED while it is lit.

Doing so could result in damage to your retina.



CAUTION

Rechargeable Battery Precautions



If a battery is not charged even if the specified charging time is exceeded, stop charging.

Failure to do so creates the risk of battery overheating, fire, and rupture.



Keep batteries away from children.

When using a rechargeable battery, keep it away from children when it is removed from the charger and/or product.



Do not leave a battery near areas used by pets.

Pets chewing on a battery creates the risk of fluid leaking, overheating, fire, and rupture.

Do not use a battery that is severely swollen.

Doing so may make it impossible to remove the battery from the product. If this happens, contact your original retailer or a your original retailer.

AC Adaptor

Observe the precautions below in order to avoid AC adaptor fire and electric shock.



- Do not cover the power cord with a blanket or other material during use, and keep it away from heating devices.



- Insert the power plug into the outlet as far as it will go.



- After use, unplug the power plug from the power outlet.



- When unplugging the power plug, do not pull on the power cord. Grasp the plug.



- If you do not plan to use the product for a long time, unplug from the power outlet.



- At least once a year, unplug the power plug from the power outlet and use a dry cloth to wipe away any dust buildup from the area between the prongs of the plug.



- Do not use detergent when cleaning the power cord, especially the power plug and jack parts.

User Maintenance



Before cleaning the product, turn off power and unplug the AC adaptor from the power outlet.

Failure to do so creates the risk of electric shock.

Leaving the AC adaptor plugged in creates the risk of damage to the power cord, fire, and electric shock.

CAUTION

Connections



Connect only specified devices and items to connectors.

Connecting to other devices and items creates the risk of fire and electric shock.

Backing Up Important Data



Always keep backup copies of important data by transferring it to a computer or other storage device.

Note that data can be deleted in the case of product malfunction, repair, etc.

Memory Protection



Follow proper procedures as explained in the user documentation when replacing the memory card or battery.

Failure to do so creates the risk of data loss or corruption.

LED and Other Light Emitting Functions



Do not point the LED light or any other light-emitting functions at your eyes.

Doing so could result in damage to your retina. To ensure that light does not shine into the patient's eyes during photography, take pictures while the patient's eyes are closed or use a curtain or other barrier.

Take care that your fingers, gloves, or other items are not touching the LED light window.

Touching the LED light window can lead to burn injury, smoke, discoloration, or malfunction.

Do not fire the LED light while the LED light window is dirty, dusty, or soiled with foreign matter.

Doing so can lead to smoke emission and discoloration.

CAUTION

Using the CAMERA STAND correctly (CAMERA STAND sold separately)



To ensure that the CAMERA STAND does not topple over while being used or in storage, always observe the following.

Failure to do so may result in injury due to the CAMERA STAND falling over and the camera being dropped.

- Install the camera on the CAMERA STAND correctly as described in the User's Guide.
- When moving the CAMERA STAND arm, take care to avoid trapping your hand in the arm.
- Hold the stand by the handle when installing the camera or relocating the stand.
- Always apply the caster stoppers when stowing the stand.

Notes on Using the Camera

■ Notes on Handling the Camera

This camera is a precision device. Applying undue force to the lens in particular can cause damage or a fault. Take special note of the following:

	Use the camera indoors (consulting/examination rooms, home health care, etc.).
	Do not leave the LED light switched on for extended periods.
	Do not operate with wet hands.
	Do not subject the camera to sterilization using equipment such as an autoclave.
	Do not use lighting or communications equipment that emits electromagnetic waves near this camera. Doing so could cause a malfunction.
	When taking photos, take care not to hit the lens against other objects, drop the camera or otherwise subject the camera to strong impacts.
	Do not use the camera in ways that subject the lens to excessive force, such as holding the camera by the lens when taking photos.
	When carrying the camera in a bag or other container, avoid subjecting the camera to excessive force. Take particular care to protect the lens, such as by fitting the lens cap provided.
	To avoid dropping the camera, place it on the CAMERA STAND when taking pictures.
	Do not drop the camera or otherwise subject it to strong impacts.
	Check that the rechargeable battery is fully charged and take care to ensure that the battery does not run out of charge while you are using the camera.
	During observations and photography, hold the camera grip securely and take care not to drop it. Particularly when working above the patient, take care not to drop the camera onto the patient.

	Carefully check the recording mode (CONT or SINGLE) when taking pictures to ensure that the mode is correct for the site being photographed.
	To ensure that light does not shine into the patient's eyes during photography, take pictures while the patient's eyes are closed or use a curtain or other barrier.
	Depending on the recording mode, the LED light may be on or off, or may illuminate a different area. Take care shining the light at other people. Take particular care not to shine the LED light into other people's eyes.
	Always use only the specified rechargeable battery, AC adaptor and cables. The use of other products may lead to faults or malfunctions. It may also result in lowered resistance to external electromagnetic waves and/or an increase in unwanted electromagnetic wave emissions.
	Avoid using the camera close to or stacked on top of other equipment. Doing so could cause a malfunction.
	If you notice any unusual odors, overheating, discoloration, distortion or any other abnormality when using, charging or storing this camera, immediately stop using the camera. Continued use of the camera could cause the battery to overheat, rupture or catch fire.
	If the battery leaks fluid or emits unusual odors, immediately move it away from any exposed flame. Otherwise, the leaked electrolyte could ignite and explode or catch fire.
	The AC adaptor for camera charging, HDMI cable and micro USB cable should be disconnected from the camera when not being used.
	When the AC adaptor for camera charging, HDMI cable or micro USB cable is connected to the camera, avoid applying undue force to the connector on the camera. Doing so could damage the connector.

Even during the warranty period, charges will apply to any repairs for faults caused by damage to camera components such as the lens, LCD monitor or internal circuit boards where that damage arises from handling errors, such as external pressure, impacts or being dropped.

■ Notes on Storing and Shipping the COLPOCAMERA

- Storage/shipping temperature: -20°C to 60°C (-4°F to 140°F)
- Storage/shipping humidity: 10% to 85% (condensation-free)
- Switch the camera off, wipe the lens and camera body clean and store the camera in a clean location.
- Store the camera in a location that is not subject to high temperatures or humidity or exposed to direct sunlight.
- Store the camera out of the reach of children.
- Do not store the camera in an elevated or other location from which it could fall and be damaged and/or cause injury.
- If the camera will not be used for an extended period, store it with the rechargeable battery removed from the camera body.

■ Notes on Data Errors

This camera is made up of precision electronic components. Handling the camera in any of the ways listed below could result in the corruption of data in the camera.

- Removing the battery or memory card during camera operation
- Removing the battery or memory card when you have switched the camera off and the operation check indicator is flashing green
- Disconnecting the USB cable during communication
- Continuing to use a battery that immediately goes flat after being charged
 - Continuing to use a battery that immediately goes flat after being charged could damage the camera. Install a new replacement battery immediately.
- Other abnormal operations

In such cases, a message may appear on the screen (page 88). Respond as directed by the message.

■ Operating environment

- Operating temperature requirements: 10°C to 30°C (50°F to 86°F)
- Operating humidity: 10% to 85% (non-condensing)
- Do not place this camera in the following locations:
 - Very humid, dusty or gritty locations or in direct sunlight
 - Locations subject to extreme variations in temperature or humidity, such as close to heating or cooling units
 - Inside a vehicle on a sunny day or in locations subject to frequent vibrations
 - Locations accessible to children
 - In an elevated or other location from which the camera could fall and be damaged and/or cause injury
- The camera should be used in a dedicated medical treatment facility or home health care situation.

■ Condensation

If the camera is suddenly moved between locations with very different temperatures, such as from outdoors on a cold, midwinters day to a heated room indoors, water droplets (condensation) may form on the inside and outside of this camera and cause a fault. To prevent condensation in such situations, place the camera in a sealed plastic bag before moving it. Then wait until it has fully adjusted to the ambient temperature before taking it out of the bag and leaving it for several hours with the battery cover open.

■ Lens

Do not forcefully rub the lens surface as this could scratch the surface or damage the lens unit.

■ LED light

- Do not look directly at the LED light or look directly into the lens the front of the camera when it is switched on. Doing so could expose your eye to strong light and damage your retina.

Risk Group 2

Do not look directly into LED light as it emits very bright light.

RG2 IEC62471:2006



- Using the light at the HIGH brightness setting for long periods can cause the temperature of the front of the camera to exceed 41°C (106°F), up to a maximum of 46°C (115°F). Turn off the camera when it is not in use.

■ Cleaning the camera

- Do not touch the lens surface or LED light. And do not directly touch the area being photographed.
- Keep this camera clean by always disinfecting it before and after use. Wearing medical gloves, carefully wipe the camera's lens and body with a wet wipe soaked in an ethanol solution of at least 70% concentration.
- Dirt or dust on the camera should be wiped off using a wet wipe soaked in ethanol for disinfection that must be at the appropriate concentration.
- Before and after use, check that there is no soiling, chipping or splitting in the camera body or in the lens at the front of the camera.
- Do not use the camera when it is damaged.
- If you suspect any defect, however slight, immediately stop using the camera and contact your original retailer.

■ Notes on handling this camera and Options

- Disposal and recycling should be carried out in accordance with the directions given by your local government authority for environmental protection.

For Customers in the U.S.A.

This lithium ion battery, which provides power for your digital camera, can be recycled.

Please do your part to protect the environment and recycle this battery.

For information on how to recycle the battery, please call 1-800-822-8837 or <https://www.call2recycle.org/>.



■ Notes on using Wi-Fi function (wireless LAN)

- Because this product uses wireless communication, it may affect or be affected by nearby equipment.
- This product is subject to the Export Administration Regulations (EAR) of the United States and cannot be taken or exported to countries that are embargoed under those regulations.

Radio transmission interception

Data transmitted via radio waves can be intercepted by a third party. Please bear this in mind.

Unauthorized access

CASIO COMPUTER CO., LTD. accepts no liability whatsoever for any loss or damages due to the use of this product or unauthorized access to contacts stored in this product arising from its loss or theft.

Use of this camera as a wireless device

The Wi-Fi function in this product should be used within the limitations stated in this User's Guide. CASIO COMPUTER CO., LTD. accepts no liability whatsoever from any damages arising from other uses of this product.

Connections to public LANs

This camera cannot make a wireless LAN connection via a public wireless LAN.

Intended region

Use of this camera in a country or area other than where it was originally purchased runs the risk of being in violation of local radio laws and other laws. Note that CASIO COMPUTER CO., LTD. shall not be held in any way liable for any such violations.

■ Other notes

- This camera heats up slightly when being used. This is normal and does not indicate a fault.
- Keep any portable wireless communications devices (including peripheral devices such as antenna cables and external antennas) at least 30 cm (11.8") away from this camera. Proximity to such equipment may impair device performance.

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Supplier's Declaration of Conformity

Model Name : DZ-C100, AD-M50300AC

Responsible Party : Casio America Inc.

Address : 570, Mount Pleasant Avenue, Dover, NJ 07801,
U.S.A.



Telephone number : 973-361-5400

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

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

NOTE

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

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

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. DZ-C100 has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

Charging

■ If the camera's operation check indicator flashes red during charging

- This indicates that charging cannot proceed because the ambient temperature or the battery temperature is either too high or too low. Disconnect the cable and leave the camera at room temperature for some time. Then resume charging within the recommended operating temperature range.
- Check for soiling on the battery contacts. If the contacts are dirty, wipe them clean with a dry cloth.

If you take the above steps and the operation check indicator is still flashing, refer to the contact information in "Inquiries Regarding Functioning, Operation or Purchase".

Notes on the battery

■ Notes on using the battery

- In cold locations, the characteristics of the battery are such that the time for which battery can be used when fully charged may be shorter.
- Charge the battery within the recommended operating temperature range. At temperatures outside the recommended rate, charging may take longer or it may not be possible to charge the battery fully.
- Do not damage or peel off the outer seal on the battery.
- If the time for which the battery can be used reduces significantly even immediately after charging, the battery may have reached the end of its service life. Purchase a new battery. Do not continue to use an old battery.

■ Notes on storing batteries

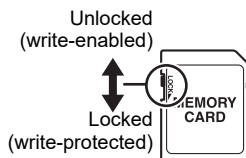
- Storing a charged battery for long periods may adversely affect the battery's characteristics. If the battery will not be used for some time, drain the battery charge fully before storing it.
- When the camera is not being used, remove the battery from the camera. When the battery is left in the camera, small amounts of current continue to flow even when the camera is switched off. This could drain the battery, lengthen the charging time or cause camera damage.
- Store batteries in a dry, cool location (20°C (68°F) or less).
- To prevent over-discharging, at least once every 6 months you should fully charge the battery and then fully use up the charge with the camera before storing the battery.

Memory Cards

See page 20 for information on the supported memory cards and how to insert a memory card.

■ Memory cards

- SD, SDHC and SDXC memory cards are all fitted with write-protection (lock) switches. Use this switch if you are concerned about accidentally deleting your data. However, note that you cannot use a locked card for photography, format the card or delete data without first unlocking the card.
- Because recorded data can be deleted or corrupted by factors such as electrostatic charge or electrical noise, you are advised to always back up important files to another media (optical disk (Blu-ray, DVD, etc.), hard disk, etc.).



■ Notes on Using Memory Cards

- Processing speeds may be slower for some types of memory card. Always use ultra high-speed memory cards whenever possible. Note that not all operations are guaranteed, even for ultra high-speed memory cards.
- It is recommended that you use only CASIO-approved memory cards. For specific details such as manufacturers and supported capacities, visit <https://dz-image.casio.jp/products/derm/>.

■ Notes on transferring or disposing of memory cards and the camera body

The “Format” and “Delete” functions in this camera only change the file management information on the memory card. The data itself is left unchanged. The management of data on a memory card is the responsibility of the customer. Some recommended methods are outlined below.

- When disposing of a memory card, physically destroy the memory card itself, or use third-party dedicated data eraser software or a similar tool to completely delete the data on the memory card.
- When transferring a memory card, use third-party dedicated data eraser software or a similar tool to completely delete the data on the memory card.

It is also recommended that you use the “Format” function (page 63) to completely delete the data in built-in memory before transferring or disposing of the camera body.

Resetting and reset content

The list below shows the settings in the recording mode and playback mode menus that are reset (initialized) by the Reset procedure (page 63).

- Settings marked as “–” below are not reset.



IMPORTANT!

- Some menu options may not be available depending on the recording mode used.

Wi-Fi	Wi-Fi: OFF	Date Style	yyyy/mm/dd
	Wi-Fi Mode: AP		Language English
	SSID: DZ-C100		
	Password: 00000000		White Balance Fixed
Image Size	20M		
Screen	0	Green shooting adj.	± 0
Sounds	Startup: OFF	Doctor ID	Input At Startup: OFF
	Half Shutter: OFF	Patient ID	Input At Startup: OFF
	Shutter: OFF	PL	OFF
	Operation: OFF	Trash	OFF
Auto sleep timer	Operation Vol:3	Date Label	OFF
		PIN	Input At Startup: OFF
Adjust	–		

Trouble shooting

Symptoms and solutions

Symptoms	Probable cause and solution
Power Supply	
The camera won't switch on.	1) The battery may be loaded the wrong way round (page 11). 2) The battery may be fully discharged. If so, recharge the battery (page 13). If the battery immediately runs out even so, the battery has reached the end of its service life. Purchase a new CASIO lithium-ion battery (DNP-100M) (sold separately).
The camera switched itself off for no reason.	1) The Auto Power Off function may have been triggered (page 15). Switch the camera back on. 2) The battery may be fully discharged. If so, recharge the battery (page 13). 3) Protective action may have been triggered because the camera exceeded a set temperature. Leave the camera switched off for a while until it cools down before using it again.
The camera won't switch off. Nothing happens when I press the buttons.	Briefly remove the battery from the camera and then reload the battery.
Charging	
The operation check indicator does not light orange and I can't charge the camera battery.	1) Connect or disconnect the cable for the AC adaptor for camera charging connected to the camera. 2) Briefly remove the battery from the camera and then reload the battery (page 12). 3) If reconnecting the AC adaptor for camera charging or reloading the battery does not enable charging, the battery may be damaged due to an electrostatic discharge or similar event. Replace the battery.
Photography	
Pressing the shutter button doesn't take pictures.	1) If the camera is in playback mode, press [▶] or the shutter button to switch to recording mode. 2) If "Memory Full" is displayed, transfer some image to your computer and then delete images you no longer need on the camera. Otherwise, load another memory card.
I'm using Auto Focus but I still can't get the image in focus.	1) If the lens is dirty, wipe it clean. 2) Align the center of the focusing frame with the subject.
The subjects in photographed images are blurred.	The image may not be focused. Align the focusing frame over the subject you want in focus and then take the shot.

Symptoms	Probable cause and solution
The battery went dead while I was shooting with the self-timer.	The battery may be fully discharged. If so, recharge the battery (page 13).
There is noise in the image.	The camera automatically increases its sensitivity when the subject is dark, which may generate noise. Use a light or similar means to make the shot brighter.
Photographed images are not saved.	1) If the battery ran flat before recording was completed, the image is not saved. If the battery level indicator is  , immediately charge the battery (page 15). 2) If the memory card was removed before recording was completed, the image is not saved. Do not remove the memory card until recording is completed.
The image goes out of focus during video shooting.	1) The adaptor selector setting may be wrong. Use the correct setting for the recording mode. 2) The lens may be dirty. If so, clean it.
I can't stop the camera shooting video.	An electrostatic discharge or similar event may be preventing the monitor screen from changing and stopping you from ending video shooting. Disconnect the AC adaptor cable or reload the battery to switch the camera off and then on again.
The camera suddenly stops shooting video for no reason.	Protective action may have been triggered because the camera exceeded a set temperature. Let the camera cool down before using it again.
I can't change the function settings. The setting options are not displayed.	Some setting options are not available in some recording modes.
Playback	
Images are not displayed.	If you used a memory card containing images shot on another camera that is not compliant with the DCF standard, the images are in a different file management format and cannot be played back.

Symptoms	Probable cause and solution
Wi-Fi function	
I can't connect to the wireless LAN. The connection drops out.	1) If the computer or wireless LAN router are too far from the camera, it cannot maintain a connection. 2) The computer may be connected to another wireless device. Check that this camera is selected in the Wi-Fi connection settings on the computer (page 49). 3) The connection may drop out if there is a microwave oven, cordless phone or other wireless device nearby. Keep the camera well away from other devices when using it. 4) If none of the above problems apply and you still cannot establish or maintain a connection, the camera may have been damaged by an electrostatic discharge or similar event. Refer to the contact information in "Inquiries Regarding Functioning, Operation or Purchase".
Other	
The date and time shown on the screen and the dates for recorded files are incorrect.	The date and time settings are incorrect. Reset the date and time (page 61).
The words shown on the screen are in a foreign language.	The display language settings are incorrect. Reset the language (page 61).
Images are not imported when I connect to the computer via USB.	1) The USB cable may not be securely connected. Check the connectors and ensure that they are securely plugged in. 2) If the camera is not switched on, switch it on again. 3) If you connect the USB cable to the computer via a USB hub or similar device, the camera may not be recognized correctly. Connect the USB cable directly to a USB port on the computer. 4) You cannot communicate via USB when the battery level indicator shows . Recharge the battery before connecting to the computer.
When I switch the camera on, the time setting screen appears.	1) The camera is not set to the factory defaults, or the camera has been left with the battery fully discharged. Configure the settings correctly (pages 15, 24). 2) The memory management area inside the camera may be corrupted. If so, use the Reset procedure to restore the default camera settings (page 63). Then configure the settings. If the time setting screen still does not appear when you switch the camera back on, refer to the contact information in "Inquiries Regarding Functioning, Operation or Purchase".
Various icons and numbers appear on the screen.	Such displayed items include the screen displays needed for photography and information on images you have shot. Tapping  allows you to toggle between showing and hiding information on the screen (page 10).

Symptoms	Probable cause and solution
If you set the time after purchasing the camera and then immediately remove the battery, the set time is reset.	Load the battery and reset the time (page 24). Then leave the battery in the camera for at least 24 hours. If you have left the battery in the camera for at least 24 hours and the time is still reset every time you remove the battery, the function for retaining the camera settings may be corrupted. In this event, refer to the contact information in "Inquiries Regarding Functioning, Operation or Purchase".
The buttons do not work immediately after I switch the camera on.	If you are using a high-capacity memory card, more time is required between switching the camera on and being able to use the buttons.

Messages displayed on the screen

Card ERROR	Displayed where there is an error on the memory card. Switch the camera off and re-insert the memory card. If the same message reappears when you switch the camera back on, format the memory card (page 63).  IMPORTANT! Note that formatting the memory card will delete all the content (files) on the card. Before formatting the memory card, use a computer or other device to save any uncorrupted files on the memory card.
This card is not formatted.	Displayed where there is the memory card has not been formatted. Format the memory card (page 63).
The card is locked.	The LOCK switch provided on the SD, SDHC or SDXC memory card is in the locked position. You cannot record or delete files on a locked memory card. LOCK switch 
This file cannot be played.	You are trying to play back a file that is corrupted or that cannot be played on this camera.
Battery is low.	Appears when the battery has run flat.
There are no files.	You have not recorded any files, or all the recorded content has been deleted and there are no files on this camera.
LENS ERROR	If the lens is operated unexpectedly, this message appears and the camera shuts down. If the same message still appears after you switch the camera back on, refer to the contact information in "Inquiries Regarding Functioning, Operation or Purchase".
Send failed.	Displayed when an attempt to send images to the D's IMAGE Viewer C image management software failed.
Communication stopped.	Displayed when communication to the computer via a Wi-Fi connection is interrupted.
Could not connect to Wi-Fi	Displayed when the Wi-Fi connection to the connected computer drops out.

No. of Remaining Still Image Shots/Remaining Shooting Time

Still images

Image size (pixels)	File size	No. of shots in built-in memory*1	No. of shots on SD memory card*2
20M (5184×3888)	8.06MB	5	1860
12M (3968×2976)	4.72MB	9	3190
5M (2560×1920)	1.97MB	23	7590

Video

Image size/ pixels (audio)	Transfer rate (frame rate)	1 file Max. size	Recording time in built-in memory*1	Max. available recording time on SD memory card*2	File size for 1-minute recording	Available continuous shooting time per shot*3
UXGA 1600×1200 (monaural)	18Mbps (30 frames/sec.)	Up to 1.4GB	18 sec.*4	Approx. 1hour 55 min.	140MB	Approx. 10 min.

*1 For built-in memory capacity after formatting (approx. 40.0MB).

*2 For a 16GB SDHC memory card (by SanDisk Corporation). The number of available shots/recording time may differ depending on memory card being used.

*3 If you use an SD memory card with a capacity that is smaller than the maximum size for one file, the time may be shorter than that shown.

*4 The built-in memory cannot fully meet the video transfer rate. Use an ultra high-speed memory card (page 20).

- The values given for the number of shots, shooting time and recording time are intended purely as a guide. The actual performance may be lower depending on the image content.
- The numbers provided for the file size and transfer rate are intended purely as a guide. Actual performance may vary depending on the subject photographed.
- If you use memory cards with different capacities, the number of images you can shoot should be roughly in proportion with the card capacity.

Main Specifications/Optional Products

Image file formats	Still images: JPEG (Exif Ver. 2.3/DCF2.0-compliant/DPOF non-compliant) Video: MOV format, H.264/AVC-compliant, IMA-ADPCM audio (monaural)
Recording media	Built-in flash memory (Image recording area: Approx. 40.0MB*) SD/SDHC/SDXC * Built-in memory capacity after formatting
Recorded pixels	Still image: 20M (5184×3888), 12M (3968×2976), 5M (2560×1920) Video: UXGA (1600×1200)
Valid pixels	Approx. 20.16 megapixels
Imaging element	Size: 1/2.3 inch CMOS (back-side illuminated) Total pixels: Approx. 21.14 megapixels
Lens	F3.3/f = 33.43 (Equivalent to 233 mm for 35mm film)
Zoom	Digital zoom 8x Zoom resolution: 0.1x
Focus	Contrast detection AF
Shooting range	From lens (front glass element): Approx. 19-38 cm (7.5" - 15")
Exposure compensation	-2.0EV to +2.0EV (0.1EV increments)
Shutter type	CMOS electronic shutter
Shutter speed	2-1/8000 sec.
Switchable filters	Normal, green, polarizing
White Balance	Auto, fixed

ISO sensitivity (standard output sensitivity)	Auto
Communication functions	Wi-Fi: - Compliant standard: IEEE 802.11b/g/n - Range of frequencies used: 1-11 ch, 2412-2462 MHz - Encryption method: WPA2 - Radiant power(EIRP): 13.43 mW
Image monitor	3.0 inch TFT color LCD 1,036,800 dots Capacitive touch panel
External connection ports	Micro USB port (Hi-Speed USB-compatible), HDMI™ output (Micro, type D), DC jack (5V, 3A)
Microphone	Monaural
Speaker	Monaural
Power supply	Lithium-ion battery (DNP-100M) (1)
Service life	5 years

Battery life

The battery life figures shown below are an approximate guide to how long the battery will last when used at a temperature of 23°C (73°F). They constitute no guarantee of shooting time or number of shots. Battery life will be shorter at lower temperatures.

No. of still image shots*1	Approx. 180
Actual video recording time*1	Approx. 45 min.

- Temperature: 23°C (73°F)
- Battery used: DNP-100M (rated capacity 1690 mAh)
- Recording media: 16GB SDHC memory card (by SanDisk Corporation)

*1 Compliant with CIPA (Camera & Imaging Products Association) standards

- The above figures are for a new, fully charged battery. Battery life will gradually shorten with repeated use.
- These figures are not guaranteed for battery life in actual use.

Power consumption	3.7 V DC, approx. 5.5 W
Size	127.5×76.0×78.0 mm (5.0"×3.0"×3.1") (W x H x D)
Weight	Approx. 426 g (15.0 oz) (including battery and memory card) Approx. 379 g (13.4 oz) (excluding battery and memory card)

Applicable standards IEC60601-1
IEC60601-1-2

The monitor and computer used should be compliant with the IEC/UL/CSA/EN60950-1 or JIS C 6950-1 standard or with the VCCI-B, FCC-B or CE, UKCA standard.

The use of non-compliant products could result in failure to meet the applicable standards.

Applicable emissions/class/group Immunity test level CISPR11 group 1, class B
IEC61000-4-3
Radiated RF electromagnetic field
Residential healthcare environments
IEC61000-4-6
Conducted disturbance caused by RF electromagnetic fields
Residential healthcare environments

Medical electrical equipment safety standards Class II ME equipment

■ Lithium-ion battery (DNP-100M)

Rated voltage	3.7 V
Rated capacity	1690 mAh
Size	36.0×55.2×13.7 mm (1.4"×2.2"×0.5") (W x H x D)
Weight	Approx. 46 g (1.6 oz)

**Warning icons**

ISO7010-W001

Indicates a general, non-specific warning

**Class II
equipment icon**

A mark given to ME equipment that is designed such that it has functioning double insulation or reinforced insulation composed of both basic insulation and supplementary insulation for IEC60417-5172 Class II equipment.

**Power (ON/OFF)
icon**

IEC60417-5009

Power (standby)



Manufactured by YAMAGATA CASIO CO., LTD.
5400-1 Higashine-ko, Higashine-city
Yamagata 999-3701 Japan

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570, Mount Pleasant Avenue, Dover, NJ 07801, U.S.A.

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