Panasonic

Operating Instructions **Battery Charger**

Model No.

VW-BC10

VQT2T16 F0110AK0

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ENGLISH

Thank you for purchasing this Panasonic product.

Before connecting, operating or adjusting this product, please read the instructions completely.

Safety Precautions

Battery Charger

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT

- DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- USE ONLY THE RECOMMENDED ACCESSORIES.
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION!

- DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT **OBSTRUCT THE VENTILATION VENTS.**
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

The socket outlet shall be installed near the equipment and easily accessible The mains plug of the power supply cord shall remain readily operable. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

Product Identification Marking is located on the bottom of unit

The Battery Charger is in the standby condition when mains plug is connected. The primary circuit is always "live" as long as the mains plug is connected to an electrical outlet.

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

Battery Charger

This Battery Charger operates on AC between 110 V and 240 V.

120V AC power supply only. • When connecting to an AC supply outside of the U.S.A. or Canada.

. In the U.S.A. and Canada, the Battery Charger must be connected to a

- use a plug adaptor to suit the AC outlet configuration.
- When connecting to a supply of greater than AC 125V, ensure the cord you use is suited to the voltage of the AC supply and the rated current of the Battery Charger.
- · Contact an electrical parts distributor for assistance in selecting a suitable AC plug adaptor or AC cord set.

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.

- Read these instructions
- Keep these instructions. Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's İnstructions
- Do not install near any heat sources such as radiators, heat registers, stoyes, or other apparatus (including amplifiers) that produce heat
- 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.
- 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.



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

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B

digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio 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

- 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.

Any unauthorized changes or modifications to this equipment would void the user's

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

Responsible party: Support Contact:

Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094 Panasonic Consumer Electronics Company 1-800-211-PANA (7262)

THE FOLLOWING APPLIES ONLY IN CANADA.

This Class B digital apparatus complies with Canadian ICES-003.

EMC Electric and magnetic compatibility

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

Caution for AC mains lead (For United Kingdom)

For your safety, please read the following text carefully. This appliance is supplied with a moulded three pin mains plug for your safety and

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

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

A replacement fuse cover can be purchased from your local dealer

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF

PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET If a new plug is to be fitted please observe the wiring code as stated below If in any doubt please consult a qualified electrician.

IMPORTANT The wires in this mains lead are coloured in accordance with the following code: Blue: Neutral Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL $\frac{1}{4}$ OR COLOURED GREEN OR GREEN/YELLOW

THIS PLUG IS NOT WATERPROOF-KEEP DRY.

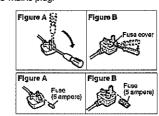
Before use

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.

Battery Pack

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.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

 If any electrolyte should come into contact with your hands or clothes, wash it off
- If any electrolyte should come into contact with your eyes, never rub the eyes. Rinse eyes thoroughly with water, and then consult a doctor.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same o equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Warning

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

Pursuant to at the directive 2004/108/EC, article 9(2) Panasonic Testing Centre Panasonic Marketing Europe GmbH

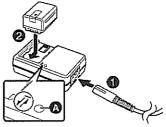
Winsbergring 15, 22525 Hamburg, Germany Panasonic Corporation, Osaka, Japan

Standard Accessories

This Battery Charger Set includes the Battery Charger and an AC cable. (A) AC cable

- A-1 Australia and New Zealand only
- A-2 U.K., Ireland, Hong Kong Special Administrative Region of China Saudi Arabia and Kuwait only
- (A)-3 U.S.A. and Canada only
- A-4 All other countries

Charging the battery



Charging lamp [CHARGE] @

Charging (Battery charging time:

→ Below) Goes off:

Charging completed Flashing:

Make sure that the terminals of the battery or the AC adaptor are not exposed to dirt, foreign objects or dust, then reconnect them properly.

1 Connect the AC cable to the battery charger and the AC outlet.

- 2 Insert the battery into the battery charger by aligning the arrows.
- The Battery Charger features automatic universal voltage adjustment (AC 110 V to 240 V, 50/60 Hz), therefore, there is no need for any manual voltage adjustment for use in other countries.
- Always use genuine Panasonic batteries (VW-VBL090/VW-VBK180/VW-VBK360).
- If you use other batteries, we cannot guarantee the quality of this product.

Specifications

DC Output:

Battery Charger Information for your safety

AC 110 V to 240 V, 50/60 Hz Power Source: Power Consumption: 5 W

DC 4.2 V. 0.65 A

Dimensions: 56 mm (W)×25 mm (H)×81 mm (D) $[xx"(W)\times xx"(H)\times xx"(D)]$

(excluding the projecting parts) Mass (Weight): Approx. 60 g (Approx. x lbs.) (without AC cable) Specifications are subject to change without notice.

Battery No.	Charging Time
VW-VBL090	2 h 10 min
VW-VBK180	3 h 40 min
VW-VBK360	6 h 40 min

The times listed in the above chart are approximations. The charging times are for normal ambient temperature (25 °C/60% relative humidity); charging times may be longer at higher or lower temperature.

Notes about the Battery Charger

- Use only for the specified Video Cameras and batteries.
- Do not handle with wet hands.
- To unplug the AC cable, be sure to pull it out by the plug, not by the lead.
- Do not forcefully bend the leads or after them. • Do not operate very close to a radio, TV etc.
- When the battery is warm, charging takes longer than usual.
- After use, be sure to disconnect the AC cable from the AC outlet. (If you leave it connected, a small amount of electricity is consumed.)
- · Always keep the terminals of the Battery Charger and the battery clean.
- Also read the Video Camera's operating instructions.