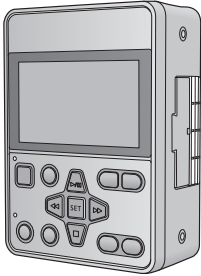


Basic Operating Instructions



Memory Card Portable Recorder

Model No. **AG-MDR25P**
AG-MDR25E

POV CAM

ENGLISH	Before using this product, be sure to read "Information for Your Safety" (pages 3 to 9). More detailed operating instructions are available in "Operating Instructions (PDF format)". To read it, download it from the website. http://pro-av.panasonic.net/en/manual/index.html
DEUTSCH	Bitte lesen Sie sorgfältig die "Sicherheitshinweise" vor der Nutzung dieses Produkts. (Seiten 10 bis 14). Detailliertere Bedienungsanweisungen finden Sie in der "Bedienungsanleitung (PDF-Format)". Um sie zu lesen, laden Sie diese von der Website herunter. http://pro-av.panasonic.net/en/manual/index.html
FRANÇAIS	Avant d'utiliser cet appareil, assurez-vous de lire la section "Précautions à prendre" (pages 15 à 20). Un mode d'emploi plus détaillé est présent dans "Mode d'emploi (format PDF)". Pour le consulter, téléchargez-le depuis le site web. http://pro-av.panasonic.net/en/manual/index.html
ITALIANO	Prima di utilizzare il prodotto, assicurarsi di leggere "Informazioni riguardanti la vostra sicurezza" (pagine 21 a 25). Istruzioni per l'uso più dettagliate sono disponibili in "Istruzioni per l'uso (formato PDF)". Per leggerlo, scaricarlo dal sito web. http://pro-av.panasonic.net/en/manual/index.html
ESPAÑOL	Antes de usar este producto, asegúrese de leer "Información para su seguridad" (páginas 26 a 31). Se pueden encontrar instrucciones de funcionamiento más detalladas en "Instrucciones de funcionamiento (formato PDF)". Para leerlo, descárguelo de la página web. http://pro-av.panasonic.net/en/manual/index.html

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

AVCHD™
Progressive

HDMI



DOLBY AUDIO™

PJ EJ

F0417SQ0
Printed in Japan

ENGLISH

DVQX1265ZA

Български	Посетете следния уебсайт относно информация за безопасността и важни уведомления за продукта.
Hrvatski	Za sigurnosne informacije i važne obavijesti o proizvodu posjetite sljedeću internetsku stranicu.
Čeština	Na následujícím webu najdete bezpečnostní informace a důležité poznámky k tomuto produktu.
Dansk	Besøg følgende webside for sikkerhedsinformation og vigtige bemærkninger vedrørende produktet.
Nederlands	Ga naar de volgende website voor veiligheidsinformatie en belangrijke meldingen over het product.
Eesti	Toodet puudutava ohutusteabe ja oluliste märkuste saamiseks külastage järgmist veebilehte.
Suomi	Käy seuraavalla verkkosivulla saadaksesi turvallisuustietoja ja tärkeitä tietoja liittyen laitteeseen.
Ελληνικά	Για πληροφορίες σχετικά με θέματα ασφάλειας και σημαντικές ειδοποιήσεις που αφορούν το προϊόν σας, επισκεφτείτε τον ιστότοπο που ακολουθεί.
Magyar	A termékkel kapcsolatos biztonsági információkért és fontos értesítésekért látogasson el az alábbi weboldalra.
Latviešu	Lai iegūtu informāciju par drošību un skatītu svarīgus paziņojumus par šo produktu, apmeklējiet tālāk norādīto tīmekļa vietni.
Lietuvių	Jei reikia saugos informacijos ir svarbių pranešimų apie gaminį, apsilankykite toliau nurodytoje svetainėje.
Polski	Informacje o bezpieczeństwie i ważne informacje o produkcie znajdują się w poniższej witrynie internetowej.
Português	Consulte o seguinte website para as informações de segurança e importantes notificações sobre o produto.
Română	Vizitați următoarea pagină web pentru informații de securitate și notificări importante cu privire la produs.
Slovensky	Pre bezpečnostné informácie a dôležité oznámenia súvisiace s produktom navštívte túto webovú stránku.
Slovenščina	Za varnostne informacije in pomembna obvestila v zvezi z izdelkom obiščite naslednje spletno mesto.
Svenska	Besök följande webbplats för säkerhetsinformation och viktiga meddelanden om produkten.

<http://pro-av.panasonic.net/en/manual/index.html>

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 only the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.

CAUTION!

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

- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
- Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
- Do not place sources of naked flames, such as lighted candles, on this unit.

CAUTION:

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.

CAUTION:

Do not leave the unit in direct contact with the skin when in use.

- Low temperature burns may result if the skin is left in direct contact with the high temperature parts of the unit or heated air from the ventilation openings of the unit.

CAUTION:

About using SD Card

- Keep the Memory Card out of reach of children to prevent swallowing.

 indicates safety information.

■ Product identification marking

Product	Location
Memory Card Portable Recorder	Bottom
AC adaptor	Bottom

This unit is intended for use in moderate and tropical climates. (Southeast Asia, Middle East only)

This unit is intended for use in moderate climates. (Except Southeast Asia, Middle East)

<For the U.S.A. and Canada only>

AC adaptor

This AC adaptor operates on AC between 100 V and 240 V.

But

- In the U.S.A. and Canada, the AC adaptor must be connected to a 120 V AC power supply only.
- When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration.
- When connecting to a supply of greater than AC 125 V, ensure the cord you use is suited to the voltage of the AC supply and the rated current of the AC adaptor.
- Contact an electrical parts distributor for assistance in selecting a suitable AC plug adaptor or AC cord set.

The power plug is the disconnecting device. Install this unit so that the power plug can be unplugged from the socket outlet immediately.

- The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.
- Do not use any other AC adaptors except the supplied one.

<For other countries or regions>

The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

<For the U.S.A. and Canada only>

Conforms to UL STD 60065.

Certified to CAN/CSA STD C22.2 No.60065.

<For Europe only>

■ EMC Electric and magnetic compatibility

This symbol (CE) is located on the rating plate.

■ Concerning the battery

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.

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60 °C (140 °F) or incinerate.

- We recommend using Panasonic batteries (VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118).
- 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.

Battery pack (Lithium ion battery pack)

- Use the specified unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified unit.
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes. Rinse eyes thoroughly with water, and then consult a doctor.

■ IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



FCC NOTICE (USA)

Declaration of Conformity

Model Number: AG-MDR25P
Trade Name: Panasonic
Responsible Party: Panasonic Corporation of North America
Two Riverfront Plaza Newark NJ07102
Support contact: 1-800-524-1448

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.

To assure continued compliance, follow the attached installation instructions and do not make any unauthorized modifications.

CAUTION:

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.


The user may find the booklet "Something About Interference" available from FCC local regional offices helpful.

FCC Warning:

To assure continued FCC emission limit compliance, follow the attached installation instructions and the user must use only shielded interface cables when connecting to host computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

NOTIFICATION (Canada)

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

 indicates safety information.

<For U.S.A. only>



NOTICE FOR MEDICAL USE

- This is an apparatus intended for recording playing-back of image from specified camera classified as;
 - Protection against Electric Shock Class II
 - Protection against Ingress of Water IPX0
 - Mode of Operation Continuous
 - Not suitable for use in the presence of a Flammable Anaesthetic mixture with Air or with Oxygen or Nitrous Oxide.
- Equipment connected to signal input and/or output parts must be certified according to the appropriate IEC 60601-1 and/or IEC 60601-1 harmonized national standard. Furthermore all configurations shall comply with standard IEC 60601-1 ME system. Everybody who connects additional equipment to the signal input part, or signal output part configures a medical system, and is therefore responsible that the system complies with the requirements of the standard IEC 60601-1. If in doubt, consult the technical service department or your local representative.


Leakage current of this unit may be exceeded the allowable value when conductively connected to other equipment. To avoid increment of the leakage current, separation device shall be applied.
- Use with the Compact Camera Head (AG-MDC20G: Optional).
- Do not use the Compact Camera Head in handheld style.
- Operator: To reduce the risk of electric shock, do not touch the patients during operating the equipment.

■ TRANSPORT AND STORAGE CONDITION

AMBIENT TEMPERATURE	-10°C to 60°C
RELATIVE HUMIDITY	30% to 80%
ATMOSPHERIC PRESSURE	500 hPa to 1060 hPa

Operating precaution

Operating near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals.
If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

 indicates safety information.

For the AC mains plug of three pins

■ Caution for AC mains lead

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

Before use

Remove the connector cover.

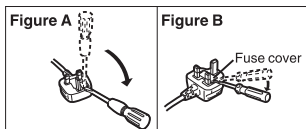
How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B).

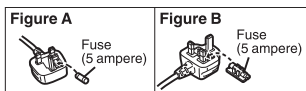
Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



<For USA only>

Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: <http://www.panasonic.com/environmental> or call 1-888-769-0149.

<For Europe only>

■ Disposal of Old Equipment and Batteries

Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them

to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality, dealer or supplier.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



Note for the battery symbol (bottom symbol):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

<For India only>
AC adaptor information

IS 616/IEC 60065

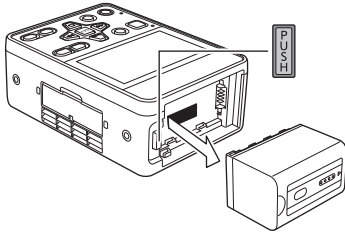


R-41016268

To remove the battery

Main Power Battery (Lithium ion Battery)

While pressing the battery release button, remove the battery.



Back-up Battery (Lithium Battery)

- For the removal of the battery for disposal at the end of its service life, please consult your dealer.

AEEE Yönetmeliğine Uygundur.
AEEE Complies with Directive of Turkey.

Note regarding the Power Management function specified under COMMISSION REGULATION (EC) No 1275/2008 implementing Directive 2009/125/EC of the European Parliament and of the Council.

This device is designed and manufactured for use at a broadcasting station and/or in a similar environment. This device is not equipped with a Power Management function or the Power Management function is set to OFF as it will prevent the device from fulfilling its intended purpose for the reasons below.

1. If the device is a Studio Camera, a Weather Camera, a Mixer or other processor:
A Power Management function may cause the device to suddenly stop during recording or while On Air.
2. If the device is a Studio Monitor:
A Power Management function may cause video for the confirmation of whether a signal is normal, or whether the signal has been lost, to be un-viewable.
3. If the device is a Camera Recorder:
A professional camera recorder must be able to start quickly at any time, but a Power Management function will cause an increase in the time taken to resume from Stand-by mode.

Sicherheitshinweise

WARNUNG:

- Um die Gefahr eines Brandes, eines Stromschlages oder einer Beschädigung des Produktes zu reduzieren,
- Setzen Sie dieses Gerät weder Regen, noch Feuchtigkeit, Tropfen oder Spritzern aus.
 - Stellen Sie keine mit Flüssigkeiten gefüllten Gefäße, wie Vasen, auf dieses Gerät.
 - Verwenden Sie nur das empfohlene Zubehör.
 - Entfernen Sie die Abdeckungen nicht.
 - Reparieren Sie das Gerät nicht selbst. Wenden Sie sich zu diesem Zweck an qualifiziertes Kundendienstpersonal.

ACHTUNG!

- Um die Gefahr eines Brandes, eines Stromschlages oder einer Beschädigung des Produktes zu reduzieren,
- Installieren oder positionieren Sie dieses Gerät nicht in einem Bücherregal, Einbauschränk oder einem sonstigen engen Raum. Stellen Sie eine gute Belüftung des Gerätes sicher.
 - Achten Sie darauf, die Entlüftungsschlitze des Gerätes nicht durch Gegenstände aus Papier oder Stoff zu blockieren, z.B. Zeitungen, Tischdecken und Vorhänge.
 - Stellen Sie keine Quellen offener Flammen, z.B. brennende Kerzen, auf das Gerät.

ACHTUNG:**Gebrauch eines Kopfhörers**

- Übertriebene Lautstärke von Kopfhörern oder Headsets kann zu schweren Hörschäden führen.
- Das Hören bei voller Lautstärke kann auf lange Sicht das Gehör des Anwenders schädigen.

ACHTUNG:**Vermeiden Sie direkten Hautkontakt mit dem Gerät, wenn Sie das Gerät verwenden.**

- Es besteht ein Verbrennungsrisiko, wenn die Haut über einen längeren Zeitraum mit einem Hochtemperaturbereich oder der erwärmten Luft aus den Entlüftungsschlitzen des Geräts Kontakt hat.

ACHTUNG:**Informationen zur Verwendung der SD-Karte**

- Bewahren Sie die Speicherkarte außerhalb der Reichweite von Kindern auf, damit diese die Karte nicht verschlucken können.

 ist die Sicherheitsinformation.

- Bei angeschlossenem Netzteil befindet sich das Gerät im Standby-Zustand. Der Hauptstromkreis steht immer unter Spannung, solange das Netzteil an eine Steckdose angeschlossen ist.
- Verwenden Sie nur die mitgelieferten Netzadapter.

■ Kennzeichnung für Produkterkennung

Produkt	Stellung
Tragbarer Speicherkarten-Rekorder	Unterseite
Netzadapter	Unterseite

Dieses Gerät ist für den Betrieb in Regionen mit gemäßigttem und tropischem Klima bestimmt. (Nur Südostasien und Nahost)

Dieses Gerät ist für den Betrieb in Ländern mit gemäßigttem Klima bestimmt. (Außer Südostasien und Nahost)

Der Netzstecker ist die Vorrichtung zum Trennen des Gerätes. Installieren Sie dieses Gerät so, dass der Netzstecker sofort aus der Steckdose gezogen werden kann.

■ EMV – Elektromagnetische Verträglichkeit

Das CE-Zeichen befindet sich auf dem Typenschild.

■ Zum Thema des Akkus

ACHTUNG

- Explosionsgefahr bei falschem Anbringen der Batterie. Ersetzen Sie die Batterie nur durch den vom Hersteller empfohlenen Typ.
- Wenden Sie sich zur Entsorgung der Batterien an die lokalen Behörden oder erfragen Sie die richtige Vorgehensweise zur Entsorgung.

Warnung

Brand-, Explosions- und Verbrennungsgefahr. Nicht zerlegen, auf über 60 °C erhitzen oder verbrennen.

- Wir empfehlen, Panasonic-Akkus zu benutzen (VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118).
- Bei Einsatz anderer Akkus übernehmen wir keine Gewähr für die Qualität dieses Produkts.
- Setzen Sie den Akku weder Hitze noch offenem Feuer aus.
- Lassen Sie Akkus nie für längere Zeit bei direkter Sonneneinstrahlung in einem geschlossenen Auto liegen.

HINWEISE FÜR DEN GEBRAUCH IM MEDIZINISCHEN BEREICH

- Dieses Gerät dient der Wiedergabe von Bildern, die mit einer folgendermaßen spezifizierten Kamera aufgezeichnet wurden:
 - Schutz vor elektrischem Schlag Klasse II
 - Schutz vor eindringendem Wasser IPX0
 - Betriebsmodus Dauerbetrieb
- Nicht geeignet zum Gebrauch im Umfeld entflammbarer Anästhesie-Gemische mit Luft oder Sauerstoff oder Stickstoffoxid.
- Geräte, die an Signaleingänge oder Signalausgänge angeschlossen werden, müssen den harmonisierten Normen IEC 60601-1 und/oder IEC 60601-1 entsprechen. Außerdem müssen alle Konfigurationen dem IEC 60601-1 ME-Systemstandard entsprechen. Werden zusätzliche Geräte an den Signaleingangs- oder Signalausgangsbereich angeschlossen, so stellt dies ein medizinisches System dar, das dem IEC 60601-1-Standard entsprechen muss. Lassen Sie sich im Zweifelsfall von der Technik-Serviceabteilung oder Ihrem örtlichen Repräsentanten beraten.

Der Kriechstrom dieses Geräts überschreitet möglicherweise den zulässigen Wert, wenn später weitere Geräte angeschlossen werden. Um die Erhöhung des Kriechstroms zu vermeiden, muss ein Trenngerät eingebaut werden.
- Verwenden Sie das Gerät zusammen mit dem kompakten Kamerakopf (AG-MDC20G: Optional).
- Benutzen Sie den kompakten Kamerakopf nicht wie ein Handgerät.
- Bedienungsperson: Um das Risiko eines elektrischen Schlags zu vermeiden, berühren Sie die Patienten während des Gerätebetriebs nicht.

■ TRANSPORT- UND LAGERBEDINGUNGEN

UMGEBUNGSTEMPERATUR

-10°C bis 60°C

RELATIVE LUFTFEUCHTIGKEIT

30% bis 80%

LUFTDRUCK

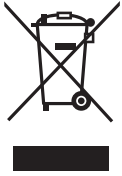
500 hPa bis 1060 hPa

Vorsichtshinweise zum Betrieb

Beim Betrieb in der Nähe von Geräten, die starke elektromagnetische Felder erzeugen, kann ein verstärktes Rauschen bei Video- und Audiosignalen auftreten. Entfernen Sie in diesem Fall vor dem Betrieb des Gerätes beispielsweise die Quelle des elektromagnetischen Feldes aus der Umgebung des Gerätes.

 ist die Sicherheitsinformation.

■ Entsorgung von Altgeräten und Batterien
Nur für die Europäische Union und Länder mit Recyclingsystemen



Dieses Symbol, auf den Produkten, der Verpackung und/oder den Begleiddokumenten, bedeutet, dass gebrauchte elektrische und elektronische Produkte sowie Batterien nicht in den allgemeinen Hausmüll gegeben werden dürfen.

Bitte führen Sie alte Produkte und verbrauchte Batterien zur Behandlung, Aufarbeitung bzw. zum Recycling gemäß den gesetzlichen Bestimmungen den zuständigen Sammelpunkten zu.

Indem Sie diese Produkte und Batterien ordnungsgemäß entsorgen, helfen Sie dabei, wertvolle Ressourcen zu schützen und eventuelle negative Auswirkungen auf die menschliche Gesundheit und die Umwelt zu vermeiden. Für mehr Informationen zu Sammlung und Recycling, wenden Sie sich bitte an Ihren örtlichen Abfallentsorgungsdienstleister, Händler oder Zulieferer.

Gemäß Landesvorschriften können wegen nicht ordnungsgemäßer Entsorgung dieses Abfalls Strafgerichte verhängt werden.



Hinweis für das Batteriesymbol (Symbol unten):

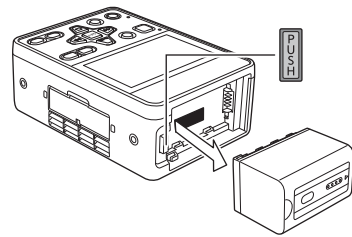
Dieses Symbol kann in Kombination mit einem chemischen Symbol abgebildet sein. In diesem Fall erfolgt dieses auf Grund der Anforderungen

derjenigen Richtlinien, die für die betreffende Chemikalie erlassen wurden.

Entfernen des Akkus und der Knopfzelle

Hauptspannungsversorgungsakku (Lithium-Ionen-Batterie)

Entfernen Sie den Akku, während Sie auf den Akku-Freigabehebel drücken.



Reservebatterie (Lithium-Batterie)

- Wenden Sie sich zur Entfernung erschöpfter Batterien an Ihren Händler.

Hinweis zur Energiesparfunktion, spezifiziert unter VERORDNUNG (EG) Nr. 1275/2008 DER KOMMISSION zur Implementierung der Verordnung 2009/125/EC des Europäischen Parlaments und des Rats

Dieses Gerät ist für die Verwendung bei einem Radiosender oder in ähnlicher Umgebung ausgelegt. Dieses Gerät ist nicht mit einer Energiesparfunktion ausgestattet, oder die Energiesparfunktion weist die Einstellung "AUS" auf, da anderenfalls die Zwecke des Geräts aus nachfolgend genannten Gründen nicht erfüllt werden können.

1. Wenn es sich beim Gerät um eine Studiokamera, eine Wetterkamera, einen Mischer oder anderen Prozessor handelt:
 Durch eine Energiesparfunktion kann es während Übertragungen zu Unterbrechungen der Aufnahme kommen.
2. Wenn es sich beim Gerät um einen Studiomonitor handelt:
 Durch eine Energiesparfunktion können Videosignale zur Bestätigung von vorhandenen/normalen Signalen unbrauchbar werden.
3. Wenn es sich beim Gerät um einen Camcorder handelt:
 Professionelle Camcorder müssen jederzeit sofort einsatzfähig sein. Durch eine Energiesparfunktion wird jedoch das Fortsetzen von Aufnahmen aus dem Standby-Modus heraus verlängert.

■ Sicherheits- und Anwendungshinweise

Halten Sie dieses Gerät möglichst weit von elektromagnetischen Geräten (wie z.B. Mikrowellenherde, Fernseher, Videospiele usw.) entfernt.

- Wenn Sie dieses Gerät auf einem Fernseher oder in seiner Nähe verwenden, könnten die Bilder und/oder der Ton an diesem Gerät von der Abstrahlung der elektromagnetischen Wellen gestört werden.
- Verwenden Sie dieses Gerät nicht in Nähe von Mobiltelefonen, da dadurch ein nachteiliges Geräusch entstehen könnte, das die Bilder und/oder den Ton betrifft.
- Durch die starken Magnetfelder, die durch Lautsprecher oder starke Motoren erzeugt werden, kann es zu einer Beschädigung der Aufnahmen oder zu Bildstörungen kommen.
- Die von Mikroprozessoren generierte Abstrahlung der elektromagnetischen Wellen könnte dieses Gerät nachteilig betreffen und die Bilder und/oder den Ton stören.
- Wenn dieses Gerät nachteilig von einer elektromagnetischen Ausstattung betroffen ist und den korrekten Betrieb einstellt, schalten Sie dieses Gerät aus und nehmen Sie den Akku heraus bzw. trennen Sie den Stromadapter ab. Legen Sie dann den Akku erneut ein bzw. schließen Sie den Stromadapter wieder an und schalten Sie dieses Gerät ein.

Verwenden Sie dieses Gerät nicht in Nähe von Funkgeräten oder Hochspannungsleitungen.

- Wenn Sie in Nähe von Funkgeräten oder Hochspannungsleitungen aufnehmen, könnten die aufgenommenen Bilder und/oder der Ton nachteilig betroffen sein.

Informationen zum Anschließen an einen PC

- Verwenden Sie ein handelsübliches Kabel nach USB 2.0-Standard. Schließen Sie einen miniB-Anschluss an dieses Gerät an.

Beim Anschließen des speziellen Kamerakopfs (AG-MDC20G)

- Verwenden Sie für den Kamerakopf stets ein Originalkabel von Panasonic (AG-C20003G (3 m), AG-C20020G (20 m): Sonderzubehör).

Beim Verbinden mit einem Netzwerk

- LAN-Kabel (Kategorie 5 oder höher), max. 100 Meter
- * Es wird empfohlen, ein STP-Kabel (Shielded Twisted Pair) zu verwenden.

Beim Anschließen eines SDI-Eingabe-/Ausgabegeräts

- Verwenden Sie zur Verbindung mit dem SDI IN- oder SDI OUT-Anschluss ein doppelt geschirmtes BNC-Kabel nach 5C-FB-Standard (im Handel erhältlich).

Hinweis zum Wiedergeben von Videos/Fotos auf einem externen Monitor

- Verwenden Sie ein im Handel erhältliches High-Speed-HDMI-Kabel. Es wird empfohlen, ein Kabel von maximal 3 m Länge zu verwenden.

Verwenden Sie dieses Gerät in mindestens 30 cm Abstand von Wänden.

Die Symbole an diesem Produkt (einschließlich Zubehör) haben die folgenden Bedeutungen:

~	Wechselstrom
===	Gleichstrom
□	Gerät der Klasse II (das Produkt wurde mit doppelter Isolierung konstruiert.)
	EIN
⦿	Standby

Hergestellt von: Panasonic Corporation, Osaka, Japan
Name und Adresse des Importeurs gemäß EU-Bestimmungen:
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Deutschland

Précautions à prendre

AVERTISSEMENT:

Afin de réduire les risques d'incendie, de chocs électriques ou d'endommagement du produit,

- N'exposez pas cet appareil à la pluie, l'humidité, l'égouttement ou les éclaboussures.
- Ne placez pas d'objets remplis d'eau, comme des vases, sur cet appareil.
- Utiliser uniquement les accessoires recommandés.
- Ne retirez pas les caches.
- Ne réparez pas vous-même l'appareil. Adressez-vous à un personnel qualifié.

ATTENTION!

Afin de réduire les risques d'incendie, de chocs électriques ou d'endommagement du produit,

- N'installez pas et ne placez pas cet appareil dans une bibliothèque, un placard ou un autre endroit confiné. Assurez-vous que l'appareil est bien ventilé.
- Ne bouchez pas les ouvertures de ventilation de l'appareil avec des journaux, des serviettes, des rideaux, et d'autres éléments similaires.
- Ne placez pas de source de flamme nue, comme une bougie allumée, sur cet appareil.

ATTENTION:

A propos de l'utilisation d'un casque

- Une pression excessive du son provenant des écouteurs et hautparleurs peut entraîner une perte de l'ouïe.
- A pleine puissance, l'écoute prolongée du baladeur peut endommager l'oreille de l'utilisateur.

ATTENTION:


Ne mettez pas cet appareil en contact direct avec la peau lorsqu'il est en cours d'utilisation.

- Cela pourrait causer de légères brûlures si la peau est en contact direct avec les parties à température élevée de l'appareil ou avec l'air chaud provenant des ouvertures de ventilation de l'appareil.

ATTENTION:

À propos de l'utilisation d'une carte SD

- Conservez la carte mémoire hors de portée des enfants afin qu'ils ne puissent pas l'avaler.

 Informations concernant la sécurité.

■ Plaque signalétique

Produit	Positionnement
Enregistreur portable de carte mémoire	En-dessous
Adaptateur secteur	En-dessous

Cet appareil est conçu pour être utilisé sous un climat tempéré et tropical. (Asie du Sud-Est, Moyen-Orient uniquement)

Cet appareil est conçu pour être utilisé sous un climat tempéré. (Sauf Asie du Sud-Est, Moyen-Orient)

<Pour les É.-U. et le Canada uniquement>

Adaptateur secteur

Cet adaptateur secteur fonctionne sur le courant alternatif entre 100 V et 240 V.

Par contre,

- Aux États-Unis et au Canada, l'adaptateur secteur doit uniquement être connecté à une prise électrique de 120 V.
- Lors du raccordement de l'adaptateur secteur dans une prise de courant à l'extérieur du Canada ou des États-Unis, utilisez un adaptateur de prise conçu pour la prise secteur.
- Pour connecter une prise secteur de 125 V et plus, assurez-vous que le cordon électrique est adapté au voltage de la prise secteur et au courant nominal de l'adaptateur secteur.
- Consultez un distributeur de fournitures électriques pour connaître l'adaptateur de prise et le câble appropriés.

L'appareil doit être installé de façon à permettre son débranchement immédiat en cas de problème.

- L'unité se met en attente lorsque l'adaptateur secteur est branché. Le circuit principal reste "chargé" aussi longtemps que l'adaptateur secteur est branché à une prise électrique.
- N'utilisez aucun autre adaptateur secteur que celui fourni.

Conforme à la norme CAN/CSA C22.2 No.60065.

<Pour l'Europe uniquement>

■ Compatibilité électrique et magnétique EMC

Le symbole (CE) est placé sur la plaque d'évaluation.

CE QUI SUIT NE S'APPLIQUE QU'AU CANADA.

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

■ Concernant la batterie

ATTENTION

- Il y a un danger d'explosion si la batterie n'est pas remplacée correctement. Remplacez uniquement avec le type recommandé par le fabricant.
- Pour mettre au rebut les batteries, prenez contact avec les autorités locales ou le revendeur et renseignez-vous sur la méthode correcte de la mise au rebut.

Avertissement

Il existe des risques d'incendie, d'explosion et de brûlure. Ne pas démonter, chauffer au-delà de 60 °C (140 °F) ou incinérer.

- Nous vous conseillons d'utiliser des batteries Panasonic (VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118).
- Si vous utilisez d'autres batteries, nous ne pouvons pas garantir la qualité de ce produit.
- N'exposez pas la batterie à la chaleur et tenez-la éloignée de toute flamme.
- Ne laissez pas la ou les batteries dans un véhicule exposé au soleil avec vitres et portes fermées pendant une longue période de temps.

Batterie (batterie au lithium-ion)

- Utilisez l'appareil spécifié pour recharger la batterie.
- N'utilisez la batterie avec aucun autre appareil que l'appareil spécifié.
- Évitez que de la saleté, du sable, des liquides ou d'autres corps étrangers n'entrent en contact avec les bornes.
- Ne touchez pas les bornes des fiches (+ et -) avec des objets métalliques.
- Évitez de démonter, remodeler, chauffer ou jeter au feu.

Si de l'électrolyte entre en contact avec vos mains ou vos vêtements, lavez-les avec beaucoup d'eau.

Si de l'électrolyte entre en contact avec vos yeux, ne les frottez pas.

Rincez-vous les yeux avec beaucoup d'eau, puis consultez un médecin.

■ Directives importantes

Avant d'utiliser l'appareil, lire attentivement les instructions qui suivent. Se conformer tout particulièrement aux avertissements inscrits sur l'appareil et aux consignes de sécurité indiquées ci-dessous. Conserver le présent manuel pour consultation ultérieure.

- 1) Lire attentivement ces instructions.
- 2) Conserver ces instructions.
- 3) Lire toutes les mises en garde.
- 4) Suivre toutes les instructions.
- 5) Ne pas utiliser cet appareil près d'une source d'eau.
- 6) Ne nettoyer qu'avec un chiffon sec.
- 7) Ne pas bloquer les événements d'aération. Installer l'appareil selon les instructions du fabricant.
- 8) Ne pas installer l'appareil près d'un appareil de chauffage tel qu'un radiateur, une cuisinière, un registre de chaleur ou tout dispositif émettant de la chaleur (y compris un amplificateur).
- 9) Pour des raisons de sécurité, ne pas modifier la fiche polarisée ou celle de mise à la terre. Une fiche polarisée est une fiche à deux lames, dont une plus large. Une fiche de mise à la terre est une fiche à deux lames avec une broche de masse. La lame plus large ou la broche de masse procure une protection accrue. Si ce genre de fiche ne peut être inséré dans une prise de courant, communiquer avec un électricien pour remplacer la prise.
- 10) S'assurer que le cordon est placé dans un endroit où il ne risque pas d'être écrasé, piétiné ou coincé. Faire particulièrement attention à ses extrémités de branchement, y compris sa fiche.
- 11) N'utiliser que les accessoires ou périphériques recommandés par le fabricant.
- 12) Ne placer l'appareil que dans une baie ou sur un support, trépied, gabarit d'installation, etc., recommandé par le fabricant ou vendu avec l'appareil. Le chariot sur lequel se trouve l'appareil doit être déplacé avec soin. Des arrêts brusques, l'utilisation d'une force excessive et des surfaces inégales peuvent entraîner la chute du chariot.
- 13) Débrancher cet appareil lors d'un orage ou en cas de non-utilisation prolongée.
- 14) Confier l'appareil à un technicien qualifié pour toute réparation : cordon d'alimentation ou fiche endommagé, liquide renversé ou objet tombé dans l'appareil, exposition à la pluie ou à une humidité excessive, mauvais fonctionnement ou échappement de l'appareil.



NOTICE POUR USAGE MÉDICAL

- Ceci est un appareil conçu pour l'enregistrement et la lecture d'images de caméras spécifiées classifié comme ;
 - Protection contre les chocs électriques Class II
 - Protection contre l'entrée d'eau IPX0
 - Mode d'opération Continu
 - Non approprié pour une utilisation en présence d'un mélange anesthésique inflammable avec de l'air ou de l'oxygène ou du protoxyde d'azote.
- L'équipement raccordé à l'entrée et/ou la sortie du signal doit être certifié conformément à la norme nationale harmonisée CEI 60601-1 et/ou CEI 60601-1-1. De plus, toutes les configurations doivent être conformes avec le système de la norme CEI 60601-1 ME. Toute personne qui relie un équipement supplémentaire à l'entrée du signal ou à la sortie du signal configure un système médical et est donc responsable du fait que le système est conforme aux exigences de la norme CEI 60601-1. En cas de doute, consulter le service technique ou le représentant local.

Les fuites de courant de cet appareil peuvent dépasser la limite permise lorsqu'il est connecté d'une manière conductible à d'autres appareils. Pour éviter une augmentation des fuites de courant, un dispositif de séparation doit être appliqué.
- A utiliser avec le tête d'appareil photo compacte (AG-MDC20G : en option).
- Ne pas utiliser avec la tête d'appareil photo compacte en style tenu à la main.
- Opérateur : Pour réduire le risque de chocs électriques, ne touchez pas les patients durant l'opération de l'appareil.

■ TRANSPORT ET STOCKAGE

TEMPÉRATURE AMBIANTE	-10°C à 60°C
HUMIDITÉ RELATIVE	30% à 80%
PRESSION ATMOSPHÉRIQUE	500 hPa à 1060 hPa

Précautions d'opération

Les appareils qui génèrent des champs magnétiques intenses peuvent provoquer du bruit sur les signaux vidéo et audio. Si ceci est le cas, vous pouvez remédier à cette situation en n'utilisant pas par exemple l'appareil près de sources de champs magnétiques.

Informations concernant la sécurité.

<Pour l'Europe uniquement>

■ L'élimination des équipements et des batteries usagés

Applicable uniquement dans les pays membres de l'Union européenne et les pays disposant de systèmes de recyclage



Apposé sur le produit lui-même, sur son emballage, ou figurant dans la documentation qui l'accompagne, ce pictogramme indique que les piles, appareils électriques et électroniques usagés, doivent être séparées des ordures ménagères.

Afin de permettre le traitement, la valorisation et le recyclage adéquats des piles et des appareils usagés, veuillez les porter à l'un des points de collecte prévus, conformément à la législation nationale en vigueur.

En les éliminant conformément à la réglementation en vigueur, vous contribuez à éviter le gaspillage de ressources précieuses ainsi qu'à protéger la santé humaine et l'environnement.

Pour de plus amples renseignements sur la collecte et le recyclage, veuillez vous renseigner auprès des collectivités locales, votre revendeur ou fournisseur.

Le non-respect de la réglementation relative à l'élimination des déchets est passible d'une peine d'amende.



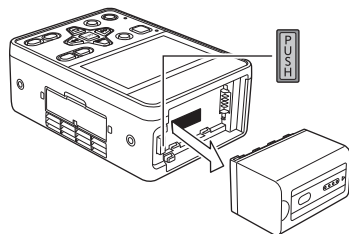
Note relative au pictogramme à apposer sur les piles (pictogramme du bas):

Si ce pictogramme est combiné avec un symbole chimique, il répond également aux exigences posées par la Directive relative au produit chimique concerné.

Pour enlever la batterie

Batterie alimentation principale (Batterie au lithium-ion)

Tout en appuyant sur la touche de déverrouillage de la batterie, retirez la batterie.



Pile de sauvegarde (Batterie Lithium)

- Pour le retrait et la dépose de la pile à la fin de sa durée de vie, consultez votre revendeur.

Note concernant la fonction de gestion de l'alimentation spécifiée dans le RÈGLEMENT (CE) No 1275/2008 de la Commission portant application de la directive 2009/125/CE du Parlement européen et du Conseil.

Ce dispositif est conçu et fabriqué pour être utilisé dans une station de radiodiffusion et/ou dans un environnement similaire.

Ce dispositif n'est pas équipé d'une fonction de gestion de l'alimentation ou bien la fonction de gestion de l'alimentation est réglée sur OFF car elle empêche le dispositif d'arriver à ses fins dans les cas suivants.

1. Si le dispositif est une Caméra de studio, une Caméra Météo, une Table de mixage ou un autre appareil : Une fonction de gestion de l'alimentation peut provoquer l'arrêt brutal du dispositif durant l'enregistrement ou le mode On Air.
2. Si le dispositif est un Moniteur de studio : Une fonction de gestion de l'alimentation peut rendre invisible la vidéo de vérification servant à savoir si un signal est normal ou si le signal a été perdu.
3. Si le dispositif est un Caméscope : Un caméscope professionnel doit être en mesure de démarrer rapidement à tout moment, mais une fonction de gestion de l'alimentation causera une augmentation du temps nécessaire pour la reprise à partir du mode veille.

■ Précautions d'utilisation

Gardez cet appareil aussi loin que possible des appareils électromagnétiques (comme les fours à micro-onde, les téléviseurs, les consoles vidéo etc.).

- Si vous utilisez cet appareil au dessus ou près d'un téléviseur, les images et/ou le son de cet appareil peuvent être perturbés par les ondes électromagnétiques.
- N'utilisez pas cet appareil à proximité d'un téléphone cellulaire car cela pourrait entraîner des parasites nuisibles à l'image et/ou au son.
- Les données enregistrées peuvent être endommagées ou les images fixes peuvent être perturbées par des champs magnétiques puissants créés par des haut-parleurs ou de gros moteurs.
- Les ondes électromagnétiques émises par les microprocesseurs peuvent affecter cet appareil en perturbant l'image et/ou le son.
- Si cet appareil est affecté par un appareil électromagnétique et arrête de fonctionner normalement, éteignez cet appareil et retirez la batterie ou débranchez l'adaptateur. Puis réinstallez la batterie ou reconnectez l'adaptateur secteur et allumez cet appareil.

N'utilisez pas cet appareil à proximité d'un émetteur radio ou de lignes à haute tension.

- L'utilisation de l'appareil à proximité d'un émetteur radio ou de lignes à haute tension pourrait nuire à l'image et/ou au son.

A propos de la connexion à un ordinateur

- Veuillez utiliser un câble compatible avec la norme USB 2.0 disponible dans le commerce. Branchez une prise miniB à cet appareil.

Pour raccorder la tête de caméra dédiée (AG-MDC20G)

- Utilisez toujours un véritable câble de tête de caméra en option Panasonic (AG-C20003G (3 m (118-1/8")), AG-C20020G (20 m (787-3/8")) : en option).

Pour se raccorder au réseau

- Câble LAN * (catégorie 5 ou supérieure), max. 100 mètres (328 pi)
- * L'utilisation d'un câble STP (shielded twisted pair: paire torsadée blindée) est recommandée.

Pour raccorder un dispositif d'entrée/sortie SDI



- Pour raccorder la prise SDI IN ou la prise SDI OUT, utilisez un câble BNC à double blindage équivalent à 5C-FB (disponible dans le commerce).

Remarque sur la visualisation de vidéos/photos sur un moniteur externe

- Utilisez un câble HDMI Haute vitesse disponible dans le commerce. Si possible, nous vous conseillons d'utiliser un câble d'une longueur maximale de 3 m (9,84 pi).

Veuillez utiliser cet appareil à au moins 30 cm (0,98 pi) des murs.

Les symboles présents sur ce produit (y compris sur les accessoires) indiquent ce qui suit :

~	CA
==	CC
	Équipement de classe II (le produit est doublement isolé.)
	MARCHE
	Veille

Fabriqué par : Panasonic Corporation, Osaka, Japon
Nom et adresse de l'importateur en accord avec les règlements de l'Union Européenne :
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Allemagne

Informazioni riguardanti la vostra sicurezza

AVVISO:

Per ridurre il rischio di incendi, scosse elettriche o danni al prodotto,

- Non esporre questa unità a pioggia, umidità, infiltrazioni o schizzi.
- Non collocare su questa unità oggetti riempiti di liquidi (ad esempio vasi).
- Utilizzate solo gli accessori consigliati.
- Non rimuovere le coperture.
- Non riparare da soli l'unità. Per la manutenzione rivolgersi a personale qualificato.

ATTENZIONE!

Per ridurre il rischio di incendi, scosse elettriche o danni al prodotto,

- Non installare o posizionare questa unità in uno scaffale, armadietto incassato o altro spazio ristretto. Accertarsi che l'unità sia sufficientemente ventilata.
- Non ostruire le prese d'aria dell'unità con giornali, tovaglie, tende o altri oggetti di simile natura.
- Non collocare sull'unità oggetti che generano una fiamma libera come, ad esempio, una candela accesa.

ATTENZIONE:

Utilizzo di cuffie

- Un volume eccessivo delle cuffie può portare alla perdita dell'udito.
- L'ascolto a tutto volume per periodi prolungati può causare danni all'udito.

ATTENZIONE:

Non lasciare l'unità a contatto diretto con la pelle quando è in uso.

- Se una parte dell'unità con temperatura elevata o l'aria calda dalle aperture di ventilazione viene a contatto diretto con la pelle, questo può causare ustioni.

ATTENZIONE:

Informazioni sull'uso della scheda SD

- Tenete la scheda di memoria fuori dalla portata dei bambini per evitare che possano ingerirla.

 sono le informazioni sulla sicurezza.

- Quando l'alimentatore CA è collegato l'unità è in modalità di attesa. Quando l'alimentatore CA è collegato a una presa elettrica il circuito primario è sempre "attivo".
- Non utilizzare altri alimentatori CA salvo quello fornito in dotazione.

■ Marcatura d'identificazione

Prodotto	Ubicazione
Registratore portatile di schede di memoria	Parte inferiore
Alimentatore CA	Parte inferiore

Questa unità è progettata per essere utilizzata in climi miti e tropicali. (Solo Sud-Est asiatico, Medio Oriente)
Questa unità è progettata per essere utilizzata in climi miti. (Tranne Sud-Est asiatico, Medio Oriente)

La spina è il dispositivo di scollegamento. Installare questa unità in modo che sia possibile scollegare immediatamente la spina del cavo di alimentazione dalla presa.

■ EMC Conformità alle norme elettromagnetiche

Il simbolo (CE) si trova sulla piastrina d'identificazione.

■ Informazioni sulla batteria

ATTENZIONE

- Pericolo di esplosioni se la batteria viene sostituita in modo non corretto. Sostituirla solo con una del tipo consigliato dal produttore.
- Quando si smaltiscono le batterie, contattare le autorità locali o il rivenditore e chiedere informazioni sul metodo corretto di smaltimento.

Avviso

Rischio di incendio, esplosione e ustioni. Non disassemblare, riscaldare al di sopra dei 60 °C o incenerire.

- Si consiglia di utilizzare batterie Panasonic (VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118).
- Se si utilizzano batterie di tipo diverso, non è possibile garantire la qualità di questo prodotto.
- Non riscaldare o esporre alla fiamma.
- Non lasciare la(e) batteria(e) in auto esposta alla luce solare diretta per un lungo periodo di tempo, con le porte e i finestrini chiusi.

NOTE PER L'USO MEDICALE

- Questo apparato è destinato alla registrazione e alla riproduzione di immagini da specifiche fotocamere classificate come:
 - Protezione da scosse elettriche Classe II
 - Protezione da infiltrazioni d'acqua IPX0
 - Modalità di funzionamento Continua
- Non adatto per l'uso in presenza di una miscela anestetica infiammabile con aria o con ossigeno o protossido di azoto.
- Le apparecchiature collegate alle parti per ingresso e/o uscita segnale devono essere certificate secondo la norma nazionale armonizzata IEC 60601-1 e/o IEC 60601-1 appropriata. Inoltre tutte le configurazioni saranno conformi al sistema standard IEC 60601-1 ME. Chiunque colleghi apparecchiature aggiuntive alla parte di ingresso o di uscita segnale configura un sistema medicale, ed è quindi responsabile della conformità del sistema ai requisiti dello standard IEC 60601-1. In caso di dubbi, consultare il dipartimento di assistenza tecnica o il proprio rappresentante locale.

La corrente di fuga di questa unità può eccedere il valore consentito quando l'unità viene collegata conduttivamente a un'altra apparecchiatura. Per impedire l'aumento della corrente di fuga deve essere applicato un dispositivo di separazione.
- Uso con la Compact Camera Head (AG-MDC20G: optional).
- Non utilizzare la Compact Camera Head di tipo palmare.
- Operatore: per ridurre il rischio di scosse elettriche, evitare di toccare i pazienti mentre si usa l'apparecchiatura.

■ CONDIZIONI DI TRASPORTO E CONSERVAZIONE

TEMPERATURA AMBIENTE

da -10°C a 60°C

UMIDITÀ RELATIVA

da 30% a 80%

PRESSIONE ATMOSFERICA

da 500 hPa a 1060 hPa

Precauzioni di utilizzo

L'uso in prossimità di qualsiasi apparecchiatura in grado di generare intensi campi magnetici può provocare disturbi nei segnali video e audio. In tal caso, cercare di risolvere il problema, ad esempio, allontanando dall'unità la sorgente del campo magnetico prima dell'utilizzo.

 sono le informazioni sulla sicurezza.

■ Smaltimento di vecchie apparecchiature e batterie usate Solo per Unione Europea e Nazioni con sistemi di raccolta e smaltimento



Questi simboli sui prodotti, sull'imballaggio e/o sulle documentazioni o manuali accompagnanti i prodotti indicano che i prodotti elettrici, elettronici e le batterie usate non devono essere buttati nei rifiuti domestici generici.

Per un trattamento adeguato, recupero e riciclaggio di vecchi prodotti e batterie usate vi invitiamo a portarli negli appositi punti di raccolta secondo la legislazione vigente nel vostro paese.

Con uno smaltimento corretto, contribuirete a salvare importanti risorse e ad evitare i potenziali effetti negativi sulla salute umana e sull'ambiente. Per ulteriori informazioni su raccolta e riciclaggio, vi invitiamo a contattare il vostro comune, rivenditore o fornitore.

Lo smaltimento non corretto di questi rifiuti potrebbe comportare sanzioni in accordo con la legislazione nazionale.



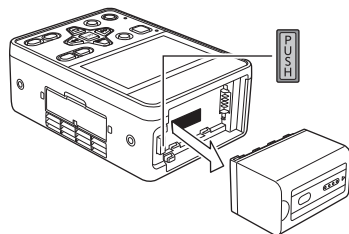
Note per il simbolo batterie (simbolo sotto):

Questo simbolo può essere usato in combinazione con un simbolo chimico. In questo caso è conforme ai requisiti indicati dalla Direttiva per il prodotto chimico in questione.

Per rimuovere la batteria

Batteria di alimentazione principale (Litio Ioni batteria)

Rimuovere la batteria tenendo premuto il pulsante di rilascio batteria.



Batteria di riserva (Litio batteria)

- Per la rimozione della batteria ai fini del suo smaltimento al termine della sua vita utile, consultare il proprio rivenditore.

Nota relativa alla funzione di Gestione Energia specificata nella NORMA DELLA COMMISSIONE (CE) Nr 1275/2008 che implementa la Direttiva 2009/125/CE del Parlamento Europeo e del Consiglio.

Questo dispositivo è stato progettato e prodotto per l'uso presso una stazione televisiva e/o in un ambiente simile. Questo dispositivo non è munito di una funzione di Gestione Energia o la funzione di Gestione Energia è impostata su OFF in quanto impedirebbe al dispositivo di soddisfare lo scopo per cui è stato progettato per le seguenti ragioni.

1. Se il dispositivo è una Videocamera da Studio, una Videocamera Meteo, un Mixer o altro processore:
Una funzione di Gestione Energia può causare l'arresto improvviso del funzionamento del dispositivo durante la registrazione o la trasmissione dal vivo.
2. Se il dispositivo è un Monitor da Studio:
La funzione di Gestione Energia può rendere non visualizzabile il video per confermare se un segnale è normale o è stato perso.
3. Se il dispositivo è un Camcorder:
Un camcorder professionale deve essere in grado di accendersi velocemente in qualsiasi momento, ma una funzione di Gestione Energia causerà l'aumento del tempo necessario per riavviarsi dalla modalità Stand-by.

■ Precauzioni per l'uso

Tenere l'unità quanto più lontano possibile da apparecchi elettromagnetici (come forni a microonde, TV, videogiochi, ecc.).

- Se si utilizza l'unità sopra o vicino a un apparecchio TV, le immagini e/o i suoni di questa unità potrebbero essere disturbati dalle onde elettromagnetiche.
- Non utilizzare l'unità vicino a telefoni cellulari perché ciò potrebbe essere causa di disturbi alle immagini e/o ai suoni.
- I forti campi magnetici creati da altoparlanti o grandi motori possono danneggiare seriamente la registrazione e distorcere le immagini.
- Le onde elettromagnetiche generate da un microprocessore possono avere effetti negativi sull'unità, causando disturbi a immagini e/o suoni.
- Se l'unità è disturbata da apparecchi elettromagnetici e smette di funzionare correttamente, spegnerla e rimuovere la batteria o scollegare l'alimentatore CA. Ricollegare quindi la batteria o ricollegare l'alimentatore CA e accendere l'unità.

Non utilizzare l'unità vicino a trasmettitori radio o linee ad alta tensione.

- Se si registrano delle immagini vicino a trasmettitori radio o linee ad alta tensione, immagini e/o suoni potrebbero risultare disturbati.

Connessione a un PC

- Usare un cavo disponibile in commercio compatibile con lo standard USB 2.0. Collegare un terminale miniB a questa unità.

Collegamento alla Testa Camera dedicata (AG-MDC20G)

- Usare sempre un cavo testa camera opzionale originale Panasonic (AG-C20003G (3 m), AG-C20020G (20 m): opzionale).

Collegamento ad una rete

- Cavo LAN* (categoria 5 o superiore), massimo 100 metri
- * Si raccomanda l'uso di un cavo STP (shielded twisted pair).

Collegamento ad un dispositivo input/output SDI

- Per il collegamento al terminale SDI IN o al terminale SDI OUT, utilizzare un cavo BNC a doppia schermatura equivalente a 5C-FB (disponibile in commercio).

Nota sulla visione di video/foto su un monitor esterno

- Utilizzare un cavo HDMI High Speed disponibile in commercio. Se possibile, si consiglia di utilizzare un cavo di lunghezza pari o inferiore a 3 m.

Usare questa unità ad almeno 30 cm dalle pareti circostanti.

I simboli su questo prodotto (compresi gli accessori) rappresentano quanto segue:

~	CA
==	CC
□	Apparecchiatura Class II (il prodotto dispone di doppio isolamento.)
	ON
○	Standby

Fabbricato da: Panasonic Corporation, Osaka, Giappone
Nome e indirizzo dell'importatore in conformità con le normative UE:
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germania

Información para su seguridad

ADVERTENCIA:

Para reducir el riesgo de incendio, de descarga eléctrica, o de daño del producto,

- No exponga esta unidad a la lluvia, humedad, goteo o salpicaduras.
- No ubique los objetos llenos con líquido, como floreros, sobre esta unidad.
- Use solamente los accesorios recomendados.
- No retire las tapas.
- No repare esta unidad usted mismo. Consulte la reparación del personal de servicio calificado.

¡ATENCIÓN!

Para reducir el riesgo de incendio, de descarga eléctrica, o de daño del producto,

- No instale o coloque esta unidad en una estantería, en un armario empotrado o en cualquier otro espacio reducido. Asegúrese de que la unidad esté correctamente ventilada.
- No obstaculice las aberturas de ventilación de la unidad con periódicos, manteles, cortinas u objetos similares.
- No coloque fuentes de llamas libres, como velas encendidas, en esta unidad.

ATENCIÓN:

Acerca de cómo usar el auricular

- La excesiva presión del sonido desde los auriculares puede causar la pérdida del oído.
- Escuchar al volumen máximo durante largos períodos de tiempo puede dañar los oídos del usuario.

ATENCIÓN:


No deje la unidad en contacto directo con la piel mientras está en uso.

- Si se deja la piel en contacto directo con las partes a altas temperaturas de la unidad o con el aire caliente de las aberturas de ventilación de la misma, podrían producirse quemaduras.

ATENCIÓN:

Acerca del uso de la tarjeta SD

- Mantenga las tarjetas de memoria fuera del alcance de los niños para evitar su ingestión accidental.

 indica información de seguridad.

■ Placa de identificación de los productos

Producto	Ubicación
Grabador portátil de tarjetas de memoria	Parte inferior
Adaptador de CA	Parte inferior

Esta unidad está destinada a ser usada en climas moderados y tropicales. (Únicamente Sudeste asiático y Oriente Medio)
 Esta unidad está destinada a ser usada en climas moderados. (Excepto Sudeste asiático y Oriente Medio)

<Solamente para EE. UU. y Canadá>

Adaptador de CA

Este adaptador funciona en CA entre 100 V y 240 V.

Pero

- En Estados Unidos y Canadá, el adaptador de CA se debe conectar a un suministro de alimentación de 120 V CA solamente.
- Al conectar a un suministro de CA fuera de Estados Unidos o Canadá, use un adaptador de enchufe para que coincida con la configuración del tomacorriente de CA.
- Al conectar a un suministro de más de 125 V de CA, asegúrese de que el cable que usa coincida con el voltaje del suministro de CA y con la corriente nominal del adaptador de CA.
- Comuníquese con un distribuidor de piezas eléctricas para obtener asistencia para seleccionar un adaptador de enchufe de CA o un conjunto de cables de CA.

El enchufe de suministro de energía es el dispositivo de desconexión. Instale esta unidad de manera que el enchufe de suministro de energía se pueda desenchufar de inmediato de la toma de corriente.

- El dispositivo está en condición de espera cuando el adaptador de CA está conectado. El circuito principal está siempre "con corriente" mientras el adaptador de CA está conectado a una toma.
- Utilice tan sólo el adaptador de CA suministrado.

<Solamente para Europa>

■ EMC Electric and magnetic compatibility

This symbol (CE) is located on the rating plate.

■ Acerca de la batería

ATENCIÓN

- Existe peligro de explosión si la batería se sustituye incorrectamente. Sustitúyala sólo por el tipo de batería recomendada por el fabricante.
- Al desechar las baterías, póngase en contacto con las autoridades locales o el distribuidor para seguir el método de eliminación correcto.

Advertencia

Riesgo de fuego, explosión y quemaduras. No desmonte, caliente a más de 60 °C (140 °F) ni incinere.

- Le recomendamos utilizar baterías Panasonic (VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118).
- No podemos garantizar la calidad de este producto si se utilizan baterías de otras marcas.
- No caliente ni exponga a llamas.
- No deje la/las batería/s durante un largo período expuesto a la luz directa del sol dentro de un coche con las puertas y las ventanillas cerradas.

Paquete de batería (Batería de iones de litio)

- Use la unidad especificada para recargar el paquete de batería.
- No use el paquete de batería con un equipo que no sea la unidad especificada.
- No permita que haya suciedad, arena, líquidos y otras materias extrañas en los terminales.
- No toque los terminales del enchufe (+ y -) con objetos metálicos.
- No desarme, remodele, caliente o tire al fuego.

Si un electrolito entra en contacto con sus manos o ropa, lávelas minuciosamente con agua.

Si un electrolito entra en contacto con sus ojos, no se frote los ojos. Enjuáguese los ojos con agua y luego consulte a un médico.

■ INSTRUCCIONES DE SEGURIDAD IMPORTANTES

Lea atentamente estas instrucciones de funcionamiento antes de usar la unidad. Siga las instrucciones de seguridad en la unidad y las instrucciones de seguridad aplicables que se mencionan abajo. Guarde a mano estas instrucciones de funcionamiento para consultarlas en el futuro.

- 1) Lea estas instrucciones.
- 2) Guarde estas instrucciones.
- 3) Cumpla con todas las advertencias.
- 4) Siga todas las instrucciones.
- 5) No use este aparato cerca del agua.
- 6) Limpie solamente con un paño seco.
- 7) No bloquee las aperturas de ventilación. Instale de acuerdo con las instrucciones del fabricante.
- 8) No instale cerca de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (inclusive amplificadores).
- 9) No reduzca el propósito de seguridad del enchufe polarizado o con descarga a tierra. Un enchufe polarizado tiene dos aspas, una más ancha que la otra. Un enchufe con descarga a tierra tiene dos aspas y una tercera espiga de conexión a tierra. El aspa ancha o la tercera espiga se proporcionan para su seguridad. Si el enchufe suministrado no entra en su tomacorriente, consulte a un electricista para reemplazar el tomacorriente obsoleto.
- 10) Proteja el cable para que no lo pisen o lo doblen particularmente en los enchufes, tomas de corriente y el punto donde sale del aparato.
- 11) Use solamente accesorios especificados por el fabricante.
- 12) Use solamente con el carro, pedestal, trípode, soporte o mesa especificados por el fabricante o que se venden con el aparato. Cuando se usa un carro, tenga cuidado al mover la combinación del carro y el aparato para evitar lesiones debido a una caída.
- 13) Desenchufe este aparato durante tormentas eléctricas o cuando no se usa durante largos períodos de tiempo.
- 14) Derive la reparación al personal de servicio calificado. La reparación se requiere cuando el aparato se dañó de alguna forma, como un cable de alimentación o enchufe dañado, líquido derramado u objetos que cayeron sobre el aparato, si el aparato se expuso a lluvia o humedad, si no funciona normalmente o si se cayó.



NOTA PARA EL USO MÉDICO

- Este aparato se ha diseñado para grabar la imagen reproducida en la cámara especificada de acuerdo con la siguiente clasificación;
 - Protección contra descargas eléctricas Categoría II
 - Protección contra la entrada de agua IPX0
 - Modo de funcionamiento Continuo
 - No apto para el uso en presencia de mezclas de anestésicos inflamables con aire, oxígeno u óxido nítrico.
- Los equipos conectados a componentes de entrada y/o salida de señal deben estar certificados de acuerdo con las normas nacionales armonizadas apropiadas IEC 60601-1 y/o IEC 60601-1. Además, todas las configuraciones deben cumplir con el sistema estándar IEC 60601-1 ME. Todo aquel que conecte equipos adicionales al componente de señal de entrada o al componente de señal de salida está configurando un sistema médico y es, por tanto, responsable de que el sistema cumpla con los requerimientos de la norma IEC 60601-1. En caso de duda, consulte con el departamento de servicio técnico o con su representante local. La corriente de fuga de esta unidad puede sobrepasar el valor admisible si se conecta conductivamente a otro equipo. Para evitar que aumente la corriente de fuga debe implementarse un dispositivo separador.
- Utilice con cabeza de cámara compacta (AG-MDC20G: Opcional).
- No utilice la cabeza de cámara compacta sujetándola con la mano.
- Operador: para reducir el riesgo de descarga eléctrica, no toque los pacientes mientras opere el equipo.

■ CONDICIONES DE TRANSPORTE Y ALMACENAMIENTO

TEMPERATURA AMBIENTE	-10°C a 60°C
HUMEDAD RELATIVA	30% a 80%
PRESIÓN ATMOSFÉRICA	500 hPa a 1060 hPa

Precaución de funcionamiento

El funcionamiento cerca de aparatos que generen campos magnéticos potentes puede ocasionar ruido en las señales de vídeo y de audio.

Si ello sucede, tome las medidas necesarias para solucionar el problema; por ejemplo, aleje la fuente de los campos magnéticos de la unidad antes de utilizarla.

 indica información de seguridad.

<Solamente para Europa>

■ Eliminación de Aparatos Viejos y de Pilas y Baterías

Solamente para la Unión Europea y países con sistemas de reciclado



Estos símbolos en los productos, su embalaje o en los documentos que los acompañen significan que los productos eléctricos y electrónicos y pilas y baterías usadas no deben mezclarse con los residuos domésticos.

Para el adecuado tratamiento, recuperación y reciclaje de los

productos viejos y pilas y baterías usadas llévelos a los puntos de recogida de acuerdo con su legislación nacional.

Si los elimina correctamente ayudará a preservar valuosos recursos y evitará potenciales efectos negativos sobre la salud de las personas y sobre el medio ambiente.

Para más información sobre la recogida o reciclaje, por favor contacte con su ayuntamiento, su distribuidor o su proveedor.

Puede haber sanciones por una incorrecta eliminación de este residuo, de acuerdo con la legislación nacional.



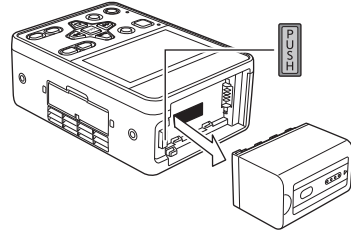
Nota para el símbolo de pilas y baterías (símbolo debajo):

Este símbolo puede usarse en combinación con el símbolo químico. En este caso, cumple con los requisitos de la Directiva del producto químico indicado.

Extracción de la batería

Batería de alimentación principal (Batería de litio iones)

Mientras presiona el botón para expulsar la batería, retire la batería.



Batería de carga de seguridad (Batería de litio)

- Si desea extraer la batería para desecharla al final de su vida útil, póngase en contacto con su distribuidor.

Nota acerca de la función de gestión energética especificada en el REGLAMENTO DE LA COMISIÓN (CE) N.º 1275/2008 por el que se aplica la Directiva 2009/125/CE del Parlamento Europeo y del Consejo.

Este dispositivo ha sido diseñado y fabricado para su uso en una emisora de radiodifusión y/o entorno similar. Este dispositivo no está equipado con una función de gestión energética o dicha función de gestión energética está desactivada ya que evitaría que el dispositivo cumpliera su fin previsto por las siguientes razones.

1. Si el dispositivo es una cámara de estudio, una cámara meteorológica, un mezclador u otro procesador:
Una función de gestión energética podría causar que el dispositivo se detuviera repentinamente durante la grabación o durante la emisión.
2. Si el dispositivo es un monitor de estudio:
Una función de gestión energética podría provocar que no se pudiera ver el vídeo para confirmar si la señal es normal o si se ha perdido la señal.
3. Si el dispositivo es una videocámara:
Una videocámara profesional debe poder iniciarse rápidamente en cualquier momento, pero una función de gestión energética provocaría un aumento del tiempo de reanudación desde el modo de espera.

■ Precauciones sobre el uso de este producto

Mantenga esta unidad lo más alejada posible del equipo electromagnético (como hornos microondas, TV, video juegos, etc.).

- Si usa esta unidad arriba o cerca de un TV, es posible que las imágenes y/o sonidos en esta unidad se distorsionen debido a la radiación de ondas electromagnéticas.
- No use esta unidad cerca de teléfonos celulares porque al hacerlo se puede crear un ruido que afecta adversamente las imágenes y/o el sonido.
- Los campos magnéticos fuertes creados por altavoces o motores grandes pueden dañar las grabaciones y distorsionar las imágenes.
- La radiación de ondas electromagnéticas generada por microprocesadores puede afectar adversamente esta unidad, distorsionando las imágenes y/o el sonido.
- Si esta unidad es afectada adversamente por el equipo electromagnético y deja de funcionar correctamente, apague esta unidad y saque la batería o desconecte el adaptador de CA. Luego vuelva a colocar la batería o a conectar el adaptador de CA y encienda esta unidad.

No use esta unidad cerca de transmisores de radio o líneas de alto voltaje.

- Si graba cerca de transmisores de radio o líneas de alto voltaje, es posible que se afecten adversamente las imágenes y/o el sonido grabados.

Sobre cómo conectar a un ordenador

- Utilice un cable disponible comercialmente compatible con el estándar USB 2.0. Conecte un terminal miniB a esta unidad.

Al conectar al cabezal de cámara específico (AG-MDC20G)

- Utilice siempre un cable opcional para cabezal de cámara Panasonic (AG-C20003G (3 m (118-1/8 ")), AG-C20020G (20 m (787-3/8 ")): opcional).

Al conectar a una red

- Cable LAN* (categoría 5 o superior), máx. 100 metros (328 pies)
- * Se recomienda utilizar un cable STP (par retorcido blindado).

Al conectar a un dispositivo de entrada/salida SDI

- Para la conexión con el terminal SDI IN o el terminal SDI OUT, utilice un cable BNC con doble blindaje equivalente a 5C-FB (disponible en comercios).

Nota sobre la visualización de imágenes en movimiento/imágenes fijas en un monitor externo

- Utilice un cable HDMI de alta velocidad disponible en comercios. Si es posible, le recomendamos que utilice un cable con una longitud máxima de 3 m (9,84 pies).

Utilice esta unidad a al menos 30 cm (0,98 pies) de las paredes circundantes.

Los símbolos en este producto (incluidos los accesorios) representan lo siguiente:

~	CA
==	CC
□	Equipamiento de Clase II (Producto fabricado con aislamiento doble.)
	ENCENDIDO
○	En espera

Fabricado por: Panasonic Corporation, Osaka, Japón
Nombre y dirección del importador conforme a las normas de la UE:
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Alemania

■ Cautions for use

About this unit

The unit and the SD card become warm during use. This is not a malfunction.

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.

About connecting to a PC

- Please use a commercially available cable compatible with the USB 2.0 standard. Connect a miniB terminal to this unit.

When connecting to the dedicated Camera Head (AG-MDC20G)

- Always use a genuine Panasonic Camera head option cable (AG-C20003G (3 m (118-1/8")), AG-C20020G (20 m (787-3/8")): optional).

When connecting to a network

- LAN cable* (category 5 or above), max. 100 meters (328 feet)

* Use of an STP (shielded twisted pair) cable is recommended.

When connecting to an SDI input/output device

- To connect to the SDI IN terminal or SDI OUT terminal, use a double-shielded BNC cable equivalent to 5C-FB (commercially-available).

Note on viewing motion pictures/still pictures on an external monitor

- Use a commercially-available High Speed HDMI cable. If possible, we recommend using a cable with a length of 3 m (9.84 feet) or less.

Make sure to use the supplied cords. If you use optional accessories, use the cords and the cables supplied with them.

Do not extend the cords and the cables.

Do not spray insecticides or volatile chemicals onto the unit.

- If the unit is sprayed with such chemicals, its body may be marred and the surface finish may peel off.
- Do not leave rubber or plastic products in contact with the unit for a long time.

When you use the unit in a sandy or dusty place such as a beach, do not let sand or fine dust get into the body and terminals of the unit.

Also, keep the unit away from sea water.

- Sand or dust may damage the unit. (Care should be taken when inserting and removing a card.)
- If sea water splashes onto the unit, wipe off the water with a well wrung cloth. Then wipe the unit again with a dry cloth.

When carrying the unit, do not drop or bump it.

- A strong impact can break the unit's casing, causing it to malfunction.

Maintenance Inspections

- For your safety, it is recommended that maintenance inspections are carried out on an annual basis.

Cleaning

When cleaning, do not use benzine or thinner.

Using benzine or paint thinners may deform the recorder and/or cause the surface finish to peel off.

Cleaning procedure

1. When cleaning, unplug the power cord and remove the battery.
2. Use a soft, clean cloth to wipe the recorder. To remove stubborn dirt, wipe the recorder with a cloth moistened with neutral detergent that has been diluted with water and then use a dry cloth to take up the remaining moisture.
3. Use a cloth moistened in ethanol for disinfection and thoroughly wrung out to remove dust and dirt from the recorder.
4. Be sure to thoroughly dry the recorder after cleaning it with ethanol for disinfection.

When you are not going to use the unit for an extended time

- When storing the unit, it is recommended that you place a desiccant (silica gel) in with it.

About terminal protection

- When not using the connecting terminal, please attach the cover.

Do not allow the cord to drag on the ground or pull a connected cord along the passage

- The cord will be damaged, causing fire or electrical shock, when the cord gets caught by the feet, excite will also cause personal injury.

Please use this unit at least 30 cm (0.98 feet) from surrounding walls.

Information about compliance with IEC 60601 standards

- Evaluated against the technical requirements of IEC 60601-1/IEC 60601-1-2. (Excluding RA process evaluation)
- This unit is not Medical Electrical Equipment.

About the battery (optional)

The battery used in this unit is a rechargeable lithium-ion battery. It is susceptible to humidity and temperature and the effect increases the more the temperature rises or falls. In cold areas, the full charge indication may not appear or the low battery indication may appear about 5 minutes after starting use. At high temperatures, the protection function may be triggered, making it impossible to use the unit.

Be sure to detach the battery after use.

- If the battery is left attached, a minute amount of current continues to flow even if the unit is off. Keeping the unit in this state may result in over discharge of the battery. This may result in you not being able to use the battery even after it is charged.
- The battery should be stored in the vinyl bag so metal does not come into contact with the terminals.
- The battery should be stored in a cool place free from humidity, with as constant temperature as possible. (Recommended temperature: 15 °C to 25 °C (59 °F to 77 °F), Recommended humidity: 40%RH to 60%RH)
- Extremely high temperatures or low temperatures will shorten the life of the battery.
- If the battery is kept in high-temperature, high-humidity, or oily-smoky places, the terminals may rust and cause malfunctions.
- To store the battery for a long period of time, we recommend you charge it once every year and store it again after you have completely used up the charged capacity.
- Dust and other matter attached to the battery terminals should be removed.

Prepare spare batteries when going out for recording.

- Prepare batteries enough to last for 3 to 4 times the period you are planning to record for. Cold places such as a ski resort can shorten recording time.

If you drop the battery accidentally, check to see if the terminals are damaged.

- When this unit or battery charger is attached with the terminal part in a deformed state, this unit or battery charger may be damaged.

Do not throw old battery into fire.

- Heating a battery or throwing it into a fire may result in an explosion.

If the operating time is very short even after the battery has been recharged, the battery has worn out. Please purchase a new battery.

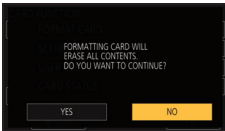
About the AC adaptor (supplied)/ battery charger (optional)

- If the temperature of the battery is extremely high or extremely low, charging may take time or the battery may not be charged.
- If the CHARGE indicators keeps flashing in orange, make sure that the terminals of the battery or the battery charger are not exposed to dirt, foreign objects or dust, then reconnect them properly. Disconnect the AC cable from the AC outlet when you remove dirt, foreign objects or dust on the terminals of the battery or the battery charger.
- If the battery's temperature is excessively high or excessively low, the CHARGE indicators will blink orange. Charging will start automatically when the battery reaches an acceptable temperature for charging.
- If the CHARGE indicators blinks orange when the battery's temperature is normal, the battery or the battery charger may be malfunctioning. In such cases, contact your dealer.
- If you use the AC adaptor or battery charger near a radio, radio reception may be disturbed. Keep the AC adaptor or battery charger 1 m (3.3 feet) or more away from the radio.
- When using the AC adaptor or battery charger, it may generate whirring sounds. However, this is normal.
- After use, be sure to disconnect the AC cable from the AC outlet. (If you leave this unit connected, the AC adaptor will consume approximately 0.1 W.)
- Always keep the electrodes of the AC adaptor, battery charger and battery clean.
- **Install the device near an AC outlet so that the power disconnection device (AC mains plug) can be accessed easily by hand. After use, remove the battery or unplug the power cord from the outlet.**

About the SD card (optional)

When disposing of or giving away the SD card, note that:

- Formatting and deletion of this unit or computer only changes the file management information and does not completely delete the data in the SD card.
- It is recommended that the main SD card is either physically destroyed or the SD card is physically formatted using this unit when disposing of or giving away the SD card.
- To physically format, connect this unit to the AC adaptor, select [CARD FUNCTION] → [FORMAT CARD] → [SD CARD 1] or [SD CARD 2] from the menu, and touch [YES]. Press and hold REC/PAUSE button in the following screen for three seconds. Screen to delete the SD card data is displayed, so select [YES] and follow the instruction on the screen.



- The customer is responsible for the management of the data in the SD card.

LCD monitor

- When the LCD monitor is dirty or condensation has occurred, please wipe it using a soft cloth such as a lens cloth.
- Do not touch the LCD monitor with your finger nails, or rub or press with strong force.
- It may become hard to see or hard to recognize the touch when the LCD protection sheet is affixed.
- When the unit has become very cold, for example due to storage in a cold area, its LCD monitor will be slightly darker than usual immediately after the unit is turned on. The normal brightness will be restored when the unit's internal temperature rises.

Extremely high precision technology is employed to produce the LCD Monitor screen. The result is more than 99.99% effective dots with a mere 0.01% of the dots inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

About operation from the Web screen

It is possible to distribute the streaming image of the unit (IP image transmission) or change the setup of the unit (IP control) by operating the web browser screen of a PC or mobile terminal connected to the unit via a network. For details, refer to the Operating Instructions (PDF format).

- The IP video refresh speed may be reduced and operations from the web screen may be slower, depending on the network environment used, performance of the personal computer or the mobile terminal, subjects and access count.
- Do not run the Easy IP Setup Software on a multiple number of personal computers for a single camera and set the IP address at the same time. Otherwise, you will be unable to complete the proper procedure and set the IP address correctly.

About combination of Memory Card Portable Recorder and Compact Camera Head

This unit (AG-MDR25) is compatible only to the dedicated camera head AG-MDC20G.

It will not operate if any other model is connected.

The camera head AG-MDC20G will not operate when connected to any recorder other than this unit (AG-MDR25).

About the recording method for recording motion pictures

This unit can record motion pictures using two different recording methods, including MP4 and AVCHD*. (→ 50, 57)

* AVCHD Progressive (1080/59.94p, 1080/50.00p) supported.

MP4:

These recording methods are suitable for editing images. Audio is recorded in linear PCM.

- Those methods are not compatible with clips in AVCHD format.
- Those methods can record motion pictures in formats that support 4K. 4K motion pictures offer a resolution four times higher than that of full high-definition motion pictures.

AVCHD:

This recording method is suitable for playback on a high-definition compatible external monitor.

Audio is recorded in Dolby Audio™.

Regarding system frequencies

You can change the system frequency (59.94 Hz/50.00 Hz) for this unit by using the menu.

([SYSTEM FREQ]: → 56)

- You cannot store AVCHD clips recorded with different system frequencies on the same SD card. If you have switched the system frequency, use another SD card.

■ Disclaimer of warranty

IN NO EVENT SHALL Panasonic Corporation BE LIABLE TO ANY PARTY OR ANY PERSON, EXCEPT FOR REPLACEMENT OR REASONABLE MAINTENANCE OF THE PRODUCT, FOR THE CASES, INCLUDING BUT NOT LIMITED TO BELOW:

- ① ANY DAMAGE AND LOSS, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;
- ② PERSONAL INJURY OR ANY DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- ③ UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER;
- ④ INCONVENIENCE OR ANY LOSS ARISING WHEN IMAGES ARE NOT DISPLAYED, DUE TO ANY REASON OR CAUSE INCLUDING ANY FAILURE OR PROBLEM OF THE PRODUCT;
- ⑤ ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- ⑥ ANY DEMANDS FOR COMPENSATION, CLAIMS, ETC. OCCASIONED BY THE INFRINGEMENT OF PRIVACY BY INDIVIDUALS OR ORGANIZATIONS WHOSE IMAGES WERE SHOT BY THE USER BECAUSE THESE IMAGES (INCLUDING THE RECORDINGS MADE) WERE MADE AVAILABLE BY THE USER TO THE PUBLIC DOMAIN FOR SOME REASON OR OTHER (INCLUDING USE WHEN NETWORK USER AUTHENTICATION IS TURNED OFF) OR BECAUSE THE IMAGES ENDED UP BEING USED FOR UNINTENDED PURPOSES;
- ⑦ LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE (INCLUDING INITIALIZATION OF THE PRODUCT DUE TO FORGOTTEN AUTHENTICATION INFORMATION SUCH AS A USER NAME AND PASSWORD)

■ Indemnity about recorded content

Panasonic does not accept any responsibility for damages directly or indirectly due to any type of problems that result in loss of recording or edited content, and does not guarantee any content if recording or editing does not work properly. Likewise, the above also applies in a case where any type of repair is made to the unit.

■ Network security

As you will use the unit connected to a network, your attention is called to the following security risks.

- ① Leakage or theft of information through the unit
- ② Use of the unit for illegal operations by persons with malicious intent
- ③ Interference with or stoppage of the unit by persons with malicious intent

It is your responsibility to take precautions such as those described below to protect yourself against the above network security risks.

- Use the unit in a network secured by a firewall, etc.
- If the unit is connected to a network that includes personal computers, make sure that the system is not infected by computer viruses or other malicious entities (using a regularly updated antivirus program, anti-spyware program, etc.).
- Protect your network against unauthorized access by setting up user authentication to restrict users to those who log in with an authorized user name and password. In addition, to prevent third parties from identifying user name information (including passwords), register new user name information and delete the default user name information. For details, refer to the Operating Instructions (PDF format).
- After accessing the unit as an administrator, be sure to close all web browsers.
- Store authentication information (user names and passwords) appropriately so that no third parties will be able to access it.
- Change the administrator password periodically.
- Restrict access to the unit by authenticating the users, for example, to prevent setting information stored on the unit from leaking over the network.
- Do not install the camera in locations where the camera or the cables can be destroyed or damaged by persons with malicious intent.
- Avoid connections that use public lines.

● Concerning user authorization

User authentication on the unit can be performed via digest authentication or basic authentication. If basic authentication is used without using a dedicated line equipped with an authentication function, password leaks may occur.

● Usage restrictions

Use of the same segment is recommended for the network in which the unit and the controller or personal computer are connected.

If the equipment uses connections with different segments, events based on the settings inherent to the network equipment, for instance, may occur so check this thoroughly prior to operation.

■ About security

Be careful about the possibility of theft or loss of the unit, and be careful not to leave the unit unattended. Please note that Panasonic does not accept any responsibility for the compromise, manipulation, and loss of information caused by these events.

■ Caution regarding laser beams




The lens may suffer damage if struck by a laser beam. Make sure that laser beams do not strike the lens when shooting in an environment where laser devices are used.

■ Cards that you can use with this unit

SDHC Memory Card and SDXC Memory Card

- 4 GB or more Memory Cards that do not have the SDHC logo or 48 GB or more Memory Cards that do not have the SDXC logo are not based on SD Memory Card Specifications.
- Refer to page 46 for more details on SD cards.

■ For the purposes of these operating instructions

- The battery pack is referred to as the "Battery".
- SDHC Memory Card and SDXC Memory Card are referred to as the "SD card".
- Function that can be used for CAM Mode: 
Function that can be used for SDI Mode: 
Function that can be used for Playback Mode: 
- An image created by one recording operation is called a "Clip" and is described as such.
- The Compact Camera Head (AG-MDC20G) sold separately is described as "Camera Head".
- Clip(s) to be recorded or that was recorded with [PRIORITY MODE] set to [REC/PB(4K)] → "MP4 clip(s)"
- Clip(s) to be recorded or that was recorded with [PRIORITY MODE] set to [REC/PB] → "AVCHD clip(s)"
- Notation of < > indicates the setup item name of the USER button that can be set with the menu of [USER SW]→[USER1] to [USER13].
- Pages for reference are indicated by an arrow, for example: → 00
- For the purposes of this manual, the model numbers of the units are given as listed in the table below.

Model number of unit	Model number given in manual
AG-MDR25P	AG-MDR25
AG-MDR25E	
AW-RP50N	AW-RP50
AW-RP120G	AW-RP120
AK-HRP200G	AK-HRP200

- These operating instructions are designed for use with models AG-MDR25P/AG-MDR25E. Such as screen illustrations are as an example AG-MDR25P.

■ About Condensation

(When the lens of the Camera Head or the LCD monitor of this unit becomes cloudy)

Condensation occurs when there is a change in temperature or humidity, such as when the unit is taken from outside or a cold room to a warm room. Please be careful, as it may cause the lens, the viewfinder or LCD monitor to become soiled, moldy, or damaged.

When taking the unit to a place which has a different temperature, if the unit is accustomed to the room temperature of the destination for about one hour, condensation can be prevented. (When the difference in temperature is severe, place the unit in a plastic bag or the like, remove air from the bag, and seal the bag.) When condensation has occurred, remove the battery and/or the AC adaptor and leave the unit like that for about one hour. When the unit becomes accustomed to the surrounding temperature, fogginess will disappear naturally.

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Accessories

Check the accessories before using this unit.
Keep the accessories out of reach of children to prevent swallowing.

AC adaptor



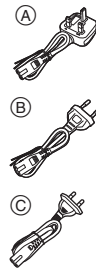
AC cable

(AG-MDR25P)



(AG-MDR25E)

- (A) For U.K. and Saudi Arabia
- (B) For Continental Europe, etc.
- (C) For India only



(AG-MDR25E)

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 3 types of AC mains cable.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

- Be sure to use the supplied AC adaptor.
- To purchase extra accessories, contact your dealer.

Optional accessories

Some optional accessories may not be available in some countries.

Battery charger (AG-B23/AG-BRD50)
Battery pack (VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118)
Compact Camera Head (AG-MDC20G)
Camera head option cable (AG-C20003G [3 m] (118-1/8 ")/AG-C20020G [20 m] (787-3/8 ")

Product numbers correct as of April 2017. These may be subject to change.

What you can do with this unit

Recording to the SD card

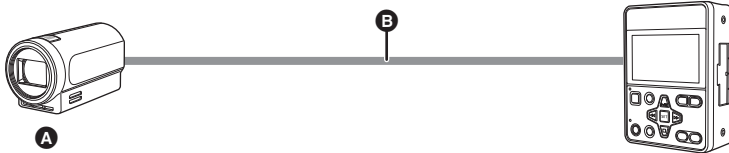
It is possible to record motion pictures and still pictures to the SD card using a variety of recording functions.

- This unit supports relay recording using double card slots.

Connecting to the Camera Head (optional) to record (CAM Mode) CAM

It is possible to connect to the Camera Head and record onto an SD card.

- It is possible to manually operate Camera Head camera functions such as Zoom, Focus, and IRIS with this unit.

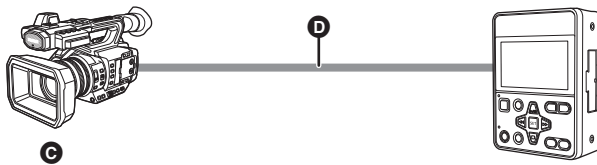


- A** Camera Head
- B** Camera head option cable (optional)

Input SDI to this unit and record (SDI Mode) SDI

It is possible to connect to external devices (HD camera recorder, HD information camera system etc.) equipped with an HD-SDI output terminal and record video signals, audio signals, time code (SLTC) etc. on the SD card.

- This is suitable for long-term backup recording etc.



- C** Camera recorder (SDI output device)
- D** BNC cable*

* To connect to the SDI IN terminal or SDI OUT terminal, use a double-shielded BNC cable equivalent to 5C-FB (commercially-available).

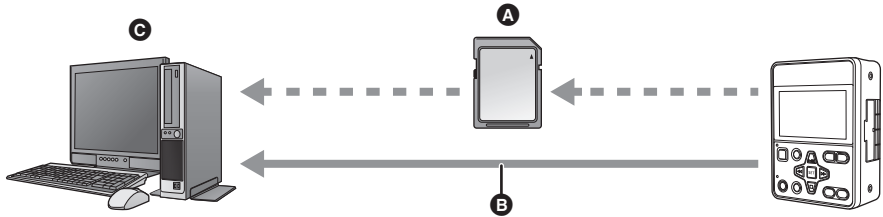
- For details about SDI Mode, refer to the Operating Instructions (PDF format).

Linking to external devices

Connection to a PC (USB connection)

Transfer data (files) to perform nonlinear editing on another device (PC, etc.).

- This unit supports USB 2.0.



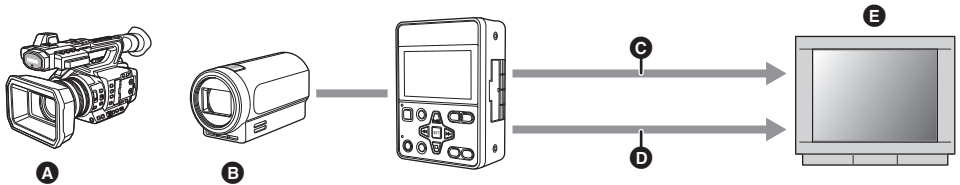
- A** SD card^{*1} **B** USB 2.0 cable (A-miniB type)^{*2} **C** PC

*1 SD cards are optional and not supplied with this unit.

*2 A USB 2.0 cable is not supplied with this unit. Use a commercially available cable compatible with the USB 2.0 standard. Connect the miniB connector to this unit.

Connection to external monitor/external device (such as a recorder)

Connect to an external monitor or an external device (such as a recorder) and output video.



- A** Camera recorder (SDI output device) **C** HDMI cable^{*3} **E** External monitor/external device such as a recorder
B Camera Head **D** BNC cable^{*4}

*3 Use a commercially-available High Speed HDMI cable. If possible, we recommend using a cable with a length of 3 m (9.84 feet) or less.

*4 To connect to the SDI IN terminal or SDI OUT terminal, use a double-shielded BNC cable equivalent to 5C-FB (commercially-available).

When connecting with an HDMI cable using an HDMI-to-DVI converter, etc., be sure to connect the HDMI cable to the connector of this unit last.

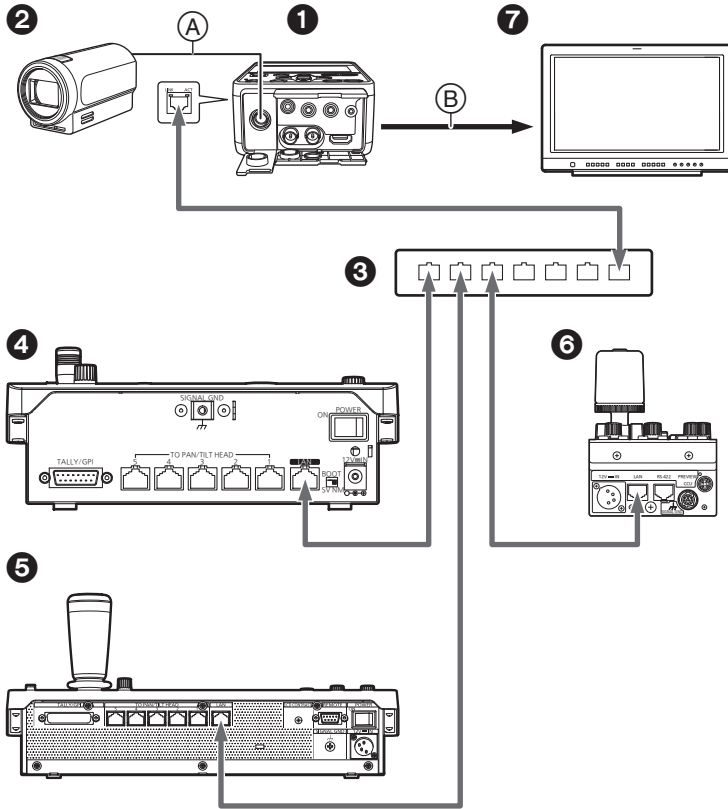
Connecting the HDMI cable to the connector of this unit first may result in malfunction.

- When connecting in SDI Mode, it is possible to change the output method to the external device by setting [SDI MODE SEL].
- The video signal of the SDI output may stop temporarily when the HDMI cable is disconnected and connected or the connected monitor is replaced, for example.

Network connection

Connection with remote camera controller CAM

This unit supports the remote camera controllers AW-RP50/AW-RP120 and the remote operation panel AK-HRP200.
(Connection example)



→ : LAN cable

(A) Camera head option cable

(B) HDMI cable/BNC cable

① AG-MDR25^{*1}

② Camera Head

③ Switching hub

④ Remote camera controller AW-RP50^{*1}

⑤ Remote camera controller AW-RP120^{*2}

⑥ Remote Operation Panel AK-HRP200^{*2}

⑦ External monitor

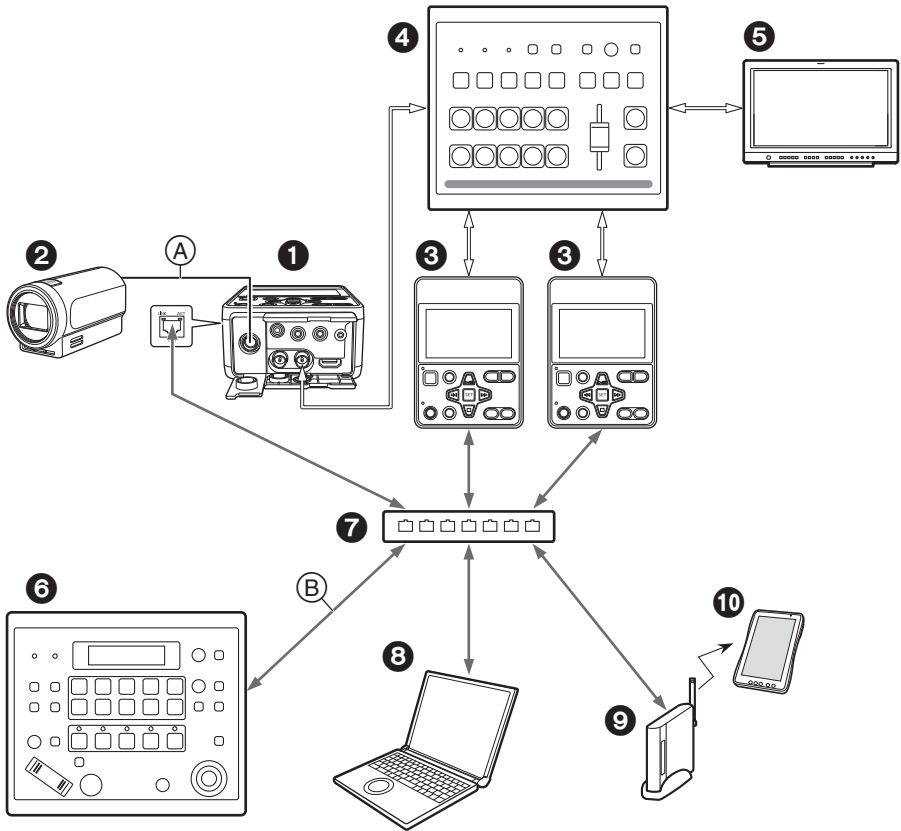
*1 The illustration of the supplied AC adaptor is omitted.

*2 The illustration of the external DC power supply is omitted.

• This unit will automatically recognize straight cables and crossover cables connected to the LAN terminal.

Connection to PC/mobile terminal **CAM** **SDI**

This unit can display an IP image on a PC connected to the network via wired LAN or a mobile terminal connected via a wireless access point.
(Connection example)



➡ : LAN cable
➡ : BNC cable

(A) Camera head option cable or BNC cable*¹
(B) LAN cable (straight cable)

- ➊ AG-MDR25²
- ➋ Camera Head or SDI output device
- ➌ AG-MDR25³ connected to the Camera Head/SDI output device
- ➍ Switcher
- ➎ External monitor

- ➏ Remote camera controller AW-RP50²
- ➐ Switching hub
- ➑ PC
- ➒ Wireless access point
- ➓ Mobile terminal

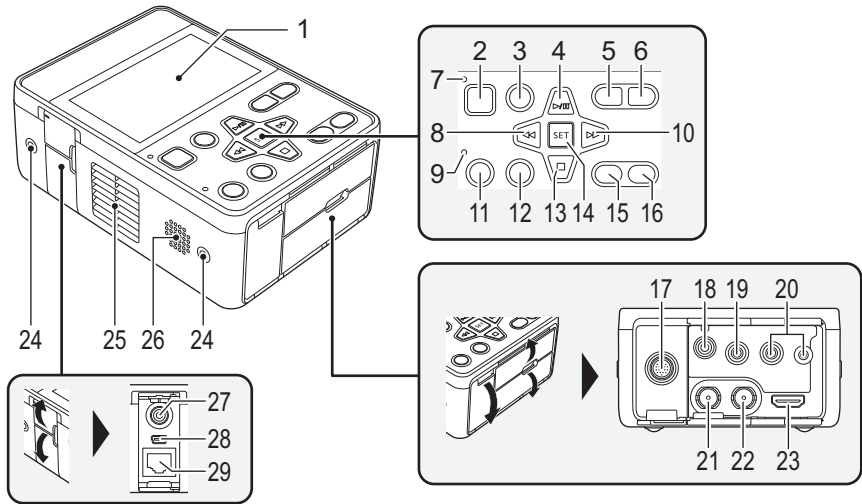
*¹ The cable to be connected and the terminal where the cable plugs in differ depending on the connected device (Camera Head/SDI input device).

*² The illustration of the supplied AC adaptor is omitted.

*³ The illustrations of the Camera Head and SDI output device are omitted.

- This unit will automatically recognize straight cables and crossover cables connected to the LAN terminal.

Names and Functions of Main Parts

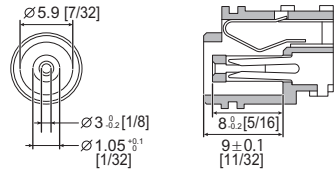


- 1 LCD monitor (Touch screen)
- 2 Power button [O/I] (→ 49)
- 3 Menu button [MENU] (→ 52)
- 4 button
- 5 AUDIO MON/ADV – button
- 6 AUDIO MON/ADV + button
- 7 Status indicator (→ 49)
- 8 button
- 9 Tally lamp
- 10 button
- 11 REC/PAUSE button (→ 57)
- 12 SHIFT button
- 13 button
- 14 SET button
- 15 MODE button
- 16 User 1 button [USER1]
- 17 CAMERA terminal
- 18 Headphone terminal []
- 19 MIC/LINE IN input terminal
- 20 Camera remote terminal [CAM REMOTE]
- FOCUS IRIS terminal (3.5 mm (0.14 ") diameter mini jack)
- ZOOM S/S terminal (2.5 mm (0.1 ") diameter super mini jack)
- 21 SDI IN terminal [HD SDI IN]
- 22 SDI OUT terminal [HD SDI OUT]
- 23 HDMI OUT terminal [HDMI OUT]
- 24 Multipurpose screw hole
- M3 (3 mm (0.1 ") diameter) type screws with lengths up to 8 mm (0.3 ") can be used for the four screw holes on the side of this unit.

- When using screws, do not apply excessive force. Also, if you use a M3 (3 mm (0.1 ") diameter) type screw longer than 8 mm (0.3 ") in length, this unit may be damaged.

- 25 Exhaust opening (cooling fan) (→ 55)
- 26 Speaker
- 27 DC input terminal [DC IN] (→ 45)

- Connect the DC 12 V power source. When the voltage drops to approximately 10 V, if the battery is not connected, the unit will turn off automatically. After that, even if the power supply voltage recovers, it will not turn back on automatically. Please press the power button for at least 2 seconds to turn on the unit.



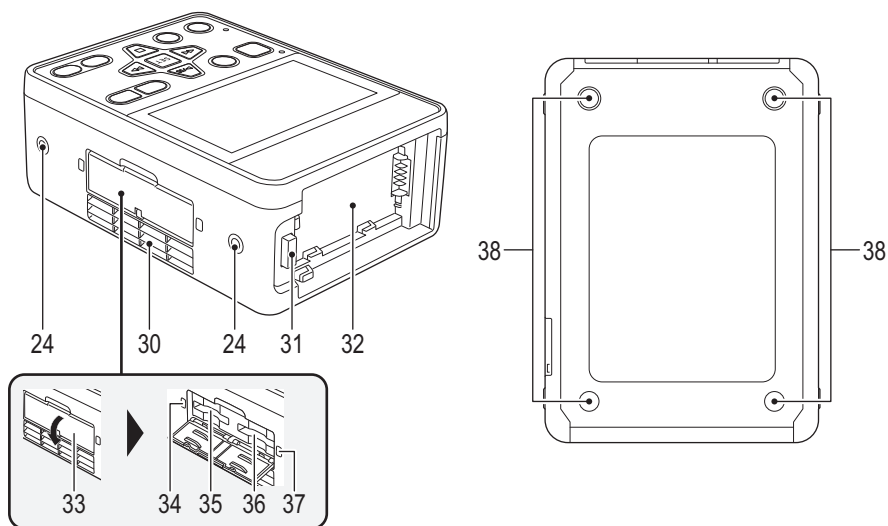
Units: mm [inch]

- 28 USB 2.0 terminal
- 29 LAN connector for IP control [LAN ACT/LINK]

- This LAN connector (RJ-45) is connected when exercising IP control over the unit from an external device. Use a cable with the following specifications for the connection to the LAN connector:

LAN cable* (category 5 or above), max. 100 meters (328 feet)

* Use of an STP (shielded twisted pair) cable is recommended.



- 30 Inlet (cooling fan) (→ 55)
- 31 Battery release button [PUSH]
- 32 Battery holder
- 33 SD Card slot cover (→ 47)
- 34 Access lamp (card 1) (→ 47)
- 35 Card slot 1 (→ 47)
- 36 Card slot 2 (→ 47)
- 37 Access lamp (card 2) (→ 47)
- 38 Setting legs

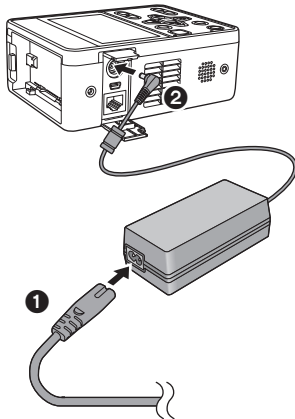
Power supply

Using the AC adaptor

The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always “live” as long as the AC adaptor is connected to an electrical outlet.

Important:

- Use the supplied AC adaptor. Do not use the AC adaptor of another device.
- Do not use the AC cable with any other equipment as it is designed only for this unit. Also, do not use the AC cable from other equipment with this unit.



- 1 Connect the AC cable to the AC adaptor and the AC outlet.
- 2 Connect the AC adaptor to the DC input terminal [DC IN].

- When disconnecting the AC adaptor, be sure to press and hold the power button to turn off the unit, and check that the status indicator has gone out before removing it. (→ 49)

- Insert the plugs as far as they will go.

- 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.
- This unit consumes a small amount of power even when turned off. When leaving the product unused for a long time, disconnect the AC adaptor from the AC outlet for power saving.

Using the battery

■ About batteries that you can use with this unit (as of April 2017)

The battery that can be used with this unit is VW-VBD58/AG-VBR59/AG-VBR89/AG-VBR118.

- The AG-VBR59/AG-VBR89/AG-VBR118 supports quick charging.
- It is recommended to charge with the AG-BRD50 battery charger that supports fast charging.

It has been found that counterfeit battery packs which look very similar to the genuine product are made available to purchase in some markets. Some of these battery packs are not adequately protected with internal protection to meet the requirements of appropriate safety standards. There is a possibility that these battery packs may lead to fire or explosion. Please be advised that we are not liable for any accident or failure occurring as a result of use of a counterfeit battery pack. To ensure that safe products are used we would recommend that a genuine Panasonic battery pack is used.

- For information on how to charge the battery, refer to the Operating Instructions for the battery charger.
- For information such as how to attach the battery, refer to the Operating Instructions (PDF format).

Preparation of SD cards

The unit can record motion pictures or still pictures to an SD card.

- We recommend that you use a Panasonic Memory Card.

Cards that you can use with this unit

■ About the Speed Class ratings for recording motion pictures

- The required card differs depending on the setting of [PRIORITY MODE].
Use a card that meets the following ratings of the SD Speed Class.
Use of a non-compatible card may cause recording to stop suddenly.
- SD Speed Class is the speed standards regarding continuous writing. To check the class, see the labelled side, etc. of the card.

PRIORITY MODE	Speed Class ratings	Label examples
REC/PB(4K)	Class10 or more	CLASS10
REC/PB	Class4 or more	CLASS4

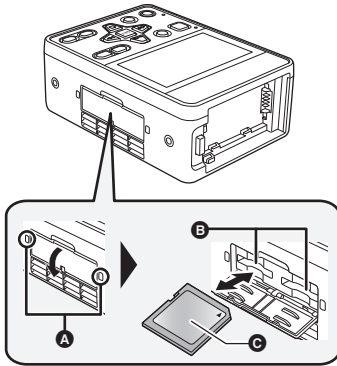
- Keep the Memory Card out of reach of children to prevent swallowing.

Inserting/removing an SD card

When using an SD card for the first time, it is necessary to format the SD card. (→ 56) When the SD card is formatted, all of the recorded data is deleted. Once the data is deleted, it cannot be restored.

Caution:

Check that the access lamp has gone off.



Access lamp **A**

- When this unit is accessing the SD card, the access lamp lights up.

1 Open the SD card slot cover and insert (remove) the SD card into (from) the card slot **B**.

- One SD card can be inserted into each of the card slot 1 and the card slot 2.
- Face the label side **D** in the direction shown in the illustration and press it straight in as far as it will go.
- Press the center of the SD card and then pull it straight out.

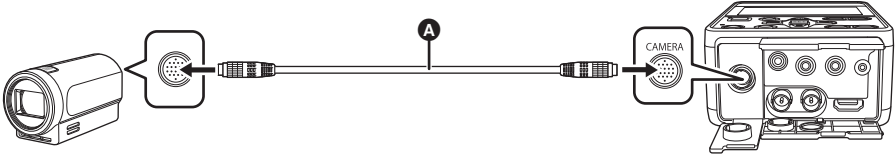
2 Securely close the SD card slot cover.

- Do not touch the terminals on the back of the SD card.
- Do not apply strong shocks, bend, or drop the SD card.
- Electrical noise, static electricity or the failure of this unit or the SD card may damage or erase the data stored on the SD card.
- When the card access lamp is lit, do not:
 - Remove the SD card
 - Turn the unit off
 - Insert and remove the USB Cable
 - Expose the unit to vibrations or shockPerforming the above while the lamp is on may result in damage to data/SD card or this unit.
- Do not expose the terminals of the SD card to water, dirt or dust.
- Do not place SD cards in the following areas:
 - In direct sunlight
 - In very dusty or humid areas
 - Near a heater
 - Locations susceptible to significant difference in temperature (condensation can occur.)
 - Where static electricity or electromagnetic waves occur
- To protect SD cards, return them to their cases when you are not using them.
- About disposing of or giving away the SD card. (→ 34)

Connecting this unit to the Camera Head (CAM Mode)

■ Attaching the Camera head option cable (optional)

Be sure to turn off the unit before attaching the Camera head option cable.



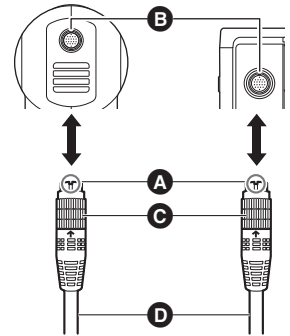
A Camera head option cable

1 Insert Camera head option cable **D** into this unit's **CAMERA** terminal and the Camera Head connecting terminal.

- Align notch **A** of the terminal of the Camera head option cable and guide **B** of the connecting terminal to insert.

2 Turn the Camera head option cable terminal ring **C** clockwise.

- Fix firmly so that there is no looseness.
- This unit will start up in the CAM Mode when it is turned on after connection. The Camera Head is turned on and recording is possible.



■ Removing the Camera head option cable

Be sure to turn off this unit before removing the Camera head option cable.

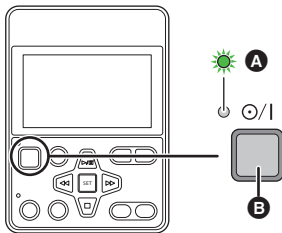
1 Loosen the ring on the terminal of the Camera head option cable by turning it counterclockwise.

2 Hold the ring on the terminal of the Camera head option cable and pull it straight out.

Turning the unit on/off

- The method for turning on the unit depends on the setting of [POWER UP OPTION].

Press power button **B** for 2 seconds or more to turn on the unit.



To turn off the unit

Press the power button for 2 seconds or more.
The status indicator goes off.

- A** The status indicator lights on.
 - Operation Mode icon (**CAM** / **SDI**) is displayed on the screen.
 - **CAM** (CAM Mode): Displayed when the unit is turned on while connected to the Camera Head.
 - **SDI** (SDI Mode): Displayed when the unit is turned on while not connected to the Camera Head. It is also displayed if the unit is turned on while pressing and holding the USER1 button after connecting the Camera Head.
-
- This unit may automatically reboot when turned on in the following cases.
 - When turned on for the first time after connecting this unit with the Camera Head
 - When turned on after connecting this unit with another Camera Head
 The setup of the [SCENE FILE] menu saved in the Camera Head is reflected to this unit after the reboot.
 - When in SDI Mode, to turn on the unit again after [ECONOMY (BATT)] or [ECONOMY (AC)] have worked, press the power button for 2 seconds or longer to turn on the unit.
 - Connecting or removing the Camera Head with this unit turned on may cause this unit and the Camera Head to malfunction. Be sure to turn off this unit before connecting/disconnecting the Camera Head to/from it.
 - If the camera head is faulty, such as a fault or a cable disconnection, [System error. Please turn off.] is displayed on the LCD monitor, recording is not possible.
 - When you switch to Playback Mode or turn off the unit with the power button, the unit memorizes the Camera Head's zoom and focus positions. To start up the Camera Head while maintaining the zoom and focus positions after turning off the unit without pressing the power button, perform the above operation in advance.

Selecting a mode

Switching between the CAM Mode and the SDI Mode

Always turn off this unit and turn it on again when switching between the SDI Mode and the CAM Mode.

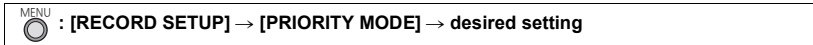
- Connect this unit and the Camera Head when switching to the CAM Mode. (→ 48)
- To boot this unit in the SDI Mode with the Camera Head connected, turn on while pressing and holding the USER1 button.

Switching the priority mode

By switching [PRIORITY MODE], this unit can operate according to various applications.

The items that can be set vary depending on the device to be connected. (CAM Mode: → 48/SDI Mode: → 39)

Select the menu. (→ 52)



○: Recording is possible/—: Recording or distribution is not possible

[PRIORITY MODE] setting	Record to SD card	H.264	JPEG
		IP streaming	
REC/PB(4K) ^{*1}	○ (MP4 ^{*3})	—	Distribution of 1ch is possible
REC/PB ^{*1}	○ (AVCHD)	Distribution of 1ch is possible	
IP(4K) ^{*2}	—	Distribution of 2ch is possible	
IP	—	Distribution of 2ch is possible	

*1 Clips recorded on an SD card can be downloaded to a PC and transferred to an FTP server.

*2 On the Live screen of this unit, 4K image in the H.264 format cannot be displayed. To display 4K images, please use a 4K image-compatible external device or external software.

*3 This unit is not compatible with clips recorded with AVCHD.

- [IP(4K)] and [REC/PB(4K)] are not available in SDI Mode.

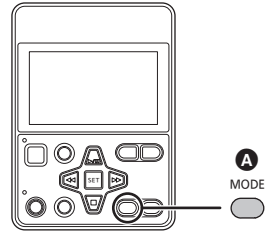
Switching between Recording Mode and Playback Mode

When [PRIORITY MODE] is set to [REC/PB] or [REC/PB(4K)], press the MODE button to switch between Recording Mode and Playback Mode.

- If set to [IP], [IP(4K)], even if the MODE button is pressed, this unit will not enter Playback Mode.

Press the MODE button **A** to switch between Recording Mode and Playback Mode.

Recording Mode (→ 57)	The recording screen is displayed. You can record motion pictures.
Playback Mode (→ 59)	The thumbnail screen for playback is displayed. You can play back clips and still pictures.



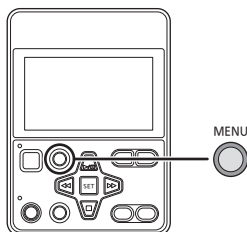
- When you turn on this unit, it starts up in Recording Mode.

■ Switching between Recording Mode and Standby Mode






When [PRIORITY MODE] is set to [IP] or [IP(4K)], press the MODE button to switch between Recording Mode and Standby Mode.

- In Standby Mode, this unit appears as follows.
 - The status indicator flashes slowly.
 - Turn off the LCD monitor of this unit.
 - This unit's SDI output, HDMI output and IP distribution stops.
 - In the CAM Mode, functions other than the Camera Head network function and the cooling fan stop.

Using the menu screen





Menu setting by button operation





- 1 Press the MENU button .
- 2 Press the  /  /  /  buttons to move the cursor to the menu, and press the SET button to select.
- 3 Place the cursor on [EXIT] and press the SET button to finish the menu setting.

■ About page switching





It is not possible to select the  /  /  /  icon with button operation.

If the cursor is on the top item, press the  button, or if the cursor is on the bottom item, press the  button to switch the page.

■ To adjust the numerical value by button operation


In the menu for setting the numerical value, after selecting the numerical display part, press the  /  /  /  buttons to adjust.

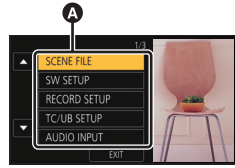
(For example, when adjusting the brightness with [LCD SET])



- 1 Place the cursor on the numerical display **A** and press the SET button to select.
- 2 Press the  /  buttons to adjust the value.
 - When the SET button is pressed, the adjusted value is set.
 - There is also a menu to adjust by pressing the  /  buttons.

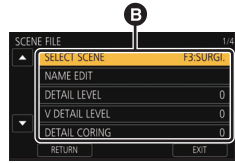


Menu setting by touch screen operation

- 1 Press the MENU button .
- 2 Touch the top menu **A**.



- 3 Touch the submenu **B**.
 - Next (Previous) page can be displayed by touching  / .



- 4 Touch the desired item to enter the setting.
- 5 Touch [EXIT] to exit the menu setting.

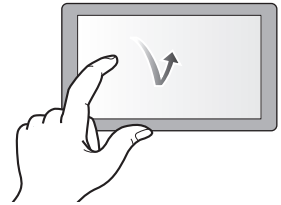
How to use the touch screen

You can operate by directly touching the LCD monitor (touch screen) with your finger.

■ Touch

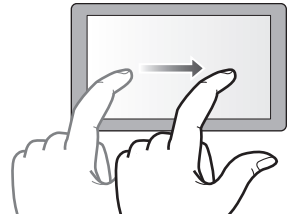
Touch and release the touch screen to select icon or picture.

- Touch the center of the icon.
- Touching the touch screen will not operate while you are touching another part of the touch screen.



■ Slide while touching

Move your finger while pressing on the touch screen.



■ About the operation icons

 /  /  /  :

Touch when changing a page or performing settings.



[RETURN]:

Returns you to the previous screen.

- Do not touch the LCD monitor with hard pointed tips, such as ball point pens.

Setting date and time

When this unit is turned on, the message [SET TIME ZONE AND DATE/TIME] may appear. To make these settings, select [YES], and follow the instructions from Step 2-3 of the time zone setting procedure.

Time zone

Time difference from the Greenwich Mean Time can be set.

1 Select the menu. (→ 52)

 : [OTHER FUNCTION] → [TIME ZONE]

2 Touch / and set the region to record.


3 Touch [ENTER] to complete the setting.

- If the [CLOCK SET] screen appears, perform [CLOCK SET].
- Touch [EXIT] to close the menu screen.

- When the time zone setting is changed, the date/time setting of the unit also changes automatically.

Clock setting

1 Select the menu. (→ 52)

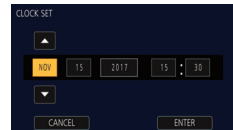
 : [OTHER FUNCTION] → [CLOCK SET]

2 Touch the date or time to be set, then set the desired value using / .

- The year can be set between 2000 and 2035.

3 Touch [ENTER] to complete the setting.

- Touch [EXIT] to close the menu screen.



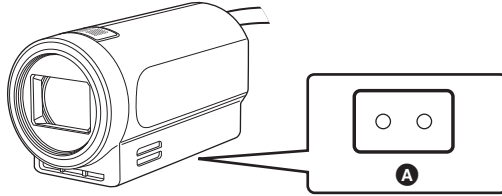
- The date and time function is driven by a built-in lithium battery.
- If the time display becomes [- -], the built-in lithium battery needs to be charged. To recharge the built-in lithium battery, connect the AC adaptor or attach a charged battery to this unit. Leave the unit as it is for approx. 24 hours and the battery will maintain the date and time for approx. 6 months. (The battery is still being recharged even if the unit is off.)
- The way that time is displayed can be changed in the menu settings.
[DISP SETUP] → [DATE/TIME] or [DATE FORMAT]

Before recording

- When recording, make sure your footing is stable and there is no danger of colliding with another person or object.
- When you are outdoors, record pictures with the sunlight behind you. If the subject is backlit, it will become dark in the recording.
- For stable images, it is recommended to use a tripod whenever possible.
- Do not block the air inlet or exhaust opening of the cooling fan of this unit or the Camera Head with your hands, etc.

■ To fix the Camera Head to a tripod CAM

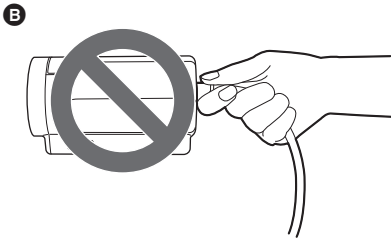
Attach the tripod to the tripod mounting hole of the Camera Head.



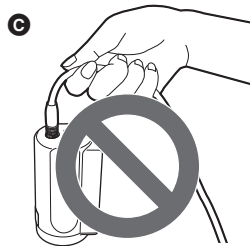
A Tripod mounting hole

- The depth of the screw hole in the tripod mounting hole is 6 mm (0.24 "). When attaching this unit to a tripod or the like, do not tighten the screw with excessive force. Also, if screws other than 1/4-20 UNC type are used, the Camera Head may be damaged.

-
- When fixing to something other than a tripod, pay attention to the following points.
 - Use the tripod mounting hole to fix securely
 - Do not block the Camera Head inlet, exhaust opening or built-in microphone with fixing parts
 - If the Camera Head is held as shown below, a heavy load will be applied to the cable and the terminal, which may cause damage. Also, be careful as the cable may come off and the Camera Head may fall or collide with the surrounding walls and be damaged.



B Hold the cable only or fix




C Hold the cable only and suspend this unit

Selecting a media to record

You can specify the card slot to which motion pictures are to be recorded.

Select the menu.

 : [RECORD SETUP] → [MEDIA SELECT] → [SD CARD 1]/[SD CARD 2]

- You can also change the card slot used for motion picture recording by pressing the USER button to which <SLOT SEL> is registered or touching the applicable USER button icon while recording is paused.
- If [PRIORITY MODE] is [IP] or [IP(4K)], it cannot be set.


Formatting media

If you use the SD cards for the first time for recording with this unit, format the cards.

Please be aware that if a medium is formatted, then all the data recorded on the medium will be erased and cannot be restored. Back up important data on a PC etc.

- When using two SD cards, format both SD cards.

1 Select the menu.

 : [CARD FUNCTION] → [FORMAT CARD]

2 Touch [SD CARD 1] or [SD CARD 2].

- When formatting is complete, touch [EXIT] to exit the message screen.

- Do not turn this unit off or remove the SD card, while formatting. Do not expose the unit to vibrations or shock.

Use this unit to format media.


Do not format an SD card using any other equipment such as a PC. Otherwise it may not be possible to use the card on this unit.

System frequency Selection


Set the system frequency of this unit.

Select the menu.

(In Recording Mode)

 : [RECORD SETUP] → [SYSTEM FREQ] → desired setting

(In Playback Mode)

 : [OTHER FUNCTION] → [SYSTEM FREQ] → desired setting

[59.94Hz]: The system frequency for NTSC television broadcasting system regions

[50.00Hz]: The system frequency for PAL television broadcasting system regions

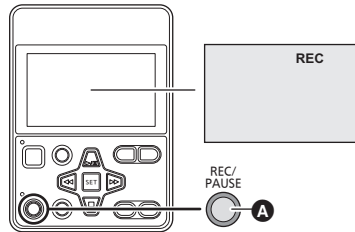
- After you have changed the system frequency, this unit will be restarted automatically.
- By default, the system frequency is set to the broadcasting system of the region where this product was purchased.
- When recording [PRIORITY MODE] with [REC/PB], clips with different system frequencies cannot be recorded on one SD card. Please prepare an SD card for each system frequency.

Record on SD card

1 Set [PRIORITY MODE] to [REC/PB] or [REC/PB(4K)] to switch to Recording Mode. (→ 50, 51)

2 Press REC/PAUSE button **A** to start recording.

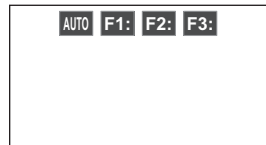
- When recording starts, REC (red) appears on the screen and the tally lamp lights up.
- Press again to stop recording.



Switch Recording Mode

There are four Recording Mode presets according to the recording situation on this unit. ([AUTO]/[F1:]/[F2:]/[F3:]) Touch the appropriate operation icon to switch between Auto Mode ([AUTO]) and Manual Mode ([F1:], [F2:], [F3:]).

Touch **AUTO**, **F1:**, **F2:** or **F3:** to switch between Auto Mode and Manual Mode.



AUTO :

The optimum setting adjustment is automatically performed according to the recording conditions.

F1: / **F2:** / **F3:** *

Make detailed settings manually according to the recording conditions and preferences.

* It is possible to save your favorite image settings to each scene number. Please switch the scene number according to the recording situation. Please read the Operating Instructions (PDF format) for the image settings that can be saved.

- If the screen is touched while the operation icons are displayed, or if there is no touch operation for a period of time, the operation icons will disappear. To display again, touch the screen.
- You can also switch between Auto Mode and Manual Mode by setting the menu. [SCENE FILE]→[SELECT SCENE]

■ About Auto Mode

In Auto Mode, the following menu items are set automatically. Their settings cannot be changed.

Menu item	Setting
[SCENE FILE] → [DETAIL LEVEL]	0
[SCENE FILE] → [V DETAIL LEVEL]	0
[SCENE FILE] → [DETAIL CORING]	0
[SCENE FILE] → [SKIN TONE DTL]	OFF
[SCENE FILE] → [CHROMA LEVEL]	0
[SCENE FILE] → [CHROMA PHASE]	0
[SCENE FILE] → [COLOR CORRECTION SETTING]	All setup values are set to 0
[SCENE FILE] → [MASTER PED]	0
[SCENE FILE] → [GAMMA]	HD NORM
[SCENE FILE] → [BLACK GAMMA]	0
[SCENE FILE] → [KNEE]	AUTO
[SCENE FILE] → [DRS]	OFF
[SCENE FILE] → [NR CONTROL]	0
[SW SETUP] → [IRIS MODE]	AUTO
[SW SETUP] → [GAIN MODE]	AUTO
[SW SETUP] → [SUPER GAIN]	OFF

■ Controls that are disabled in Auto Mode

In Auto Mode, the following operation is invalid.

- pressing the USER button set for <SUPER GAIN>

Recording


CAM


Using the zoom

The unit can deliver a maximum optical zoom of 20×.

- You can check the zoom magnification on-screen, displayed as a value between Z00 and Z99. The value gets larger as you zoom in, and smaller as you zoom out.

Press the  /  buttons to zoom.

 : Close-up recording (zoom in)

 : Wide-angle recording (zoom out)

■ About the zoom speed

- Hold down the button to perform zoom operation at low speed and press and hold the button after pressing twice in succession to zoom in at high speed

- It is also possible to zoom in at low speed by pressing the USER buttons that are set for <ZOOM T> or <ZOOM W>.
- If the Camera Head and the unit are close to each other, when your finger is released from the button during the zoom operation, the operation sound may be recorded. When you release the button, please return it gently.
- Even if you turn off the unit, the zoom magnification from the last time the unit was turned off with the power button or switched to Playback Mode will be maintained.
- When the zoom magnification is at the maximum magnification, the minimum focusing distance is approximately 1.5 m (4.9 feet).
- When the zoom magnification is ×1, the minimum focusing distance is approximately 3 cm (1.2").
- The sound of the zoom mechanism becomes louder than usual during fast zoom operation. This may cause the sound to be recorded during recording.
- Depending on the subject, Auto Focus may not track it when Fast Zoom is in use.



Clip/Still picture playback

1 Set this unit to playback mode. (→ 51)

2 Touch the play mode select icon **A**.



Card display

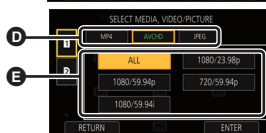
The selected card slot is displayed in yellow.

3 Select the card slot **C** you wish to play back.



4 (When setting to clip Playback Mode)

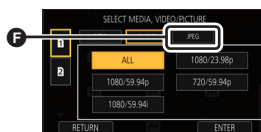
Touch the desired recording mode **D** and recording format **E** for playback.



- To play clips recorded with [PRIORITY MODE] set to [REC/PB(4K)] in Recording Mode, touch Recording Mode [MP4].
To playback recorded clips set to [REC/PB], touch Recording Mode [AVCHD].
- When there is a recorded clip in Recording Mode, the text color is displayed in green.
- The available recording format options differ depending on [SYSTEM FREQ] (→ 56) or the recording mode option you have touched.
- Next (Previous) page can be displayed by touching **▲** / **▼**.
- Touch [ENTER].
- A recording mode icon **B** will be displayed on the thumbnail display. ([MP4] / [AVCHD])
(If you have touched the recording mode option [MP4])
- When you touch recording format, the **4K** icon is displayed in the thumbnail.
- If you touch the recording format option [ALL], all clips of the same recording mode in the selected area are displayed.
For clips with different system frequencies, **▷** **⊗** is displayed in the thumbnail. You can play them back by changing the [SYSTEM FREQ] setting. (→ 56)
- (If you have touched the recording mode option [AVCHD])
After you have touched a recording format option, one of the following icons will be displayed on each thumbnail.
 - [PS]** : Clip recorded with: [PS 1080/59.94p]/[PS 1080/50.00p]
 - [PH]** : Clip recorded with: [PH 1080/59.94i]/[PH 1080/23.98p]/[PH 720/59.94p]/[PH 1080/50.00i]/[PH 720/50.00p]
 - [HA]** : Clip recorded with: [HA 1080/59.94i]/[HA 1080/50.00i]
 - [HE]** : Clip recorded with: [HE 1080/59.94i]/[HE 1080/50.00i]
 - [PM]** : Clip recorded with: [PM 720/59.94p]/[PM 720/50.00p]

(To set this unit to Still Picture Playback Mode)

Touch the still picture (JPEG) **F**.



5 Touch the clip or the still picture to be played back.

- Next (Previous) page can be displayed by touching ▲ / ▼.
- You can change the playback media by pressing the USER button to which <SLOT SEL> is registered.



6 Select the playback operation by touching the operation icon.



G Operation icon

- If you touch the screen while an operation icon is being displayed or do not touch the icon for a certain period, it will disappear. To display again, touch the screen.

Clip playback	Still picture playback
<p>▶/ : Playback/Pause</p> <p>◀◀: Fast rewind playback^{*1, 2}</p> <p>▶▶: Fast forward playback^{*1, 2}</p> <p>■: Stops the playback and shows the thumbnails.</p>	<p>▶/ : Slide show (playback of the still pictures in numerical order) start/pause.</p> <p>◀ : Plays back the previous picture.</p> <p> ▶: Plays back the next picture.</p> <p>■: Stops the playback and shows the thumbnails.</p>

- Playback is also possible by pressing the / / / buttons.
 - : Play/stop clip, start/pause slide show
 - : Fast rewind^{*1, 2}, play the previous still picture
 - : Fast forward^{*1, 2}, play the next still picture
 - : Stop and return to thumbnail display

*1 If you touch twice or push the button twice, the fast rewind/fast forward speed will become faster. (Screen display will change to ◀◀ / ▶▶ .)

*2 When pressed during clip playback

- If the unit is switched to Playback Mode, the status of the unit displayed on the web screen^{*3} of the PC/mobile terminal connected to the unit via a network will be switched to standby mode.

*3 For details about the web screen, refer to the Operating Instructions (PDF format).

About copyright

■ Carefully observe copyright laws

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See <http://www.mpegla.com>

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Contact Information:

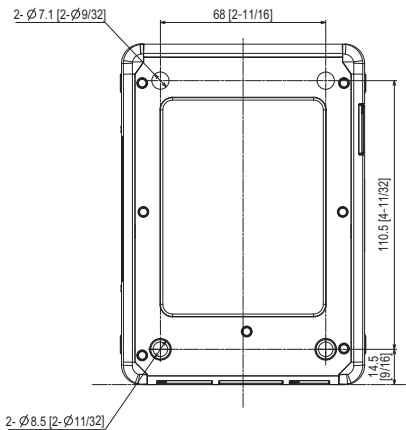
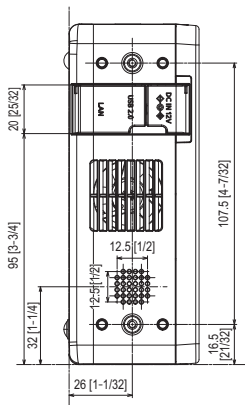
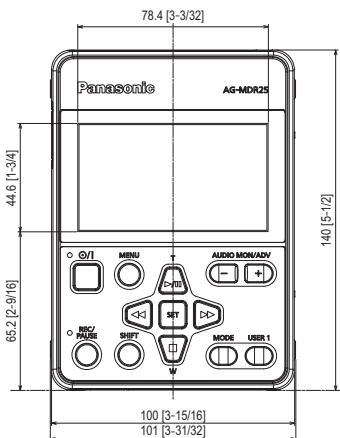
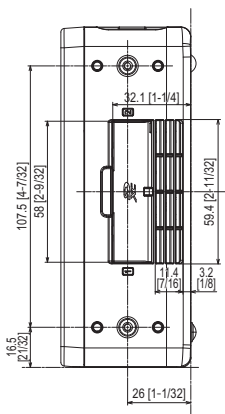
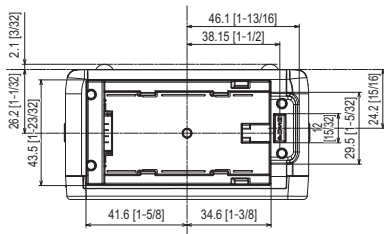
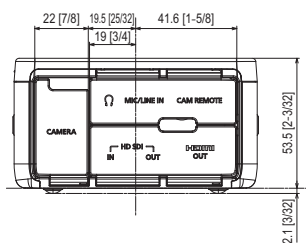
oss-cd-request@gg.jp.panasonic.com

The source code and the copyright notice are also available for free in our website below.
<https://panasonic.net/cns/oss/index.html>

Specification

Memory Card Portable Recorder

Appearance (Unit: mm [inch])




General

Power:

DC 7.28 V (When using battery)
DC 12 V (When using AC adaptor)

Current consumption:

When only SDI recording is used;
1.1 A (When using battery)
0.7 A (When using AC adaptor)
When the special optional camera head
(AG-MDC20G) is connected for recording;
2.2 A (When using battery)
1.4 A (When using AC adaptor)

 indicates safety information

Ambient operating temperature:

0 °C to 40 °C (32 °F to 104 °F)

Ambient operating humidity:

10%RH to 80%RH (no condensation)

Storage temperature:

-10 °C to 60 °C (14 °F to 140 °F)

Storage humidity:

30%RH to 80%RH

Storage atmospheric pressure:

500 hPa to 1060 hPa

Mass (Weight):

Approx. 590 g (Approx. 1.3 lbs.)

Dimensions (W×H×D):

100 mm×53.5 mm×140 mm
[3-15/16 "×2-3/32 "×5-1/2 "]
(excluding protrusions)


AC adaptor

Power source:

AC ~ 100 V to 240 V,
50 Hz/60 Hz, 1.2 A

Power output:

DC == 12 V, 3.0 A

 indicates safety information

Ambient operating temperature:

0 °C to 40 °C (32 °F to 104 °F)

Ambient operating humidity:



10%RH to 90%RH (no condensation)

Approx. 225 g (Approx. 0.496 lbs.)

Dimensions (W×H×D):

115 mm×37 mm×57 mm
[4-1/2 "×1-7/16 "×2-1/4 "]
(Excluding the DC cord portion)

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

~	AC
==	DC
	Class II equipment (The construction of the product is double-insulated.)
	ON
	Standby

Декларація про Відповідність
Вимогам Технічного Регламенту Обмеження Використання деяких Небезпечних Речовин в
електричному та електронному обладнанні
(затвердженого Постановою №1057 Кабінету Міністрів України)

Виріб відповідає вимогам Технічного Регламенту Обмеження Використання деяких
Небезпечних Речовин в електричному та електронному обладнанні (ТР ОВНР).

Вміст небезпечних речовин у випадках, не обумовлених в Додатку №2 ТР ОВНР, :

- 1.свинець(Pb) – не перевищує 0,1 % ваги речовини або в концентрації до 1000 частин на мільйон;
- 2.кадмій (Cd)– не перевищує 0,01 % ваги речовини або в концентрації до 100 частин на мільйон;
- 3.ртуть(Hg) – не перевищує 0,1 % ваги речовини або в концентрації до 1000 частин на мільйон;
- 4.шестивалентний хром (Cr⁶⁺) – не перевищує 0,1 % ваги речовини або в концентрації до 1000 частин на мільйон;
- 5.полібромбіфеноли (PBB) – не перевищує 0,1 % ваги речовини або в концентрації до 1000 частин на мільйон;
- 6.полібромдефенілові ефіри (PBDE) – не перевищує 0,1 % ваги речовини або в концентрації до 1000 частин на мільйон.



Manufactured by: Panasonic Corporation, Osaka, Japan
Importer's name and address of pursuant to EU rules:
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

Panasonic Corporation
Web site: <http://www.panasonic.com>

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