Lightera

TKK-26054

Rechargeable Ni-MH Battery for ID-H/Rv4 Instruction Manual

Safety Precautions

This instruction manual describes important precautions that must be observed to prevent personal injury and property damage and to ensure the safe use of this product. The meanings of the safety indications and symbols are explained below. Please read and fully understand this information before reading the main text.
This instruction manual is provided in electronic format. Please print it or save an electronic copy as necessary, and keep it readily available for future reference.

Be sure to observe the following precautions to ensure safe use.

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided due to improper handling or ignoring this indication, could result in death or serious injury.
⚠ CAUTION	Indicates a situation which, if not followed and the product is handled incorrectly, may prevent the product from performing as intended or may result in malfunction.

Every effort has been made to ensure the accuracy of the information contained in this manual. However, if you notice any errors or omissions, please contact us at the address provided.
Please note that we assume no responsibility or liability for any damage resulting from product failure, malfunction, improper operation, defects, or external factors such as power outages.

⚠ WARNING
●Failure to observe the following instructions may cause fluid leakage, overheating, fire, or damage to the product. Be sure to observe the instructions listed below. ・Use this product only with our “Optical Fiber Identifier ID-H/Rv4.” ・harge this product only using the AC adapter specified for the ID-H/Rv4 and the Optical Fiber Identifier ID-H/Rv4 main unit. Charging this product with other equipment may result in excessive charging current or improper charging control, which may cause the battery to leak, overheat, rupture, or catch fire. ・Do not dispose of this product in fire or expose it to heat. ・Do not disassemble or modify this product. Doing so may cause overheating, fire, or the scattering of strongly alkaline liquid. ・Do not connect the positive (+) and negative (–) terminals of this product with metal objects such as wire. Do not carry or store this product together with metal items such as necklaces or hairpins. When carrying the product, use the specified carrying case or an equivalent protective case. ・Do not solder directly to this product. ・This product has a designated orientation for the ⊕ and ⊖ terminals. If the product cannot be properly installed in the device, do not force it into place. Be sure to check the polarity (positive and negative orientation) before installation. ・This product is equipped with a gas release valve that discharges internal gas through the ⊕ terminal. Therefore, do not deform or damage the ⊕ terminal. ・Do not recharge this product after charging has been completed. ・Do not connect this product directly to a power outlet or to a vehicle cigarette lighter socket.
●This product contains an alkaline solution. If the liquid enters the eyes, there is a risk of blindness; do not rub the eyes, and immediately rinse thoroughly with plenty of clean water and seek medical attention at once.
●Do not immerse this product in water, seawater, or any other liquid, and do not allow the terminals to get wet, as this may cause heat generation or corrosion of the terminals.
●If the liquid from this product comes into contact with the skin or clothing, it may cause skin irritation; immediately rinse thoroughly with clean water.
●Do not remove or damage the outer tube or label of this product, as this may cause liquid leakage or heat generation.
●Do not use this product if the outer tube or label is scratched or damaged, as this may cause a short circuit and result in liquid leakage, heat generation, rupture, or fire.
●Do not use this product if you notice any leakage, discoloration, deformation, or any other condition different from normal.
●To prevent accidental ingestion, keep this product out of the reach of infants and young children; if swallowed, consult a physician immediately.

⚠ CAUTION
●Do not subject this product to strong impact or throw it.
●Keep this product out of the reach of infants and young children, and be careful not to remove the battery from the charger or the device during use.
●For information on how to charge this product, please carefully read the instruction manual for the dedicated ID-H/Rv4 AC adapter.
●Do not use or leave this product in places exposed to strong direct sunlight or in high-temperature locations such as inside a car on a hot day or near heaters or stoves, as this may cause liquid leakage and degrade battery performance and service life.
●Do not leave this product connected to the equipment for an extended period of time, as this may cause liquid leakage. After use, be sure to turn off the equipment and remove the battery from the device.
●Before using this battery for the first time after purchase, or if it has not been used for a long period of time, be sure to charge it.
●After a long period of non-use, the initial charging may end before the battery is fully charged; in this case, repeat charging and discharging several times before use.
●When this product is not in use, or when the equipment will not be used for an extended period of time, remove the battery from the equipment and store it in a dry place to prevent liquid leakage or corrosion.
●Do not use new and old batteries together, or batteries with different charge levels. Also, do not mix this battery with dry cells or batteries of different capacities, types, or brands, as this may cause liquid leakage or heat generation.
●If the terminals of this product are dirty, poor contact with the equipment may occur, which may cause power interruption or charging failure; before use, wipe the terminals with a dry cloth to keep them clean.
●Batteries have a limited service life. Even when used in equipment of the same type, battery life varies depending on the operating temperature and the number of charge and discharge cycles. If the operating time becomes noticeably shorter even when the battery is charged under the specified conditions, the battery has reached the end of its service life and should be replaced with a new nickel-metal hydride battery.
●Do not place combustible materials on or cover this product while it is charging, as this may cause the battery to overheat or catch fire.
●Do not recharge this product once charging has been completed, as this may cause liquid leakage, heat generation, rupture, or fire, and may also degrade battery performance and service life.
●Before using this product, be sure to read this instruction manual carefully.

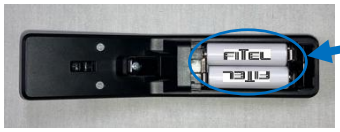
1. Components

Components	Model Number	Qty
Rechargeable Ni-MH Battery for ID-H/Rv4	IDHRv4-04I	2 batteries
Online Instruction Manual Guide	IDHRv4-02I	1 instruction manual

2. Appearance

3. How to Use

① Install two units of this product into the Optical Fiber Identifier ID-H/Rv4.



This is a dedicated rechargeable battery marked with “FITEL”.

⚠ WARNING

When installing the product, make sure that the positive (+) and negative (−) terminals are connected correctly.

② Connect the DC plug (USB Type-C) of the ID-H/Rv4 AC adapter to the main unit of the Optical Fiber Identifier ID-H/Rv4.

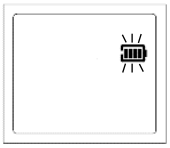
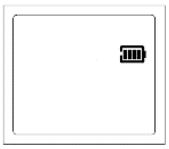
③ Connect the power plug of the AC adapter specified for the ID-H/Rv4 to a commercial power supply to start charging.

⚠ WARNING Never attempt to charge primary batteries such as alkaline batteries. Failure to do so may result in overheating, rupture, or fire.

④ After charging is complete, unplug the dedicated AC adapter from both the ID-H/Rv4 unit and the AC outlet for safety.

⚠ CAUTION The battery temperature may reach approximately 40° C immediately after charging. This is normal.

4. Status Indicators

Status	Indication（ID-H/Rv4 Main Unit LCD）
Charging	Battery Level Gauge：Blinking 
Charging Complete	Battery Level Gauge：Lit 
Charging Error	Battery Level Gauge ＆LED：Blinking ※Unplug the AC adapter from the power outlet and check the battery type and connections. If the rechargeable battery is old or degraded, replace it with a new one.

5. Specifications ※1

Item		Spec
Nominal Capacity / Rated Capacity		1000mAh / 950mAh
Nominal Voltage		1.2V
Dimensions ※2	Diameter	ϕ 14.2 ㎜
	Height	50.4 ㎜
Temperature Conditions ※3	Operating	0 to +40°C (Charging), 0 to +50°C (Discharging)
	Storage	-20 to +50° C (up to 30 days) -20 to +40° C (up to 90 days) -20 to +30° C (up to 1 year)
	Humidity	65 ± 20% RH (non-condensing)

※1. All specifications are for a single battery.
※2. Dimensions include the label and tube.
※3. Use or storage outside the specified ranges may significantly shorten battery life. Even within the specified ranges, performance may vary depending on the operating and storage conditions.

6. Recycling and Disposal

Ni-MH batteries contain valuable recyclable resources.
To help protect the environment and conserve natural resources, please ensure that used batteries are collected and recycled properly.
When recycling batteries, follow the applicable local recycling regulations.

When disposing of batteries, observe the following precautions:
・Do not dispose of batteries as household waste.
・Insulate the battery terminals with tape or other suitable material.
・Follow applicable local disposal regulations and legal requirements, or contact the distributor from whom you purchased the product or the contact information provided in Section 7, Contact Information.

About the Crossed-out wheeled bin symbol (hereinafter referred to as the “Symbol”)

Note: This symbol is valid only in countries within the European Union.

This symbol is specified in Article 13, “Labelling and Marking of Batteries,” and Annex VI of Regulation (EU) 2023/1542 on batteries.
This symbol indicates that batteries and accumulators must not be disposed of with general household waste and must be collected separately.

If a chemical symbol appears below the symbol, it means that the battery or accumulator contains heavy metals above the applicable concentration limits.
The concentration thresholds are as follows.

Hg（Mercury）:	0.0005%
Cd（Cadmium）:	0.002%
Pb（Lead）:	0.004%

If these materials are not disposed of properly, they may pose serious risks to human health and the environment.

In the European Union, systems are in place for the separate collection of used batteries and accumulators. Please dispose of batteries and accumulators properly at your local collection or recycling center.

We kindly ask for your cooperation in helping to protect our global environment.

7. Contact Us

For sales and service information, contact FURUKAWA ELECTRIC CO., LTD. or your local representative.

2-6-4, OTEMACHI, CHIYODA-KU, TOKYO, 100-8322 JAPAN
Engineering Department / Optical Fiber & Cable Products Department / Optical Solution Domain
Furukawa Electric Co., Ltd.