

Thank you for purchasing the SL-VBD50 Li-ion Battery for Panasonic professional video camera. Prior to using the SL-VBD50 we strongly recommend that you read this Instruction Manual on how to best use the SL-VBD50 and keep this manual for future reference. If you have any additional questions, please contact the appropriate IDX office listed at the end of this manual.

### ▲ DANGER

#### May cause sudden serious injury and death

- Charge with IDX battery charger only.
- Only use the SL-VBD50 with the Panasonic professional video camera model.  
Do not use with any other camera or equipment. Please contact IDX for more information.
- Do not short the contact pins with any metal object. Do not carry or store with metal equipment.
- Do not expose to heat and never throw the battery in a fire.
- Do not immerse in water. Keep the SL-VBD50 dry and away from excessively dry or humid environments.
- Do not leave the battery expose to excessive heat such as in a car or directly under the sun. Do not charge, discharge or store in an environment that is above or below IDX's specified temperature.
- Do not solder on the contact pins directly.
- Do not attempt to open the outer casing or break apart the SL-VBD50.
- Do not subject the unit to extreme physical impact or pressure.
- Do not pierce or drill into the outer casing of the unit.
- Do not attempt to use the SL-VBD50 if damaged.

### ▲ WARNING

#### May cause serious injury and death

- Please handle and use the SL-VBD50 with care if the temperature climbs to 50°C when discharged at a high load.
- Stop charging immediately if the SL-VBD50 fails to fully charge within the designated time limit.
- Do not use if the SL-VBD50 displays an unusual appearance (smell, heat, discolour etc.) when in use, during charge or in storage.
- Keep away from fire if the battery leaks fluid or unusual smell. In case of a leak, wash your hands and face thoroughly with clean water immediately. Check with your doctor if fluid gets into contact with your eyes.

### ▲ CAUTION

#### May cause injury or damage other equipment

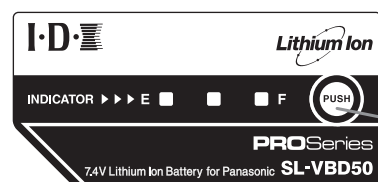
- Store the SL-VBD50 in cool, dry conditions.
- Do not leave the SL-VBD50 attached to the camera unused for long periods of time.
- Do not use, store or place the SL-VBD50 in an electrostatic area.

### Charging

- The SL-VBD50 Li-ion Battery product should only be used with the recommended IDX Li-ion charger. Refer to the manual of the IDX charger for specification and charging procedure.
- The SL-VBD50 can be charged in an ambient temperature range of 0~40°C. For optimum charging performance 10~30°C
- If the temperature of the SL-VBD50 is below 0°C, it will not fully charge even if the designated charging time has passed. The battery must be charged within the specified temperature range.
- The SL-VBD50 will exhibit a small amount of self discharge. IDX recommend charging before use.

### Battery capacity LEDs

- Remaining battery capacity is shown by a built-in three LED power indicator. The F light indicates the battery is fully charged, and E when the SL-VBD50 is empty and needs to be recharged.
- To check the remaining battery capacity press the check button. The LED lights will then indicate once the check button has been depressed.



Battery capacity LEDs check button

### Storing

- Deterioration of battery performance is accelerated when the SL-VBD50 is stored in a higher ambient temperature, and also if the battery is stored for long period of time without use. IDX recommend 20°C or below when the battery is stored for longer than 1 month.
- To store the battery for a longer period of time (more than 5 months), the battery should be charged until at least one LED appears on the capacity indicator display. This should be repeated every five months.

### Specifications

- Cell chemistry : Li-ion
  - Maximum voltage : 8.4V DC
  - Nominal voltage : 7.4V DC
  - Capacity : 5000mAh / 37Wh \*1
  - Charge current : 2500mA
  - Charge voltage : 8.4V
  - Discharge current : 2500mA
  - Battery protection circuit :  
Over-charge, Over-discharge, Over-current \*2
  - Ambient temperature :  
To charge : 0~40°C (10~30°C recommended)  
To discharge : -20~60°C  
To store : -20~40°C (0~20°C recommended)
  - Dimensions :  
36.5(W) × 81.5(H) × 65.5(D) mm  
1.44(W) × 3.21(H) × 2.58(D) inches
  - Weight : approx. 250 g / 0.55 lbs
- \*1. IDX measures capacity of lithium ion batteries as a minimum capacity.  
\*2. If the current fuse is blown for use at high load, charging and discharging will not function.

### Recycling of battery

This Li-ion battery can be recycled. Please follow the regulations in your country or contact your local IDX office for further details.

### Li-ion Battery Air Transport Compliance (as of Jan 1st, 2009)

IDX SL-VBD50s are suitable for transport by air as not restricted articles under the regulations of the International Air Transport Association (IATA), the International Civil Aviation Organization (ICAO). The products also passed the test for United Nations Recommendations on the Transport of Dangerous Goods. Consequently, the products may be brought as carry-on baggage. It may not be brought as checked baggage. IDX products can be transported in accordance with the above regulations, but IDX recommends that customers confirm with their carrier of choice to determine any local rules and policies before traveling.

#### For carry-on baggage

Excerpt from 2.3.5.9.1 for IATA Dangerous Goods Regulations (Produced in consultation with ICAO).

Consumer electronic devices (watches, calculating machines, cameras, cellular phones, lap-top computers, camcorders, etc.) containing lithium metal or lithium ion cells or batteries when carried by passengers or crew for personal use, which should be carried in carry-on baggage. Spare batteries must be individually protected to prevent short circuits by placement in the original retail packaging or by otherwise insulating terminals, e.g. by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch, and carried in carry-on baggage only. In addition, each installed or spare battery must not exceed the following: (b) for lithium ion batteries, a watt-hour rating of not more than 100Wh.

#### For cargo

1. Following the requirement in Part 1 of the PACKING INSTRUCTION 965 for IATA Dangerous Goods Regulations (Produced in consultation with ICAO). This applies to lithium ion or lithium polymer cells batteries (UN 3480) on passenger and Cargo Aircraft Only.
2. Fill in the air way bill as below:
  - Lithium ion battery, NOT RESTRICTED as per PI 965 Part 1.
  - Considering the package must be handled with care and flammability hazard exists, if the package is damaged, indicate as in the following statement.  
e.g.) "The package must be handled with care and flammability hazard exists, if the package is damaged."
  - Write handling procedures, etc. in case the package is damaged, according to applicable Packing Instruction.  
e.g.) "Do not damage or mishandle this package. If package is damaged, batteries must be protected so as to prevent short circuit."
  - Write a telephone number for additional information.  
e.g.) Contact TEL Number : +1-800-xxx-xxxx (US) / +44-xx-xxxx-xxxx (UK) etc.
3. Each package must be labeled with a lithium ion battery handling label indicating "Lithium ion battery". When affixing Lithium Battery Labels with IATA DGR 7.4.8 FIGURE 7.4.1 specifications, they must not be folded or affixed in such a manner that parts of the same label appear on different faces of the package.
4. As for lithium ion battery (100Wh or below), it is necessary to indicate Watt-hour rating on the battery case exterior. However, for lithium ion batteries manufactured before December 31, 2008, indication is exempted until December 31, 2010.
5. Each package must be 10kg or below.
6. Use a packaging that has passed the drop test (1.2m). Retain the results of the test. If there is a trouble or if an incident/accident occurs, you may be asked to submit the test results by the carrier or the competent authority.



**IDX Company, Ltd.** : 6-28-11 Shukugawara, Tama-ku, Kawasaki-shi, Kanagawa-ken 214-0021 Japan  
Tel: +81-44-850-8801 Fax: +81-44-850-8838 E-mail: idx.japan@idx.tv  
**IDX System Technology, Inc.** : 19001 Harborage Way, Suite 105, Torrance, CA 90501 USA  
Tel: +1-310-891-2800 Fax: +1-310-891-3600 E-mail: idx.usa@idx.tv  
**IDX Technology Europe, Ltd.** : Unit 9, Langley Park, Waterside Drive, Langley, Berkshire SL3 6EZ England  
Tel: +44-1753-547-692 Fax: +44-1753-546-660 E-mail: idx.europe@idx.tv

