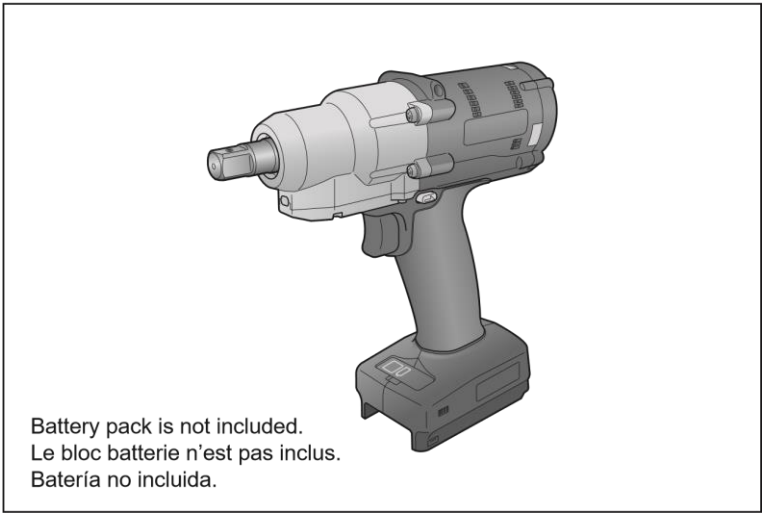
Operating Instructions
(Simplified version)
Instructions d'utilisation
(Version simplifiée)
Manual de instrucciones
(Versión simplificada)

Panasonic®

Cordless Electronic Mechanical Pulse Wrench
Sans fil Clé à impulsion mécanique électronique
Inalámbrica Llave de impulso mecánica electrónica

Model No.: EYFMH1WC / EYFMH2WC
EYFMH1WP / EYFMH2WP
EYFNH1WP / EYFNH1WC



Battery pack is not included.
Le bloc batterie n'est pas inclus.
Batería no incluida.

IMPORTANT Read and follow the safety and operating instructions before using this product.
Do not use the wireless function outside the country where you purchased the product. Doing so may violate the local laws and regulations.

IMPORTANT Lisez et suivez les instructions d'utilisation et de sécurité avant d'utiliser ce produit.
N'utilisez pas la fonction sans fil en dehors du pays où vous avez acheté le produit. Cela pourrait enfreindre les lois et réglementations locales.

IMPORTANTE Lea y siga las instrucciones de seguridad y operación antes de usar este aparato.
No utilice la función inalámbrica fuera del país donde adquirió el producto. Hacerlo podría infringir las leyes y normativas locales.

ACCUPULSE 4.0
TRANSDUCERIZED

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The dimmed contents are out of the scope of this simple operating instructions.

To read all contents of explanation about the product, access the operating instructions (download version) available as electronic data.

How to access: Refer to 1.1.2

Original instructions: English
Translation of the original instructions:
Other languages

1. BEFORE USE

1.1 GETTING STARTED

1.1.1 OBTAINING THE TOOL MANAGER SOFTWARE

To use this product, it is necessary to set its parameters using the dedicated software (Tool Manager).
First, obtain the Tool Manager software by following the procedure below.

Preparation:
Prepare a PC or tablet with the supported OS installed.

Supported OS:
Windows10 Home, Windows10 Pro, Windows10 Enterprise

Access the following download site and download the installer of the Tool Manager software.

The Tool Manager software download site.
https://panasonic.net/electricworks/ecm/powerelctrictools/download/

• Please use the latest version.

1.1.2 OBTAINING THE OPERATING INSTRUCTIONS (DOWNLOAD VERSION)

This simple operating instructions contains simplified explanation about the product by extracting a part of the complete operating instructions.
To read all contents of explanation about the product, access the download version of the operating instructions available as electronic data.

Access the following download site and download the Operating Instructions of EYFMH1WC or EYFMH2WC.

For full version Operating Instructions, please refer to the web site.
https://panasonic.net/electricworks/ecm/powerelctrictools/download/

1.2 SAFETY PRECAUTIONS

1.2.1 GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool.
Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Save all warnings and instructions for future reference.

1) Work Area Safety

a) Keep work area clean and well lit.
Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool.
Distractions can cause you to lose control.

2) Electrical Safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.
Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.
There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions.
Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.
Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.
Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.
Use of an RCD reduces the risk of electric shock.

3) Personal Safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection.
Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.
Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on.
A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times.
This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.
Loose clothes, jewelry or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.
Use of dust collection can reduce dust-related hazards.

h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.
A careless action can cause severe injury within a fraction of a second.

4) Power Tool Use and Care

a) Do not force the power tool. Use the correct power tool for your application.
The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off.
Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.
Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
Power tools are dangerous in the hands of untrained users.

e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool’s operation. If damaged, have the power tool repaired before use.
Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean.
Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.
Use of the power tool for operations different from those intended could result in a hazardous situation.

h) Keep handles and grasping surfaces dry, clean and free from oil and grease.
Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Battery Tool Use and Care

a) Recharge only with the charger specified by the manufacturer.
A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

b) Use power tools only with specifically designated battery packs.
Use of any other battery packs may create a risk of injury and fire.

c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.
Shorting the battery terminals together may cause burns or a fire.

d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.
Liquid ejected from the battery may cause irritation or burns.

e) Do not use a battery pack or tool that is damaged or modified.
Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

f) Do not expose a battery pack or tool to fire or excessive temperature.
Exposure to fire or temperature above 130 °C (266 °F) may cause explosion.

g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.
Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

6) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts.
This will ensure that the safety of power tool is maintained.

b) Never service damaged battery packs.
Service of battery packs should only be performed by the manufacturer or authorized service providers.

Screwdrivers/impact wrenches safety warnings

Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring.
Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

1.2.2 ADDITIONAL SAFETY RULES

1) Wear ear protectors when using the tool for extended periods.
Prolonged exposure to high intensity noise can cause hearing loss.

2) Be aware that this tool is always in an operating condition, since it does not have to be plugged into an electrical outlet.

3) Do not touch the rotating parts to avoid injury.

4) Do not use the tool continuously for a long period of time. Stop using the tool from time to time to avoid temperature rise and heat overload of the motor.

5) Do not drop the tool.

6) Make sure to push the USB connector cover all the way in before starting work.

Symbol	Meaning
V	Volts
⎓	Direct current
n_0	No load speed
...min^{-1}	Revolutions or reciprocations per minutes
Ah	Electrical capacity of battery pack
	To reduce the risk of injury, user must read and understand operating instructions.
	Do not incinerate or heat battery pack. Do not charge or use under conditions of high temperature. Do not expose to high temperatures.
	Do not disassemble or modify.
	Do not expose to rain or water.

⚠ WARNING:

- Do not use other than the Panasonic battery packs that are designed for use with this rechargeable tool.
- Panasonic is not responsible for any damage or accident caused by the use of recycled or counterfeit battery pack.
- Do not dispose of the battery pack in a fire, or expose it to excessive heat.
- Do not allow metal objects to touch the battery pack terminals.
- Do not carry or store the battery pack in the same container as nails or similar metal objects.
- Do not charge the battery pack in a high-temperature location, such as next to a fire or in direct sunlight. Otherwise, the battery may overheat, catch fire, or explode.
- After removing the battery pack from the tool or the charger, always reattach the pack cover. Otherwise, the battery contacts could be shorted, leading to a risk of fire.
- When the Battery Pack Has Deteriorated, Replace It with a New One. Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

- To prevent leakage, overheating, smoke generation, fire, and rupturing from occurring, follow these instructions when handling our rechargeable power tools (tool main body/battery pack/charger).
  - Do not allow material cuttings or dust to fall onto the battery pack.
  - Before storing, remove any material cuttings and dust from the battery pack, fit red plastic “terminal cover”, then place separately from metal objects (screws, nails, etc.) in tool case. Damage caused by loose objects in the case will not be covered by warranty.
- Do not handle the rechargeable power tools in the following way. (There is a hazard of smoke generation, fire, and rupturing)
  - Use or leave in places exposed to rain or moisture
  - Use submerging in water

1.2.3 INTENDED USE

This tool is a Cordless Mechanical Pulse Wrench and can be used to tighten bolts, nuts, and screws. Additionally, it provides a torque control function that automatically stops tool operation when a preset load is reached to deliver consistent tightening torque.

IMPROPER USE

The use of the tool other than INTENDED USE is dangerous and must be avoided. The tool must not be used for the purposes such as the following;

- to mix paint or building materials,
- polishing, grinding, sharpening, engraving.

RESIDUAL RISK

Some residual risks remain even with proper use of the tool such as the following;

- contact with the rotating bit
- contact with the sharp edges of material or something.

To read the following contents, access the operating instructions (download version) available as electronic data.

How to access: Refer to 1.1.2

1.3 FUNCTIONAL DESCRIPTION
1.4 EXTRA-COST OPTIONS
1.5 WIRING DIAGRAM
1.6 CHARGING
1.7 TOOL SETUPS BEFORE USE

2. OPERATION

To read the following contents, access the operating instructions (download version) available as electronic data.

How to access: Refer to 1.1.2

2.1 BASIC OPERATION
2.1.1 OPERATION MODE OF THE TOOL
2.1.2 TORQUE CONTROL FUNCTION
2.1.3 HOW TO USE
2.1.4 TIGHTENING CONFIRMATION LAMP AND COMMUNICATION LAMP
2.1.5 CONTROL PANEL FUNCTIONS

2.2 USING THE TOOL MANAGER SOFTWARE

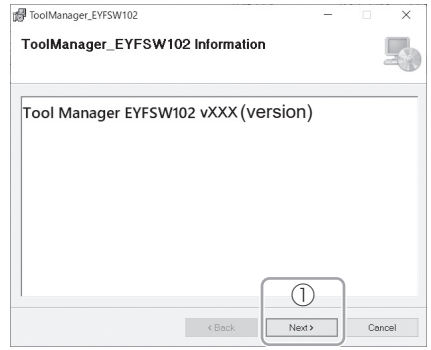
2.2.1 INSTALLING AND UPDATING THE TOOL MANAGER SOFTWARE

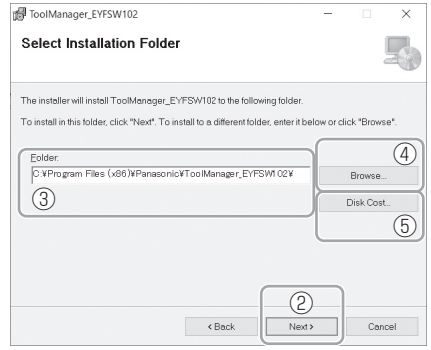
Before using the tool, install the Tool Manager software in your PC or tablet by following the procedure below.

Preparation:
Prepare a PC or tablet with the supported OS installed.

Supported OS:
Windows10 Home, Windows10 Pro, Windows10 Enterprise

1. Download the installer of the Tool Manager software from our website. (For how to download the Tool Manager software, Refer to 1.1.1)
2. Open the folder where you saved the downloaded installer and start “Install.exe”.
3. When the installer is displayed, select [Next] (①).
4. The screen to select an installation folder is displayed.
   To install the software in the default folder, select [Next] (②). To install it in another folder, enter a folder path in “Folder” (③) or select [Browse] (④) and then select a desired installation folder.
   You can check whether the installation drive has enough capacity by selecting [Disc Cost] (⑤).





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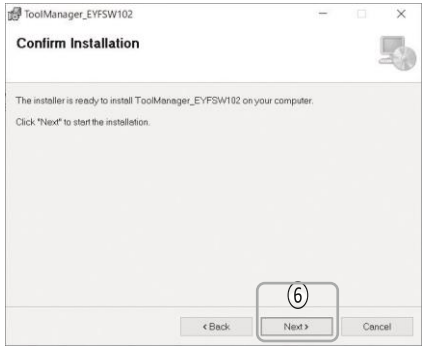
5 When the screen to confirm installation is displayed, select [Next] (⑥).

6 When the Windows dialog is displayed asking whether to allow the application to make a change to your device, select [Yes].

7 Installation of the Tool Manager software starts.
When the notification that the installation has been successfully completed is displayed, select [Close] (⑦).



8 The installation is completed if you find the Tool Manager icon on the desktop.

To read the following contents, access the operating instructions (download version) available as electronic data.

How to access: Refer to 1.1.2

3. SPECIFICATIONS

3.1 SPECIFICATIONS

EN

Model No.		EYFMH1WC EYFMH1WP	EYFMH2WC EYFMH2WP	EYFNH1WC EYFNH1WP ※1
Wrench size		□12.7 mm (1/2″)		
Motor voltage		14.4 V DC		18 V DC
No-load speed		0 to about 2300 min $^{-1}$ (The maximum speed can be set from about 1500 to 2300 min $^{-1}$.)		0 to about 1900 min $^{-1}$ (The maximum speed can be set from about 1300 to 1900 min $^{-1}$.)
Number of pulses		0 to about 2700 min $^{-1}$	0 to about 2600 min $^{-1}$	0 to about 2400 min $^{-1}$
Dimensions	Overall length	About 215 mm (8-15/32″)		About 265 mm (10-7/16″)
	Overall height	EYFB41 used: 246 mm (9−11/16″) EYFB43 used: 264 mm (10-13/32″)		EYFB50 used: 294 mm (11−9/16″) EYFB51 used: 278 mm (10-15/16″)
	Overall width	About 61 mm (2-13/32″) (Maximum battery pack width: 75 mm (2-15/16″))		About 76 mm (3″)
Mass (Weight)		EYFB41 used: About 1.8 kg (4.0 lbs) EYFB43 used: About 2.05 kg (4.5 lbs)		EYFB41 used: About 1.8 kg (4.0 lbs) EYFB43 used: About 2.05 kg (4.5 lbs)
Wireless Communication Standard		Wireless LAN (IEEE802.11a/b/g/n) n: HT20 only		
Frequency band		2.412-2.462 GHz / 5.180-5.240 GHz		
Number of channels		2.4 GHz: 1 to 11 channels / 5 GHz: 36, 40, 44, 48 channels		
USB connector specifications		※1 USB Type-C™		
Number of tool history logs that can be saved (in [Stand Alone Mode])		About 45000 bolts (at 1.2 s work)		
Number of tool parameters that can be held (in [Stand Alone Mode])		1 parameter		
Charging time (when EY0L82B battery charger used)		EYFB41; Charging for practical use: 35 minutes, Full charging: 40 minutes EYFB43; Charging for practical use: 45 minutes, Full charging: 60 minutes EYFB50; Charging for practical use: 65 minutes, Full charging: 80 minutes EYFB51; Charging for practical use: 45 minutes, Full charging: 60 minutes		

1 USB Type-C is a trademark of USB Implementers Forum.

3.4 PRECAUTIONS FOR WIRELESS COMMUNICATION

Cautions for using a WLAN device

The device uses a frequency band shared with other types of equipment including industrial, scientific, and medical devices (e.g., a microwave) and radio stations such as a premises radio station (licensed) and low-power radio station (unlicensed) for mobile identification used in factory manufacturing lines and an amateur radio station (licensed).

1. Before using the device, confirm that there is no premises or low-power radio station for mobile identification or no amateur radio station operating in the vicinity.
2. If the device causes harmful interference with a premises radio station for mobile identification, stop use of the band immediately and consult the support centre below for the solution of the interference problem (e.g., installing a partition).
3. If the device causes harmful interference with a premises or low-power radio station for mobile identification or an amateur radio station or such other problems, consult the support centre.

■ There may be noise, shorter radio coverage, or malfunction occurring in the following environmental conditions.

- There is an obstruction (e.g., a metal or reinforced concrete object) that prevents smooth radio propagation between the wireless-enabled tool unit and the controller.
- The antennas of the controller are covered with metal.
- An operator's body is interfering with radio propagation between an operator (the wireless-enabled tool unit) and the controller.
- There is a microwave, PC, or any other device causing noise in the vicinity.
- A cell-phone or PHS phone is used near the wireless-enabled tool unit and the controller.

3.5 STATEMENT OF EXPLANATORY TEXT FOR VARIOUS REQUIREMENTS

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.

FCC Caution: To assume continued compliance, install and use in accordance with provided instructions. Use only the battery pack specified in the instructions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CAUTION

- When using, connect only the accessory USB cable (EYFMH1XL701W) to the tool side.
- A ferrite core is connected to the accessory USB cable (EYFMH1XL701W). Use the USB cable (EYFMH1XL701W) without removing the ferrite core.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

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

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. Cordless Electronic Mechanical Pulse Wrench has been tested and found to comply with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

For indoor use only.

To read the following contents, access the operating instructions (download version) available as electronic data.

How to access: Refer to 1.1.2

3.2 SPECIFICATIONS OF THE TOOL MANAGER SOFTWARE
3.3 PAIRING WITH THE CONTROLLER

4. MAINTENANCE AND TROUBLESHOOTING

4.4 LICENSE TERMS

SOFTWARE LICENSE TERMS

This product consists of following types of software.

(1) Software developed independently by Panasonic Corporation (Panasonic)
(2) Software that a third party holds and is licensed to Panasonic
(3) Open-source software

The software in the category (3) above is distributed in anticipation of being useful on a standalone basis; however, we make no warranty of any kind, including not making an implied warranty of “merchantability” or “fitness for particular purpose.”

Please refer to the detailed terms, conditions and the copyright notice thereof shown in the instruction manual available from the following website.

https://panasonic.net/electricworks/ecm/powerelctrictools/download/

To read the following contents, access the operating instructions (download version) available as electronic data.

How to access: Refer to 1.1.2

[MAIN UNIT]

This Product is certified
Ce produit est homologue
Producto homologado por

Intertek
5007005

CONFORMS TO UL
STD 62841-1
62841-2-2

CERTIFIED TO CAN/CSA STD
C22.2 NO 62841-1
62841-2-2

The Tool Manager software download site
Site de téléchargement du logiciel Tool Manager
El sitio de descarga del software Tool Manager

https://panasonic.net/electricworks/ecm/powerelctrictools/download/

Contact Support :
Soutien technique :
Apoyo técnico :

The United States:
Pour les États-Unis :
Los Estados Unidos:
https://na.panasonic.com/us/support/references/136

Canada:
Canada :
Canadá:
https://na.panasonic.ca/contact-us

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