

## Instruction Manual



Thank you for purchasing the SSL-JVC50 Li-ion Battery. The SSL-JVC50 is designed to be used with specific JVC KENWOOD video cameras and equipment. Prior to using the battery, we strongly recommend that you read this Instruction Manual on how to best use the battery 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.

### Caution for safety use

Improper handling of this Li-ion battery may result in smoke, heat, fire, explosion or leakage as well as cause performance degradation or failure. Please be sure to observe the following precautions.

#### **⚠ DANGER**

##### **May cause sudden serious injury and death**

- Charge with JVC KENWOOD equipment or IDX battery charger only.
- Only use the battery with JVC KENWOOD video cameras and equipment. Do not use it with other equipment.
- 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 battery dry and away from excessively dry or humid environments.
- Do not leave the battery exposed to excessive heat such as in a car or directly under the sun light. Do not use outside specified temperature range.
- Do not solder on the contact pins directly.
- Do not attempt to open the outer casing or break apart the battery.
- Do not subject the unit to extreme physical impact or pressure, or place any object across the terminals that could cause it to short.
- Do not pierce or drill into the outer casing of the unit.
- Do not attempt to use the battery if damaged.
- Do not use a battery in a corrosion environment. (Damage from salt water, seawater, acid, alkali, corrosive gas, etc.) and do not use it in an extreme high humidity environment.
- Risk of explosion if battery is replaced by an incorrect type.

#### **⚠ WARNING**

##### **May cause serious injury and death**

- Please note that the outside casing becomes hot when the battery is used by discharging high temperature or high load.
- Stop charging immediately if the battery fails to charge within the designated time for charging as noted in the manual for the charger.
- Do not use if the battery displays an unusual appearance (smell, discolor, etc.) when in use, during charge or in storage.
- Keep away from fire if the battery leaks fluid or has an unusual smell.
- In case of leakage, wash your hands and face thoroughly with clean water immediately.
- Check with your doctor if battery fluid gets into contact with your eyes.

#### **⚠ CAUTION**

##### **May cause injury or damage other equipment**

- Follow instructions on charging and discharging.
- Store in cool and dry conditions.
- During long periods when not in use, please remove the battery from the equipment.
- Do not use, store or place the battery in an electrostatic area.
- Always keep the connectors clean.

## Battery Recycling

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

## Compliant equipment

- The SSL-JVC50 battery is for video equipment made by JVC KENWOOD. This model can not be used for other equipment. For questions on compatible equipment, please submit inquiries to JVC KENWOOD.

## Charging

- The Li-ion battery should be used with JVC KENWOOD equipment or IDX Li-ion chargers only. Refer to the instruction manual of the equipment or IDX charger for a description of the charging procedure.
- The battery will stop charging when it exceeds the range of the charge temperature specification. Please resume charging after the battery returns to room temperature.
- The battery will incur a small amount of self discharge. IDX recommends charging before use.

## Discharging

- When using the battery, the total power consumption must be 21W or below. To protect the battery, a load of 21W or more may activate the internal protection circuit and stop the supply of power.
- In general, the battery discharge time will be shortened if the load/power consumption is higher than 21W.
- Discharge capabilities are reduced when the battery is used in extreme low/high temperature environments. Discharging at an ambient temperature of 50~104°F(10~40°C) is recommended.
- The voltage range during discharge is a 8.4V~6V. The battery automatically stops discharging below 6V.
- Transmitter equipment with a power output above 5W should be kept as far away from the battery as possible as it may disrupt or even stop the discharging.

## Storing

- Store in cool and dry conditions.
- Do not store or leave in temperatures of 140°F(60°C) or above.
- When long-term storage, please keep it to about 20% to 30% charge capacity.

## Life cycle

- The life cycle may depend on usage environment, or frequency of use or conditions during storage.
- The battery's life cycle is also reduced if used or stored under high temperatures, or if stored in a fully charged condition for extended periods.

## Specifications

- Cell chemistry : Li-ion
- Nominal voltage: DC 7.4V
- Capacity : 4900mAh/37Wh\*
- Charge voltage : (Std.) DC 8.4V  
(Max.) DC8.5V(32~113°F(0~45°C))
- Charge current : (Std.) 2.5A  
(Max.) 3.5A(50~113°F(10~45°C))
- Descharge current : 3500mA(maximum 21W)
- End voltage : 6.0V
- Battery protection circuit :  
Over-charge, Over-discharge, Over-current,  
Thermal protection
- Ambient temperature  
To charge : 32 ~ 140°F(0 ~ 60°C)  
(50 ~ 86°F(10 ~ 30°C) recommended)
- To discharge : -4 ~ 140°F(-20 ~ 60°C)  
(50 ~ 104°F(10 ~ 40°C) recommended)
- To store : -4 ~ 122°F(-20 ~ 50°C)(one month)
- Dimensions/Weight :  
43(W)×70.4(L)×47(H)mm/approx. 225g  
1.69(W)×2.77(L)×1.85 (H)inches/approx. 0.50lbs
- IDX measures capacity of Li-ion batteries as a minimum capacity.

## Shipment

- At the time of factory shipment, the state of the battery charge is about 30%. This will depend on production lots and length of storage time.

## Li-ion Battery Air Transport Compliance

IDX batteries are suitable for transport by air as unrestricted 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, 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 Section II 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 Section II.
- 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 DGR7.4.8 FIGURE 7.4.I 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 Watt-hour rating is exempted indefinitely.

5. Each package must be 10kg (22lbs.) 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.

EU only



Design and specification are subject to change without notice.

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