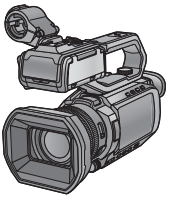
Panasonic

Operating Instructions <Quick Start Guide>

4K Video Camera

Model No.

HC-X2100/
HC-X1600/
HC-X1200



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

More detailed operating instructions are available in “Operating Instructions <Complete Guide>” (HTML format/PDF format). This can be viewed with a PC or smartphone.

https://panasonic.jp/support/video/oi/X2100/index.html

GN

DVQX2734ZA
F1224MZ0

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.
- Do not place objects filled with liquids, such as vases, on this unit.
- Use the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.

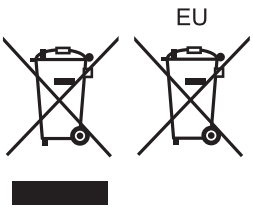
This unit is intended for use in moderate climates.

■ Concerning the battery

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

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.

Product identification marking is located on the bottom of the unit.



Disposal of Old Equipment and Batteries

Only for European Union and countries with recycle systems

These symbols are only valid in the European Union and countries with recycle systems.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Cautions for use

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 generated by microprocessors 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.

When this unit is turned on, do not use it in direct contact with the skin for a long period of time.

- When using this unit for a long period of time, use a support such as a tripod. Low temperature burns may result if any high temperature part of this unit or hot air from the ventilation openings on the front side of the hand strap of this unit is in direct contact with the skin for a long period of time.

Caution regarding the lens and the viewfinder

- Do not aim the lens or the viewfinder* at the sun or strong light. Doing so may cause the unit to malfunction.

* X2100 / X1600 is equipped with a viewfinder. X1200 is not equipped with a viewfinder.

Before using the unit

The date and time have not been set at the time of purchase. Before use, make sure you set the clock and time zone so that date and time information is correctly recorded. (➜ 22)

- When using this product during rain or snow or when at the beach, be careful that water, sand and/or dust do not get inside the camera.

- Clips recorded with devices other than this unit are not supported by this unit.
- Hold the handle or grip when carrying the camera, and handle it carefully.
- If you prepare to record important images, always shoot some advance test footage to verify that both pictures and sound are being recorded normally.
- [BATTERY]/[AC]/[NETWORK]* in [ECO MODE] is set to [ON] at the time of purchase. When there is no button operation or LCD monitor touch operation performed for a certain time, the power turns off automatically.
  The power consumption of this unit may increase if [BATTERY]/[AC]/[NETWORK]* in [ECO MODE] is set to [OFF].

* When using X1200, [NETWORK] is not displayed.

Battery

- Always remove the battery from the unit after use.

Charging lamp during charging

When the charging lamp is flashing, the following should be considered.

Flashing with approx. 4 second period (on for approx. 2 seconds, off for approx. 2 seconds):

- When the battery is over discharged or the temperature of the battery is too high or low.
  It can be charged, but it may take a few hours to complete the charging normally.
- Once normal charging starts, the charging lamp lights up green. However, depending on the conditions of use, even when normal charging is taking place, the charging lamp may keep flashing in approx. 4 second intervals until charging is completed.

Flashing with approx. 0.5 second period (on for approx. 0.25 second, off for approx. 0.25 second):

- The battery is not charged. Remove the battery from the unit, and try charging again.
- Check that the terminals of the unit or battery are not dirty or covered with a foreign object, and connect the battery correctly once again.
  If a foreign object or dirt is present, turn off the unit before removing.
- The battery or environment is at an extremely high or low temperature. Wait until the temperature has returned to an appropriate level and try charging again. If you are still unable to charge, there may be a fault in the main unit, battery or AC adaptor.

Off:

- Charging has finished.
- If the status indicator stays off despite the charging being unfinished, there may be a fault in the unit, battery or AC adaptor.
- If the operating time is very short even after the battery has been recharged, the battery has worn out. Please purchase a new battery.

LCD monitor and viewfinder

- The LCD monitor and viewfinder* are managed with high precision so that at least 99.99 % of the dots are effective pixels and 0.01 % or less are invalid pixels and always lit. This is not a malfunction and it has no effect whatsoever on the recorded images.

* X2100 / X1600 is equipped with a viewfinder. X1200 is not equipped with a viewfinder.

Memory cards

The SD cards can be used with the camera.

- Do not perform the following operations when accessing the memory card (the card 1 access lamp/card 2 access lamp is flashing in orange).
  - Removing the memory card
  - Disconnecting battery or the AC adaptor without turning off the main unit
  - Apply vibration of impact
- Keep the memory card out of reach of children to prevent swallowing.

❖ Speed Class during shooting

The memory card to use differs depending on the file format and the recording format.
Use memory cards compatible with the Speed Class or UHS Speed Class.
The recording may stop suddenly when a memory card not compatible with the required Speed Class is used.

Speed Class and UHS Speed Class are the speed specification regarding continuous writing. Check the display on the label and other information on the memory card.

File format	Supported memory cards	Recording bit rate or recording function	Speed Classes
MOV*/MP4	SDXC memory card	200 Mbps, 150 Mbps, 100 Mbps, Super slow recording	UHS Speed Class 3 
		72 Mbps or less	Speed Class 10, UHS Speed Class 1 or better 
AVCHD	SDHC/SDXC memory card	All	Speed Class 4 or better 

* Available for setting when using X2100 / X1600.

Using commercially-available products

- Use a Premium High Speed HDMI cable (Type A-Type A plug).
- Use a USB cable conforming to the USB specification that is 1.5 m or less in length.
- (For the X2100)
  It is recommended to use a double shielded BNC cable equivalent to 5C-FB.
- You can remotely control some of the camera's functions by connecting a remote control unit (commercially-available) to the <REMOTE> terminal.

About using a headphone

- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user’s ears.

Exemption of liability

Panasonic is not liable in any way regarding following.

1 Incidental, special, or consequential damages caused directly or indirectly by the unit

2 Damages, breakage of the unit, etc., caused by misuse or carelessness of the customer

3 When disassembly, repair, or modification of the unit is performed by the customer

4 Inconveniences, damnification, or damages by not being able to record and/or display the video due to any reasons including failure or malfunction of the unit and recording media

5 Inconveniences, damnification, or damages resulting from malfunction of the system combining with any third party equipment

6 A liability claim or any claim for a privacy violation by an individual or a group that was the subject of the video that the customer has shot (including recording) that became public by any reason (including using with the network user authentication turned OFF)

7 The registered information is lost due to any reason (including initializing this unit because the authentication information such as user name or password is forgotten)

❖ Be careful with regard to copyrights

Under copyright law, you may not use the images and audio you have recorded for other than personal enjoyment without the permission of the copyright holder.

How to read this document

Models described in these operating instructions

- The external design and specifications of this product, as described in this document, may differ from the actual product.
- Illustrations used in this document may differ from the actual product and the actual images displayed on the product.
- Images used in this document are sample pictures used to explain the functions and effects.
- Unless specifically stated otherwise, screen depictions and illustrations of the unit are of HC-X2100.
- Not all models may be available depending on the region of purchase.
- Model numbers are abbreviated as follows in these operating instructions:

Model number	Abbreviation used in these operating instructions	
HC-X2100	X2100	[X2100]
HC-X1600	X1600	[X1600]
HC-X1200	X1200	[X1200]

Conventions used in this manual

- Words and phrases in [ ] brackets indicate content displayed in the LCD monitor.
- Words and phrases in < > brackets indicate design text used on this unit, such as button names.

Contents

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Accessories

Check the accessories before using this unit.
Product numbers correct as of January 2025. These may be subject to change.

Battery pack
AG-VBR59
(This is referred to as battery pack or battery in this document.)

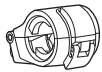
Lens hood[*1]
DVYE1263Z

■ **For the** X2100 / X1600
The following accessories are also supplied.
Eye cup
DVHG1323Z

■ **For the** X2100 / X1600
The following accessories are also supplied.
Handle unit

VW-HU1
- To purchase as a supplied accessory, use part number 1KC1VWHU1GN9K when ordering.

1AC1R25SXZ
Microphone holder



Microphone holder mounting screws[*2]
1PP1R25SXZ



- Length 12 mm (x2)

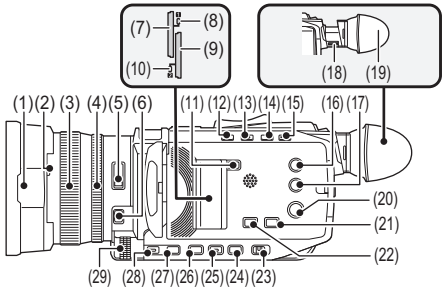
*1 Pre-attached to the main unit.
*2 The microphone holder mounting screws are supplied with the microphone holder.
- Appropriately discard the packing materials after taking the product out.
- Keep the light cover out of reach of children to prevent swallowing.[*3]
- Keep the microphone holder mounting screws out of reach of children to prevent swallowing.[*4]

*3 The light cover is fitted to the handle unit.
*4 The microphone holder mounting screws are supplied with the handle unit.

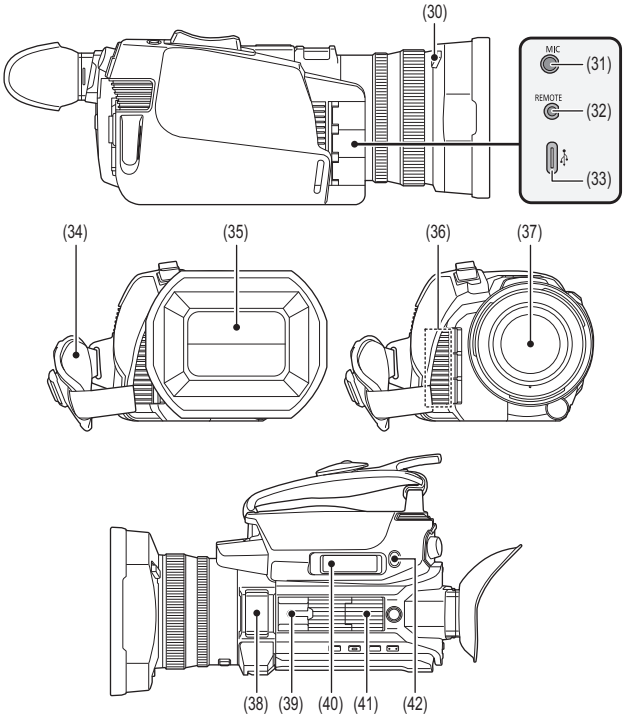
Description of parts

❖ Main unit

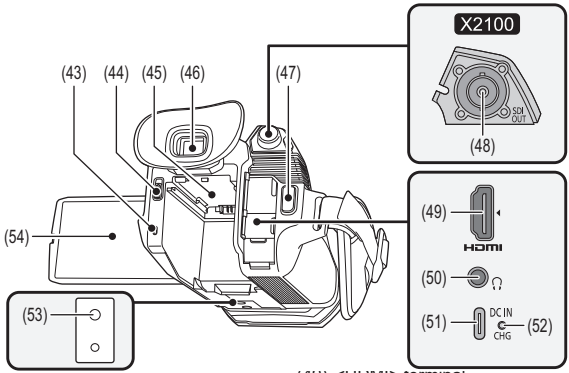
- The illustrations in this document show the handle unit (X2100 supplied, X1600 optional) removed.
- X1200 does not support the handle unit.



(1) Lens hood
(2) Lens cover switching lever
(3) Focus ring
(4) Rear ring
(5) <ND FILTER> switch
(6) <FOCUS A/M/∞> button
(7) Card slot 1
(8) Card 1 access lamp
(9) Card slot 2
(10) Card 2 access lamp
(11) <SLOT SEL> button
(12) <USER1> button
(13) <USER2> button
(14) (For the X2100 / X1600)
<O.I.S.>/<USER3> button
(For the X1200)
<FACE DET.>/<USER3> button
(15) (For the X2100 / X1600)
<VF>/<USER4> button
(For the X1200)
<LCD B. LIGHT>/<USER4> button
(16) <THUMBNAIL> button
(17) <DISP/MODE CHK> button
(18) (For the X2100 / X1600)
Diopter adjustment dial
(19) (For the X2100 / X1600)
Eye cup (➜ 15)
(20) Power button (➜ 21)
(21) <WHITE BAL> button
(22) <AE LEVEL>/<USER6> button
(23) <AUTO/MANU> switch
(24) <SHUTTER> button
(25) <GAIN> button
(26) <IRIS> button
(27) <MENU> button
(28) <EXIT> button
(29) Multidial



(30) Lens hood release button
(31) <MIC> terminal
(32) <REMOTE> terminal
(33) USB terminal
(34) Grip belt (➜14)
(35) Lens cover
(36) Fan outlet
(37) Lens
(38) Built-in microphone
(39) Accessory shoe (on the main unit)
(40) Zoom lever (on the grip)
(41) (For the X2100 / X1600)
Handle unit mounting section (➜15)
(42) <USER5> button



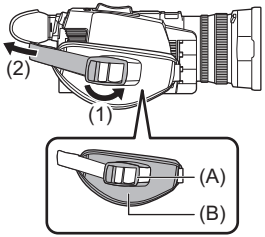
(43) Status indicator (➜ 21)
(44) Battery release lever (➜ 18)
(45) Battery mounting section (➜ 18)
(46) (For the X2100 / X1600) Viewfinder
(47) REC button (on the grip)
(48) (For the X2100) <SDI OUT> terminal
(49) <HDMI> terminal
(50) Headphones terminal
(51) DC IN terminal (➜ 19)
(52) Charging lamp (➜ 19)
(53) Tripod mounting holes
(54) LCD monitor

Attaching accessories

Adjusting the grip belt

- Adjust the grip belt so that it fits the size of your hand.
- If the buckle is difficult to tighten, move the pad backward and tighten the buckle again.

(A) Buckle
(B) Pad



1 Open the buckle section.

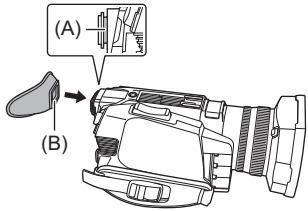
2 Pull the end of the belt.

Attaching the eye cup ([X2100]/[X1600])

1 Attach the eye cup by aligning the groove on the mounting part of the eye cup with the inner ridge of the eye cup.

The illustration at right shows an example of fitting for use with the right eye. If you rotate the eye cup to the left by 180° before attaching it, you can use it with your left eye.

(A) Groove
(B) Ridge

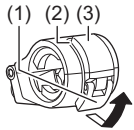


Attaching the handle unit ([X2100] supplied, [X1600] optional)

- X1200 **does not support the handle unit.**
- **Press the power button to turn off the unit. (➔21)**

1 Open the microphone holder.

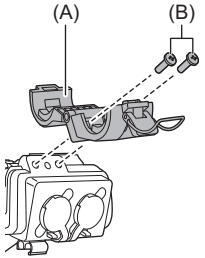
Open buckle (1), and detach fitting (2) from hook (3).



2 Attach the microphone holder to the microphone holder mounting section on the handle unit.

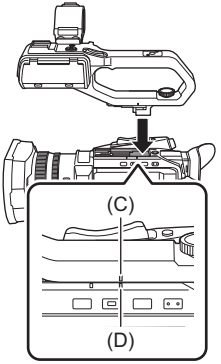
- Attach using a commercially-available screwdriver.
- There will be some rubbing noises with the rubber when screwing in the microphone holder mounting screws, but please ensure they are done up tightly.

(A) Microphone holder
(B) Microphone holder mounting screws



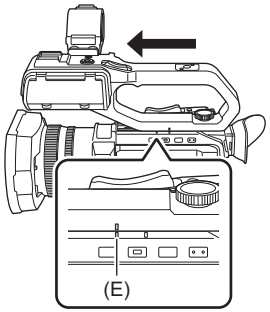
3 Push the handle unit into the handle unit mounting section on the camera.

Match the positions of mounting mark (C) on the handle unit and mounting mark (D) on the camera when pushing in.

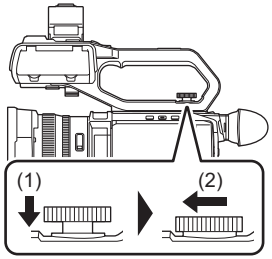


4 Slide the handle unit in the direction indicated by the arrow.

Slide up to mounting mark (E) .



5 While pressing the handle unit mounting screw down, turn it in the direction indicated by arrow (2) until it stops.



❖ How to remove

Remove by doing the steps for attaching in reverse.

Power supply

A battery or an AC adaptor (optional/commercially available) can be used as the power supply for the unit.

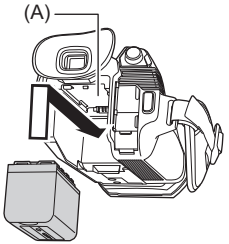
- The unit is compatible to following batteries. (As of January 2025)
  – AG-VBR59 (supplied/optional, supports quick charging)
- AG-VBR59 supports quick charging. Use a battery charger (AG-BRD50: optional) to perform quick charging.

Attaching and removing the battery

- **Press the power button to turn off the unit. (➜21)**

1 Push the battery against the battery mounting section (A) on the main unit and slide forward to attach.

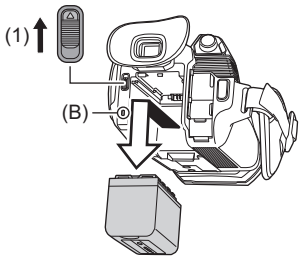
Press in the battery until it clicks and gets locked.



❖ Removing the battery

Be sure to hold down the power button until the status indicator (B) goes off. Then remove the battery while supporting the unit to prevent it from dropping.

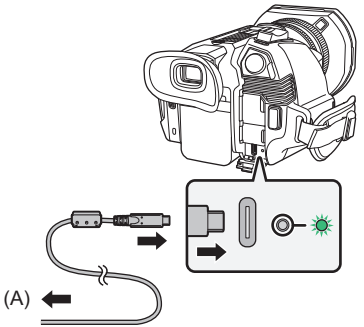
- Move the battery release lever in the direction indicated by the arrow (1) and remove the battery when unlocked.



Charging the battery

Charge using an AC adaptor (optional/commercially available) and a USB cable (commercially available).
The battery is not charged at the time of purchase. Use only after charging sufficiently.
It is recommended that you have one extra battery.

- It is recommended to perform charging of the battery in a location with ambient temperature of 10 °C to 30 °C (same for the battery temperature).
- The battery is not charged when the power is on.



(A) To the AC adaptor

1 Connect the USB cable to the AC adaptor and to the DC IN terminal of this unit.

- Insert the USB cable as far as they will go.

2 Insert the AC adaptor into an AC outlet.

- As the charging lamp lights up green, charging starts. It will turn off when the charging is completed.
- If the charging lamp flashes, refer to page 5.

❖ Connecting to the AC outlet

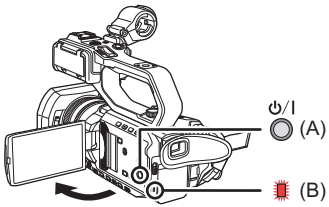
It is possible to use this unit with power supplied from the AC outlet by turning on the unit with the AC adaptor connected.
Even when you use the AC adaptor for recording images, keep the battery connected. This allows you to continue the recording even if a power failure occurs or the AC adaptor is unplugged from the AC outlet by accident.

- We recommend using an optional Panasonic AC adaptor (DMW-AC11) to supply power and charge.
- You can also charge with a battery charger (AG-BRD50: optional).
- A commercially available AC adaptor and USB cable can be used to supply power and charge this unit.
  * 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
  * For supplying power and charging, use a USB cable with an output rating of 27 W or greater.
- 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.
- We recommend using Panasonic batteries (➜ 18).
- If you use other batteries, we cannot guarantee the quality of this product.
- 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.

Turning the unit on/off

1 Open the LCD monitor and press the power button (A) to turn on the unit.

- The status indicator (B) lights on.



❖ To turn off the unit

Hold down the power button until the status indicator goes off.

When turning on the power for the first time

The time zone, date, and time are not set when the unit is shipped.
[TIME ZONE] is displayed in the LCD monitor when the power is turned on for the first time.
Follow the guidance and make the settings in the order of [TIME ZONE] and then [CLOCK SETTING].

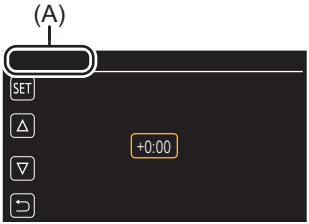
❖ [TIME ZONE]

Set the time difference from the Greenwich Mean Time.
(A) [TIME ZONE]

1 Set the time difference.

2 Select [SET].

Once the setting for [TIME ZONE] is completed, the [CLOCK SETTING] screen is displayed.



- The setting for the date/time of the main unit changes together with the time zone settings.

❖ [CLOCK SETTING]

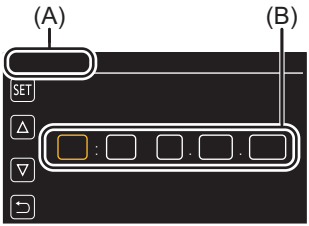
Set the year, month, date, and time.
(A) [CLOCK SETTING]
(B) 0 : 0 1. JAN. 2025

1 Set the year, month, date, and time.

The year can be set between 2024 and 2037.

2 Select [SET].

Once the setting is complete, the camera image screen is displayed.



Main specifications

Power	7.28 V ⎓ (when battery is used) 9.0 V ⎓ (when the AC adaptor is used)
Power consumption	X2100 Recording; 19.8 W, Charging; 15.5 W X1600 / X1200 Recording; 12.3 W, Charging; 15.5 W

Ambient operating temperature	0 °C to 40 °C
Ambient operating humidity	10 %RH to 80 %RH (no condensation)
Mass	X2100 Approx. 0.85 kg[*1]/Approx. 1.5 kg[*2] X1600 Approx. 0.85 kg[*1]/Approx. 1.2 kg[*2] X1200 Approx. 0.80 kg[*1]/Approx. 1.1 kg[*2] *1 Main unit only, excluding handle unit (X2100 only), lens hood, battery, and eye cup (X2100 / X1600 only) *2 Including handle unit (X2100 only), lens hood, battery and eye cup (X2100 / X1600 only)
External dimensions (W×H×D)	X2100 129 mm×159 mm×267 mm X1600 129 mm×93 mm×267 mm X1200 129 mm×93 mm×209 mm (including handle unit (X2100 only), lens hood, and eye cup (X2100 / X1600 only), excluding microphone holder (X2100 only) and protrusions)
Pickup device	1/2.5 type (1/2.5 ″) MOS solid-state image sensing device for colors Total pixels: approx. 8,570,000 pixels
Number of effective pixels	Approx. 8,290,000 pixels
Lens	Optical image stabilizer lens, motorized 24× zoom F value: F1.8 to F4.0 Focal length: f=4.12 mm to 98.9 mm 35 mm conversion: f=25.0 mm to 600.0 mm
Filter diameter	62 mm

USB terminal	USB Type-C®×1, (High-Speed USB) USB2.0 X2100 : Host/device combined (switched with menu) Host: Supports bus power (5 V, 0.5 A), USB tethering functionality, USB ethernet adaptor functionality Device: USB mass storage functionality (read only) X1600 / X1200 : USB mass storage functionality (read only)
DC IN terminal	9 V/3 A, USB Type-C®×1, compatible with USB-PD
LCD monitor	8.8 cm (3.5 ″) LCD monitor: approx. 2,760,000 dots Capacitive touch screen
X2100 / X1600 **Viewfinder**	1.0 cm (0.39 ″) OLED (organic EL display): approx. 2,360,000 dots Video display area: approx. 1,770,000 dots

Wi-Fi ([X2100]/[X1600])

Compliance standard	IEEE802.11a/b/g/n/ac (standard wireless LAN protocol)
Frequency range used (central frequency)	2412 MHz to 2462 MHz (1 to 11ch) 5180 MHz to 5320 MHz (36/40/44/48/52/56/60/64ch) 5500 MHz to 5700 MHz (100/104/108/112/116/132/136/140ch) 5745 MHz to 5825 MHz (149/153/157/161/165ch)
Encryption method	Wi-Fi compliant WPA2™ / WPA3™
Access method	Infrastructure mode

Handle unit ([X2100] supplied)

Input voltage
23.6 V/5 V/3.15 V ⎓
Power consumption
Maximum approx. 3.1 W (when connected to the camera)

Mass	Approx. 305 g (main part of the handle unit only, excluding microphone holder and microphone holder mounting screws)
External dimensions (W×H×D)	Approx. 71 mm× 89 mm× 207 mm (including protrusions, excluding microphone holder)

Battery pack (AG-VBR59)

Voltage/capacity	7.28 V ⎓ 5900 mAh 43 Wh

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

⎓	DC	|	ON	⏻	Standby

Trademark

- SDXC logo is a trademark of SD-3C, LLC.
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At least three (3) years from delivery of this product, Panasonic will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V2.0 or LGPL V2.1, as well as the respective copyright notice thereof.
Contact Information: oss-cd-request@gg.jp.panasonic.com

The source code and the copyright notice are also available for free in our website below.
https://docs.connect.panasonic.com/oss/

This product is licensed under the AVC Patent Portfolio License for the personal use of a consumer or other uses in which it does not receive remuneration to (i) encode video in compliance with the AVC Standard (“AVC Video”) and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, L.L.C.
See http://www.mpegla.com

- Separate license contract with MPEG-LA is required to record in a memory card with this product and to distribute that card to end users for a profit. The end user mentioned here indicates a person or organization that handles contents for a personal use.

For Australia

Panasonic Warranty

1. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product, without charge for parts or labour, if in the opinion of Panasonic the product is found to have a manufacturing defect within one (1) year or (12 months) (the "warranty period") from the date of purchase appearing on your purchase receipt.

2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia, it's Authorised Distributors, or Dealers, and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to the services that are carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when the warranty service is requested.

3. This warranty only applies if the product has been installed and/or used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions, or any foreign object or matter having entered the product.

4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:

   (a) Consumable parts
   (b) Cosmetic parts
   (c) Worn or damaged parts
   (d) Information stored on Hard Disk Drives, Optical Discs, USB Devices, SD Cards, Tapes
   (e) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)

5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover:

   (a) Internet and or DLNA connection / setup related problems
   (b) Access fees and or charges incurred for internet connection
   (c) Incompatible software or software not specifically stipulated in the product operations manual; and
   (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.

6. To claim warranty service, when required, you should:

   - Contact Panasonic's Customer Care Centre on 132 600 for Service Centre information.
   - Confirm the opening and acceptance times with the Authorised Service centre that you choose.
   - Then send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt.
   - Any freight and insurance costs associated with the transport of the product to and/or from your nearest Authorised Service Centre must be arranged and paid for by you.

7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the Panasonic Australia website **www.panasonic.com.au** or contact by phone on **132 600**

If phoning in, please ensure you have your operating instructions available.

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