Panasonic

Operating Instructions <Quick Start Guide>

Digital Camera

Model No. **DC-GH7**



LUMIX

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

Operating Instructions <Complete Guide>

Refer to “Operating Instructions <Complete Guide>” (HTML format/PDF format) for details about how to use the camera and notes on use.

https://panasonic.jp/support/dsc/oi/GH7/index.html

Panasonic Entertainment & Communication Co., Ltd.
Web Site: http://www.panasonic.com

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GH

DVQX2500ZB
F0424KN1054

Dear Customer,

We would like to take this opportunity to thank you for purchasing this Panasonic Digital Camera. Please read this document carefully and keep it handy for future reference. Please note that the actual controls and components, menu items, etc. of your Digital Camera may look somewhat different from those shown in the illustrations in this document.

Information for Your Safety

WARNING:

To reduce the risk of fire, electric shock or product damage,

- **Do not expose this unit to rain, moisture, dripping or splashing.**
- **Use the recommended accessories.**
- **Do not remove covers.**
- **Do not repair this unit by yourself. Refer servicing to qualified service personnel.**

■ Product identification marking

Product	Location
Digital camera	Bottom
Battery charger	Bottom

■ About the battery pack

CAUTION

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

- Do not heat or expose to flame.
- Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- Do not expose to low air pressure at high altitudes.
- Do not expose to extremely low air pressure, as this may result in explosions or leakage of flammable liquids and gases.

Warning

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

- Always use a supplied BNC conversion cable (for TC IN/OUT).
- Always use a genuine Panasonic Shutter Remote Control (DMW-RS2: optional).
- Always use a genuine Panasonic Tripod Grip (DMW-SHGR2/DMW-SHGR1: optional).
- Use an Ultra High Speed HDMI cable (Type A–Type A plug) with the length less than 3 m (9.8 feet).
- Use a BNC cable with the length less than 2.8 m (9.2 feet).
- Use a synchro cable with the length less than 3 m (9.8 feet).
- Use a headphone cable with the length less than 3 m (9.8 feet).
- Use a stereo microphone cable with the length less than 3 m (9.8 feet).

- Keep the hot shoe cover out of reach of children to prevent swallowing.
- Keep the eye cup out of reach of children to prevent swallowing.
- Keep the flash synchro socket cap out of reach of children to prevent swallowing.
- Keep the memory card out of reach of children to prevent swallowing.
- Excessive sound pressure from earphones and headphones can cause hearing loss.

Standard Accessories

Product numbers correct as of May 2024.

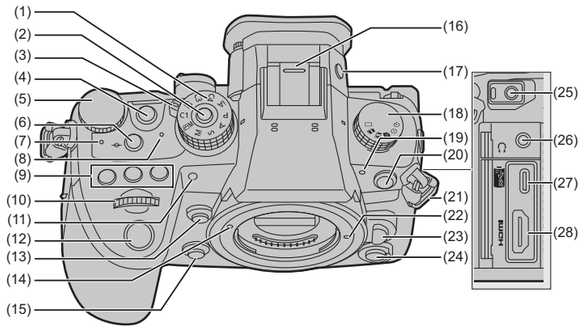
Digital camera body

Battery pack	**Body cap***
DMW-BLK22	VKF4971
Battery charger	**Eye cup***
DVLC1005Z	1YE1MC501Z
BNC conversion cable (for TC IN/OUT)	**Hot shoe cover***
K1TYYYY00286	4HR1MC5229Z
Shoulder strap	**Flash synchro socket cap***
DVPW1030Z	VKF5108

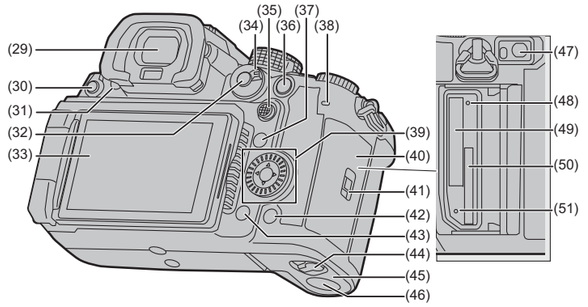
* This is attached to the camera at the time of purchase.

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

Names of Important Parts



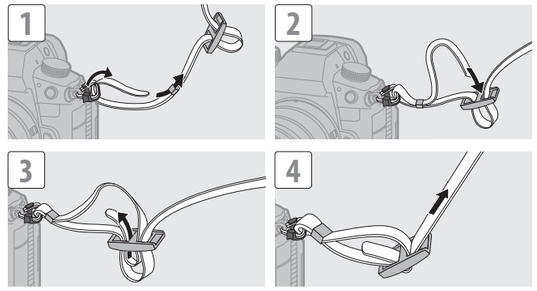
(1) Mode dial
(2) Mode dial lock button
(3) Camera on/off switch
(4) Video rec. button
(5) Rear dial
(6) [ ] (Audio information) button
(7) Charging light/Network connection light
(8) Power indicator
(9) [WB] (White balance) button
[ISO] (ISO sensitivity) button
[ ] (Exposure compensation) button
(10) Front dial
(11) Self-timer light/AF assist light
(12) Shutter button
(13) Enlarged live display (video) button
(14) Lens fitting mark
(15) Preview button
(16) Hot shoe (hot shoe cover)
(17) [LVF] button
(18) Drive mode dial
(19) Front tally lamp
(20) Flash synchro socket (flash synchro socket cap)
(21) Shoulder strap eyelet
(22) Lens lock pin
(23) Lens release button
(24) Sub video rec. button
(25) [MIC] socket
(26) Headphone socket
(27) USB port
(28) HDMI socket



(29) Viewfinder
(30) Operation lock lever
(31) [ ] (Playback) button
(32) [ ] (AF mode) button
(33) Monitor/Touch screen
(34) Focus mode lever
(35) Joystick
(36) [AF ON] button
(37) [Q] (Quick menu) button
(38) Rear tally lamp
(39) Control dial ( )
Cursor buttons (▲▼◄►)
[MENU/SET] button ( )
(40) Card door
(41) Card door lock lever
(42) [DISP.] button
(43) [ ] (Cancel) button/
[ ] (Delete) button
(44) Battery door release lever
(45) Battery door
(46) DC coupler cover
(47) [REMOTE] socket
(48) Card access light 1
(49) Card slot 1
(50) Card slot 2
(51) Card access light 2

Attaching a Shoulder Strap

Attach a shoulder strap to the camera with the following procedure to prevent it from dropping.

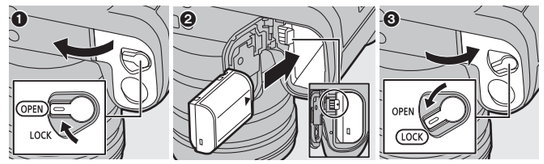


Charging the Battery

Charge using an AC adaptor (optional/commercially available) and a USB connection cable (commercially available).

1 Set the camera on/off switch to [OFF].

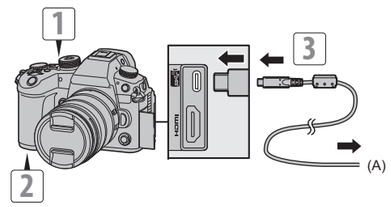
2 Insert the battery into the camera.



3 Connect the camera USB port and the AC adaptor using the USB connection cable.

4 Connect the AC adaptor to an electrical outlet.

- The charging light turns red and charging begins.
The charging light turns off when charging is complete.



(A) To the AC adaptor

Charging time	Approx. 170 min

- Using either the camera body and the optional AC Adaptor (DMW-AC11) or the camera body and the supplied accessories of the optional Battery Charger (DMW-BTC15).
- The supplied charger can also be used to charge instead of the camera body.

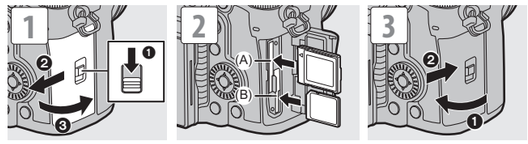
Cautions

- The battery that can be used with the camera is DMW-BLK22. (As of May 2024)
The Panasonic Battery Pack DMW-BLF19E (optional) can also be used, but due to the restrictions on functionality, it is recommended to use DMW-BLK22 (supplied/optional).
- **Always use genuine Panasonic batteries (DMW-BLK22).**
- **If you use other batteries, we cannot guarantee the quality of this product.**
- **It is recommended to use the Panasonic AC Adaptor (DMW-AC11: optional) or the supplied accessories of the Panasonic Battery Charger (DMW-BTC15: optional) for charging.**
- You can charge with the camera body or the supplied charger using a commercially available AC adaptor and a USB connection cable.
*Recommended specifications for the commercially available AC adaptor
– Supports PD (Power Delivery)
– Supports 9 V/3 A (27 W) DC output
– USB Type-C terminal
*Use a USB connection cable with 27 W output or better for charging.
- You can also use an AC adaptor with 5 V/500 mA or better for charging. However, charging time may be longer than with the recommended AC adaptor.
- Operation is not guaranteed with all commercially available devices.
- Using charging methods other than those specified may result in fluid leakage, overheating, combustion, rupturing, etc., and these may cause injury.
- This battery may present a risk of fire or chemical burn if mistreated.
- Place the removed battery in a plastic bag, and store or keep away from metallic objects (clips, etc.).
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

Inserting Cards (Optional)

You can use CFexpress cards and SD memory cards with this camera.

- **For information on memory cards with confirmed operation, check the following support site:**
https://panasonic.jp/support/global/cs/dsc/connect/index.html
(English only)

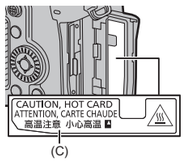


(A) Card slot 1: CFexpress card
(B) Card slot 2: SD card

- Match the orientation of the cards as shown in the figure and then insert them firmly until they click.
- To remove a card, confirm that the corresponding card access light has turned off, push the card until it clicks, then pull the card out straight.
- Format the cards with the camera before use.
MENU/SET ➡ [ ] ➡ [ ] ➡ Select [Card Format]

CAUTION, HOT CARD

- As indicated on the inside of the card door, the card may be hot just after the camera has been used. Be careful when removing.
When a high temperature caution message is displayed on the screen, do not remove the card immediately, but rather wait for it to cool down and the message to disappear.



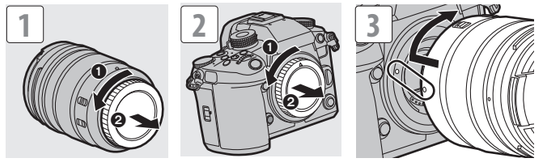
(C)

(C) **CAUTION, HOT CARD**

Attaching a Lens

The camera can use the dedicated lenses that comply with the Micro Four Thirds™ system lens mount specification (Micro Four Thirds mount).

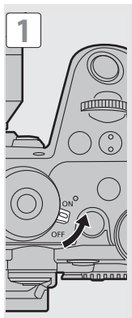
- **Refer to catalogs/websites for information regarding supported lenses.**
  https://panasonic.jp/support/global/cs/dsc/connect/index.html
  (English only)



- When removing the lens, rotate while pressing the lens release button.

Setting the Clock (When Turning On for the First Time)

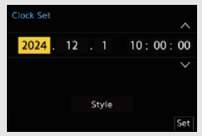
When you turn the camera on for the first time, a screen to set the time zone and clock appears. Follow the message to make the settings.



2

- Press ▲▼ to select the language if a language selection screen is displayed.





Time zone selection

Year, month, day, hour, minute, and second selection

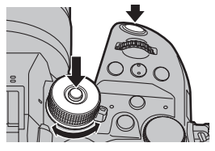
Daylight Savings setting

Value selection

Check or confirm and move to the next screen

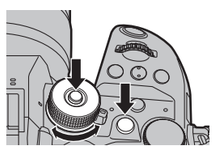
Taking Pictures

1. **Press the mode dial lock button to release the lock.**
2. **Rotate the mode dial to select the recording mode ([iA]/[P]/[A]/[S]/[M]).**
3. **Press the shutter button halfway (press it gently) to focus.**
4. **Press the shutter button fully (press it further) to take pictures.**



Recording Videos

1. **Press the mode dial lock button to release the lock.**
2. **Rotate the mode dial to select the recording mode.**
3. **Press the video rec. button to start recording.**
4. **Press the video rec. button again to end recording.**



Playing Back Images



Cautions for Use

❖ Firmware of Your Camera/Lens

Firmware updates may be provided in order to improve camera capabilities or to add functionality.

- **For the latest information on the firmware or to download/update the firmware, visit the following support site:**
  https://panasonic.jp/support/global/cs/dsc/download/index.html
  (English only)

❖ Splash Resistant

Splash Resistant is a term used to describe an extra level of protection this camera offers against exposure to a minimal amount of moisture, water or dust. Splash Resistant does not guarantee that damage will not occur if this camera is subjected to direct contact with water.
In order to minimize the possibility of damage please be sure the following precautions are taken:

– Splash Resistant works in conjunction with the lenses that were specifically designed to support this feature.
– Securely close the doors, socket caps, etc.
– When the lens or cap is removed or a door is open, do not allow sand, dust, and moisture to enter inside.
– If liquid gets on the camera, wipe it off with a dry soft cloth.

❖ Be Sure to Perform Trial Recording in Advance

Be sure to perform trial recording in advance to check that recording can be performed normally.
Please note that compensation cannot be provided in the event that recording could not be performed due to a problem with the camera or a card.

❖ Be Careful with Regard to Copyrights

Under copyright law, you may not use the images and audio you have recorded without the permission of the copyright holder.

❖ Caution with Strong Light Beams Such as Laser Light

Do not allow strong light beams, such as laser light, to be directly exposed to this camera (lens). These can destroy the image sensor and cause the camera to malfunction.

❖ The camera

Keep this unit as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).

- If you use this unit on top of or near a TV, the pictures and/or sound on this unit may be disrupted by electromagnetic wave radiation.
- Do not use this unit near cell phones because doing so may result in noise adversely affecting the pictures and/or sound.
- Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation may adversely affect this unit, disturbing the pictures and/or sound.
- If this unit is adversely affected by electromagnetic equipment and stops functioning properly, turn this unit off and remove the battery or disconnect AC adaptor. Then reinsert the battery or reconnect AC adaptor and turn this unit on.

Do not use this unit near radio transmitters or high-voltage lines.

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

❖ Wi-Fi® Function

Use of the Wi-Fi function of the camera is presumed to be in countries where it is sold.

There is the risk that the camera violates the radio wave regulations if used in countries other than those where it is sold, and Panasonic takes no responsibility for any violations.

- Please be advised that Panasonic is not liable for any damage directly or indirectly caused by use (including use in combination with the products of other companies) or malfunction of this product.
- Please be advised that Panasonic is not liable for any damage to data caused by this product.
- The external design and specifications of this product, as described in this document, may differ from the actual product due to improvements made.

Main Specifications

The specifications are subject to change for performance enhancement.

Digital camera body (DC-GH7):
Information for your safety

Power source:	9.0 V ⎓
Power consumption:	4.8 W (when recording with the monitor), 3.8 W (when playing back with the monitor) [When using the interchangeable lens (H-ES12060)]

Type	
Type	Digital Single Lens Mirrorless camera
Lens mount	Micro Four Thirds Mount
Recording media	CFexpress Type B card / SD memory card / SDHC memory card / SDXC memory card
Image sensor	
Image sensor	4/3″ BSI CMOS image sensor, a total of approx. 26,500,000 pixels, primary color filter
Effective number of pixels of the camera	Approx. 25,200,000 pixels
Viewfinder	
Type	Aspect ratio 4:3, 0.5 inches, approx. 3,680,000 dots, organic EL (OLED) live view viewfinder
Magnification	Approx. 1.6×, Approx. 0.8× (35 mm film camera equivalent), −1.0 m^{-1} 50 mm at infinity, with aspect ratio set to [4:3]
Monitor	
Type	Aspect ratio 3:2, 3.0 inches, approx. 1,840,000 dots monitor, capacitive touch screen
Interface	
USB	USB Type-C®, SuperSpeed USB 10Gbps (USB 3.2 Gen 2) Supports USB Power Delivery (9.0 V/3.0 A) Output: DC 5 V, 900 mA
HDMI	HDMI Type A
[REMOTE]	∅2.5 mm jack
[MIC]	∅3.5 mm stereo mini jack
Headphones	∅3.5 mm stereo mini jack
Flash Synchro	Yes
TC IN/OUT	Yes (connect the BNC conversion cable (supplied) to the flash synchro socket)
External dimensions / Mass (Weight)	
External dimensions	Approx. 138.4 mm (W)×100.3 mm (H)×99.6 mm (D) (5.45″ (W)×3.95″ (H)×3.92″ (D)) (excluding the projecting parts)
Mass (Weight)	Approx. 805 g/1.77 lb (camera body, with battery and one card) Approx. 721 g/1.59 lb (only camera body)
Operating environment	
Recommended operating temperature	−10 °C to 40 °C (14 °F to 104 °F)
Permissible relative humidity	10 %RH to 80 %RH
Wi-Fi	
Compliance standard	IEEE 802.11a/b/g/n/ac (standard wireless LAN protocol)
Frequency range used (central frequency)	2412 MHz to 2472 MHz (1 to 13ch) 5180 MHz to 5320 MHz (36/40/44/48/52/56/60/64ch) 5500 MHz to 5700 MHz (100/104/108/112/116/120/124/128/132/136/140ch) 5745 MHz to 5825 MHz (149/153/157/161/165ch)
Encryption method	Wi-Fi compliant WPA™ / WPA2™ / WPA3™
Access method	Infrastructure mode
Bluetooth®	
Compliance standard	Bluetooth v5.0, Bluetooth Low Energy (BLE)
Frequency range used (central frequency)	2402 MHz to 2480 MHz

Battery charger (Panasonic DVLC1005Z):
Information for your safety

Input:	9.0 V ⎓	3.0 A	5.0 V ⎓	1.8 A
Output:	8.4 V ⎓	1.2 A	8.4 V ⎓	0.85 A
Operating temperature:	0 °C to 40 °C (32 °F to 104 °F)			

Battery pack (lithium-ion) (Panasonic DMW-BLK22):
Information for your safety

Voltage/capacity:	7.2 V / 2200 mAh

The symbols on this product (including the accessories) represent the following:

⎓	DC
	Hot surfaces

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Contact Information: oss-cd-request@gg.jp.panasonic.com

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https://panasonic.net/cns/oss/index.html

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See http://www.mpegla.com