

Owner's Manual/ Manuel d'utilisation/ Instrucciones de funcionamiento

INTERCHANGEABLE LENS FOR DIGITAL CAMERA OBJECTIF INTERCHANGEABLE POUR APPAREIL PHOTO NUMÉRIQUE ÓPTICA INTERCAMBIABLE PARA CÁMARA DIGITAL

Model No./Modèle/Modelo N.

H-ES50200

DVQX1441ZB
F0418KD1089

PP



HD

LEICA
DG VARIO-ELMARIT

POWER
O.I.S.

S.O.I.
PUISSANT



NANO
SURFACE
COATING



RÉSISTANT À LA
POUSSIÈRE ET AUX
ÉCLABOUREUSES

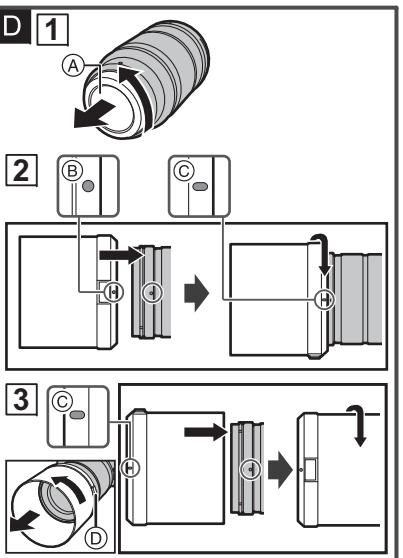
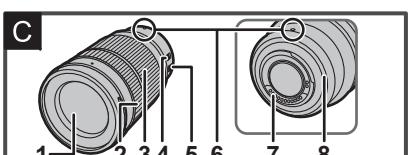
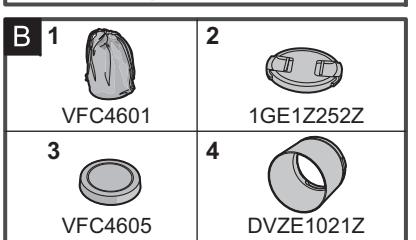
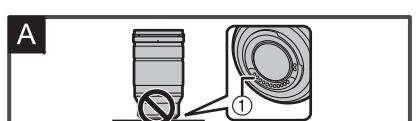
If you have any questions, visit:
USA : <http://shop.panasonic.com/support>
Canada : www.panasonic.ca/english/support

Pour toute assistance supplémentaire, visitez :
www.panasonic.ca/french/support

Register online at
<http://shop.panasonic.com/support>
(U.S. customers only/
Pour les États-Unis seulement)

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- When attaching or removing the lens, be careful so that foreign objects such as sand, dust, and water droplets do not adhere to or enter the lens mount rubber, contact points, digital camera and lens.
- If the lens is exposed to water droplets or other liquids, wipe them off with a soft, dry cloth.
- To improve the dust and splash resistant performance of the lens, a lens mount rubber is used in the mount.
- The lens mount rubber will leave scuff marks on the digital camera mount, but this does not impact performance.
- For information on changing the lens mount rubber, contact Panasonic.
- Do not press the lens with excessive force.
- When there is dirt (water, oil, and fingerprints, etc.) on the surface of the lens, the picture may be affected. Lightly wipe the surface of the lens with a soft, dry cloth before and after taking pictures.
- To prevent dust and other particles from accumulating on or entering the lens, attach the lens rear cap when the lens is not in use.
- To protect the lens contact points (①), do not place the lens with its mount surface facing down. In addition, do not allow the lens contact points to become dirty. (See illustration A)

■ About Condensation (Fogging of the Lens)

- Condensation occurs when the ambient temperature or humidity changes. Please be careful, as it may cause the lens to become dirty and lead to mold and malfunctioning.
- If condensation occurs, turn the power off and leave it for about two hours. Once the camera acclimates to the surrounding temperature the condensation will go away naturally.

B Supplied Accessories

Product numbers correct as of April 2018. These may be subject to change.

- 1 Lens Pouch
- 2 Lens Cap
- 3 Lens Rear Cap
- 4 Lens Hood

The lens cap and lens rear cap are attached to the interchangeable lens at the time of purchase.

C Names and Functions of Components

- 1 Lens surface
- 2 Focus ring
- 3 Zoom ring
- 4 [AF/MF] switch
- 5 [O.I.S.] switch
- 6 Lens fitting mark
- 7 Contact points
- 8 Lens mount rubber

Note

- If you zoom after focusing, focusing errors may occur. After zooming, please perform the focusing again.
- Operational sound may be recorded when Auto Focus is operated while recording a motion picture. If the sound bothers you, we recommend performing recording with a function such as Manual Focus (MF) to lock the focus.
- If you set the O.I.S. to [ON] when recording a motion picture, operating sounds may be recorded. If they become bothersome, we recommend setting the O.I.S. switch to [OFF] and mounting the camera on a tripod.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

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.

Responsible Party:

Panasonic Corporation of North America
Two Riverfront Plaza, Newark, NJ 07102-5490
Support Contact:
<http://shop.panasonic.com/support>

ENGLISH

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

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

FCC 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 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.

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THE FOLLOWING APPLIES ONLY IN CANADA.

CAN ICES-3(B)/NMB-3(B)

Information for Your Safety

Keep the unit as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games, radio transmitters, high-voltage lines etc.).

- Do not use the camera near cell phones because doing so may result in noise adversely affecting the pictures and sound.
- If the camera is adversely affected by electromagnetic equipment and stops functioning properly, turn the camera off and remove the battery and/or the connected AC adapter. Then reinsert the battery and/or reconnect the AC adapter and turn the camera on.

The lens can be used with a digital camera compatible with the lens mount standard for the "Micro Four Thirds™ System".

It cannot be mounted on the Four Thirds™ mount specification camera.

The appearance and specifications of products described in this manual may differ from the actual products you have purchased due to later enhancements.

Micro Four Thirds™ and Micro Four Thirds Logo marks are trademarks or registered trademarks of Olympus Corporation, in Japan, the United States, the European Union and other countries.

Four Thirds™ and Four Thirds Logo marks are trademarks or registered trademarks of Olympus Corporation, in Japan, the United States, the European Union and other countries.

G MICO SYSTEM is a lens exchange type digital camera system of LUMIX based on a Micro Four Thirds System standard.

LEICA is a registered trademark of Leica Microsystems IR GmbH. ELMARIT is a registered trademark of Leica Camera AG. The LEICA DG lenses are manufactured using measurement instruments and quality assurance systems that have been certified by Leica Camera AG based on the company's quality standards.

Other names of systems and products mentioned in these instructions are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

Precautions

■ Lens Care

- The dust and splash resistant of the lens will not prevent the entry of dust or water droplets completely. Take the following precautions to provide satisfactory dust and splash resistant performance. If the lens is not working properly, consult the dealer or Panasonic.
- Attach to a digital camera that is dust and splash resistant.

■ Removing the lens hood (See illustration 3)

Rotate the lens hood in the direction of the arrow while pushing the hood release button ① on the lens hood.

■ Transporting with the lens hood temporarily attached in the opposite direction (See illustration 3)

- 1 Align the mark ② (●) on the lens hood with the mark on the tip of the lens.
- 2 Rotate the lens hood in the direction of the arrow until it clicks and then align the mark ③ (●) on the lens hood with the mark on the tip of the lens.

Note

- When taking pictures with the flash with the lens hood attached, the lower portion of the screen may turn dark and the control of the flash may be disabled because the photo flash may be obscured by the lens hood. We recommend detaching the lens hood.

Caution for Use

Take care not to drop or knock the lens. Also take care not to put a lot of pressure on the lens.

- Take care not to drop the bag that you inserted the lens in as it may strongly shock the lens. The camera may stop operating normally and pictures may no longer be recorded. Also, the lens may be damaged.
- When carrying the digital camera with the lens attached, hold both the digital camera and the lens.

When using pesticides and other volatile substances around the camera make sure that they do not get onto the lens.

- If such substances get onto the lens they can damage the exterior case or cause the paint to peel.

Do not point the lens at the sun or other strong light sources.

- This could cause the lens to collect an excessive amount of light, resulting in fire and malfunction.

Avoid using or storing the lens in any of the following locations as this may cause problems in operation or malfunctioning:

- In direct sunlight or on a beach in summer
- In locations with high temperatures and humidity levels or where the changes in temperature and humidity are acute
- In locations with high concentrations of sand, dust or dirt
- Where there is fire
- Near heaters, air conditioners or humidifiers
- Where water may make the unit wet
- Where there is vibration
- Inside a vehicle

Refer also to the owner's manual of the digital camera.

- When the unit is not going to be used for a prolonged period, we recommend storing with a desiccant (silica gel). Failure to do so may result in performance failure caused by mold, etc. It is recommended that you check the unit's operation prior to use.

- Do not leave the lens in contact with rubber or plastic products for extended periods of time.

- Do not touch the lens contact point. Doing so can cause failure of the unit.

- Do not disassemble or alter the unit.

Do not use while directly touching the lens at low temperatures for a long period of time.

- In cold places (environments below 0 °C (32 °F), such as ski slopes), prolonged direct contact with the metal parts of the lens may cause skin injury. Use gloves or similar when using the lens for long periods.

Do not use benzene, thinner, alcohol or other similar cleaning agents to clean the lens glass or exterior cabinet.

- Using solvents can damage the lens or cause the paint to peel.
- Wipe off any dust or fingerprints with a soft, dry cloth.
- Use a dry, dust-free cloth to remove dirt and dust on the lens mount rubber, zoom ring, or focus ring.

- Do not use a household detergent or a chemically treated cloth.

Troubleshooting

- If you zoom after focusing, focusing errors may occur. After zooming, please perform the focusing again.
- Operational sound may be recorded when Auto Focus is operated while recording a motion picture. If the sound bothers you, we recommend performing recording with a function such as Manual Focus (MF) to lock the focus.
- If you set the O.I.S. to [ON] when recording a motion picture, operating sounds may be recorded. If they become bothersome, we recommend setting the O.I.S. switch to [OFF] and mounting the camera on a tripod.

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Responsible Party:

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Support Contact:
<http://shop.panasonic.com/support>

Specifications

Specifications are subject to change without notice.

INTERCHANGEABLE LENS FOR DIGITAL CAMERA

"LEICA DG VARIO-ELMARIT 50-200 mm/F2.8-4.0 ASPH./POWER O.I.S."

Focal length

f=50 mm to 200 mm (35 mm film camera equivalent:
100 mm to 400 mm)

Aperture type

9 diaphragm blades/circular aperture diaphragm

Maximum aperture

F2.8 (Wide) to F4.0 (Tele)

Minimum aperture value

F22

Lens construction

21 elements in 15 groups (2 aspherical lenses,
2 ED lenses, 2 ED lenses, 1 UHR lens)

Nano surface coating

Yes

In focus distance

0.75 m (2.46 feet) to ∞

(from the focus distance reference line)

Maximum image magnification

0.25× (35 mm film camera equivalent: 0.5×)

Optical Image Stabilizer

Available

[O.I.S.] switch

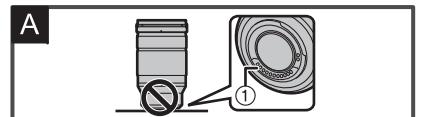
Available (Switching ON/OFF)

[AF/MF] switch

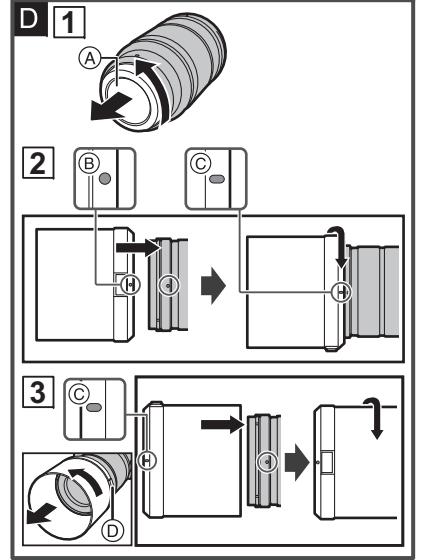
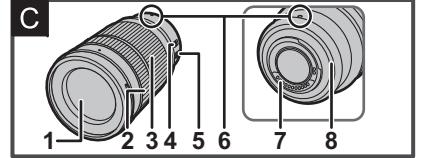
Available (Switching AF/MF)

Mount

"Micro Four Thirds Mount"</



B	1	2
	VFC4601	1GE1Z252Z
3		4
	VFC4605	DVZE1021Z



ESPAÑOL

Lea cuidadosamente estas instrucciones antes de usar este producto, y guarde este manual para usarlo en el futuro.

LO SIGUIENTE SÓLO SE APLICA EN LOS EE. UU.

Notas FCC:

Se ensayó este equipo y se comprobó que está de conformidad con los límites de un dispositivo digital de la clase B, de acuerdo con la Parte 15 de las Reglas FCC. Estos límites se han ideado para proporcionar una razonable protección contra las interferencias dañinas en una instalación residencial. Este equipo genera, utiliza y puede radar energía de frecuencia radio y, por si no se instala y se utiliza de acuerdo con las instrucciones, puede ocasionar interferencia dañina a las comunicaciones radio. Aunque no hay garantía de que no pueda tener lugar interferencia en instalaciones específicas. Si este equipo causa interferencia a la recepción de radio o televisión que pueden determinarse apagando y encendiendo el equipo, se anima al usuario intentar corregir la interferencia tomando una de las medidas a continuación:

- Vuelva a orientar o a colocar la antena receptora.
- Aumente la separación entre el equipo y el receptor.
- Conecte el equipo a una toma de un circuito diferente del que está conectado el receptor.
- Llame al concesionario o un técnico experto de radio y televisión para ayuda.

Todo cambio o modificación a este equipo sin autorizar invalidará el título del usuario para hacer funcionar este dispositivo.

Este dispositivo cumple con la Parte 15 de las Reglas FCC. El funcionamiento está sujeto a las dos condiciones a continuación: (1) Este dispositivo podría no causar interferencia dañina y (2) este dispositivo tiene que aceptar toda la interferencia recibida, incluyendo la que puede causar un funcionamiento no deseado.

Parte responsable:

Panasonic Corporation of North America
Two Riverfront Plaza, Newark, NJ 07102-5490
Contacto para atención:
<http://shop.panasonic.com/support>

LO SIGUIENTE SÓLO INTERESA A CANADÁ.

CAN ICES-3(B)/NMB-3(B)

Información para su seguridad

Mantenga la unidad lo más lejos que sea posible de equipos electromagnéticos (como hornos de microondas, televisores, video juegos, transmisores radio, líneas de alto voltaje, etc.).

- No utilice la cámara cerca de teléfonos móviles, ya que lo de hacerlo puede producir ruido que afectaría negativamente a las imágenes y el sonido.
- Si la cámara queda afectada negativamente por un equipo electromagnético y deja de funcionar correctamente, apague la cámara y quite la batería y/o el adaptador de CA conectado. Luego vuelva a insertar la batería y/o vuelva a conectar el adaptador de CA y encienda la cámara.

Nota

- El objetivo puede usarse con una cámara digital compatible con el estándar de montaje de objetivos del "Micro Four Thirds™ System".
- No se puede montar en una cámara con estándar de soporte Four Thirds™.
- El aspecto y las especificaciones de los productos descritos en este manual pueden diferir de los productos reales que usted ha comprado debido a aumentos sucesivos.
- El logotipo Micro Four Thirds™ y Micro Four Thirds son marcas comerciales o marcas comerciales registradas de Olympus Corporation, en Japón, Estados Unidos, la Unión Europea y otros países.
- El logotipo Four Thirds™ y Four Thirds son marcas comerciales o marcas comerciales registradas de Olympus Corporation, en Japón, Estados Unidos, la Unión Europea y otros países.
- G MICRO SYSTEM es un sistema de cámara digital con objetivo intercambiable de LUMIX basado en el estándar Micro Four Thirds System.
- LEICA es una marca registrada de Leica Microsystems IR GmbH. ELMARIT es una marca registrada de Leica Camera AG. Los objetivos LEICA DG se fabrican usando instrumentos de medida y sistemas de garantía de calidad certificados por Leica Camera AG en base a los estándares de calidad de la compañía.
- Los nombres de los sistemas y productos que se mencionan en estas instrucciones generalmente son marcas comerciales registradas o marcas comerciales de los fabricantes que desarrollaron el sistema o producto en cuestión.

D Unir y quitar el objetivo

Para obtener información sobre cómo colocar o retirar la lente, consulte las instrucciones de funcionamiento de su cámara digital.

- Antes de colocar o quitar la lente, compruebe que la cámara digital esté apagada.
- Antes de colocar la lente en la cámara digital, quite la tapa trasera de la lente (①) girándola en el sentido de la flecha. (Ver ilustración ①)
- Para evitar que se introduzcan o acumulen polvo y otras partículas en la lente, no olvide instalar la tapa de la lente/la tapa trasera de la lente una vez que la haya retirado de la cámara digital.

■ Unión de los filtros

- Si utiliza dos o más filtros a la vez, puede oscurecerse parte de una imagen grabada.
- No se puede colocar la tapa de la lente o la visera de la lente con el filtro ya puesto.
- No es posible colocar una lente de conversión o un adaptador en la superficie de la lente y usarlo en combinación con la lente. No coloque ningún otro elemento que no sea un filtro. Hacerlo podría dañar la lente.

■ Colocar un tele convertidor

- Se puede colocar un tele convertidor (DMW-TC14/DMW-TC20) en esta lente. (A partir de abril de 2018)
- Consulte nuestro sitio web para la información más actualizada sobre tele convertidores compatibles.
- No coloque nada que no sea un tele convertidor compatible. Hacerlo podría dañar o afectar negativamente el desempeño de la lente o el tele convertidor.

■ Unión de la visera del objetivo (Accesorio suministrado) (Ver ilustración ②)

- Alinee la marca ② (●) en la visera del objetivo con la marca en el extremo de la lente.
- Gire la visera del objetivo en la dirección de la flecha hasta que haga clic y después alinee la marca ③ (●) en la visera del objetivo con la marca en el extremo de la lente.

■ Cómo retirar la visera del objetivo

- (Ver ilustración ③)
- Gire la visera del objetivo en el sentido de la flecha mientras presiona el botón de liberación de la visera ④ en la visera del objetivo.
 - Para obtener información sobre cómo cambiar la goma de montaje de la lente, póngase en contacto con Panasonic.

■ Cómo retirar la visera del objetivo (Accesorio suministrado) (Ver ilustración ②)

- Alinee la marca ② (●) en la visera del objetivo con la marca en el extremo de la lente.
- Gire la visera del objetivo en la dirección de la flecha hasta que se encaje en su posición.

■ Acerca de la condensación (Empañamiento del objetivo)

- La condensación ocurre cuando la temperatura ambiente o la humedad cambia. Tenga cuidado con la condensación, ya que puede hacer que la lente se ensucie, aparezcan hongos y se produzca un mal funcionamiento.
- Si ocurre condensación, apague la alimentación y la deje así durante dos horas. Una vez de que la cámara se haya aclimatado a la temperatura ambiente en empañamiento desaparece naturalmente.

• El objetivo puede usarse con una cámara digital compatible con el estándar de montaje de objetivos del "Micro Four Thirds™ System".

• No se puede montar en una cámara con estándar de soporte Four Thirds™.

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No utilice gasolina, diluyente, alcohol u otros agentes de limpieza parecidos para limpiar la unidad.

- El hecho de usar disolventes puede dañar el objetivo y hacer descolorir su barniz.
- Quite cualquier indicio de polvo o huellas dactilares con un paño blando y seco.
- Use un paño seco para sacar la suciedad y el polvo de la goma de montaje de la lente, el anillo de zoom y el anillo de enfoque.
- No use detergentes para cocina o un paño tratado químicamente.

Búsqueda de averías

Cuando enciendo o apago la cámara o cuando muevo el objetivo, escucho un ruido, por ejemplo, un sonido vibratorio.

Se escucha un sonido desde la lente al tomar laImagen de un sujeto brillante como en exteriores.

- Este es el sonido del objetivo o el movimiento de abertura y no es un funcionamiento defectuoso.

Especificaciones

Las especificaciones están sujetas a cambio sin previo aviso.

ÓPTICA INTERCAMBIABLE PARA CÁMARA DIGITAL "LEICA DG VARIO-ELMARIT 50-200 mm/F2.8-4.0 ASPH./POWER O.I.S."

Longitud focal

f=50 mm a 200 mm (Igual a una cámara de película de 35 mm: de 100 mm a 400 mm)

Tipo de abertura

9 aspas de diafragma/Diafragma de apertura circular

Apertura máxima

F2.8 (Granangular) a F4.0 (Teleobjetivo)

Valor de abertura mínimo

F22

Estructura del objetivo

21 elementos en 15 grupos (2 lentes asféricas, 2 lentes UED, 2 lentes ED, 1 lente UHR)

Revestimiento de superficie Nano

Si

En la distancia del enfoque

0.75 m (2.46 pies) a ∞ (desde la línea de referencia de la distancia de enfoque)

Maxima ampliación de la imagen

0.25x (Igual a una cámara de película de 35 mm: 0.5x)

Estabilizador óptico de la imagen

Disponible

Interruptor [O.I.S.]

Disponible (ENCENDER/APAGAR)

Interruptor [AF/MF]

Disponible (Cambio AF/MF)

Soporte

"Micro Four Thirds Mount"

Ángulo visual

24° (Granangular) a 6.2° (Teleobjetivo)

Diámetro del filtro

67 mm

Diámetro máx.

076 mm (3.0 pulgadas)

Longitud total

Aprox. 132 mm (5.2 pulgadas) (desde la punta del objetivo hasta la base lateral de la montura del objetivo)

Peso

Aprox. 655 g (1.444 lb)

Temperatura de funcionamiento

-10 °C a 40 °C (14 °F a 104 °F)

Resistencia al polvo y a las salpicaduras

Si

When shipping the unit, carefully pack, include all supplied accessories listed in the Owner's Manual, and send it prepaid, adequately insured and packed well in a carton box. When shipping Lithium Ion batteries please visit our Web Site at <http://shop.panasonic.com/support> as Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

When shipping the unit, carefully pack, include all supplied accessories listed in the Owner's Manual, and send it prepaid, adequately insured and packed well in a carton box. When shipping Lithium Ion batteries please visit our Web Site at <http://shop.panasonic.com/support> as Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

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